



PROFESSIONAL **HVAC/R** MANUFACTURER AND SUPPLIER

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WHATS APP



WHATS APP

HANGZHOU WINLEAD
TECHNOLOGY CO., LTD.

WINLEAD

WINLEAD

SPECIALIZES IN EXPORTING PARTS

Hangzhou Winlead Technology Co., Ltd. specializes in exporting parts and complete machines in fields such as refrigeration, ventilation, heating, cold chain transportation, and mobile refrigeration. We also provide OEM and ODM services for our clients. Our business reaches over 50 countries and regions globally.

Upholding the concept of win-win cooperation, Winlead has worked hard with customers worldwide and achieved outstanding results. WINLEAD LEAD TO WIN. Winlead will move towards a brilliant future together with domestic and foreign customers.



HVAC/R EXPERT

PRODUCT CONTENTS

01

PIPE/TUBE SERIES

01-06

Pancake Coil/Straight Tube
Level Wound Coil/Pre-Nbr Coated Tube
Pre-Pe Coated Tube/Capillary Copper Tube
Nbr Insualtion Tube

03

COMPRESSOR SERIES

15-28

CRSS Rotary Compressor
PANASONIC Co Rotary Converter Compressor
GMCC rotary compressor
HIGLY Heat Pump Compressor
COPELAND Scroll Compressor
BSONYO Scroll Compressor
DONPER Refrigerator Compressor
DORIN Semi-Hermetic Compressor
XUEYING Semi-Hermetic Compressor
GODHOPE screw Compressor

02

REFRIGERANT SERIES

07-14

Disposable Steel Cylinder
Spray Can / Ton Tank / Iso Tank

04

MOTOR SERIES

29-58

COPPER TUBE NAME
COPPER TUBE NAME
COPPER TUBE NAME

05

TOOLS

59-68

COPPER TUBE NAME
COPPER TUBE NAME
COPPER TUBE NAME

06

CONTROLLERS

69-106

COPPER TUBE NAME
COPPER TUBE NAME
COPPER TUBE NAME

07

INSTALLATION ACCORIES

107-184

COPPER TUBE NAME
COPPER TUBE NAME
COPPER TUBE NAME

PIPE/TUBE SERIES

SELECTED HIGH-QUALITY ELECTROLYTIC COPPER RAW MATERIALS



PRODUCT FEATURES

Selected high-quality electrolytic copper raw materials (copper content $\geq 99.99\%$). Copper pipes are widely used in industries such as plumbing and healthcare. Copper water heating pipes have excellent antibacterial effects on drinking water, with a lifespan of up to a hundred years, and can be recycled and reused almost 100%; Copper medical tubes, due to their safety and hygiene requirements for transportation, as well as the special and important nature of their transportation medium, are different from common public pipelines in residential buildings.



PANCAKE COIL



STANDARD SIZE

Our company can produce this tube products that comply with JISH3300:1997、GB/T17791-2007 and ASTM B280 standards.

American standard ruler(inch)	Domestic popular ruler(mm)	Copper tube wall thickness(mm)	Single disk meter count(m)
3/16	4.76	0.35~0.90	15~50(Special length can be customized)
1/4	6.35	0.40~1.10	
5/16	7.94	0.40~1.20	
3/8	9.52	0.40~1.20	
1/2	12.7	0.45~1.20	
5/8	15.88	0.50~1.20	
3/4	19.05	0.60~1.20	
7/8	22.22	0.90~1.20	

LEVEL WOUND COIL



STANDARD SIZE

Produce copper pipes for refrigeration that comply with JISH3300:1997 and GB/T17791-2007 standards.

American standard OD(inch)	Domestic popular OD(mm)	Copper tube wall thickness (mm)	Single coil weight of small coil(kg)	Single coil weight of large coil(kg)
3/16	4.76	0.35~0.90	50	90~130 130~180
1/4	6.35	0.30~1.10		
5/16	7.94	0.28~1.20		
3/8	9.52	0.28~1.50		
1/2	12.7	0.35~1.50		
5/8	15.88	0.41~1.50		
3/4	19.05	0.61~1.5		
7/8	22.22	0.89~1.5		

STRAIGHT TUBE



- Also supply Brass tube / Copper-nickel tube/ Medical copper tube.

STANDARD SIZE

Copper Tube Production Standards: JIS H3300: 2012/GB/T17791-2017/ASTM B280.

American standard OD(inch)	Domestic popular OD(mm)	Copper tube wall thickness(mm)	American standard OD(inch)	Domestic popular OD(mm)	Copper tube wall thickness(mm)
3/8	9.52	0.28-1.50	1 5/8	41.28	0.7-3.50
1/2	12.7	0.35-2.00	2 1/8	53.98	0.7-3.50
5/8	15.88	0.46-2.00	2 5/8	66.6	1.0-4.00
3/4	19.05	0.6-2.00	3 1/8	79.3	1.2-5.00
7/8	22.22	0.6-2.00	3 5/8	92.08	1.5-5.00
1	25.4	0.6-2.00	4 1/8	104.78	1.5-5.00
1 1/8	28.58	0.6-3.00	5 1/8	130.18	
1 1/4	31.75	0.6-3.00	6 1/8	155.58	
1 3/8	34.93	0.6-3.00	8 1/8	206.38	
1 1/2	38.1	0.6-3.00			

PRE - NBR COATED TUBE



SIGLE AND DUOBLE NBR TUBE

Wall thickness can be customized according to customer requirements.

Coated copper tube	copper tube size(mm)		Insulation(mm)		Length(m)	Performance	color
	Outside diameter	Wall thickness	Outside diameter	Wall thickness			
30 meter coated copper tube standard	Φ6.35	0.4~1	Φ8.0	8	30	Resistant to 80 degrees Celsius without flame retardancy; Flame retardant with a temperature resistance of 80 degrees; Temperature resistant and flame retardant at 120 degrees Celsius	According to customer requirements
	Φ9.52	0.4~1	Φ12.0	8	30		
	Φ12.70	0.4~1	Φ14.5	10	30		
	Φ12.70	0.4~1	Φ18.0	10	30		
	Φ19.05	0.4~1	Φ22.0	10	30		
50 meter coated copper tube standard	Φ6.35	0.4~1	Φ8.0	8	50		
	Φ9.52	0.4~1	Φ12.0	8	50		
	Φ12.70	0.4~1	Φ14.5	10	50		
	Φ12.70	0.4~1	Φ18.0	10	50		
	Φ19.05	0.4~1	Φ22.0	10	50		

PRE - PE COATED TUBE



DOUBLE TUBE

Wall thickness and length can be customized according to customer requirements.

Coated copper tube	copper tube size(mm)		Insulation(mm)		Length(m)	Performance	color
	Outside diameter	Wall thickness	Outside diameter	Wall thickness			
20 meter coated copper tube standard	Φ6.35+9.52	0.4~1	Φ8.0+12.0	8+8	20	Resistant to 80 degrees Celsius without flame retardancy; Flame retardant with a temperature resistance of 80 degrees; Temperature resistant and flame retardant at 120 degrees Celsius	According to customer requirements
	Φ6.35+12.70	0.4~1	Φ8.0+14.5	8+10	20		
	Φ6.35+15.88	0.4~1	Φ8.0+18.0	8+10	20		
	Φ9.52+15.88	0.4~1	Φ12.0+18.0	8+10	20		
30 meter coated copper tube standard	Φ9.52+19.05	0.4~1	Φ12.0+22.0	8+10	20		
	Φ6.35+9.52	0.4~1	Φ8.0+12.0	8+8	30		
	Φ6.35+12.70	0.4~1	Φ8.0+14.5	8+10	30		
	Φ9.52+15.88	0.4~1	Φ12.0+18.0	8+10	30		
	Φ9.52+19.05	0.4~1	Φ12.0+22.0	8+10	30		

CAPILLARY COPPER TUBE



Capillary tube comply with ASTM B360 standard.

Chemical Composition	Tolerance	Physical Property	Inner hole requirements	Surface Quality	Internal Cleanliness
		Tensile Strength (N/mm ²)			
Cu ≥99.9% P0.15%-0..04%	OD+0.03mm	Hard >345 Semi-Hard 245-370 Soft>205	The inner hole is unblocked and needs to meet customer flow requirements	Smoothand clean, nocracks, pinholes, peeling,green rust, etc	The inner wall is clean, and the inner wall residue does not exceed 0.2g/m²
	ID+0.02mm	Elongation			
		Soft ≥40%			
Alloy	Temper		OD		ID
TP2 CU-DHP C12200 SF-CU	hard semi-hard soft		0.5-6.1mm		0.3 - 4.45mm

NBR INSUALTION TUBE



Wall thickness can be customized according to customer requirements.

ID	TK 6mm 1/4"	TK 9mm 3/8"	TK 13mm 1/2"	TK 19mm 3/4"	TK 25mm 1"
	PCS/CTN	PCS/CTN	PCS/CTN	PCS/CTN	PCS/CTN
1/4"(6mm)	250	168	100	48	30
3/8"(10mm)	200	120	90	36	30
1/2"(13mm)	168	100	72	30	24
5/8"(16mm)	133	90	63	30	20
3/4"(19mm)	113	72	56	25	20
7/8"(22mm)	80	65	42	24	18
1"(25mm)	70	49	42	20	16
1-1/8"(28mm)	60	49	36	20	16
1-1/4"(32mm)	55	42	30	20	15
1-3/8"(35mm)	50	36	30	16	12
1-1/2"(38mm)		34	30	16	12
1-5/8"(42mm)		30	25	16	12
1-7/8"(48mm)		28	20	15	10
2"(51mm)		24	20	12	9
2-1/8"(54mm)		20	18	12	9
2-1/4"(57mm)		20	18	12	9
2-3/8"(60mm)		20	15	10	9
2-5/8"(67mm)		18	13	9	8
2-7/8"(73mm)		18	13	9	8
3"(76mm)		18	12	8	8
3-1/8"(79mm)		15	12	8	6
3-1/2"(89mm)		15	12	6	6

REFRIGERANT SERIES

WORKING FLUID THAT PRODUCES FREEZING
EFFECT



PRODUCT FEATURES

Steel cylinders, which are steel cylinders used to store high-pressure oxygen, coal gas, liquefied petroleum gas, etc. Gas cylinders generally contain permanent gases, liquefied gases, or mixed gases. [2] The cylinder management of gas cylinder filling units, gas cylinder inspection units, gas cylinder users (including factories, laboratories, hospitals, schools, disease control centers, electronic rooms, clean rooms, industrial institutions, etc.), bottled gas and gas cylinder distribution units urgently needs to be improved, and the safety management of transportation and storage of gas cylinders should be strengthened.



DISPOSABLE STEEL CYLINDER



R22 Used as refrigerant, pesticide spray,also used asFire extinguishing agent and fluorine resin raw materials.

Physical Property	Molecular Weiaht	Boiling Point,℃	Critical Temperature,℃	Critical Pressure.Mpa	Specific Heat of Liquid,30℃ ,[KJ/(Kg·℃)]	ODP	GWP
	86.47	-40.8	96.2	4.99	0.31	0.055	3900
Quality index	Purity,%	Moisture.PPm	Acidity.PPm	Vapor Residue,PPm	Appearance	Odor	
	≥ 99.9	≤ 10	≤ 0.1	≤ 100	Colorless,No turbid	No Strange Stench	
Packing	Disposable cyinders 50lbs/22.7kg						

R134A

Used as medium and low temperature refrigerant, can replace R12.

Physical Property	Molecular Weiaht	Boiling Point,℃	Critical Temperature,℃	Critical Pressure.Mpa	Specific Heat of Liquid, 30℃ ,[KJ/(Kg·℃)]	Solubility (water,25℃),%	ODP	GWP
	102.03	-26.1	101.1	4.05	1.51	0.15	0	1200
Quality index	Purity,%	Moisture.PPm	Acidity.PPm	Vapor Residue,PPm	Appearance	Odor		
	≥ 99.9	≤ 10	≤ 1	≤ 100	Colorless,No turbid	No Strange Stench		
Packing	Disposable cyinders 50lbs/22.7kg; Repealable Cyinder 12L 14L 100L 926L; Aerosol tank MAPP tank ISO-TANK							

R404A

Used as medium and low temperature refrigerant, can replace R22.R502

Physical Property	Molecular Weiaht	Boiling Point,℃	Critical Temperature,℃	Critical Pressure.Mpa	Specific Heat of Liquid,30℃ ,[KJ/(Kg·℃)]	ODP	GWP
	97.6	-46.5	72.1	3.74	0.38	0	3800
Quality index	Purity,%	Moisture.PPm	Acidity.PPm	Vapor Residue,PPm	Appearance	Odor	
	≥ 99.8	≤ 10	≤ 1	≤ 100	Colorless,No turbid	No Strange Stench	
Packing	Disposable cyinders 24lbs/10.9kg; Repeatable Cyinder 12L 14L 100L 926L; MAPP tank ISO-TANK						

DISPOSABLE STEEL CYLINDER



R410A Used as medium and hiah temperature refrigerant, can replace R22.

Physical Property	Molecular Weiaht	Boiling Point,℃	Critical Temperature,℃	Critical Pressure.Mpa	Specific Heat of Liquid,30℃ ,[KJ/(Kg·℃)]	ODP	GWP
	72.58	-51.6	72.5	4.95	1.78	0	2000
Quality index	Purity,%	Moisture.PPm	Acidity.PPm	Vapor Residue,PPm	Appearance	Odor	
	≥99.8	≤10	≤1	≤100	Colorless,No turbid	No Strange Stench	
Packing	Disposable cyinder 25bs/1 1.3kg; Repealable Cyinder 12L 14L 100L 926L; MAPP tank ISO-TANK						

R417A

Can replace R22.

Physical Property	Molecular Weiaht	Boiling Point,℃	Critical Temperature,℃	Critical Pressure.Mpa	Specific Heat of Liquid,30℃ ,[KJ/(Kg·℃)]	ODP	GWP
	106.75	-41.8	87.3	4.05	1.42	0	1950
Quality index	Purity,%	Moisture.PPm	Acidity.PPm	Vapor Residue,PPm	Appearance	Odor	
	≥99.8	≤10	≤1	≤100	Colorless,No turbid	No Strange Stench	
Packing	Disposable cylinder 25lb/11.3kg; Repeatable Cyinder 12L 14L 100L 926L; MAPP tank ISO-TANK						

R32

Medium and high temperature refrigerant, it can replace R22 and R410A.

Physical Property	Molecular Weiaht	Boiling Point,℃	Critical Temperature,℃	Critical Pressure.Mpa	Specific Heat of Liquid,30℃ ,[KJ/(Kg·℃)]	ODP	GWP
	52	-51.7	78.4	5.8	2.35	0	58
Quality index	Purity,%	Moisture.PPm	Acidity.PPm	Vapor Residue,PPm	Appearance	Odor	
	≥99.9	≤10	≤1	≤100	Colorless,No turbid	No Strange Stench	
Packing	Disposable cylinders 22lb/9.5kg 6.6Lb/3kg; Repeatable Cylinder 12L 926L; MAPP tank ISO-TANK						

DISPOSABLE STEEL CYLINDER



R290 It can replace R22 and R502.

Physical Property	Molecular Weiaht	Boiling Point,℃	Critical Temperature,℃	Critical Pressure.Mpa	Specific Heat of Liquid,30℃ ,[KJ/(Kg·℃)]	ODP	GWP
	44	-42.2	96.7	4.25	2.8	0	20
Quality index	Purity,%	Moisture.PPm	Acidity.PPm	Vapor Residue,PPm	Appearance	Odor	
	≥99.9	≤10	≤0.1	≤100	Colorless,No turbid	No Strange Stench	
Packing	Disposable cylinders 50lbs/10kg; Recyclable Cyinder 100L, 926L; ISO-Tank						

R600A

Can replace R12.



Physical Property	Molecular Weiaht	Boiling Point,℃	Critical Temperature,℃	Critical Pressure.Mpa	Specific Heat of Liquid,30℃ ,[KJ/(Kg·℃)]	ODP	GWP
	48	-11.7	135	3.6	2.489	0	
Quality index	Purity,%	Moisture.PPm	Acidity.PPm	Vapor Residue,PPm	Appearance	Odor	
	≥99.9	≤10	≤1	≤100	Colorless,No turbid	No Strange Stench	
Packing	Disposable Cylinders 14.3lbs/6.5kg; Recyclable Cyinder 100L, 926L; ISO-Tank						

R422D

It can replace R22.



Physical Property	Molecular Weiaht	Boiling Point,℃	Critical Temperature,℃	Critical Pressure.Mpa	Specific Heat of Liquid,30℃ ,[KJ/(Kg·℃)]	ODP	GWP
	108	-42.6	79.7	3.9	1.K	0	2230
Quality index	0.283	Moisture.PPm	Acidity.PPm	Vapor Residue,PPm	Appearance	Odor	
	≥99.9	≤10	≤1	≤100	Colorless,No turbid	No Strange Stench	
Packing	Disposable cylinder 25lb/11.3kg; Repeatable Cylinder 12L 14L 100L 926L; MAPP tank ISOTANK						

DISPOSABLE STEEL CYLINDER



R407C Can replace R22.

Physical Property	Molecular Weiaht	Boiling Point,℃	Critical Temperature,℃	Critical Pressure.Mpa	Specific Heat of Liquid,30℃ ,[KJ/(Kg·℃)]	ODP	GWP
	86.2	-43.8	87.3	4.63	1.51	0	1700
Quality index	Purity,%	Moisture.PPm	Acidity.PPm	Vapor Residue,PPm	Appearance	Odor	
	≥99.8	≤10	≤1	≤100	Colorless,No turbid	No Strange Stench	
Packing	Disposable cyinders 22lb/10kg; Repeatable Cyinder 400L 926L; ISO-Tank						

POLYMERIC MDI

M20S /B1001



M20S /B1001

M20S /B1001	Wanhua PM 200
	250kg per Drum
	BASF M20S /B1001
	Covestro 44V20
	polymeric MDI



SPRAY CAN / TON TANK / ISO TANK



COMPRESSOR SERIES

A PASSIVE FLUID MACHINERY THAT ELEVATES LOW - PRESSURE GAS
INTO HIGH - PRESSURE GAS



PRODUCT FEATURES

The refrigeration compressor is the core and heart of the refrigeration system. The ability and characteristics of the compressor determine the ability and characteristics of the refrigeration system. New research directions and achievements continue to emerge. The technology and performance level of compressors are constantly changing. There are many types of compressors, and according to different working principles, refrigeration compressors can be divided into fixed displacement compressors and variable displacement compressors.



CRSS ROTARY COMPRESSOR

- High efficiency: Compressor cop increased by 8%, airconditioner apf increased by 6%, meet the updated first class energy regulation.
- Quiet: Compressor noise drops by 3db, 6 octave noise decreasing 4~5db, airflow pulsation decreasing 50%, better for air-conditioner audio impression.



R32/R410A DC Inverter S ingle Cylinder Test Condition:SEER 60

Series	Typical Model	Displ. (cm³/rev)	Cooling Capacity		Power (W)	COP (W/W)	Capacitor (μF/V)	Compressor Height(mm)	Discharge Pipe ID(mm)	Suction Pipe ID(mm)	Remark
			(W)	(Btu/h)							
SK	KSK53D15UEZ3	5.3	1620	5527	442	3.66	-	200	8.1	9.8	
	KSK66D15UDZ3	6.6	2020	6892	540	3.74	-	200	8.1	9.8	
	KSK66D22UEZ31	6.6	2045	7848	538	3.80	-	240	8.1	9.8	▲
	KSK75D12UEZ31	7.5	2300	7933	612	3.76	-	200	8.1	9.8	▲
	KSK75D35UEZA3	7.5	2325	8735	602	3.86	-	240	8.1	9.8	
	KSK82D22UEZA31	8.2	2560	9537	670	3.82	-	260	6.15	8.1	▲
	KSK89D32UEZA31	8.9	2795	9519	728	3.84	-	240	8.1	9.8	▲
	KSK89D35UEZ3	8.9	2790	11072	715	3.90	-	240	8.1	9.8	
	KSK103D32UEZ31	10.3	3245	11055	850	3.82	-	240	8.1	9.8	▲
	KSK103D26UEZD3	10.3	3240	11106	840	3.86	-	240	8.1	9.8	
	KSK103D33UEZ3	10.3	3255	10475	830	3.92	-	270	8.1	9.8	
	KSN98D21UEZB31	9.8	3070	10475	784	3.92	-	250	8.1	9.8	▲
SN	KSN98D21UEZD31	9.8	3070	10475	784	3.92	-	232	8.1	9.8	▲
	KSN98D27UER31	9.8	3070	10475	779	3.94	-	250	8.1	9.8	
	KSN98D31UEZ31	9.8	3070	10475	775	3.96	-	255	8.1	9.8	
	KSN98D64UFZ3	9.8	3070	10475	763	4.02	-	260	8.1	12.9	
	KSN98D66UFZ3	9.8	3070	10475	758	4.05	-	260	8.1	12.9	
	KSN108D42UEZ31	10.3	3230	11021	812	3.98	-	250	8.1	9.8	▲
	KSN108D34UEZ3	10.8	3410	11635	865	3.94	-	250	8.1	9.8	
	KSN108D54UFZ3	9.8	3380	11533	840	4.02	-	260	8.1	12.9	
	KSN120D33UFZ3	12.0	3730	12727	970	3.85	-	250	8.1	12.9	▲
	KSN120D53UFZ3	12.0	3730	12727	945	3.95	-	250	8.1	12.9	
	KSN140D33UFZ3	14.0	4350	14842	1130	3.85	-	250	8.1	12.9	
	KSN140D53UFZ3	14.0	4350	14842	1100	3.93	-	260	8.1	12.9	
	KSN140D43UFZ31	14.0	4350	14842	1108	3.93	-	260	8.1	12.9	▲

More models please send inquiry to WINLEAD team.

Remarks: “▲” under developing

PANASONIC CO₂ ROTARY CONVERTER COMPRESSOR

- Nature Refrigerant CO₂.
- Two-stage Compression Structure.
- Suitable for using in Small and medium display heat Pump.



20F DC inverter drive, operating frequency is 40~83rps.

Type	Series	MODEL	CODE	Output (HP)	Power Source	Starting Method	Displacement (cc/rev)
Vertical	Intermediate pressure	C-CH40M7A	804 352 30	0.4	1Φ-50/60HZ-100V	CSR+PTC	1.00
		C-C40M0C	804 452 30	0.5	1Φ-50/60HZ-100V	CSR+PTC	1.28
		C-C50M0B	804 551 30	0.7	1Φ-50/60HZ-100V	CSR+PTC	1.50
Horizontal	Intermediate pressure	C-CH40M7A	804 442 37	0.5	1Φ-60Hz-115/127V	PSC+PTC	1.28
		C-CH50M5B	804 542 35	0.7	1Φ-50Hz -220/230/240V	PSC+PTC	1.50
		C-CH75M5A	804 740 35	1.0	1Φ-50Hz-220/230/240V	PSC+PTC	2.40

Type	Series	Refrigerant Oil		Weight (Include Oil)(kg)	Output (HP)	Rating Condition		
		Category	Charge(ml)			voltage(V)	Frequency(Hz)	High Pressure(MPa)
Vertical	Intermediate pressure	PZ-68S	350	0.4	9.9	100	50/60	9
		PZ-68S	350	0.5	10.2	100	50/60	9
		PZ-68S	350	0.7	10.2	100	50/60	9
Horizontal	Intermediate pressure	PZ-68S	350	0.5	10.5	115/127	60	9
		PZ-68S	350	0.7	10.5	220/230/240	50	9
		PZ-68S	350	1.0	11.4	220/230/240	50	9

Type	Series	Rating Condition			Performance			Application
		Low Pressure	Suction Temp.(℃)	Temp. before Expansion Valve(℃)	Capacity(V)	Input(W)	Current(A)	
Vertical	Intermediate pressure	2.9	35	25	510/630	320/355	4.20/3.70	9
		2.9	35	25	690/845	395/445	5.00/4.60	9
		2.9	35	25	820/1000	480/520	6.10/5.30	9
Horizontal	Intermediate pressure	2.9	35	25	445/470	115/127	4.19/4.25	9
		2.9	35	25	430/445/465	220/230/240	2.12/2.17/2.28	9
		2.9	35	25	680/700/735	220/230/240	3.40/3.50/3.70	9

More models please send inquiry to WINLEAD team.

GMCC ROTARY COMPRESSOR

LIGHT COMERCIAL AIR - CONDITIONING COMPRESSOR

Refrigerant	Power	2000030000400005000060000700008000090000										BTU/h
		5000	7500	10000	12500	15000	17500	20000	22500	25000		W
R32	DC											
	380V 3PH 50Hz											
R410A	DC											
	380V 3PH 50HZ											
R22	380-415V 3PH 50HZ											

REFRIGERATIONCOMPRESSOR

Refrigerant	Power	500100015002000250030003500400045005000										W
LBP R404A	DC											
	220V 1PH 50Hz											
	220V 1PH 60Hz											
	380V 3PH 50Hz											
	200V 3PH 50/60Hz											
	100V 3PH 50/60Hz											
LBP R22	220V 1PH 50Hz											
	380V 3PH 50Hz											
	200V 3PH 50/60Hz											
	380V 3PH 60Hz											
	380/400/415V 3PH 50Hz											
	220V 1PH 60HZ											
MBP R404A	DC											
	100V 1PH 50/60Hz											
	200V 3PH 50/60Hz											
MBP R22	200V 3PH 50/60Hz											

HOUSEHOLD AIR - CONDITIONINGCOMPRESSOR

Refrigerant	Power	500010000150002000025000300003500040000										BTU/h
		2000	4000	6000	8000	10000	12000					W
R32	DC											
	380V 3PH 50Hz											
R410A	DC											
	220-240V 1PH 50Hz											
	208-230V 1PH 60Hz											
R22	115V 1PH 60HZ											
	220-240V 1PH 50Hz											
R22	208-230V 1PH 60Hz											

GMCC ROTARY COMPRESSOR

- The heating capacity has improved by 85% at the ambient temperature of-15℃ ,and the outlet air temperature up to 50℃ ;
- Achieving rapid cooling and heating, saving half the time;
- Variable vapor injection technology achi-eves high efficiency operation;
- Double displacment makes half-speed running achieving low noise at large capacity operation.



Series	Typical Model	Displ. (cm³/rev)	Cooling Capacity		Power (W)	COP (W/W)	Capacitor (μF/V)	Compressor Height(mm)	Discharge Pipe ID(mm)	Sucition Pipe ID(mm)	Remark
			(W)	(Btu/h)							

R410A Variable Volumes DC-INV Compressor

Test Condition:SEER 60

VM	AVM115D6UFZ	11.5	3350	11430	830	4.04	-	268	8.1	12.9	
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R32 I-CCC Compressor

Test Condition:SEER 60

YN	KYN103D52UFZ	9.71 +0.46	3130	10680	820	3.82	-	280	8.1	12.9	▲
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R410A I-CCC Compressor

Test Condition:SEER 60

N	EAQN108D22UFZA	10.8	3160	10782	855	370	-	262	8.1	12.9	
	EAPN150D30UFZ	14.9	4345	14825	1170	370	-	280	8.1	12.9	
M	EAPM310D85UMTR	24.0	7060	24089	1995	354	-	300	9.8	16.2	
	EAPM310D85UMTR	30.6	9080	30981	2550	356	-	325	9.8	16.2	
F	EAPF420D64UMUR	41.9	13600	46403	3560	382	-	365	9.8	16.2	
Q	EAPQ420D1UMUA	41.9	12900	44015	3565	362	-	405	9.8	16.2	
	EAPQ440D1UMUA	43.8	67080	46335	3770	360	-	435	12.9	16.2	
	EAPQ580D66UNTR	58.0	19660	67080	4915	400	-	430	12.9	16.2	
	EAPQ650D41UNT3	64.7	20500	69946	5350	383	-	430	12.9	22.2	▲
	EAPQ750D50UNT3	74.6	24000	81888	6234	385	-	455	16.2	22.2	▲

R410A I-CCC Compressor

Test Condition:SEER 60

M	EKPM240D57UMTR	24.0	7435	25368	2100	354	-	300	9.8	16.2	
	EKPM310D85UMTR	30.6	9635	32875	2650	364	-	325	9.8	16.2	
F	EKPF420D64UMUR	41.9	13970	47666	3695	378	-	365	9.8	16.2	
Q	EKPQ580D66UNTR	58.0	19370	66090	5020	386	-	430	12.9	16.2	

More models please send inquiry to WINLEAD team. Remarks: “▲” under developing

HIGLY HEAT PUMP COMPRESSOR

- High Reliability: Suitable for rigorous condilions that the working pattern of Heat Pump is high compression ratio in winter.The lifetime achieves more than 10 years,approximately four times as long as current compressors of Heat Pump.
- High outlet water temperature: Max condensing temperature could reach as high as 70°C, which ensure outlet water temperature could be above 65°C and cover heating demand of heat pump radiator.



R32 DC Inverter Single Cylinder

Model		WHP04200 AEKQ	WHP04800 AEKQ	WHP05600 AEKQ	WHP09100 AEPK	WHP09500 AEDP	WHP11500 AEDP	WHP13100 AEDP	WHP15600 AEDP	WHP23000 AEDP	WHP32900 AEKT	
Displacement(CC/rev)		11	12.2	14.1	22.6	25.4	30.7	35.6	42	55	75.2	
Power Type		DC INVERT										
Refrigerant		R410A										
Rated Current (A)		3.6	4.15	4.7	8.2	10	12	14.9	18	23	24	
Rated Input (W)		1045	1185	1380	2230	2585	3150	3850	4580	5750	8065	
Rated Working Condition	Heating Capacity (W)	4335	4800	5620	9100	10365	12750	14850	17470	23350	32825	
	COP	4.15	4.05	4.07	4.08	4.01	4.05	3.86	3.84	4.06	4.07	
Heating Working Condition	Heating Capacity (W)	3300	3600	4215	6825	7850	9500	11000	13000	17400	24500	
	COP	2.82	2.76	2.77	2.77	2.73	2.75	2.71	2.70	2.75	2.80	
Outlet Capacity (Liter/Hour)		101	107	125	200	230	285	333	390	520	700	
Floor Heating Area (m²)		34	36	42	68	78	96	112	130	173	232	
Capacitor(μF/V)		-										
Height of Compressor (A) (mm)		261.7	240.7	261.7	291.7	375.8				400.7	446.5	
Outside Dia. of Compressor (B)(mm)		Φ113.4				Φ140.1					Φ167.6	
Height of Suction (C)(mm)		294	288	294	357.7	435			438	436.5	439.8	
Outside Dia. of Accumulator (mm)		Φ70			Φ80	Φ89.1						
Angel between Base Foot and Suction (°)		85				90					45	
Radius of Base Foot(mm)		R75				R88.5					R105	
Distancebetween Suction and Shell Centre (mm)		100.5			106	125					142.2	
Condensing Temp.(°C)		≤70	≤65	≤70						≤65	≤70	
Outlet Water Temp.(°C)		≤65	≤60	≤65						≤60	≤65	

More models please send inquiry to WINLEAD team.

COPELAND SCROLL COMPRESSOR

- Jet enthalpy increasing models expand low-temperature applications and enhance capabilities.
- Adhering to radial and axial flexible design, ensuring the reliability of the valley wheel vortex compressor.
- Excellent reliability.
- Low noise and vibration levels.
- Lower oil circulation rate.
- ZB ZR compressor and copeland accorriess please contact WINLEAD team



R32

380 - 420V/50HZ/3 PHASE

Model	HP	Cooling Capacity		Power (W)	Electric current(A)	COP (W/W)	EER (Btu/wh)	Displacement (cc/Rev.)	Oil injection volume(l)	N.W. (mm)	locked-rotor current(A)	Noise sound power(dBA)
		(W)	(Btu/h)									
ZE49KME TFM	4.1	12.000	41.000	3.800	7.0	3.16	10.8	42.0	1.24	30.4	64.0	69.0
ZE52KUE TFM	4.4	12.690	43.600	3.930	7.1	3.25	11.1	44.5	1.24	29.9	58.0	69.0
ZE55KME TFM	4.6	13.420	45.800	4.240	7.7	3.16	10.8	47.1	1.24	29.9	58.0	69.0
ZE65KCE TFM	5.4	16.203	55,300	5.230	9.3	3.09	10.6	58.1	1.89	40.3	68.0	71.0
*YP292K1T TND	25.0	71.750	244.818	21,470	37.1	3.34	11.4	236.7	4.44	90.0	287.5	84.5
*YP485K1T TND	40.0	119.500	407.870	35,580	58.3	3.36	11.5	444.4	6.30	190.0	408.0	89.0
ZE157KCE TFM	5.7	16.600	56.500	4.930	8.7	3.36	11.5	51.4	1.89	40.3	68.0	78.0
ZEI65KCE TFM	6.3	18.500	63,200	5.690	9.8	3.25	11.1	58.1	1.89	40.3	68.0	71.0
	5.5	16.200	55,300	5.230	9.2	3.10	10.6	58.1	1.89	40.3	68.0	71.0
ZEI76KCE TFM	7.2	21.000	71.500	6.600	12.3	3.17	10.8	67.1	1.89	41.0	90.5	74.0
	6.3	18.600	63,400	6.100	11.5	3.05	10.4	67.1	1.89	41.0	90.5	74.0
ZEI88KCE TFM	7.4	21.600	73.600	6.900	12.5	3.13	10.7	77.2	1.89	39.5	99.0	72.0
ZEI110KCE TFM	10.6	31.100	106.000	9.440	17.6	3.29	11.2	96.3	3.25	61.3	133.0	74.0
	9.1	26.700	91.200	8.350	16.3	3.20	10.9	96.3	3.25	61.3	133.0	74.0
ZEI128KCE TFM	13.0	38.100	130.000	11.000	20.0	3.46	11.8	113.6	3.25	61.3	133.0	74.0
	10.8	31.700	108.000	9.650	18.1	3.28	11.2	113.6	3.25	61.3	133.0	74.0
ZEI143KCE TFM	72.1	35.500	121.000	11.000	19.5	3.22	11.0	127.1	3.25	61.3	127.0	75.0

380V/50HZ/3 PHASE

VEI57KSE TFP	4.1	12.000	41.000	3.800	7.0	3.16	10.8	42.0	1.24	30.4	64.0	69.0
VEI65KSE TFP	4.4	12.690	43.600	3.930	7.1	3.25	11.1	44.5	1.24	29.9	58.0	69.0
VEI76KSE TFP	4.6	13.420	45.800	4.240	7.7	3.16	10.8	47.1	1.24	29.9	58.0	69.0
	5.4	16.203	55,300	5.230	9.3	3.09	10.6	58.1	1.89	40.3	68.0	71.0
VEI88KSE TFP	25.0	71.750	244.818	21,470	37.1	3.34	11.4	236.7	4.44	90.0	287.5	84.5
VEI110KSE TFP	40.0	119.500	407.870	35,580	58.3	3.36	11.5	444.4	6.30	190.0	408.0	89.0
	5.7	16.600	56.500	4.930	8.7	3.36	11.5	51.4	1.89	40.3	68.0	78.0
VEI128KSE TFP	6.3	18.500	63,200	5.690	9.8	3.25	11.1	58.1	1.89	40.3	68.0	71.0
	5.5	16.200	55,300	5.230	9.2	3.10	10.6	58.1	1.89	40.3	68.0	71.0
VEI143KSE TFP	7.2	21.000	71.500	6.600	12.3	3.17	10.8	67.1	1.89	41.0	90.5	74.0
ZEI143KCE TFM	72.1	35.500	121.000	11.000	19.5	3.22	11.0	127.1	3.25	61.3	127.0	75.0

More models please send inquiry to WINLEAD team.

BSONYO SCROLL COMPRESSOR

- Relying on ultra precision machining and assembly to achieve lower operating noise.
- Direct power-off internal protector to reliably protect the motor.
- Using PPS tooth top sealing ring to seal the dynamic fixed vortex.
- Simple, stable and reliable institution.



R410A

50HZ 380 - 400V/60HZ440 - 460V

Phase	Output HP	Displacement (cm³/rev)	Compressor Model	50Hz				60Hz				LRA (A)	RLA (A)	MCC (A)
				Capacity		COP		Capacity		COP				
				kw	kBTU/h	W/W	BTu/Wh	kw	kBTU/h	W/W	BTu/Wh			
3	3	34	5CE034LA04	8.7	29.7	2.8	9.58	10.6	36.2	2.9	9.77	-	-	-
	3.5	40	C-SBP120H38A	10.0	34.1	2.86	9.8	12.2	41.7	2.94	10.0	66	9.6	13.4
			C-SBP120H38B	10.0	34.1	2.86	9.8	12.2	41.7	2.94	10.0	66	9.6	13.4
			C-SBN303H8D	9.8	33.5	2.68	9.2	12.2	41.7	2.87	9.8	48	7.9	11.1
			C-SBN303H8H	9.8	33.5	2.68	9.2	12.2	41.7	2.87	9.8	48	7.9	11.1
	3.7	42	C-SBP130H38A	10.9	37.2	2.91	9.9	13.3	45.4	3.02	10.3	66	9.4	13.2
			C-SBP130H38B	10.9	37.2	2.91	9.9	13.3	45.4	3.02	10.3	66	9.4	13.2
	4	46	C-SBP140H38A	11.7	39.9	2.93	10.0	14.3	48.8	3.01	10.3	66	10.2	14.2
			C-SBP140H38B	11.7	39.9	2.93	10.0	14.3	48.8	3.01	10.3	66	10.2	14.2
	4.6	52	C-SBP160H38C	13.2	45.0	3.07	10.5	16.0	54.6	3.08	10.5	66	11.9	16.7
			C-SBN353H8D	13.0	44.4	2.80	9.6	16.2	55.3	2.97	10.1	63	9.7	13.6
			C-SBN353H8H	13.0	44.4	2.80	9.6	16.2	55.3	2.97	10.1	63	9.7	13.6
			C-SBP160H38A	13.2	45.1	2.87	9.8	16.2	55.3	2.98	10.2	73	11.9	16.7
			C-SBP160H38B	13.2	45.1	2.87	9.8	16.2	55.3	2.98	10.2	73	11.9	16.7
			C-SBN373H8D	14.1	48.1	2.97	10.1	17.1	58.4	3.05	10.4	48	10.1	14.1
	5	56	C-SBN373H8H	14.1	48.1	2.97	10.1	17.1	58.4	3.05	10.4	63	10.1	14.1
			C-SBP170H38A	14.2	48.5	2.99	10.2	17.3	59.1	3.04	10.4	73	12.4	17.4
			C-SBP170H38B	14.2	48.5	2.99	10.2	17.3	59.1	3.04	10.4	73	12.4	17.4
			C-SBP185H38A	15.2	51.9	2.92	10.0	18.7	63.8	3.07	10.5	73	12.4	17.4
	6	67	C-SBN453H8D	16.4	56.0	2.85	9.7	20.3	69.3	3.01	10.3	66	11.9	16.7
			C-SBN453H8H	16.4	56.0	2.85	9.7	20.3	69.3	3.01	10.3	63	11.9	16.7
			C-SBP205H38A	16.8	57.4	3.00	10.2	20.6	70.3	3.10	10.6	73	12.9	18.0
			C-SBP205H38B	16.8	57.4	3.00	10.2	20.6	70.3	3.10	10.6	73	12.9	18.0
	6.8	76	C-SBP235H38A	19.9	67.9	3.04	10.4	24.2	82.6	3.12	10.6	87	13.6	19.0
			C-SBP235H38B	19.9	67.9	3.04	10.4	24.2	82.6	3.12	10.6	87	13.6	19.0

More models please send inquiry to WINLEAD team.

DONPER REFRIGERATOR COMPRESSOR

- Very low noise level.
- Low vibrations, thanks to an optimised mass balance.
- Low gas pulsation.



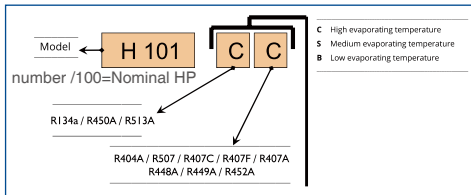
TECHNICAL DATA

Model	Displacement (cm³)	Cooling Type	Motor Type	Rotate Speed	ASHRAE(-23.3/54.4/32.2C)					CECOMAF(-25/55/32C)					Certification	Motor	Height (A)
					Cooling Capacity			COP		Cooling Capacity			COP				
					W	Kcal/h	Btu/h	W/W	EER	W	Kcal/h	Btu/h	W/W	EER			
R600a VD Series LBP																	
VDG040SY	4.0	ST	BLDC	1320	30	26	102	1.40	4.78	23	19	77	1.09	3.72	CCC	AI	110
				2010	47	40	160	1.50	5.12	35	30	121	1.17	3.98			
				3000	70	60	239	1.50	5.12	53	45	180	1.17	3.98			
				4200	98	84	334	1.40	4.78	74	63	251	1.09	3.72			
VDK060SY	6.0	ST	BLDC	1320	40	34	136	1.44	4.91	30	26	103	1.12	3.82	CCC	AI	110
				2010	63	54	215	1.50	5.12	47	41	162	1.17	3.98			
				3000	95	82	324	1.50	5.12	71	61	244	1.17	3.98			
				4200	130	112	444	1.45	4.95	98	84	334	1.13	3.85			
VDU040SY	4.0	ST	BLDC	1320	30	26	102	1.54	5.25	23	19	77	1.20	4.09	CCC	AI	116
				2010	47	40	160	1.60	5.46	35	30	121	1.25	4.25			
				3000	70	60	239	1.60	5.46	53	45	180	1.25	4.25			
				4200	98	84	334	1.55	5.29	74	63	251	1.21	4.12			
VDU060CY	6.0	ST	BLDC	1320	40	34	136	1.54	5.25	30	26	103	1.20	4.09	CCC/VDE	AI	112
				2010	63	54	215	1.60	5.46	47	41	162	1.25	4.25			
				3000	95	82	324	1.60	5.46	71	61	244	1.25	4.25			
				4200	130	112	444	1.55	5.29	98	84	334	1.21	4.12			
VDU070CY	7.0	ST	BLDC	1320	55	47	188	1.54	5.25	41	36	141	1.20	4.09	CCC/VDE	AI	112
				2010	85	73	290	1.64	5.60	64	55	218	1.28	4.35			
				3000	128	110	437	1.64	5.63	96	83	328	1.28	4.38			
				4200	175	150	597	1.56	5.32	132	113	449	1.21	4.14			
VDU090CY	9.0	ST	BLDC	1320	66	57	225	1.50	5.12	50	43	169	1.17	3.98	CCC/VDE	AI	112
				2010	105	90	358	1.60	5.46	79	68	269	1.25	4.25			
				3000	157	135	536	1.60	5.46	118	102	403	1.25	4.25			
				4200	204	175	696	1.56	5.32	153	132	523	1.21	4.14			

More models please send inquiry to WINLEAD team.

DORIN SEMI-HERMETIC COMPRESSOR

- Very low noise level.
- Low vibrations, thanks to an optimised mass balance.
- Low gas pulsation.



TECHNICAL DATA

Range	Model	Displacement		Max operating current V/ph/Hz/(A)													Max abs. power	
		50 Hz [m³/h]	60 Hz [m³/h]	220-240 /1/50	208-230 /1/60	115 /1/60	220-240 /3/50 265-290 /3/60	380-420 /3/50 440-480 /3/60	208-230 /3/60	360-400 /3/60	200 /3/ 50-60	380-420 /3/50 PWS 440-480 /3/60	220-240 /3/50	208-230 /3/60 PWS	360-400 /3/60 PWS	475-525 /3/50 570-630 /3/60	50 Hz [kW]	60 Hz [kW]
H4	H851CS	42,81	51,38	-	-	-	34,5	20,0	41,5	24,0	-	20,0	34,5	41,5	24,0	16,0	11,7	14,1
	H1201CC	42,81	51,38	-	-	-	48,5	28,0	58	33,5	-	28,0	48,5	58	33,5	22,5	16,8	20,2
	H1001CS	48,82	58,58	-	-	-	41,5	24,0	50	29,0	-	24,0	41,5	50	29,0	19,2	14,5	17,4
	H1501CC	48,82	58,58	-	-	-	59	34,0	71	41,0	-	34,0	59	71	41,0	27,0	19,5	23,4
	H1501CS	56,87	68,25	-	-	-	48,5	28,0	58	33,5	-	28,0	48,5	58	33,5	22,5	16,8	20,2
	H2001CC	56,87	68,25	-	-	-	66	38,0	79	45,5	-	38,0	66	79	45,5	30,5	22,7	27,2
	H1601CS	63,76	76,51	-	-	-	59	34,0	71	41,0	-	34,0	59	71	41,0	27,0	19,5	23,4
	H2201CC	63,76	76,51	-	-	-	78	45,0	93	54	-	45,0	78	93	54	36,0	26,6	31,9
H5	H2000CS	75,83	91,00	-	-	-	66	38,0	79	45,5	-	38,0	66	79	45,5	30,5	22,7	27,2
	H2500CC	75,83	91,00	-	-	-	83	48,0	100	58	-	48,0	83	100	58	38,5	28,5	34,2
	H2500CS	85,01	102,02	-	-	-	78	45,0	93	54	-	45,0	78	93	54	36,0	26,6	31,9
	H3000CC	85,01	102,02	-	-	-	97	56	116	67	-	56	97	116	67	45,0	33,4	40,1
	H2700CS	92,25	110,69	-	-	-	83	48,0	100	58	-	48,0	83	100	58	38,5	28,5	34,2
	H3200CC	92,25	110,69	-	-	-	104	60	125	72	-	60	104	125	72	48,0	35,2	42,3
	H2900CS	102,35	122,82	-	-	-	97	56	116	67	-	56	97	116	67	45,0	33,4	40,1
	H3400CC	102,35	122,82	-	-	-	104	60	125	72	-	60	104	125	72	48,0	35,2	42,3
H6	H3000CS	113,74	136,49	-	-	-	104	60	125	72	-	60	104	125	72	48,0	35,9	43,1
	H3500CC	113,74	136,49	-	-	-	114	66	137	79	-	66	114	137	79	53	39,3	47,1
	H3500CS	127,52	153,02	-	-	-	104	60	125	72	-	60	104	125	72	48,0	35,9	43,1
	H4000CC	127,52	153,02	-	-	-	130	75	156	90	-	75	130	156	90	60	45,5	54,6
	H4000CS	138,37	166,04	-	-	-	114	66	137	79	-	66	114	137	79	53	39,3	47,1
	H4500CC	138,37	166,04	-	-	-	145	84	175	101	-	84	145	175	101	67	51,1	61,4
	H4500CS	153,52	184,22	-	-	-	130	75	156	90	-	75	130	156	90	60	45,5	54,6
	H5000CC	153,52	184,22	-	-	-	161	93	193	112	-	93	161	193	112	74	56,6	67,9

More models please send inquiry to WINLEAD team.

XUEYING SEMI-HERMETIC COMPRESSOR



R22

TECHNICAL DATA

Model	Nominal motor power HP/KW	Displacement (50 Hz)m³/h	Number of Cylinder x Diameterx Stroke(mm)	Oil injection volume(L)	Electrical parameter		Crankcase Heater (220V) W	Weight (including freezing oil) Kg	Power supply (V/Φ/Hz)	Oil supply method
					Max operating current A	Starting current/ rotor locked current A				
BF5G2-18.4	5/3.7	18.4	2xΦ54x46	1.85	8.5	26/45	60	101	380~420/3/50 440~480/3/60	Splash lubrication
BF8G2-26.8	8/5.5	26.8	2xΦ64x48	3.5	13	41/74	120	140		
BF8Z2-36.0	8/5.5	36	2xΦ64x64	3.5	11.4	41/74	120	141		
BF10G2-36.0	10/7.5	36	2xΦ64x64	3.5	18.6	52/82	120	145		
BF15G3-54.0	12/8.8	54	3xΦ64x64	4.8	23.6	52/89	180	184		
BF12Z3-54.0	15/10.5	54	3xΦ64x64	4.8	28	72/102	180	192		
BR3Z4-18.1	3/2.2	18.05	4xΦ41x39.3	2.0	9.2	44.2	120	82	380~420/3/50 440~480/3/60	Centrifugal lubrication
BR5G4-18.1	5/3.7	18.05	4xΦ41x39.3	2.0	10.8	62.2	120	86		
BR4Z4-22.7	4/3.0	22.72	4xΦ46x39.3	2.0	10.7	53.5	120	84		
BR6G4-22.7	6/4.4	22.72	4xΦ46x39.3	2.0	13.2	62.2	120	86		
BR5Z4-26.8	5/3.7	26.84	4xΦ50x39.3	2.0	13.5	62.2	120	85.5		
BR7G4-26.8	7/5.1	26.84	4xΦ50x39.3	2.0	15.9	82.4	120	85.5		
BR6Z4-32.5	6/4.4	32.48	4xΦ55x39.3	2.0	15.9	82.4	120	90.5		
BR9G4-32.5	9/6.6	32.48	4xΦ55x39.3	2.0	20	82.4	120	90.5		
BR6Z4-34.7	6/4.4	34.73	4xΦ55x42	2.6	14	39/68	140	129	380~420YY/3/50 440~480YY13/60	Centrifugal lubrication
BR10G4-34.7	10/7.5	34.73	4xΦ55x42	2.6	21	59/99	140	139		
BR8Z4-41.3	8/5.5	41.33	4xΦ60x42	2.6	17	49/81	140	134		
BR12G4-41.3	12/8.8	41.33	4xΦ60x42	2.6	24	69/113	140	141		
BR10Z4-48.5	10/7.5	48.5	4xΦ65 x42	2.6	21	59/99	140	139		
BR15G4-48.5	15/10.5	48.5	4xΦ65 x42	2.6	31	81/132	140	142		
BR12Z4-56.3	12/8.8	56.25	4xΦ70x42	2.6	24	69/113	140	141		
BR20G4-56.3	20/15	56.25	4xΦ70x42	2.6	37	97/158	140	150		

More models please send inquiry to WINLEAD team.

XUEYING SEMI-HERMETIC COMPRESSOR
R404A、R507A

Model	Condensing temperature	Refrigerating capacityQ.(KW)															
		Evaporating temperature C															
		7.5	5	0	-5	-10	-15	-20	-25	-30	-35	-40	-45	-50	-55	-60	-70
BF5G2-18.4E	30	24.0	22.2	18.6	15.4	12.6	10.2	8.5	6.7	5.3	4.0	3.0					
	40	20.4	18.9	15.8	13.1	10.7	8.7	7.2	5.7	4.5	3.4	2.6					
	50			13.0	10.7	8.8	7.1	5.9	4.7	3.6	2.8	2.1					
BF8G2-26.8E	30	31.4	28.7	24.0	20.0	16.4	13.4	10.7	8.5	6.5	4.9	3.7					
	40	26.4	24.1	20.2	16.8	13.8	11.3	9.0	7.1	5.5	4.2	3.1					
	50	21.6	19.8	16.6	13.8	11.4	9.1	7.4	5.8	4.5	3.5	2.6					
BF8Z2-36.0E	30				30.6	25.1	20.3	16.3	14.0	9.9	7.5	5.4					
	40				26.0	21.3	17.3	13.8	11.9	8.4	6.4	4.6					
	50				21.0	17.2	14.0	11.2	9.7	6.8	5.2	3.7					
BF10G2-36.0E	30	44.8	44.2	35.1	29.0	23.9	19.4	15.6	12.3	9.5	7.2	5.3					
	40	38.1	35.6	29.8	24.6	20.3	16.5	13.2	10.5	8.1	6.1	4.5					
	50	30.1	28.8	24.1	19.9	16.4	13.4	10.7	8.5	6.6	4.9	3.6					
BF12Z3-54.0E	30				46.1	38.1	31.2	26.1	20.2	15.7	12.5	8.9					
	40				39.0	32.3	26.3	22.2	17.2	13.5	10.6	7.6					
	50				31.3	25.9	21.5	17.9	13.9	10.9	8.7	6.1					
BF15G3-54.0E	30	69.0	64.5	54.3	45.2	37.3	30.5	25.6	19.6	15.3	11.7	8.9					
	40	58.7	54.8	46.2	38.4	31.7	25.9	21.8	16.7	13.0	9.9	7.5					
	50	47.5	44.4	37.4	31.1	25.7	21.0	17.6	13.5	10.5	8.1	6.1					
BR3Z4-18.1E	30				13.7	11.3	9.2	7.4	5.9	4.6	3.5	2.5	1.7				
	40				11.5	9.5	7.7	6.2	4.8	3.7	2.7	1.9	1.3				
	50				9.4	7.7	6.2	4.9	3.8	2.9	2.1	1.4					
BR5G4-18.1E	30	21.5	19.7	16.5	13.8	11.4	9.3	7.5	5.9	4.6	3.5	2.5					
	40	18.2	16.7	14.0	11.6	9.5	7.7	6.2	4.9	3.7	2.7	1.9					
	50	14.9	13.7	11.4	9.5	7.7	6.2	4.9	3.8	2.9	2.0	1.4					
BR4Z4-22.7E	30				17.3	14.2	11.6	9.3	7.4	5.7	4.3	3.2	2.2				
	40				14.4	11.8	9.6	7.7	6.0	4.6	3.4	2.4	1.5				
	50				11.6	9.5	7.7	6.1	4.7	3.5	2.5	1.7					
BR6G4-22.7E	30	27.4	25.2	21.1	17.5	14.4	11.8	9.5	7.5	5.8	4.4	3.2					
	40	23.1	21.2	17.7	14.7	12.1	9.8	7.8	6.1	4.7	3.4	2.4					
	50	18.9	17.3	14.4	11.9	9.7	7.8	6.2	4.8	3.6	2.5	1.7					
BR5Z4-26.8E	30				21.1	17.4	14.2	11.4	9.1	7.0	5.3	3.9	2.7				
	40				17.6	14.5	11.8	9.4	7.4	5.7	4.2	3.0	1.9				
	50				14.3	11.7	9.4	7.5	5.8	4.4	3.2	2.1					
BR7G4-26.8E	30	32.5	29.8	25.0	20.7	17.1	13.9	11.2	8.8	6.8	5.1	3.7					
	40	27.5	25.2	21.0	17.4	14.3	11.6	9.2	7.2	5.5	4.0	2.7					
	50	22.5	20.6	17.2	14.2	11.6	9.3	7.3	5.6	4.2	3.0	1.9					
BR6Z4-32.5E	30				24.9	20.6	16.9	13.6	10.9	8.5	6.5	4.8	3.4				
	40				21.1	17.4	14.2	11.4	9.0	6.9	5.2	3.7	2.5				
	50				17.3	14.2	11.5	9.1	7.1	5.4	3.9	2.7					
BR9G4-32.5E	30	38.8	35.6	29.9	24.9	20.6	16.8	13.6	10.8	8.5	6.5	4.8					
	40	32.8	30.1	25.3	21.0	17.4	14.2	11.4	9.0	7.0	5.2	3.7					
	50	27	24.8	20.8	17.3	14.3	11.6	9.2	7.2	5.4	3.9	2.6					
BR6Z4-34.7E	30				27.0	22.3	18.1	14.6	11.5	8.9	6.7	4.9	3.3				
	40				22.7	18.6	15.1	12.0	9.4	7.2	5.3	3.7	2.3				
	50					14.9	12.0	9.5	7.3	5.5	3.9	2.6					
BR10G4-34.7E	30	42.7	39.1	32.8	27.2	22.4	18.2	14.6	11.4	8.8	6.5	4.5					
	40	36.1	33.0	27.6	22.8	18.6	15.0	11.9	9.2	6.9	5.0	3.3					
	50	29.5	27.0	22.4	18.4	15.0	12.0	9.4	7.1	5.2	3.6	2.3					
BR8Z4-41.3E	30				33.0	27.2	22.2	17.8	14.1	10.9	8.3	6.0	4.1				
	40				27.7	22.7	18.4	14.7	11.5	8.8	6.5	4.5	2.9				
	50				18.3	14.7	11.7	9.0	6.8	4.8	3.2						
BR12G4-41.3E	30	51.4	47.1	39.4	32.7	26.9	21.8	17.5	13.8	10.6	7.9	5.6					
	40	43.4	39.8	33.2	27.5	22.5	18.2	14.5	11.3	8.5	6.2	4.3					
	50	35.3	32.4	27.0	22.3	18.2	14.6	11.5	8.8	6.5	4.6	3.0					
BR10Z4-48.5E	30				38.3	31.5	25.7	20.7	16.3	12.6	9.5	6.9	4.6				
	40				32.2	26.5	21.4	17.1	13.4	10.2	7.5	5.2	3.3				
	50				21.4	17.2	13.6	10.5	7.8	5.6	3.7						
BR15G4-48.5E	30	61.5	56.3	47.1	39.0	32.0	26.0	20.8	16.3	12.4	9.2	6.5					
	40	52.2	47.8	39.9	33.0	27.0	21.8	17.3	13.4	10.1	7.3	5.0					
	50	42.6	39.0	32.4	26.7	21.7	17.4	13.6	10.4	7.7	5.3	3.4					

GODHOPE SCREW
COMPRESSOR



- Very low noise level.
- Low vibrations, thanks to an optimised mass balance.
- Low gas pulsation.

TECHNICAL DATA

Model	Condensing temperature	High/medium temperature operating conditions																	
		Refrigeration capacity									Refrigeration capacity								
		Refrigeration capacity																	
		12.5	10	7.5	5	0	-5	-10	-15	-20	12.5	10	7.5	5	0	-5	-10	-15	-20
GSRH70-192Y1	30		262.6	242.5	187.2	156.4	129.6	230	106.4	86.5		35.5	35.6	35.7	35.9	36	36	36.1	36.1
	40	259.5	239.1	220.5	169.2	140.6	115.8	204	94.3	75.8	45.2	45.1	45.05	45	45	45	45	45	45
	50	230.5	211.7	194.5	147.2	121	98.1	175	78.4	61.4	55	55.1	55.25	55.4	55.6	55.7	55.9	56	56.2
GSRH80-220Y1	30		295.6	250.4	210.7	175.9	145.6	119.3	214	96.5		43.3	42.8	42.3	41.4	40.6	40	39.4	38.9
	40	290.1	267.1	225.4	188.7	156.7	128.8	104.8	191.1	84.1	54	52.8	51.85	50.9	49.6	48.9	48.6	48.5	48.4
	50	258	236.9	198.5	165	135.8	110.5	88.7	163.8	70.1	61.5	61	60.65	60.3	59.9	59.8	59.7	59.7	59.7
GSRH125-359W1	30		467	430	396	333	278	230	188.5	152.7		65.6	64.8	64	62.7	61.5	60.6	59.7	59
	40	458	422	388	356	298	248	204	165.8	133.1	81.9	79.9	78.3	77	75.2	74.1	73.6	73.4	73.3
	50	408	374	343	314	261	215	175	140.6	111.2	93.2	92.4	91.8	91.4	90.8	90.5	90.5	90.5	90.4
GSRH140-410W1	30		526	485	446	376	315	261	214	174.1		81.3	80.3	79.1	76.5	73.8	71.1	68.6	66.6
	40	520	479	441	406	341	284	234	191.1	154	98	96.2	94.5	92.8	89.5	86.6	84.3	82.5	81.6
	50	465	428	393	360	301	249	203	163.8	129.6	112.7	111.4	110.2	108.9	106.4	104.2	102.3	100.9	100.2
GSRH160-470W1	30		604	556	511	430	359	297	243	197.1		91.7	90.3	89	86.4	84	81.7	79.7	77.8
	40	602	555	510	468	392	325	268	218	174.8	112.6	110.6	108.8	107	103.8	101.1	99	97.5	96.9
	50	544	499	458	419	348	287	233	186.8	147	132.2	131.5	130.6	129.4	126.8	124.1	121.9	120.7	121
GSRH140-410W1	30		687	633	582	489	408	338	277	224		103.3	101.8	100.2	97.3	94.6	92.1	89.8	87.6
	40	686	631	580	533	446	370	305	248	199	126.8	124.7	122.6	120.6	117	113.9	111.5	109.9	109.2
	50	619	568	521	477	396	326	265	213	167.4	149	148.2	147.1	145.8	142.9	139.9	137.4	136	136.3

REFRIGERATION EQUIPMENT

*A DEVICE THAT COMBINES A REFRIGERATION UNIT WITH FACILITIES
THAT USE COOLING CAPACITY*

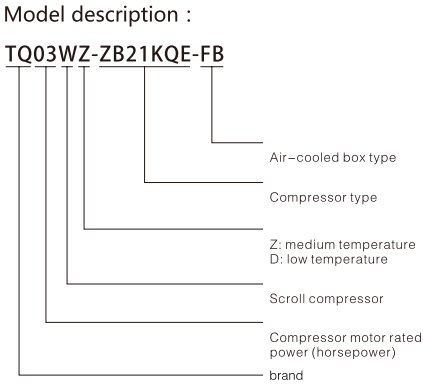


PRODUCT FEATURES

Air coolers are divided into refrigeration industrial air coolers and household air coolers. Industrial air coolers are generally used in cold storage and cold chain logistics refrigeration environments. Household air coolers, also known as water-cooled air conditioners, are evaporative cooling and ventilation units that integrate cooling, ventilation, dust prevention, and deodorization. In addition to bringing fresh air and reducing temperature to enterprise workshops, public places, and commercial entertainment venues, air coolers also have an important feature - energy conservation and environmental protection!



BOX TYPE
CONDENSING UNIT



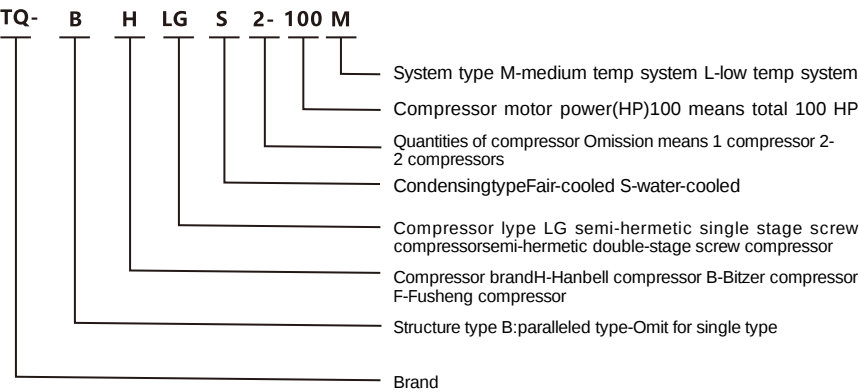
TECHNICAL DATA

Type	Specification Model						
	Rated Horsepower	HP	2	3	4	5	6
Power supply	Volt/Ph/Hz		380/3/50				
Performance	ET/AT	℃	5/50				
	Capacity	kw	5.43	7.90	9.43	13.2	15.95
	COP		3.13	3.09	3.38	3.2	3.37
Compressor	Model		ZB15KQ	ZB21KQ	ZB36KQ	ZB38KQ	ZB45KQ
	Compressar type		Fully enclosed vortex compressor				
	RLA	A	4.9	7.15	8.85	12.8	13.1
	LRA	A	26	40	46	65.5	74
	Oil Recharge	L	1.24	1.45	1.48	2.07	1.89
Fan Motor	Number of Fan	Qty	1	1	1	2	2
	Fan Speed	rpm	860				
	Alr Flow	m³/h	2400	2400	2400	2x2400	2x2400
	Fan motor current	A	0.68				
	Volt/Ph/Hz		380/3/50				
Connection Size	Suction	in	3/4				
	Liquid	in	3/8		1/2		
Dimension	Height	mm	830	830	830	1240	1240
	width	mm	950	950	950	950	950
	Deep	mm	355	355	355	355	355
Weigh		kg	74	77	81	105	108

Model	Condensation Temperature	Cooling Capacity				Evaporation Temperature		Input Power				Evaporation Temperature	
		-20	-15	-10	-5	0	5	-20	-15	-10	-5	0	5
ZB15KQ	27			3.99	4.84	5.77	6.82			102	1.03	1.05	1.09
	32			3.80	4.62	5.53	6.56			1.13	1.15	1.17	1.20
	38			3.55	4.34	5.22	6.21			1.29	1.30	1.33	1.35
	43			3.35	4.10	4.94	5.90			1.44	1.45	1.48	1.50
	48			3.14	3.85	4.65	5.57			161	1.62	164	166
ZB21KQ	27			5.81	7.04	8.40	9.91			1.50	1.52	1.56	1.60
	32			5.52	6.72	8.05	9.54			1.67	1.69	1.72	1.76
	38			5.17	6.32	7.59	9.04			1.91	1.92	1.96	1.99
	43			4.87	5.96	7.195	8.58			2.13	2.15	2.18	2.21
	48			4.57	5.60	6.76	8.10			2.37	2.39	2.43	2.45
ZB26KQ	27			6.86	8.28	9.90	11.80			1.60	1.59	1.62	1.65
	32			6.54	7.93	9.50	11.35			1.80	1.79	1.82	1.85
	38			6.16	7.48	8.98	10.75			2.08	2.07	2.09	2.12
	43			5.83	7.09	8.52	10.20			2.35	2.33	2.35	2.37
	48			5.51	6.69	8.04	9.66			2.66	2.64	2.65	2.66
ZB38KQ	27			9.69	11.75	14.00	16.55			2.42	2.44	2.51	2.58
	32			9.22	11.20	13.45	15.90			2.70	2.72	2.78	2.84
	38			8.63	10.55	12.65	15.10			3.07	3.10	3.15	3.20
	43			8.12	9.95	12.00	14.35			3.42	3.45	3.50	3.55
	48			7.62	9.34	11.30	13.50			3.82	3.85	3.90	3.95
ZB45KQ	27			11.70	14.10	16.85	20.00			2.77	2.82	2.86	2.92
	32			11.15	14.10	16.15	19.20			3.11	3.60	3.18	3.22
	38			10.50	12.75	15.25	18.15			3.56	4.03	3.62	3.65
	43			9.89	12.05	14.50	17.25			3.99	4.03	4.04	4.06
	48			9.25	11.35	13.65	16.35			4.47	4.50	4.52	5.53

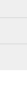
SEMI-HERMETIC CONDENSING UNIT

UNIT MODEL INSTRUCTION



R22 Semihermetic compressor & air-cooled condensing unit capacity

Watt(50Hz 380v)

Model	Ambient temperature		Capacity Qo(watt)				Power Consumption Pe(kw)					
			Evaporating temperature(°C)									
			10	7.5	5	0	-5	-10	-15	-20	-25	
TQB-FJZ-3HP	27	Qo Pe					6880 2.90	5540 2.66	4450 2.37	4080 1.95	2680 1.58	
	32	Qo Pe					6380 3.40	5073 2.64	4040 2.31	3070 1.93	2460 1.64	
	43	Qo Pe						4600 3.21	3700 2.53	2740 2.12	2180 1.75	
TQB-FJZ-4HP	27	Qo Pe					8280 3.49	6690 2.90	5420 2.62	4120 2.05	3220 1.63	
	32	Qo Pe					8000 3.68	6400 3.04	5130 2.75	3910 2.15	3120 1.71	
	43	Qo Pe						5540 3.23	4430 2.86	3260 2.31	2780 2.03	
TQB-FJZ-4HPH	27	Qo Pe	13980 4.09	12910 3.72	11950 3.47	9950 3.24	8560 3.23	6830 2.79	5472 2.54	4165 2.01	3390 1.61	
	32	Qo Pe	13350 4.24	12330 3.85	11395 3.62	9525 3.40	8188 3.26	6450 2.93	5187 2.64	3950 2.03	3190 1.63	
	43	Qo Pe			12910 4.30	8900 3.79	7280 3.54	5790 3.11	4570 2.80	3360 2.24	2780 1.99	
TQB-FJZ-5HP	27	Qo Pe					10508 4.46	8830 3.84	7240 3.49	4120 2.05	4540 2.25	
	32	Qo Pe					10220 4.70	8450 4.02	6860 3.67	3910 2.15	4270 2.37	
	43	Qo Pe						7530 4.39	6110 3.86	3260 2.31	3810 2.72	
TQB-FJZ-5HPH	27	Qo Pe	18410 5.17	17010 5.02	15710 4.73	13600 4.73	11930 4.09	9020 3.69	7320 3.39	6430 2.82	4630 2.33	
	32	Qo Pe	17370 5.35	16240 5.19	15010 4.95	13010 4.64	10460 4.33	8640 3.87	6930 3.53	5630 2.85	4360 2.25	
	43	Qo Pe		24930 6.91	14600 5.67	12350 5.19	9550 4.65	7870 4.22	6310 3.86	4930 3.28	3810 2.72	
TQB-FJZ-8HPH	27	Qo Pe			23020 6.63	19260 5.80	15780 5.30	12670 5.00	10080 4.67	8090 3.84	6350 3.59	
	32	Qo Pe			22000 6.93	18420 6.07	15100 5.56	12130 5.25	8560 4.87	7670 3.88	5980 3.62	
	43	Qo Pe			19670 7.38	16400 6.84	13480 6.39	11040 5.93	8710 5.33	6610 4.66	5980 4.02	
TQB-FJZ-10HP	27	Qo Pe					21360 8.69	17870 7.70	14580 6.85	11740 5.76	9160 4.94	
	32	Qo Pe					20650 9.16	17090 8.07	13820 7.19	11130 6.05	8610 5.19	
	43	Qo Pe						15380 8.72	12550 7.87	10050 7.02	8610 5.60	
TQB-FJZ-10HPH	27	Qo Pe	36020 9.92	33270 9.33	30730 9.02	26600 8.54	22070 8.06	18250 7.40	14740 6.64	11860 5.64	9340 4.89	
	32	Qo Pe	34380 10.26	31770 9.66	29360 9.43	25440 8.94	21120 8.45	17480 7.77	13970 6.92	11250 5.70	8790 4.94	
	43	Qo Pe			28260 10.67	23550 9.86	19360 9.21	16060 8.38	12950 7.72	10370 6.81	7680 4.49	

SCREW - TYPE CONDENSING UNIT

- Including high-temp,medium-temp,low-temp series, suitablefor evaporative temp ranging from 10°C~~40°C.



R22 Medium temperature single Screw unit refrigeration capacity

Watt(50Hz 380v)

Model	Condensing temperature	↓	Capacity Qo(watt)			Power.Consumption Pe(kw)			
			Evaporating temperature(°C)						
			0	-10	-20	-30	-35	-40	-45
TQ-HLGS -40M	40	Qo	106	71.6	57	36.1			
		Pe	30.2	27.7	28.3	26.4			
TQ-HLGF -40M	45	Qo	98.7	66.2	54.7	34.5			
		Pe	32.9	30.2	31.4	28.7			
TQ-HLGS -50M	40	Qo	139.2	94.1	74.9	38.1			
		Pe	37.8	34.7	35.5	29.4			
TQ-HLGF -50M	45	Qo	129.7	87	71.9	45.3			
		Pe	41.2	37.8	39.4	36.8			
TQ-HLGS -60M	40	Qo	151.6	102.4	81.5	51.7			
		Pe	41.5	38	38.9	36.4			
TQ-HLGF -60M	45	Qo	141.2	94.7	78.3	49.3			
		Pe	45.2	41.5	43.2	40.3			
TQ-HLGS -70M	40	Qo	184.8	124.9	99.4	63			
		Pe	50.5	46.3	47.3	44.3			
TQ-HLGF -70M	45	Qo	172.1	115.4	95.4	60.1			
		Pe	55.1	50.5	52.5	49.1			
TQ-HLGS -80M	40	Qo	202.8	137.1	109.1	69.2			
		Pe	55	50.4	51.6	48.2			
TQ-HLGF -80M	45	Qo	188.9	126.7	104.7	66			
		Pe	60	55	57.2	53.5			
TQ-HLGS -90M	40	Qo	239.2	161.7	128.7	81.7			
		Pe	61.9	56.8	58.1	54.3			
TQ-HLGF -90M	45	Qo	222.8	149.6	123.6	78.1			
		Pe	67.5	62	64.5	60.2			
TQ-HLGS -100M	40	Qo	252.7	170.9	136	86.4			
		Pe	65.1	59.7	61.1	57.1			
TQ-HLGF -100M	45	Qo	235.4	158.1	130.6	82.5			
		Pe	71	65.2	67.8	63.3			
TQ-HLGS -105M	40	Qo	276.5	186.9	148.8	94.5			
		Pe	71.7	65.8	67.2	62.9			
TQ-HLGF -105M	45	Qo	257.6	172.9	142.9	90.2			
		Pe	76.2	71.8	74.6	69.7			

R22 Medium temperature single Screw unit refrigeration capacity Watt(50Hz 380v)

Model	Condensing temperature	↓	Capacity Qo(watt)			Power.Consumption Pe(kw)			
			Evaporating temperature(°C)						
			0	-10	-20	-30	-35	-40	-45
TQ-HLGS -110M	40	Qo	299.3	202.3	161.1	102.2			
		Pe	78.2	71.8	73.4	68.6			
TQ-HLGD -110M	45	Qo	278.8	187.1	154.6	97.6			
		Pe	85.3	78.3	81.4	76			
TQ-HLGS -120M	40	Qo	329.4	222.7	177.3	112.5			
		Pe	87	79.8	81.6	76.3			
TQ-HLGF -120M	45	Qo	306.9	205.9	170.2	107.4			
		Pe	94.9	87	90.5	84.5			

R22 Low temperature single Screw unit refrigeration capacity Watt(50Hz 380v)

Model	Condensing temperature		Capacity Qo(watt)			Power.Consumption Pe(kw)			
			Evaporating temperature(°C)						
			0	-10	-20	-30	-35	-40	-45
TQ-BLGS -50L	40	Qo				52.5	42.3	33.3	25.5
		Pe				34	32.8	31.5	30.2
TO-BLGF -50L	45	Qo				50.6	40.5	31.7	24
		Pe				37.6	36.3	34.9	33.4
TQ-BLGS -60L	40	Qo				63.7	50.7	39.5	29.8
		Pe				41.7	40.3	39	37.8
TO-BLGF -60L	45	Qo				61	48.4	37.4	27.9
		Pe				46.6	45	43.5	42
TQ-BLGS -70L	40	Qo				72.3	58.1	45.8	35.1
		Pe				46.2	44.7	43.1	41.5
TO-BLGF -70L	45	Qo				69.6	55.7	43.5	33
		Pe				51	49.3	47.5	45.6
TQ-BLGS -75L	40	Qo				78.3	63.1	49.8	38.3
		Pe				49.4	47.6	45.9	44.1
TO-BLGF -75L	45	Qo				75.3	60.4	47.4	36.1
		Pe				54.5	52.7	50.8	48.8
TQ-BLGS -125L	40	Qo				132.6	107.2	85.1	66.1
		Pe				78.3	74.6	70.9	66.9
TQ-BLGF -125L	45	Qo				127.5	102.4	80.6	61.7
		Pe				86.5	82.3	77.8	72.9

R404A Medium temperature single Screw unit refrigeration capacity Watt(50Hz 380v)

Model	Condensing temperature		Capacity Qo(watt)				Power.Consumption Pe(kw)			
			Evaporating temperature(°C)							
			0	-10	-20	-30	-35	-40	-45	
TQ-HLGS -40M	40	Qo	101.7	68.2	62.3	40.4				
		Pe	33.9	31.6	34.7	31.2				
TQ-HLGF -40M	45	Qo	91.2	59.4	57.8	36				
		Pe	38.2	35.3	39.6	33.7				
TQ-HLGS -50M	40	Qo	132.3	88.7	81	52.6				
		Pe	43.1	40.1	44.2	40				
TQ-HLGF -50M	45	Qo	118.6	77.3	75.1	46.8				
		Pe	48.5	44.8	50.4	43.2				
TQ-HLGS -60M	40	Qo	146.3	98.1	89.5	58.2				
		Pe	48.2	45	49.5	44.5				
TQ-HLGF -60M	45	Qo	131.1	85.4	83.1	51.7				
		Pe	54.3	50.2	56.4	48.2				
TQ-HLGS -70M	40	Qo	176.3	118.2	107.9	70.1				
		Pe	56.4	52.5	57.8	53.3				
TQ-HLGF -70M	45	Qo	158	103	100.1	63.9				
		Pe	63.5	58.7	65.9	57				
TQ-HLGS -80M	40	Qo	197.5	132.5	120.9	78.5				
		Pe	63.4	59.1	65	60				
TQ-HLGF -80M	45	Qo	177.1	115.4	112.2	71.6				
		Pe	71.4	66	74.1	64				
TQ-HLGS -90M	40	Qo	227.8	152.8	139.4	90.6				
		Pe	72.2	67.3	74	68.3				
TQ-HLGF -90M	45	Qo	204.2	135.2	129.4	82.6				
		Pe	81.3	75.1	84.4	73.2				
TQ-HLGS -100M	40	Qo	240.8	161.5	147.4	95.7				
		Pe	75.9	70.7	77.8	71.8				
TQ-HLGF -100M	45	Qo	215.9	142.9	136.8	87.3				
		Pe	85.5	79	88.8	77.2				
TQ-HLGS -105M	40	Qo	263.6	176.7	161.3	104.8				
		Pe	83.4	77.8	85.6	78.9				
TQ-HLGF -105M	45	Qo	236.3	156.4	149.7	95.6				
		Pe	94	86.8	97.6	84.7				
TQ-HLGS -110M	40	Qo	290.4	194.7	177.7	115.4				
		Pe	90.8	84.6	93.1	85.9				
TQ-HLGF -110M	45	Qo	260.3	172.3	164.9	105.3				
		Pe	102.3	94.5	106.2	92.6				
TQ-HLGS -120M	40	Qo	313.4	186.9	148.8	94.5				
		Pe	99.5	65.8	67.2	62.9				
TQ-HLGF -120M	45	Qo	280.9	186	178	113.6				
		Pe	112.1	103.5	116.3	100.8				



R22 Low temperature single Screw unit refrigeration capacity Watt(50Hz 380v)

Model	Condensing temperature		Capacity Qo(watt)			Power.Consumption Pe(kw)			
			Evaporating temperature(°C)						
			0	-10	-20	-30	-35	-40	-45
TQ-BLGS -50L	40	Qo				57.2	46.7	37.5	29.5
		Pe				40.8	39	37.2	35.4
TO-BLGF -50L	45	Qo				54.5	44.5	35.6	27.9
		Pe				45.3	43.4	41.5	39.8
TQ-BLGS -60L	40	Qo				69	55.7	44.2	34.2
		Pe				50	48.9	47.6	46.1
TO-BLGF -60L	45	Qo				65.2	52.7	41.7	32.2
		Pe				55.9	54.7	53.4	51.9
TQ-BLGS -70L	40	Qo				78.7	63.9	51	39.9
		Pe				53.4	51.5	49.6	47.7
TO-BLGF -70L	45	Qo				74.8	60.7	48.4	37.8
		Pe				59.5	57.6	55.6	53.4
TQ-BLGS -75L	40	Qo				82.9	67.7	54.5	43
		Pe				58.1	55.5	53	50.7
TO-BLGF -75L	45	Qo				78.5	64.1	51.5	40.5
		Pe				64.2	61.5	59.1	56.8
TQ-BLGS -125L	40	Qo				137.7	112.3	90.3	71.2
		Pe				91.5	87.5	83.9	80.7
TQ-BLGF -125L	45	Qo				129.2	104.9	83.7	65.2
		Pe				100.5	96.2	92.2	88.2

BARREL PUMP PARALLEL SCREW UNIT



TECHNICAL DATA

Model	Evaporating SST:-10℃ ; CondensingSDT:36℃		Model	Evaporating SST:-10℃ ; CondensingSDT:36℃	
	Cooling capacity(Kw)	Displacement(m³/h)		Cooling capacity(Kw)	Displacement(m³/h)
TQ-C-L-G-FVRH40-2-Z	148.6	57.2	TQ-C-L-G-FVRH90-2-Z	366.8	127.4
TQ-C-L-G-FVRH40-3-Z	222.9	85.8	TQ-C-L-G-FVRH90-3-Z	550.2	191.1
TQ-C-L-G-FVRH40-4-Z	297.2	114.4	TQ-C-L-G-FVRH90-4-Z	733.6	254.8
TQ-C-L-G-FVRH40-5-Z	371.5	143	TQ-C-L-G-FVRH90-5-Z	917	318.5
TQ-C-L-G-FVRH50-2-Z	175.2	65.2	TQ-C-L-G-FVRH100-2-Z	400.4	145
TQ-C-L-G-FVRH50-3-Z	262.8	97.8	TQ-C-L-G-FVRH100-3-Z	600.6	217.5
TQ-C-L-G-FVRH50-4-Z	350.4	130.4	TQ-C-L-G-FVRH100-4-Z	800.8	290
TQ-C-L-G-FVRH50-5-Z	438	163	TQ-C-L-G-FVRH100-5-Z	1001	362.5
TQ-C-L-G-FVRH60-2-Z	198	74.6	TQ-C-L-G-FVRH125-2-Z	472.6	170
TQ-C-L-G-FVRH60-3-Z	297	111.9	TQ-C-L-G-FVRH125-3-Z	708.9	255
TQ-C-L-G-FVRH60-4-Z	396	149.2	TQ-C-L-G-FVRH125-4-Z	945.2	340
TQ-C-L-G-FVRH60-5-Z	495	186.5	TQ-C-L-G-FVRH125-5-Z	1181.5	425
TQ-C-L-G-FVRH70-2-Z	268	96.8	TQ-C-L-G-FVRH160-2-Z	595.8	211.2
TQ-C-L-G-FVRH70-3-Z	402	145.2	TQ-C-L-G-FVRH160-3-Z	893.7	316.8
TQ-C-L-G-FVRH70-4-Z	536	193.6	TQ-C-L-G-FVRH160-4-Z	1191.6	422.4
TQ-C-L-G-FVRH70-5-Z	670	242	TQ-C-L-G-FVRH160-5-Z	1489.5	528
TQ-C-L-G-FVRH80-2-Z	306.8	108.6	TQ-C-L-G-FVRH180-2-Z	685	242.8
TQ-C-L-G-FVRH80-3-Z	460.2	162.9	TQ-C-L-G-FVRH180-3-Z	1027.5	364.2
TQ-C-L-G-FVRH80-4-Z	613.6	217.2	TQ-C-L-G-FVRH180-4-Z	1370	485.6
TQ-C-L-G-FVRH80-5-Z	767	271.5	TQ-C-L-G-FVRH180-5-Z	1712.5	607

AIR HEAT EXCHANGERS

- The TCH、TCM、TCL series commercial heat exchangers are designed with European standards. Using 9.52 internal threaded copper tube for row arrangement, sine-wave pattern aluminum alloy fins, suitable for most Freon refrigerants on the market.



TECHNICAL DATA Commercial air heat exchangers (high temp.)

Type	Cooling capacity (KW)		Circuit volume (dm³)	Fan data				Electric Defrost		Take-over dimensions (mm)		External dimensions Length x width x height	Weight (KG)
	SC1	SC2		(Fan Mat.) n x Φmm	Fan Power	Air Flow	Range	Defrosting power of firts	Defrosting power of pan	Inlet/return pipe	Drain pipe		
TCH1.4/301E	2.0	1.4	0.9	1xΦ300	1x85	1400	7	0.5x2	0.25x1	Φ12/Φ22	G1	870x450x430	19
TCH2.6/301E	3.8	2.6	1.7	1xΦ300	1x85	1400	6	0.5x3	0.25x1	Φ12/Φ22	G1	870x450x430	21
TCH3.0/301E	4.4	3.0	2.2	1xΦ300	1x85	1340	6	0.5x3	0.25x1	Φ12/Φ22	G1	870x450x430	22
TCH3.7/302E	5.3	3.7	2.2	2xΦ300	2x85	2800	7	0.9x2	0.45x1	Φ12/Φ22	G1	1270x450x430	29
TCH4.2/401E	6.1	4.2	2.4	1xΦ400	1x205	2750	10	0.5x3	0.25x1	Φ12/Φ22	G1	870x510x570	24
TCH5.0/401E	7.2	5.0	3.0	1xΦ400	1x205	2610	9	0.5x4	0.25x1	Φ12/Φ22	G1	870x450x430	26
TCH7.1/402E	10.1	7.1	3.6	2xΦ400	2x205	5900	13	0.9x3	0.45x1	Φ12/Φ22	G1	1420x510x570	38
TCH8.4/402E	12.2	8.4	4.9	2xΦ400	2x205	5500	12	0.9x3	0.45x1	Φ16/Φ28	G1	1420x510x570	42
TCH9.9/402E	14.4	9.9	6.1	2xΦ400	2x205	5220	12	0.9x4	0.45x1	Φ16/Φ28	G1	1420x510x570	46
TCH10.9/402E	16.0	10.9	7.3	2xΦ400	2x205	5100	11	0.9x5	0.45x1	Φ16/Φ28	G1	1420x510x570	50
TCH12.1/403E	17.7	12.1	7.3	3xΦ400	3x205	8250	15	1.4x3	0.7x1	Φ16/Φ28	G1	1970x510x570	54
TCH14.5/403E	21.1	14.5	9.1	3xΦ400	3x205	7830	15	1.4x4	0.7x1	Φ22/Φ28	G1	1970x510x570	60
TCH16.2/403E	23.7	16.2	10.9	3xΦ400	3x205	7650	14	1.4x5	0.7x1	Φ22/Φ35	G1	1970x510x570	66
TCH18.6/404E	27.3	18.6	12.1	4xΦ400	4x205	10000	17	1.8x4	0.9x1	Φ22/Φ35	G1	2520x510x570	80
TCH22.1/404E	32.5	22.1	14.6	4xΦ400	4x205	9540	17	1.8x5	0.9x1	Φ22/Φ35	G1	2520x510x570	88
TCH25.9/405E	33.8	25.9	14.6	5xΦ400	5x205	14000	19	1.8x5	0.9x1	Φ22/Φ42	G1	2870x510x570	100
TCH19.5/502E	28.4	19.5	11.7	2xΦ500	2x750	12960	26	2.4x5	1.2x1	Φ22/Φ35	G1	2000x640x740	88
TCH22.3/502E	32.3	22.3	14.0	2xΦ500	2x750	11880	26	1.4x6	0.7x1	Φ28/Φ35	G1	2000x640x740	96

TECHNICAL DATA Commercial air heat exchangers (med temp.)

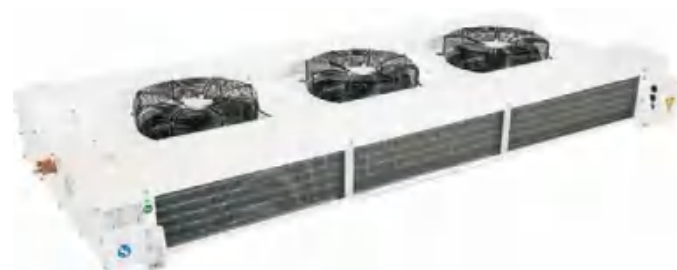
Type	Cooling capacity (KW)		Circuit volume (dm³)	Fan data				Electric Defrost		Take-over dimensions (mm)		External dimensions Length x width x height	Weight (KG)
	SC1	SC2		(Fan Mat.) n x Φmm	Fan Power	Air Flow	Range	Defrosting power of firts	Defrosting power of pan	Inlet/return pipe	Drain pipe		
TCM0.9/301E	1.2	0.9	0.9	1xΦ300	1x85	1400	7	0.5x2	0.25x1	Φ12/Φ22	G1	870x450x430	19
TCM1.6/301E	2.2	1.6	1.7	1xΦ300	1x85	1400	6	0.5x3	0.25x1	Φ12/Φ22	G1	870x450x430	21
TCM1.8/301E	2.6	1.8	2.2	1xΦ300	1x85	1340	6	0.5x3	0.25x1	Φ12/Φ22	G1	870x450x430	22
TCM2.1/302E	3.1	2.1	2.2	2xΦ300	2x85	2800	7	0.9x2	0.45x1	Φ12/Φ22	G1	1270x450x430	29
TCH2.5/401E	3.6	2.5	2.4	1xΦ400	1x205	2750	10	0.5x3	0.25x1	Φ12/Φ22	G1	870x510x570	24
TCM3.0/401E	4.3	3.0	3.0	1xΦ400	1x205	2610	10	0.5x4	0.25x1	Φ12/Φ22	G1	870x450x430	26
TCM4.2/402E	5.8	4.2	3.6	2xΦ400	2x205	5900	13	0.9x3	0.45x1	Φ12/Φ22	G1	1420x510x570	38
TCM5.0/402E	7.2	5.0	4.9	2xΦ400	2x205	5500	13	0.9x3	0.45x1	Φ16/Φ28	G1	1420x510x570	42
TCM6.0/402E	8.6	6.0	6.1	2xΦ400	2x205	5220	12	0.9x4	0.45x1	Φ16/Φ28	G1	1420x510x570	46
TCM6.6/402E	9.6	6.6	7.3	2xΦ400	2x205	5100	12	0.9x5	0.45x1	Φ16/Φ28	G1	1420x510x570	50
TCM7.1/403E	10.5	7.1	7.3	3xΦ400	3x205	8250	15	1.4x3	0.7x1	Φ16/Φ28	G1	1970x510x570	54
TCM8.7/403E	12.7	8.7	9.1	3xΦ400	3x205	7830	15	1.4x4	0.7x1	Φ22/Φ28	G1	1970x510x570	60
TCM9.7/403E	14.4	9.7	10.9	3xΦ400	3x205	7650	14	1.4x5	0.7x1	Φ22/Φ35	G1	1970x510x570	66
TCM11.9/404E	17.1	11.9	12.1	4xΦ400	4x205	10440	17	1.8x4	0.9x1	Φ22/Φ35	G1	2520x510x570	80
TCM13.5/404E	19.6	13.5	14.6	4xΦ400	4x205	10200	17	1.8x5	0.9x1	Φ22/Φ35	G1	2520x510x570	88
TCM15.7/405E	22.8	15.7	14.6	5xΦ400	5x205	14500	19	1.8x5	0.9x1	Φ22/Φ42	G1	2870x510x570	100
TCM11.1/502E	17.1	11.7	11.7	2xΦ500	2x750	12960	26	1.4x6	0.7x1	Φ22/Φ35	G1	2000x640x740	88
TCM13.3/502E	19.5	13.3	14.0	2xΦ500	2x750	12260	26	1.4x6	0.7x1	Φ28/Φ35	G1	2000x640x740	96

TECHNICAL DATA Commercial air heat exchangers (low temp.)

Type	Cooling capacity (KW)		Circuit volume (dm³)	Fan data				Electric Defrost		Take-over dimensions (mm)		External dimensions Length x width x height	Weight (KG)
	SC1	SC2		(Fan Mat.) n x Φmm	Fan Power	Air Flow	Range	Defrosting power of firts	Defrosting power of pan	Inlet/return pipe	Drain pipe		
TCL1.1/301E	1.4	1.1	1.7	1xΦ300	1x85	1400	6	0.5x2	0.25x1	Φ12/Φ22	G1	870x450x430	21
TCL1.3/301E	1.7	1.3	2.2	1xΦ300	1x85	1400	6	0.5x3	0.25x1	Φ12/Φ22	G1	870x450x430	22
TCL1.5/302E	1.9	1.5	2.2	2xΦ300	2x85	1340	7	0.9x2	0.45x1	Φ12/Φ22	G1	1270x450x430	29
TCL1.8/401E	2.3	1.8	2.4	1xΦ400	1x205	2800	10	0.5x3	0.25x1	Φ12/Φ22	G1	870x510x570	24
TCL2.2/401E	2.8	2.2	3.0	1xΦ400	1x205	2750	10	0.5x4	0.25x1	Φ12/Φ22	G1	870x510x570	26
TCL3.0/402E	3.8	3.0	3.6	2xΦ400	2x205	2610	13	0.9x3	0.45x1	Φ12/Φ22	G1	1420x510x570	38
TCL3.6/402E	4.6	3.6	4.9	2xΦ400	2x205	5900	13	0.9x3	0.45x1	Φ16/Φ28	G1	1420x510x570	42
TCL4.4/402E	5.5	4.4	6.1	2xΦ400	2x205	5500	12	0.9x4	0.45x1	Φ16/Φ28	G1	1420x510x570	46
TCL4.9/402E	6.2	4.9	7.3	2xΦ400	2x205	5220	11	0.9x5	0.45x1	Φ16/Φ28	G1	1420x510x570	50
TCL5.2/403E	6.6	5.2	7.3	3xΦ400	3x205	5100	15	1.4x3	0.7x1	Φ16/Φ28	G1	1970x510x570	54
TCL6.4/403E	8.0	6.4	9.1	3xΦ400	3x205	8250	15	1.4x4	0.7x1	Φ22/Φ28	G1	1970x510x570	60
TCL7.2/403E	9.2	7.2	10.9	3xΦ400	3x205	7830	14	1.4x5	0.7x1	Φ22/Φ35	G1	1970x510x570	66
TCL8.7/404E	10.9	8.7	12.1	4xΦ400	4x205	7650	18	1.8x5	0.9x1	Φ22/Φ35	G1	2520x510x570	80
TCL10.1/404E	12.8	10.1	14.6	4xΦ400	4x205	10440	17	1.4x5	0.7x1	Φ22/Φ35	G1	2520x510x570	88
TCL11.4/405E	13.9	11.4	14.6	5xΦ400	5x205	10200	19	1.8x5	0.9x1	Φ22/Φ42	G1	2870x510x570	100
TCL8.4/502E	10.8	8.4	11.7	2xΦ500	2x750	14500	26	1.4x6	0.7x1	Φ22/Φ35	G1	2000x640x740	88
TCL9.8/502E	12.5	9.8	14.0	2xΦ500	2x750	12960	26	1.4x6	0.7x1	Φ28/Φ35	G1	2000x640x740	96

T S- 350 B/ 444

- Number of poles in motor
- Fin spacing
- Quantity of fans
- (A:4排,B:6排) Row number of copper tubes
(A:4rows,B:6rows)
- Diameter of fans
- Bilateral air-cooling fan
- Brand



Model Specifications	Heat-exchange Area (At=8K)	Refrigerating capacity temperature of storage(0°C)	Air volume	Noise	Range	Rated parameters of motor (Quadropole)		Dimensions		Couping		Weight	Tube Vvolume	Quantity of Fans
								L	E	Inlet	Outlet			
	m²	KW	m³/h	db(A)	m	W	A	mm	mm	mm	mm	Kg	L	
TS-350A/144	13.5	2.86	2290	64	2x6	140	0.38/380V	905	660	12	19	31	2.3	1
TS-350B/144	20.2	3.76	2290	64	2x5	140	0.38/380V	905	660	16	19	35	3.4	1
TS-350A/244	26.3	5.74	4580	67	2x6	140	0.38/380V	1505	1260	16	28	56	4.3	2
TS-350B/244	39.5	7.58	4580	67	2x5	140	0.38/380V	1505	1260	16	28	67	6.4	2
TS-350A/344	39.2	8.64	6870	69	2x6	140	0.38/380V	2105	1860	16	28	81	6.2	3
TS-350B/344	58.7	11.40	6870	69	2x5	140	0.38/380V	2105	1860	16	28	91	9.3	3
TS-350A/444	52.0	11.49	9160	70	2x6	140	0.38/380V	2705	2460	16	28	106	8.2	4
TS-350B/444	78.0	15.32	9160	70	2x5	140	0.38/380V	2705	2460	16	28	130	12.3	4

Model	Refrigerating capacity	Nominal area	Coil type	Inlet/outlet tube of refrigerant	Parameters of fan						Weight
	t=10°C Temperature of Storage 0°C				Air volume	Quantity	Diameter of fan	Voltage	Power	Range	
	W				m³/h	N	mm	V	W	m	

TSL-12.6/60	12600	60	9.5	Φ16/Φ25	2×3215	2	2×400	380/220	2×216	4	94
TSL-16.8/80	16800	80	12.8	Φ19/Φ32	2×3215	3	3×400	380/220	3×216	4	129
TSL-21/105	21000	105	15.4	Φ19/Φ32	3×3215	3	3×400	380/220	3×216	4	137
TSL-25.2/12	25200	125	18.7	Φ19/Φ35	4×3215	4	4×400	380/220	4×216	4	140
TSL-29.4/140	29400	140	21.1	Φ19/Φ35	4×3215	4	4×400	380/220	4×216	4	143
TSL-36.6/160	36600	160	24.1	Φ19/Φ35	3×4280	3	3×450	380/220	3×290	4	155
TSL-37.8/185	37800	185	27.3	Φ25/Φ42	4×4280	4	4×450	380/220	4×290	4	192
TSL-42/200	42000	200	30.3	Φ25/Φ42	5×4280	5	5×450	380/220	5×290	4	212
TSL-44.1/210	44100	210	30.7	Φ25/Φ42	5×4280	5	5×450	380/220	5×290	4	224

Model	Refrigerating capacity	Nominal area	Coil type	Inlet/outlet tube of refrigerant	Parameters of fan						Weight
	t=10°C Temperature of Storage 0°C				Air volume	Quantity	Diameter of fan	Voltage	Power	Range	
	W				m³/h	N	mm	V	W	m	

TSD-7/40	7000	40	9.5	Φ16/Φ25	2×3215	2	2×400	380/220	2×216	4	92
TSD-10.5/60	10500	60	12.8	Φ19/Φ32	3×3215	3	3×400	380/220	3×216	4	127
TSD-14/80	14000	80	15.4	Φ19/Φ32	3×3215	3	3×400	380/220	3×216	4	135
TSD-17.5/100	17500	100	18.7	Φ19/Φ35	4×3215	4	4×400	380/220	4×216	4	138
TSD-19.3/110	19250	110	21.1	Φ19/Φ35	4×3215	4	4×400	380/220	4×216	4	139
TSD-21/120	21000	120	24.1	Φ19/Φ35	3×4280	3	3×450	380/220	3×290	4	151
TSD-24.5/140	24500	140	27.3	Φ25/Φ42	4×4280	4	4×450	380/220	4×290	4	188
TSD-26.3/150	26250	150	30.3	Φ25/Φ42	5×4280	5	5×450	380/220	5×290	4	208
TSD-28/160	28000	160	30.7	Φ25/Φ42	5×4280	5	5×450	380/220	5×290	4	220

Model	Refrigerating capacity	Nominal area	Coil type	Inlet/outlet tube of refrigerant	Parameters of fan						Weight
	±10°C Temperature of Storage 0°C				Air volume	Quantity	Diameter of fan	Voltage	Power	Range	
	W				m³/h	N	mm	V	W	m	

TSJ-4.7/30	4650	30	9.5	Φ16/Φ25	2×3215	2	2×400	380/220	2×216	4	91
TSJ-6.2/40	6200	40	12.8	Φ19/Φ32	2×3215	3	3×400	380/220	3×216	4	126
TSJ-8.6/55	8525	55	15.4	Φ19/Φ32	3×3215	3	3×400	380/220	3×216	4	134
TSJ-10.9/70	10830	70	18.7	Φ19/Φ35	4×3215	4	4×400	380/220	4×216	4	137
TSJ-12/75	12010	75	21.1	Φ19/Φ35	4×3215	4	4×400	380/220	4×216	4	138
TSJ-13.2/85	13175	85	24.1	Φ19/Φ35	3×4280	3	3×450	380/220	3×290	4	149
TSJ-15.5/100	15500	100	27.3	Φ25/Φ42	4×4280	4	4×450	380/220	4×290	4	186
TSJ-16.6/105	16515	105	30.3	Φ25/Φ42	5×4280	5	5×450	380/220	5×290	4	206
TSJ-17.9/115	17825	115	30.7	Φ25/Φ42	5×4280	5	5×450	380/220	5×290	4	218

FNV / TP CONDENSERS

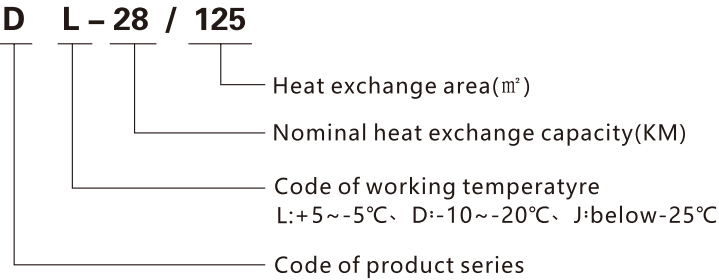


- Highly efficient heat-exchanging coiled pipes.
- Absorb advanced technology of famous european and american brands,andspecifically for commercial freezers and air conditioning equipment;and airconditioning equipment.

TECHNICAL DATA Technical parameters of TP type condenser

Model Specifications	TP	Wiring of motor	Condenser heat	Air Flow	Rotating speed of fan	Total power	Total curren	10m sound pressure level(10m)	Connecting tube
			Δt=15k(KW)	m³/h		W	V	In/out(mm)	dB(A)
Single fan	08B/116	Triangle Ytype	66 60	18660 14140	890 660	1800 1150	3.8 2.2	52 46	42/35
	08C/116	Triangle Ytype	58 48	14770 12200	670 670	800 490	1.95 1.0	45 41	42/35
Double fan	08B/125	Triangle Ytype	109 99	39000 39680	890 660	3600 3600	7.6 7.6	54 48	42/35
	08C/125	Triangle Ytype	96 79	30120 24920	670 670	1600 1600	3.9 3.9	47 43	42/35
	08B/126	Triangle Ytype	132 120	37320 28280	890 660	2300 2300	4.4 4.4	54 48	54/42
	08C/126	Triangle Ytype	116 95	14400 45180	670 670	980 980	2 2	47 43	54/42
	08B/135	Triangle Ytype	165 150	58500 44520	890 660	5400 5400	11.4 11.4	56 50	54/42
Triple fan	08C/135	Triangle Ytype	145 120	37380 44310	670 670	2400 2400	5.85 5.85	49 45	54/42
	08B/136	Triangle Ytype	198 180	55980 45450	890 660	2340 2340	6.6 6.6	56 50	54/42
	08C/136	Triangle Ytype	174 144	36600 56080	510 510	2400 1470	3 3	49 45	54/42
	08B/146	Triangle Ytype	264 240	74640 56560	890 660	7200 4600	15.2 8.8	57 51	67/54
Fourfold fan	08C/146	Triangle Ytype	232 192	48800 88740	510 510	1470 3200	7.8 4	50 46	67/54
Sextule fan	08B/265	Triangle Ytype	330 300	115070 87100	890 660	10800 10800	22.8 13.2	59 53	2X67/54
	08C/265	Triangle Ytype	290 240	70750 68000	510 510	1960 4800	11.7 11.7	52 48	2X67/54
	08B/266	Triangle Ytype	396 360	109620 79080	890 660	6900 6900	22.8 13.2	59 53	2X67/54
	08C/266	Triangle Ytype	348 288	67330 29540	510 510	4800 2940	6 6	52 48	2X67/54

AIR-COOLER(SUSPENDED-CEILING TYPE)



TECHNICAL DATA

Model	Refrigeration capacity Δt=10 C Temperature ofStorage 0℃ W	Nomianl area M²	Colume L	Inlet/outlet tube of refrigerant mm	Parameters of fan						Electrothermal defrosting		weight kg	Remark
					Air volume m³/h	Quantity N	Diameter of fan mm	Voltage V	Power W	Range m	Defrosting power of fins W	Power of defrosting pan W		

4.5 mm High-temperature fin space 4.5 mm

DL-2/10	2000	10	1.4	φ12/φ14	1566	1	300	380/220	92	8	500	500	11	
DL-3/15	3000	15	1.8	φ12/φ14	3126	1	300	380/220	92	8	1000	500	36	
DL-4.3/20	4260	20	2.7	φ12/φ16	3126	2	300	380/220	2x92	8	900	900	37	
DL-5.3/25	5325	25	3.5	φ12/φ16	4689	2	300	380/220	2x92	8	1800	900	55	
DL-8.4/40	8400	40	5.8	φ16/φ25	6800	2	400	380/220	2x216	10	1000	1000	61	
DL-12/55	11550	55	7.6	φ16/φ25	6800	2	400	380/220	2x216	10	1200	1200	67	
DL-17/80	16800	80	10.1	φ19/φ32	12000	2	500	380	2x414	15	2800	1400	108	

6mm Medium-temperature fin space 6mm

DD-1 .2/7	1225	7	1.4	φ12/φ14	1566	1	300	380/220	92	8	1000	500	22	
DD-2.1/12	2100	12	1.8	φ12/φ14	3126	1	300	380/220	92	8	1500	500	35	
DD-2.6/15	2650	15	2.7	φ12/φ16	3126	2	300	380/220	2x92	8	1800	900	40	
DD-3.9/22	3850	22	3.5	φ12/φ16	4689	2	300	380/220	2x92	8	2700	900	52	
DD-5.3/30	5250	30	5.8	φ16/φ25	6800	2	400	380/220	2x216	10	3000	1000	62	
DD-7.0/40	7000	40	7.6	φ16/φ25	6800	2	400	380/220	2x216	10	3600	1200	74	
DD-1 1/60	10500	60	10.1	φ19/φ32	12000	2	500	380	2x414	15	4200	1400	107	

9.0mm Low-temperature fin space 9.0mm

DJ-1 .2/8	1240	8	1.8	φ12/φ14	3126	1	300	380/220	92	8	1500	500	34	
DJ-1 .9/12	1860	12	2.7	φ12/φ14	3126	2	300	380/220	2x92	8	1800	900	50	
DJ-2.3/15	2325	15	3.5	φ12/φ16	4689	2	300	380/220	2x92	8	2700	900	61	
DJ-3.1/20	3100	20	5.8	φ12/φ16	6800	2	400	380/220	2x216	10	3000	1000	63	
DJ-4.7/30	4650	30	7.6	φ16/φ25	6800	2	400	380/220	2x216	10	3600	1200	74	
DJ-6.2/40	6200	40	10.1	φ16/φ25	12000	2	500	380	2x414	15	4200	1400	107	
DJ-8.5/55	8525	55	13.5	φ19/φ32	12000	2	500	380	2x414	15	7000	1400	116	

FREQUENTLY - USED DATA

Diameter of fan		1X800	2X800	2X800	3X800	3X800	4X800	6X800	6X800
Heat-exchange area	m²	200	300	400	500	600	800	1000	1200
Internal volume	L	19	31	38	46	55	73	92	110
Gross weight	KG	182	308	326	470	497	646	860	910
A	mm	160	2900	2900	420	4200	5500	4200	4200
D	mm	1250	2550	2550	3850	3850	5150	3850	3850
D1	mm							1925	1925
D2	mm							1925	1925

TECHNICAL DATA

Model Specifications	Δt=15k(KW) Heat removal quantity	Heat-exchange area	Fan					Diameter of inlet tube	Diameter of outler tube	Dimensions			Mounting dimensions		Weight
			Quantity	Diameter of fan blade	Air volume	Power	Voltage			L	B	H	D	E	
	W	m²	N	Φmm	m³/h	W	V	Φmm	Φmm	mm	mm	mm	mm	mm	kg
FNV-25/72	24840	72	1	4D550	8720	600	380	22	16	950	900	880	870	650	82
FNV-30/87	30102	87	1	4D600	10820	780	380	25	16	1100	1000	860	1020	750	116
FNV-39/110	39050	110	2	4D500	2X6570	2X450	380	25	16	1400	900	880	1320	650	131
FNV-45/130	44850	130	2	4D550	2X8720	2X600	380	28	19	1550	900	880	1470	650	142
FNV-55/155	55025	155	2	4D550	2X8720	2X600	380	28	19	1600	1000	980	1520	750	163
FNV-64/185	63825	185	2	4D600	2X10820	2X780	380	28	22	1700	1000	1080	1620	750	187
FNV-73/210	72660	210	2	4D630	2X12200	2X800	380	32	22	1750	1000	1180	1670	750	213
FNV-83/240	82800	240	3	Φ550	3X8720	2X600	380	32	22	2350	1000	1180	2270	750	245
FNV-92/260	91390	260	3	Φ600	3X10820	2X780	380	35	25	2350	1000	1180	2270	750	264
FNV-100/280	99980	280	3	Φ600	3X10820	2X780	380	35	25	2350	1000	1180	2270	750	268
FNV-104/300	103800	300	3	Φ630	3X13200	2X800	380	35	25	2500	1000	1000	2170	925	308
FNV-111/320	111040	320	3	Φ630	3X13200	2X800	380	38	25	2650	1000	1260	2270	925	315
FNV-125/360	124560	360	3	Φ630	3X13200	2X800	380	42	28	2650	1175	1260	2570	925	328
FNV-138/400	138400	400	4	Φ600	4X10820	2X780	380	42	28	3050	1175	1260	2870	925	404
FNV-166/480	165600	480	4	Φ630	4X13200	2X800	380	54	28	3400	1175	1260	3320	925	433

FNH TYPE
CONDENSERS



- The shell is made of quality steel plate spraved plastic surface is anti-corrosive,and its appearance is handsome.
- Coiled pipes are mechanical expanding tubes in staggered arrangement;therefore,copper tubes and fins are Combined closely,and ensure good effect of heat exchange.

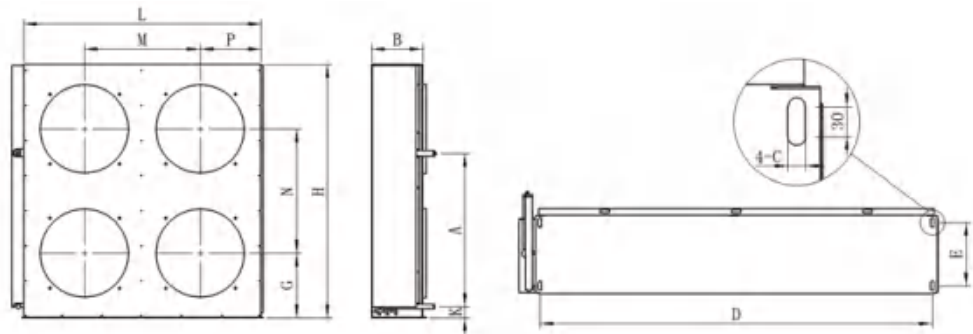
TECHNICAL DATA

Model	Main parameters	Parameters of fan motor						ower		Weight
	Δ t=15k(KW) Heat removal quantity	Condensing area	Diameter of fan blade	Quantity	Total air volume	Power	Voltage	Inlet	Outlet	
	W	m²	L	mm	m³/h	W	V	Φmm	Φmm	

This company can design and produce special non-standard products for customers

FNH-0.7/2	710	2.0	200	1	430	33	220	10	10	2
FNH-1.2/3.4	1217	3.4	200	1	430	33	220	10	10	3
FNH-1.4/4.0	1440	4.0	200	1	430	33	220	10	10	3.5
FNH-1.6/4.4	1566	4.4	250	1	910	60	220	10	10	4
FNH-1.9/5.2	1856	5.2	300	1	1530	75	220	10	10	5
FNH-2.9/8	2864	8.0	300	1	1530	75	220	10	12	6
FNH-3.6/10	3550	10	350	1	1800	90	380	16	12	9
FNH-4.3/12	4296	12	350	1	1800	120	380	16	12	10
FNH-5.4/15	5355	15	350	1	1800	120	380	16	12	11
FNH-6.4/18	6408	18	400	1	3000	216	380	16	12	13
FNH-7.9/22	7876	22	400	1	3000	216	380	16	12	16
FNH-10/27	9610	27	400	1	3000	216	380	19	16	20
FNH-12/33	11880	33	350	2	3600	2X120	380	19	16	23
FNH-13/36	12960	36	400	2	6000	2X216	380	19	16	27
FNH-15/43	15036	43	400	2	6000	2X216	380	19	16	33
FNH-17/48	16784	48	400	2	6000	2X216	380	22	16	37
FNH-20/55	19907	55	400	2	6000	2X216	380	22	16	43
FNH-21/60	21360	60	400	2	6000	2X216	380	22	16	45
FNH-25/70	24640	70	450	2	9000	2x290	380	22	16	48
FNH-28/80	28240	80	450	2	9000	2x290	380	28	19	53
FNH-35/100	35400	100	400	4	12000	4X216	380	28	19	63
FNH-42/120	42240	120	400	4	12000	4X216	380	28	19	71
FNH-46/130	47799	130	400	4	12000	4X216	380	28	19	76
FNH-55/150	55025	150	450	4	18000	4X290	380	28	22	90
FNH-65/180	65500	180	500	4	22000	4X414	380	28	22	102
FNH-72/200	72200	200	500	4	22000	4X414	380	28	22	109

DIMENSIONAL PARAMETERS OF FNH CONDENSER

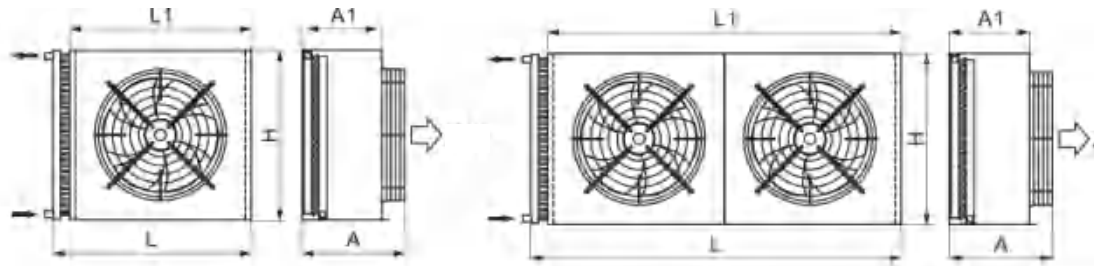


TECHNICAL DATA

Model	Copper tubes Row numbe x Number of rings NxW	Dimensions			Mounting dimensions			Coupling dimensions			Dimensions of fan arrangement		
		L	B	H	D	E	C	A	K	G	P	M	N
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
FNH-0.7/2	2x4	300	120	240	275	70	9	200	24	115	125		
FNH-1.2/3.4	3x4	300	120	240	275	70	9	200	24	115	125		
FNH-1.4/4.0	3x4.5	350	120	255	290	90	7	225	24	128	150		
FNH-1.6/4.4	3X5	375	120	280	350	70	7	250	24	140	162		
FNH-1.9/5.2	3X6	420	130	340	370	100	7	290	25	170	185		
FNH-2.9/8	4x6	420	150	340	370	120	9	290	25	170	185		
FNH-3.6/10	3x8	530	190	420	475	120	9	375	30	210	225		
FNH-4.3/12	4X8	520	200	420	430	130	9	320	50	210	220		
FNH-5.4/15	4X9	570	200	470	480	130	9	370	50	235	245		
FNH-6.4/18	4X10	610	200	520	275	130	11	420	50	260	265		
FNH-7.9/22	5X10	610	220	520	290	150	11	420	50	260	265		
FNH-10/27	6X9	670	260	470	350	190	11	425	35	340	295		
FNH-12/33	5X9	930	220	480	370	130	11	425	35	240	222.5	405	
FNH-13/36	4x11	1040	200	580	370	130	11	387	60	290	250	460	
FNH-15/43	4x13	1040	200	680	475	130	11	487	60	340	250	460	
FNH-17/48	4X12	1260	220	630	430	120	11	437	60	315	220	570	
FNH-20/55	4X14	1260	220	730	480	120	11	537	60	365	305	570	
FNH-21/60	4X15	1260	220	780	350	120	11	562	60	390	305	570	
FNH-25/70	4X16	1260	220	830	1170	120	11	587	60	415	305	570	
FNH-28/80	4x18	1260	220	930	1170	120	11	687	60	465	305	570	
FNH-35/100	4x22	1260	220	1130	1170	120	11	800	60	282.5	305	570	565
FNH-42/120	4X25	1260	220	1280	1170	130	11	800	60	345	305	570	590
FNH-46/130	4X27	1260	220	1380	1170	130	11	800	60	345	305	570	690
FNH-55/150	5x26	1330	270	1330	1240	120	11	805	55	340	320	610	650
FNH-65/180	6x26	1330	290	1330	1240	120	11	805	55	340	320	610	650
FNH-72/200	6X28	1330	290	1430	1240	130	11	1060	35	340	320	610	700

OIL AIR COOLER

- Input voltage: 380V/AC/50Hz.
- Reasonable design of the tube line can make sure the minimum pressure drop.
- Can be used with mineral oil (MO)、ful synthetic(POE)、semi-synthetic lubricant(AB).



TECHNICAL DATA

Model	Heat-euch ange area(m ²)	Oil connection size(Φmm)	Motor power (w)	Oil volume (L)	Nominal capacity in kw (with air admission temperature)			
					27℃	32℃	36℃	43℃
FNYL-10(FFO-025)	10	16	1x75	1.3	3.5	3.2	2.9	2.5
FNYL-15(FFO-050)	15	22	1x90	1.8	7.0	6.4	5.8	5.0
FNYL-23(FFO-100)	23	22	1x290	2.7	11.0	10.5	9.5	8.0
FNYL-33(FFO-200)	33	28	1x414	3.9	17.5	16.0	14.5	12.5
FNYL-44(FFO-300)	44	28	1x600	5.2	20.5	18.5	17.0	14.0
FNYL-61(FFO-400)	61	28	1x780	7.1	31.5	28.5	26.0	22.5
FNYL-88(FFO-500)	88	28	2x620	10.4	41.0	37.0	34.0	28.0
FNYL-121(FFO-600)	121	28	4x216	14.2	63.0	57.0	52.0	45.0

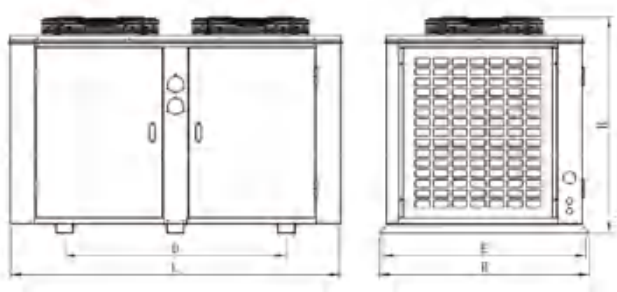
The data listed above is on the base of the temperature of oil inlet is +80℃

Model	L(mm)	L1(mm)	A(mm)	A1(mm)	H(mm)
FNYL-10(FFO-025)	485	420	332	252	393
FNYL-15(FFO-050)	568	500	332	252	444
FNYL-23(FFO-100)	668	600	342	252	545
FNYL-33(FFO-200)	775	700	442	352	647
FNYL-44(FFO-300)	875	800	452	352	749
FNYL-61(FFO-400)	1025	950	452	352	850
FNYL-88(FFO-500)	1625	1550	452	352	749
FNYL-121(FFO-600)	1260	1200	332	252	1280

FNU TYPE
CONDENSERS



- The shell is made of quality galvanized plate,plastic-sprayed surface is anti-corrosive and durable.
- For special-purpose products,please contact WINLEAD Sales Team.



TECHNICAL DATA

Model Specifications	Δt=15k(KW) Heat removal quantity	Heat-exchange area	Fan					Diameter of inlet tube	Diameter of outer tube	Dimensions			Mounting dimensions		Weight
			Quantity	Diameter of fan blade	Air volume	Power	Voltage			L	B	H	D	E	
	W	m²	N	Φmm	m³/h	W	V	Φmm	Φmm	mm	mm	mm	mm	mm	kg
FNU-10/28	9968	28	1	4D450	5000	290	380	19	14	870	670	690	510	840	52
FNU-12/33	11880	33	1	4D450	5000	290	380	19	14	870	670	690	510	840	52
FNU-15/42	15036	42	1	4D500	6570	380	380	19	16	920	770	690	610	890	62
FNU-18/50	17950	50	1	4D550	8720	600	380	22	16	900	770	900	610	870	75
FNU-21/60	31360	60	1	4D550	8720	600	380	22	16	900	770	900	610	870	78
FNU-25/70	24640	70	1	4D550	8720	600	380	22	16	900	770	1000	610	840	83
FNU-28/80	28240	80	2	4D450	2x5000	2x290	380	22	16	900	850	890	900	820	112
FNU-31/90	30500	90	2	4D500	2x6570	2x380	380	22	16	1330	950	890	900	920	125
FNU-35/100	35400	100	2	4D500	2x6570	2x380	380	22	16	1330	950	990	900	920	128
FNU-39/110	39050	110	2	4D500	2x6570	2x380	380	22	16	1330	950	990	900	920	143
FNU-42/120	42240	120	2	4D550	2x8720	2x600	380	25	19	1480	1050	1000	1300	1020	165
FNU-46/130	46028	130	2	4D550	2x8720	2x600	380	25	19	1730	1050	1000	1300	1020	168
FNU-50/150	50109	150	2	4D550	2x8720	2x600	380	25	19	1730	1050	1000	1300	1020	171
FNU-65/180	64400	180	2	4D550	2x8720	2x600	380	25	19	1730	1050	1000	1300	1020	181
FNU-72/200	72200	200	2	4D600	4X10820	2X780	380	28	22	1730	1050	1050	1300	1020	195
FNU-79/220	79420	220	2	4D630	2x12200	2x800	380	28	22	1730	1050	1100	1300	1020	205

FNVB TYPE
CONDENSERS

- The shell is made of quality galvanized plate,plastic-sprayed surface is anti-corrosive and durable.
- For special-purpose products,please contact WINLEAD Sales Team.



TECHNICAL DATA

Model Specifications	Δt=15k(KW) Heat removal quantity	Heat-exchange area	Fan					Diameter of inlet tube	Diameter of outer tube	Dimensions			Mounting dimensions		Weight
			Quantity	Diameter of fan blade	Air volume	Power	Voltage			L	B	H	D	E	
	W	m²	N	Φmm	m³/h	W	V	Φmm	Φmm	mm	mm	mm	mm	mm	kg
FNWB-25/72	24840	72	1	Φ550	8720	600	380	22	16	950	900	1490	550	820	129
FNVB-30/87	30102	87	1	Φ600	10820	780	380	25	16	1100	1000	1500	600	820	183
FNVB-39/110	39050	110	2	Φ500	2X6570	2X450	380	25	16	1400	900	1490	900	820	210
FNVB-45/130	44850	130	2	Φ550	2X8720	2X600	380	28	19	1550	900	1490	900	820	221
FNVB-55/155	55025	155	2	Φ550	2X8720	2X600	380	28	19	1600	1000	1650	900	920	253
FNVB-64/185	63825	185	2	Φ600	2X10820	2X780	380	28	22	1700	1000	1780	1000	920	285
FNVB-73/210	72660	210	2	Φ630	2X12200	2X800	380	32	22	1750	1000	1880	1050	920	307
FNVB-83/240	82800	240	3	Φ550	3X8720	3X600	380	32	22	2350	1000	1780	1600	920	377
FNVB-921260	91390	260	3	Φ600	3X10820	3X780	380	35	25	2350	1000	1800	1600	920	386
FNVB-100/280	99980	280	3	Φ600	3X10820	3X780	380	35	25	2350	1000	1880	1600	920	390
FNVB-104/300	103800	300	3	Φ630	3X13200	3X800	380	35	25	2500	1000	1900	1550	1100	433
FNVB-111/320	111040	320	3	Φ630	3X13200	3X800	380	38	25	2650	1000	1900	1650	1100	454
FNVB-125/360	124560	360	3	Φ630	3X13200	3X800	380	42	28	2650	1175	1980	1950	1100	464
FNVB-138/400	138400	400	4	Φ600	4X10820	4X780	380	42	28	3050	1175	1980	2250	1100	485
FNVB-166/480	165600	480	4	Φ630	4X13200	4X800	380	54	28	3400	1175	1980	2700	1100	559

HOOK - TYPE COLD STORAGE PANEL

- The eccentric hook locks the connection, so that the cold storage board is easy to install, and is suitable for the construction of small size cold storage.

PANEL RIBBED FORM

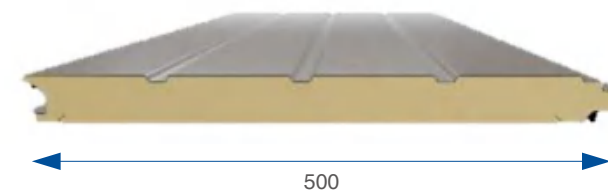


Thickness of sandwich panel (mm)	Temperature difference ℃	Wall panel height m	Top plate length m	U value PIR/PUR W/m²k	Board weight PIR/PUR Kg/m²(0.5+0.5)
50	25	3	2.5	0.4/0.45	10.3/9.8
75	30	3.2	3	0.26/0.3	11.55/10.8
100	40	3.8	3.5	0.2/0.23	12.8/11.8
150	50	4.2	4	0.13/0.15	15.3/13.8
180	60	4.6	4.5	0.11/0.125	16.8/15
200	65	4.95	4.5	0.1/0.113	17.8/15.8

M:Thermobaric deformation, no wind and snow load.

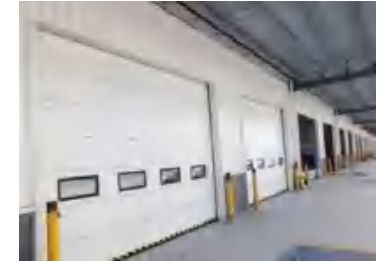
PIR/PUR SLIDING DOOR PANEL

PANEL RIBBED FORM



- Using Germany continuous production line, fluorine-free polyurethane one-time continuousfoaming molding.
- The inner and outer panels are made of 0.5mm thick Baosteel galvanized color steel plate. and the surface is treated with two layers of electrostatic polyester paint, and the thickness of the paint is not less than 28 microns. It can resist long-term exposure to sun, rain, ultraviolet rays, and can guarantee more than 15 years without fading.
- The overall thickness of the door panel > 42mm, and the height of a single door panel is 500mm.
- The door panel is double-folded and overlapped at the inner nailing, with a thickness of more than 2 mm, and is used directly for assembling stainless steel folds.
- The fire rating of the > door panel is B1.
- It has an anti-pinch function.
- Wind load of the door body: 50-75 kg/m² (width more than 5.5 m with wind rod).
- Color: The color is white gray RAL9010, silver gray RAL9006 or light blue RAL5015 can be selected.

SECTIONAL DOOR SERIES



SCD01

- Insulation. Wind resistance, Sealing, Safe and Stable, widely used in logistics, e-commerce, automotive, manufacturing and other industries.



SD03

- Excellent wind resistance and optimal solution for large-span entrances and exits. Used for logistics warehouses.



SD04

- Special designs for cold storage, such as cold bridge style door panels and heated windows, perfectly solve the problem of sealing and insulation in cold storage.

COLD STORAGE DOOR SERIES



SCD01

- Good sealing, good insulation, long service life, and equipped with a safe and practical escape device inside the warehouse.



HCD01

- The characteristics of good sealing, good insulation, and long service life.



VCD01

- Fast speed, good sealing, good insulation, and long service life.

HIGH SPEED DOOR SERIES



HSD03

- Automatic and fast passage, high-frequency and complex entry and exit solution.



HSD05

- Reduce air convection in cold storage, reduce energy consumption.



HSD04

- Good wind resistance, Plan for large door openings.



HSD01

- Excellent wind resistance performance, the optimal solution for external doors.

MOBEIL REFRIGERATION
UNIT



Environment temperature	Cooling capacity		Compressor(SY)				Condenser (Front mounted)		Structure	Refrigerant		Weight	Service container volume
	0℃	-18℃	Speed	Model	Exhaust	Type	Fan quantity	DC voltage option		Type	Dosage		

XDL - 300 SERIES Condenser Dimension 670 X 310 X 290 | Evaporator Dimension 660 X580X160

35℃	1800 Kcal/h	1100 kcal/h	1800 rpm	SD7H11	110CC	swash-plate	3	DC 12V/ DC 24V	Direct engine driven	R404a	1.5kg	35kg	4~6CBM
CAB Command (82X143X32)	Automatic control frozen range lock out digital readout												

XDL - 350 SERIES Condenser Dimension 660 X 580 X 160 | Evaporator Dimension 670 X310X290

35℃	1800 Kcal/h	1100 kcal/h	1800 rpm	SD7H11	110CC	swash-plate	3	DC 12V/ DC 24V	Direct engine driven	R404a	1.5kg	35kg	6~8.5CBM
CAB Command (82X143X32)	Automatic control frozen range lock out digital readout												

XDL - 400 SERIES Condenser Dimension 1100 X 600 X 380 | Evaporator Dimension 1140 X590X230

35℃	3580 Kcal/h	2068 kcal/h	2000 rpm	SD7L15	168CC	swash-plate	4	DC 12V/ DC 24V	Direct engine driven	R404a	1.6kg	48kg	14~18CBM
CAB Command (82X143X32)	Automatic control frozen range lock out digital readout												

XDL - 500 SERIES Condenser Dimension 1550 X 635 X 600 | Evaporator Dimension 1550 X 635 X 600

35℃	4190 Kcal/h	2440 kcal/h	2000 rpm	TM16	163CC	swash-plate	4	DC 12V/ DC 24V	Direct engine driven	R404a	1.8kg	115kg	15~25CBM
CAB Command (82X143X32)	Automatic control frozen range lock out digital readout												

XDL - 700 SERIES Condenser Dimension 1370 X 729 X 190 | Evaporator Dimension 1356 X 400 X 350

35℃	5800 Kcal/h	2900 kcal/h	2000 rpm	TM21/ TKS32	200CC/ 320CC	swash-plate	6	DC 12V/ DC 24V	Direct engine driven	R404a	2.8kg	110kg	18~40CBM
CAB Command (82X143X32)	Automatic control frozen range lock out digital readout												

XDL - 900 SERIES Condenser Dimension 1880 X 610 X 329 | Evaporator Dimension 1220 X 651 X 329

35℃	8425 Kcal/h	5365 kcal/h	2000 rpm	TM32	320CC	swash-plate	6	DC 12V/ DC 24V	Direct engine driven	R404a	3.8kg	-	50~60CBM
CAB Command (82X143X32)	Automatic control frozen range lock out digital readout												

SAFETY LATCHES & INSIDE
RELEASE HANDLES



Model NO.	Name	Material	Install Ation Height	Weight	Packing NO.(SETS)
WL-1178A	Cam-lift Safety Latch	High Pressure Die -Cast Zinc	40-70	1.5	10
WL-1178S	Plane Safety Latch	High Pressure Die-Cast Zinc	0	1.5	10
WL-1178AA	Cam-ift Safety Latch	Stainless Steel	40-70	1.65	10
WL-1178SS	Diane Safety Latcn	Stainless Steel	0	1.55	10
WL-1178K	Safety Latches Inside Release Handel	High Pressure Die-Cast Zinc	-	0.65	-

The product have three insurances. if inside release handle is broken. the people in the coldroom can open threaded rod to leave.
More models please ask WINLEAD team for more information.



Model NO.	Name	Material	Install Ation Height	Weight	Packing NO.(SETS)	Remarks
WL-1179	Cam-lift Safety Latch	Stainless Steel	5-38	1.9	10	W/O Lock

More models please ask WINLEAD team for more information.

SAFETY LATCHES & INSIDE RELEASE HANDLES



WL-1888A

Model NO.	Name	Material	Weight	Packing NO.(SETS)	Remarks
WL-1888A	Cam-lift Safety Latch	High Pressure Die-Cast Zinc	1.8	10	With Lock
WL-1888S	Plane safety latch	High Pressure Die-Cast Zinc	1.8	10	W/O Lock

More models please ask WINLEAD team for more information.



Model NO.	Name	Material	Weight	Packing NO.(SETS)	Remarks
WL-1199	Cam-lift Safety Latch	High-density ABS	2.5	10	With Lock W/O Lock

More models please ask WINLEAD team for more information.



WL-4100



WL-4200

SAFETY LATCHES & INSIDE RELEASE HANDLES



WL-1210

Model NO.	Name	Material	Weight	Packing NO.(SETS)	Remarks
WL-1210	Locking Handle	Stainless Steel	1.1	20	With Fluorescent
WL-1211	Locking Handle	High Pressure Die-Cast Zinc	1.8	20	With Fluorescent

More models please ask WINLEAD team for more information.

ADJUSTABLE DOOR HINGE



WL-1460C



WL-1460

Model NO.	Name	Material	Install A tion Height	Weight	Packing NO.(PCS)
WL-1460C	Cam-lift Safety Latch	High Pressure Die -Cast Zinc	32-60	1	20
WL-1460	Plane Safety Latch	High Pressure Die-Cast Zinc	32-60	0.75	20
WL-1460S	Cam-lift Safety Latch	Stainless Steel	32-60	0.85	20
WL-1460SS	Diane Safety Latch	Stainless Steel	32-90	0.95	20

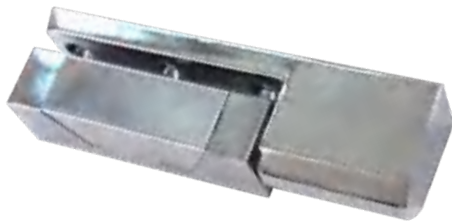
More models please ask WINLEAD team for more information.

ADJUSTABLE DOOR HINGE



Model NO.	Name	Material	Install Ation Height	Weight	Packing NO.(PCS)
WL-1460CS	Adjustable Door Hinges	High Pressure Die -Cast Zinc	32-60	0.6	20
WL-1470	Adjustable Door Hinges	High Pressure Die-Cast Zinc	40-70	1.4	20
WL-1470S	Adjustable Door Hinges	Stainless Steel	40-70	1.6	20

More models please ask WINLEAD team for more information.



Model NO.	Name	Material	Weight	Packing NO.(PCS)
WL-1132	Reversible Reach-In Edgenount Cam-Lift Hinge	High Pressure Die-Cast Zinc	0.45	50

More models please ask WINLEAD team for more information.



Model NO.	Name	Material	Weight	Packing NO.(PCS)
WL-1332	Reversible Reach-In Edgenount Cam-Lift Hinge	High Pressure Die-Cast Zinc	0.45	50

More models please ask WINLEAD team for more information.

REVERSIBLE REACH-IN HINGES



Model NO.	Name	Material	Weight	Packing NO.(PCS)	Remarks
WL-1220-1	Reversible Reach-in Plane Hinge	High Pressure Die -Cast Zinc	1.6	20	With spring
WL-1220-2	Reversible Reach-in Plane Hinge	Stainless Steel	1.7	20	With spring

More models please ask WINLEAD team for more information.



WL-1191



WL-1192



WL1188



WL635



WL-1128

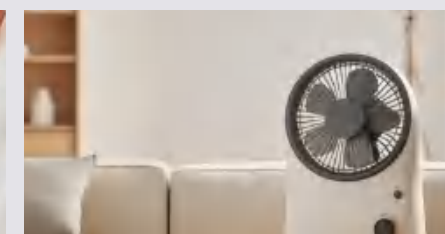
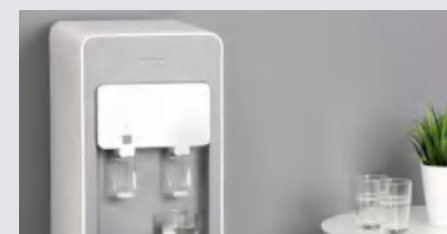
MOTOR SERIES

AN ELECTROMAGNETIC DEVICE FOR CONVERTING OR
TRANSMITTING ELECTRICAL ENERGY



PRODUCT FEATURES

A machine usually consists of a stator and a rotor. The stator includes a stator core and a coil winding wound around the stator core. The rotor includes a shaft and a rotor core wrapped around the shaft. The outer edge of the rotor core is equipped with permanent magnets. Electric motors are generally divided into DC motors and AC motors. The motor is represented by the letter M (formerly known as D) in the circuit, and its main function is to generate driving torque as a power source for electrical appliances or various machinery.



DC-HOME AIR CONDITIONER MOTOR



70 series Indoor Unit



79 series Indoor Unit



79 series Outdoor Unit

Type	Capacity range	Output	Voltag	Features	Control
Application: A/C Indoor Uni					
70 series Indoor Unit	5~30W	5~30	140/310	Resin package, copper wire	Square-wave driving
					sine-wave driving
					no driving
Application: Air conditioner indoor unit, air purifier					
79 series Indoor Unit	5~70W	5~70	140/310	Resin packaging, body thickness is optional among 39/42/51mm, copper wires	Square-wave driving
					sine-wave driving
					no driving
Application: Air conditioner outdoor unit, air energy water heater					
79 series Outdoor Unit	5~70W	5~70	140/310	Resin packaging, copper wires, flange mounting	sine-wave driving
					no driving



87 series Indoor Unit



87 series Outdoor Unit



87 series FAN COIL

Type	Capacity range	Output	Voltag	Features	Control
Application: A/C indoor unit , air purifier					
87 series Indoor Unit	20~65W	20~65	140/310	Resin packaging, body thickness is optional among 39/42/51mm, copper & aluminum wires	Square-wave driving
					sine-wave driving
					no driving
Application: A/C outdoor unit,air-heat pump water heater					
87 series Outdoor Unit	25~65W	25~65	140/310	Resin packaging, copper & aluminum wires, flange mounting	Square-wave driving
					sine-wave driving
					no driving
Application: FCU					
87 series FAN COIL	20-60W	20-60	140/310	Resin packaging, copper & aluminum wires,Flange mounting	sine-wave driving
					no driving

DC-HOME AIR CONDITIONER MOTOR



94 series Indoor Unit



94 series Outdoor Unit



94 series FAN COIL

Type	Capacity range	Output	Voltag	Features	Control
Application : Packaged A/C indoor unit					
94 series Indoor Unit	60~100W	60~100	310	Resin packaging, copper & aluminum wires	sine-wave driving
					no driving
Application : Packaged A/C outdoor unit,ceiling A/C outdoor unit					
94 series Outdoor Unit	60~100W	60~100	310	Resin packaging, copper & aluminum wires	sine-wave driving
					no driving
Application : FCU					
94 series FAN COIL	20-100W	20-100	310	Resin packaging, copper & aluminum wires	sine-wave driving
					no driving



87 series



79 series



80 series Outdoor Unit

Type	Capacity range	Output	Voltag	Features	Control
Application：Air conditioner,air purifier					
87 series Indoor Unit	20~65W	20~65	140/310	Resin packaging, body thickness is optional among 32/39/41/49m, copper & aluminum wires	PG / tap / single speed,
					PG speed regulation
					2/6/12 magnet ring
Application：Air conditioner					
87 series Outdoor Unit	25~65W	25~65	140/310	Resin packaging, body thickness is optional among 32/39/49mm,copper wire	PG speed regulation
Application：A/C outdoor unit					
87 series FAN COIL	20-60W	20-60	140/310	Steel casing motor tensile structure, iron core is optional,from 10 to 35mm, copper & aluminum wires	Main tap / assistant tap/ single speed

COMMERCIAL AIR CONDITIONER MOTOR



80 series (Portable A/C)



95 series Indoor Unit



107 series Indoor Unit

Type	Capacity range	Output	Voltag	Features	Control
Application: Kitchen hood, portable A/C, air freshener					
80 series (Portable A/ C)	5~35W	5~35	100-130/ 200-240	teel casing motor tensile structure, iron core is optional from 10 to 35mm,copper & aluminum wires	PG / tap / single speed PG speed regulation 2/6/12 magnet ring
Application: Air conditioner					
95 series Indoor Unit	25~80W	25~80	100-130/ 200-240	Steel casing motor tensile structure, copper & aluminum wires	PG speed regulation
Application: Packaged A/C indoor unit					
107 series Indoor Unit	80~150W	80~150	310	Resin packaging, copper & aluminum wires	FOC vector control



107 series Outdoor Unit(Pcakaged/Ceiling)



107 series Outdoor Unit



107 series Indoor Unit (Coil Unit)

Type	Capacity range	Output	Voltag	Features	Control
Application: Packaged A/C outdoor unit,ceiling A/C outdoor unit.					
107 series Outdoor Unit(Pcakaged/ Ceiling)	80~240W	80~240	310	Resin packaging,copper & aluminum wires,vibration reduction rubber gasket &Flange mounting	FOC vector control
Application: Packaged A/C outdoor unit,ceiling A/C outdoor unit					
107 series Outdoor Unit	100~250W	100~250	310	Resin packaging,rubber gasket & flange mounting, copper and aluminum wires	FOC vector control
Application: FCU					
107 series Indoor Unit (Coil Unit)	100~250W	100~250	310	Resin packaging, rubber gasket mounting, copper & aluminum wires	FOC vector control

AIR CONDITIONER FAN MOTOR



Model	Voltage/V	Frequency/ HZ	Power/W	Speed/RPM	ROT	CAP(MDF/VAC)	OEM Model
YSK140-120-6A	208-230	60	1/6HP	1095/3 SPD	CCW-LE	5/370	5KCP39DGS008T
YSK140-120-6A2	208-230	60	1/6HP	1000/2 SPD	CW-LE	5/370	5KCPD39GM511T
YSK140-120-6A5	208-230	60	1/6HP	1095/3 SPD	CCW-LE	5/370	5KCP39DGM004T
YSK140-120-6A6	208-230	60	1/6HP	1050/3 SPD	CCW-LE	5/370	F48U05B09
YSK140-120-6A7	208-230	60	1/6HP	1050/3 SPD	CW-LE	5/370	K55HXPKG-5158
YSK140-120-6A18	208-230	60	1/6HP	1000/2 SPD	CW-LE	5/370	F48SE6MA61
YSK140-120-6A3	208-230	60	1/6HP	1050/3 SPD	CW-LE	5/370	ACE-635-16
YSK140-120-6A22	208-230	60	1/6HP	1050/3 SPD	CCW-LE	5/370	F48CS6MA14
YSK140-120-6A23	115	60	1/6HP	1075/3 SPD	CCW-LE	5/370	D754
YSK140/30-4-150	220-230	60	1/5HP	1200/3 SPD	REVERSIBLE	5/370	/
YSK140-150-6A	208-230	60	1/5HP	1115/3 SPD	CW-LE	5/370	5KCP39FGM4440
YDK140-120-6A	208-230	60	1/6HP	1075/2 SPD	REVERSIBLE	5/370	PM310668
YDK140-120-6A5	208-230	60	1/6HP	1075RPM	REVERSIBLE	5/370	5KCP39DGS375S
YDK140-120-6A6	208-230	60	1/6HP	1075RPM	REVERSIBLE	5/370	FSE1016SV1
YDK140-120-6A7	115	60	1/6HP	1075/3SPD	REVERSIBLE	5/370	5KCP39DGP729S
YDK140-120-6A8	115	60	1/6HP	1075/3 SPD	REVERSIBLE	5/370	A.O.SMITH 9647
YDK140-150-6A	208-230	60	1/5HP	1075/2 SPD	REVERSIBLE	5/370	PM310543
YDK140-150-6A2	220-240	50	1/5HP	900RPM	CW-SE	5/370	PM310544
YDK140-185-6A3	208-230	60	1/4HP	1075RPM	REVERSIBLE	5/370	5KCP39EGP39EGP697T
YDK140-185-6A6	208-230	60	1/4HP	1075RPM	REVERSIBLE	5/370	FASC0 D725
YDK140-185-6A7	208-230	60	1/4HP	1075/3SPD	REVERSIBLE	7.5/370	FASC0 D7909
YDK140-185-6A8	208-230	60	1/4HP	1075RPM	REVERSIBLE	5/370	FASC0 D904

AXIAL FAN MOTORS



- Note:We can customize the voltage,frequency and air flow according to your requirement.

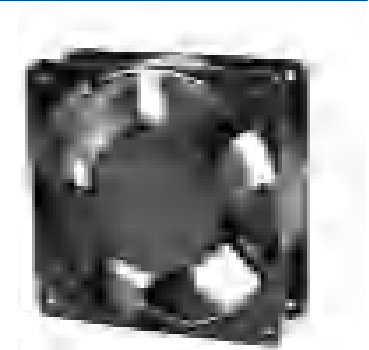
Φ200~Φ500

Model	Voltage (v)	Frequency (Hz)	Current (Amp)	Input (W)	Speed (r/min)	Airflow M³/h	Noise dB(A)	CAP μF	NET Kg
YWF2D - 200	380	50	0.15	47	2500	745	50	/	2.5
YWF2E - 200	220	50	0.25	50	2500	745	50	2	2.5
YWF4D - 200	380	50	0.10	25	1400	425	43	/	2.5
YWF4E - 200	220	50	0.12	27	1400	425	43	1	2.5
YWF2D - 250	380	50	0.25	100	2550	1367	60	/	3
YWF2E - 250	220	50	0.48	100	2550	1358	60	3	3
YWF4D - 250	380	50	0.18	55	1400	1132	55	/	3
YWF4E - 250	220	50	0.25	50	1400	1108	55	2	3
YWF2D - 300	380	50	0.40	136	2550	1968	60	/	3.3
YWF2E - 300	220	50	0.55	125	2400	2000	60	4	3.3
YWF4D - 300	380	50	0.27	85	1380	1645	58	/	3.3
YWF4E - 300	220	50	0.40	86	1350	1716	58	3	3.3
YWF4D - 330	380	50	0.30	105	1360	2319	62	/	3.5
YWF4E - 330	220	50	0.52	110	1350	2235	62	4	3.5
YWF4D - 350	380	50	0.35	135	1380	2688	62	/	5.0
YWF4E - 350	220	50	0.60	135	1370	2666	62	4	5.0
YWF6D - 350	380	50	0.25	70	940	1920	56	/	5.0
YWF6E - 350	220	50	0.40	80	950	1910	56	3	5.0
YWF4D - 380	380	50	0.35	140	1380	3300	58	/	5.5
YWF4E - 380	220	50	0.70	150	1360	3300	58	4	5.5
YWF6D - 380	380	50	0.35	120	920	2650	55	/	5.5
YWF6E - 380	220	50	0.55	110	920	2650	55	4	5.5
YWF4D - 400	380	50	0.48	166	1380	4008	68	/	6.0
YWF4E - 400	220	50	0.75	165	1360	3861	68	6	6.0
YWF6D - 400	380	50	0.40	115	920	3060	58	/	6.0
YWF6E - 400	220	50	0.60	115	920	2970	58	4	6.0
YWF4D - 450	380	50	0.65	230	1390	5180	68	/	7.5
YWF4E - 450	220	50	1.00	215	1360	5000	68	8	7.5
YWF6D - 450	380	50	0.35	120	910	3916	60	/	7.5
YWF6E - 450	220	50	0.72	150	920	3616	60	6	7.5
YWF4D - 500	380	50	0.85	350	1350	6568	72	/	10
YWF4E - 500	220	50	1.60	240	1320	6420	72	10	10
YWF6D - 500	380	50	0.62	220	920	5291	68	/	10
YWF6E - 500	220	50	1.00	210	920	5278	68	10	10

Φ550~Φ630

Model	Voltage (v)	Frequency (Hz)	Current (Amp)	Input (W)	Speed (r/min)	Airflow M³/h	Noise dB(A)	CAP μF	NET Kg
YWF4D - 550	380	50	0.98	430	1330	8716	75	/	10.5
YWF4E - 550	220	50	2.20	460	1360	8240	75	12	10.5
YWF6D - 550	380	50	0.85	320	900	6433	70	/	10.5
YWF6E - 550	220	50	1.50	320	910	6312	70	12	10.5
YWF4D - 600	380	50	1.20	620	1350	11540	78	/	14
YWF4E - 600	220	50	3.40	740	1380	10375	78	16	14
YWF6D - 600	380	50	1.30	500	920	8901	72	/	14
YWF6E - 600	220	50	2.40	500	910	8754	72	12	14
YWF4D - 630	380	50	1.28	640	1350	13040	75	/	15.4
YWF4E - 630	220	50	3.50	750	1350	11648	75	16	15.4
YWF6D - 630	380	50	1.40	550	900	9640	70	/	15.4
YWF6E - 630	220	50	2.50	520	900	9600	70	12	15.4

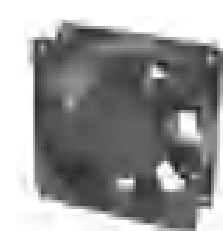
AXIAL AC FAN MOTORS



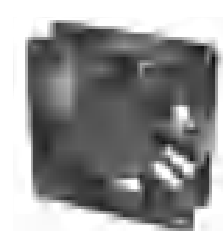
FM12038 120x120x38mm(Square)

Model	Frequency (Hz)	Voltage (V)	Bearing Type	Current (Amp)	Power (W)	Speed Rpm	Airflow Cfm	Noise dB(A)
FM12038A1HSL	50/60	110	Sleeve	0.24/0.23	26/23	2800	90/100	40/45
FM12038A1HBL	50/60	110	Ball	0.24/0.23	26/23	2800	90/100	40/45
FM12038A2HSL	50/60	220	Sleeve	0.14/0.13	26/23	2700	90/100	40/45
FM12038A2HBL	50/60	220	Ball	0.14/0.13	26/23	2700	90/100	40/45
FM12038A3HSL	50/60	380	Sleeve	0.07/0.06	26/23	2700	90/100	40/45
FM12038A3HBL	50/60	380	Ball	0.07/0.06	26/23	2700	90/100	40/45
FM12038A1/A2HSL	50/60	110/220	Sleeve	0.23/0.14	26/23	2700	90/100	40/45
FM12038A1/A2HBL	50/60	110/220	Ball	0.23/0.14	26/23	2700	90/100	40/45

FM=Factory Model, 12038=120*120*38mm, A1=AC 110V, A2=AC 220V, H=High speed, S=Sleeve, B=Ball,L=Lead wire,T=Terminal



Fan with 7 Blades Type A



Fan with 7 Blades Type B



Fan with Flat Plug



Fan with Round Plug

SHADED POLE
MOTORS

- Note:We can customize the voltage,frequency and air flow according to your requirement.

YZF18

Model	Voltage (v)	Frequency (Hz)	Rated Input(W)	Out Input(W)	Rated Current(A)	Rated Speed(r/min)	Air Volume (m³/h)	Fan Blade (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	License
YZF2-13-18	220-240	50/60	20	2	0.14	1300	205	φ172	13	13.5	43	78	-	CE
YZF5-13-18	220-240	50/60	29	5	0.20	1300	455	φ200	13	13.5	43	78	-	CE
YZF6-13-18	110-120	60	33	6	0.55	1550	510	φ200	13	13.5	43	78	-	-
YZF7-20-18	220-240	50/60	31	7	0.23	1300	640	φ230	19	14	43.5	84.5	-	CE
YZF10-20-18	220-240	50/60	36	10	0.25	1300	650	φ230	19	14	43.5	84.5	-	CE
	110-120	60	55	10	0.80	1550	800	φ230	19	14	43.5	84.5	-	-
YZF12-20-18	220-240	50/60	54	12	0.36	1300	690	φ230	19	14	43.5	84.5	-	CE
YZF16-25-18	220-240	50/60	60	16	0.45	1300	760	φ254	25	15.5	45	92	-	CE
YZF18-25-18	110-120	60	70	18	1.01	1550	940	φ254	25	15.5	45	92	-	-
YZF18-30-18	220-240	50/60	70	18	0.50	1300	1000	φ254	30	17.5	48.5	100.5	21	CE
	110-120	60	75	18	1.10	1450	1000	φ254	30	17.5	48.5	100.5	21	-
YZF25-40-18	220-240	50/60	90	25	0.70	1300	1030	φ300	40	18.5	49.5	111.5	31	CE
	110-120	60	100	25	1.40	1450	1030	φ300	40	18.5	49.5	111.5	31	-
YZF34-45-18	220-240	50/60	110	34	0.85	1300	1210	φ300	50	22.5	53.5	120.5	36	CE
	110-120	60	110	34	1.50	1450	1210	φ300	50	22.5	53.5	120.5	36	-

BRUSHLESS
MOTORS

WLC4810A

Model	Voltage (v)	Maximum Load	Rotational Speed(rpm)	Minimum Noise(dB(A))	Minimum Vibration(mm/s)	Power (W)	Maximum Efficiency(%)
MDAC4810A	100-240V	230 34°	300~1800	38	1.1	20	70
LOAD/SPEED	200mm blade			230mm blade			
	28°		34°	28°		34°	
1300RPM	√		√	√		√	
1500RPM	√		√	√		√	
1800RPM	√		X	X		X	

BRUSHLESS
MOTORS

WLC4810A PRO

Model	Voltage (v)	Maximum Load	Rotational Speed(rpm)	Minimum Noise(dB(A))	Minimum Vibration(mm/s)	Power (W)	Maximum Efficiency(%)
MDAC4810A PRO	100-240V	230 34°	300~2300	38	1.1	20	75
LOAD/SPEED	200mm blade			230mm blade			
	28°		34°	28°		34°	
1300RPM	√		√	√		√	
1500RPM	√		√	√		√	
1800RPM	√		X	X		X	
2300RPM	√		√	√		√	

WLC6115A

Model	Voltage (v)	Maximum Load	Rotational Speed(rpm)	Minimum Noise(dB(A))	Minimum Vibration(mm/s)	Power (W)	Maximum Efficiency(%)
MDAC6115A	100-240V	230 34°	300~1800	39.5	1.2	30	70
LOAD/SPEED	200mm blade		230mm blade		254mm blade		300mm blade
	28°	34°	28°	34°	28°	34°	28° 34°
1300RPM	√	√	√	√	√	√	√ √
1500RPM	√	√	√	√	√	√	√ X
1800RPM	√	√	√	X	X	X	X X

WLC6115A PRO

Model	Voltage (v)	Maximum Load	Rotational Speed(rpm)	Minimum Noise(dB(A))	Minimum Vibration(mm/s)	Power (W)	Maximum Efficiency(%)
MDAC6115A PRO	100-240V	230 34°	300~2300	39.0	1.1	20	75
LOAD/SPEED	200mm blade		230mm blade		254mm blade		300mm blade
	28°	34°	28°	34°	28°	34°	28° 34°
1300RPM	√	√	√	√	√	√	√ √
1500RPM	√	√	√	√	√	√	√ X
1800RPM	√	√	√	√	X	X	X X
2300RPM	√	√	√	X	X	X	X X

TOOL AND VALVE

AN ELECTROMAGNETIC DEVICE FOR CONVERTING OR
TRANSMITTING ELECTRICAL ENERGY



PRODUCT FEATURES

Usage characteristics: It determines the main performance and scope of use of the valve. Valve usage characteristics include: valve category (closed circuit valve, regulating valve, safety valve, etc.); Product type (gate valve, globe valve, butterfly valve, ball valve, etc.); The materials of the main components of the valve (valve body, valve cover, valve stem, valve disc, sealing surface); Valve transmission mode, etc.



IRON CONNECTION ROTALOCK VALE SERIES

- Test Pressure:4.5Mpa.
- ApplicableTemperature:-40℃ ~+150℃ .
- Applicable Medium:R22、R507、R407C、R404A、refrigerants such as R134a and various refrigerant oil.

Type	Cuboid	Welding joint OCS		Nutsizes		Size(mm)						
		(inch)	(mm)	(K)	(S)	d1	d2	h	H	A	B	L
6000-022016	20	1/4	6.42	3/4-16UNF	24	5.2	8.5	19.5	38	6	27	98
6000-032016		3/8	9.7	3/4-16UNF	24	8.5	8.5	19.5	38	9	27	98
6000-022014		1/4	6.42	1-14UNS	30	5.2	11.8	19.5	39	6	27	98
6000-032014		3/8	9.7	1-14UNS	30	8.5	11.8	19.5	39	9	27	98
6000-042014		1/2	12.8	1-14UNS	30	10.5	11.8	19.5	39	10	31	102
6000-052014		5/8	16.1	1-14UNS	30	10.5	11.8	19.5	39	14	31	102
6000-052012	30	5/8	16.1	1-1/4-12UNF	36	10.5	11.8	21	40.5	15	36	107
6000-053012		5/8	16.1	1-1/4-12UNF	36	13.0	18.0	26	50.5	14	41	130
6000-063012		3/4	19.1	1-1/4-12UNF	36	16.0	18.0	26	50.5	16	41	130
6000-073012		7/8	22.35	1-1/4-12UNF	36	18.0	18.0	26	50.5	18	41	130
6001-063012		3/4	19.1	1-3/4-12UN	50	16.0	18.0	28.5	55	16	41	130
6001-073012		7/8	22.35	1-3/4-12UN	50	18.0	18.0	28.5	55	18	41	130
6001-093012	36	1-1/8	28.7	1-3/4-12UN	50	18.5	18.0	28.5	55	23	51	140
6000-093612		1-1/8	28.7	1-3/4-12UN	50	25.0	25.0	32	62	32	55	168
6000-113612		1-3/8	35.1	1-3/4-12UN	50	25.0	25.0	32	62	32	56	169
6000-135012	50	1-5/8	41.3	2-1/4-12UN	56	37.0	39.0	41	78	28	75	195

COPPER CONNECTION ROTALOCK VALE SERIES

- Test Pressure:4.5Mpa.
- ApplicableTemperature:-40℃ ~+150℃ .
- Applicable Medium:R22、R507、R407C、R404A、refrigerants such as R134a and various refrigerant oil.

Type	Cuboid	Welding joint OCS		Nutsizes		Size(mm)						
		(inch)	(mm)	(K)	(S)	d1	d2	h	H	A	B	L
6000-022016	20	1/4	6.42	3/4-16UNF	24	5.2	8.5	19.5	38	8	50	120
6000-032016		3/8	9.7	3/4-16UNF	24	8.5	8.5	19.5	38	9	52	122
6010-032014		3/8	9.7	1-14UNS	30	8.5	11.8	19.5	39	10	52	122
6000-042014		1/2	12.8	1-14UNS	30	9.5	11.8	19.5	39	11	54	124
6000-052014		5/8	16.1	1-14UNS	30	10.5	11.8	19.5	39	12	54	124
6000-052012		5/8	16.1	1-1/4-12UNF	36	10.5	11.8	21	40.5	12	54	124
6010-063012	30	3/4	19.1	1-1/4-12UNF	36	10.5	18.0	26	50.5	14	66	154
6010-073012		7/8	22.35	1-1/4-12UNF	36	16.0	18.0	26	50.5	18	71	159
6011-073012		7/8	22.35	1-3/4-12UN	50	18.0	18.0	28.5	55	18	71	159
6010-093612	36	1-1/8	28.7	1-3/4-12UN	50	18.0	25.0	32	62	20	81	194
6010-113612		1-3/8	35.1	1-3/4-12UN	50	25.0	25.0	32	62	20	81	194
6010-135012	50	1-5/8	41.3	2-1/4-12UN	65	37.0	39.0	41	78	24	88	208

DC STOP VALVE SERIES

- Nominal Pressure: 4.0Mpa.
- Test Pressure: 6.0Mpa
- ApplicableTemperature:-46℃ ~+150℃ .
- Applicable Medium:R22、R507、R407C、R404A、refrigerants such as R134a and various refrigerant oil.

TECHNICAL PARAMETERS

Type	Nominal diameter	Size(mm)						
		φA	φB	L1	L	L2	H	φC
SGV-20Y-00	DN20	27	19	12	120	176	163	80
SGV-25Y-00	DN25	34	25	12	120	176	163	80
SGV-32Y-00	DN32	38	32	12	128	184	171	80
SGV-40Y-00	DN40	48.3	40	14	155	244	206	80
SGV-50Y-00	DN50	57	50	12.5	148	227	223	100
SGV-65Y-00	DN65	76	65	15.5	176	268	270	140
SGV-80Y-00	DN80	89	80	16.5	216	303	303	140
SGV-100Y-00	DN100	108	100	16	264	366	368	200
SGV-125Y-00	DN125	133	125	20	320	440	443	220
SGV-150Y-00	DN150	159	150	25	370	536	538	320
SGV-200Y-00	DN200	219	200	25	460	615	635	400

RIGHT ANGLE STOP VALVE SERIES

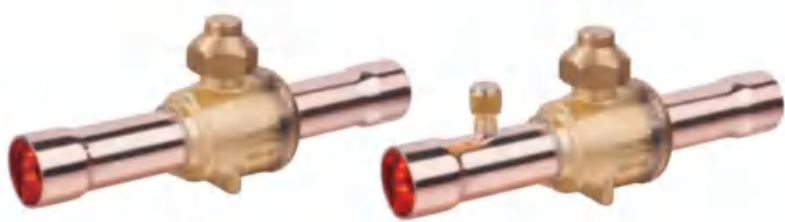
- Nominal Pressure: 4.0Mpa.
- Test Pressure: 6.0Mpa
- ApplicableTemperature:-46℃ ~+150℃ .
- Applicable Medium:R22、R507、R407C、R404A、refrigerants such as R134a and various refrigerant oil.

TECHNICAL PARAMETERS

Type	Nominal diameter	Size(mm)						
		φA	φB	L1	L	L2	H	φC
SGV-20Z-00	DN20	27	19	12	45	185	45	80
SGV-25Z-00	DN25	34	25	12	45	185	45	80
SGV-32Z-00	DN32	38	32	12	50	195	50	80
SGV-40Z-00	DN40	48.3	40	14	55	237	55	80
SGV-50Z-00	DN50	57	50	12.5	60	236	60	100
SGV-65Z-00	DN65	76	65	15.5	70	265	70	140
SGV-80Z-00	DN80	89	80	16.5	90	314	90	140
SGV-100Z-00	DN100	108	100	16	106	355	106	200
SGV-125Z-00	DN125	133	125	20	127	435	127	220
SGV-150Z-00	DN150	159	150	25	145	468	145	320
SGV-200Z-00	DN200	219	200	25	180	538	180	400

MODEL HBC BALL VALE

- Applicable Refrigerant: HCFC or HFC(Customer choice).
- Applicable Medium Temperature: -40~+120℃ .
- MAX.Working Pressure: 4.5MPa.
- MAX.Compression Pressure: 6.5MPa.
- Yearly Leakage of Refrigerant: ≤2g R22/a.



PRODUCT DESCRIPTION

- Model HBC ball valve is a manually regulated shut-off valve, which is applicable to two-direction flow.
- Model HBC ball valve is used on the liquid, air suction and hot vapor piping of the freezer,could store and air conditioning unit.
- The valve seat of Model HBc ball valve is well sealed with perfect sealing performance.
- Model HBC ball valve is a through-type ball valve with maximum flow rate and wide scope of operating temperature.
- Model HBC ball valve is equipped with a secondary sealing cap.

MODEL SELECTION

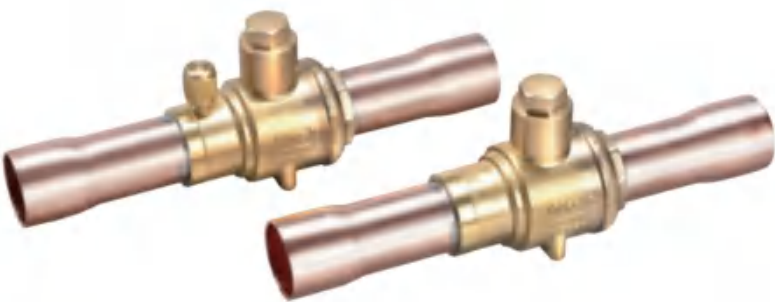
Model	Size	O.D.(mm)	Kv value(m³/h)	Model	Size	OD(mm)	Kv value(m³/h)
WBV - 6S	1/4(φ6)	φ10	2	HBC-28	1-1/8(φ28)	φ25	52.0
WBV - 10S	3/8(φ10)	φ10	5.7	HBC-35	1-3/8(φ35)	φ31	75
WBV - 12S	1/2(φ12)	φ10	5.7	HBC-42	1-5/8(φ42)	φ37	70
WBV - 10	3/8(φ10)	φ14	5.7	HBC-54	2-1/8(φ54)	φ50	70
WBV - 12	1/2(φ12)	φ14	10.6	HBC-67	2-5/8(φ67)	φ50	78
WBV - 16	5/8(φ16)	φ14	14.1	HBC-79	3-1/8(φ79)	φ50	78
WBV - 19	3/4(φ19)	φ16	20.4	HBC-67A	2-5/8(φ67)	φ60.5	72
WBV - 22	7/8(φ22)	φ19	28.2	HBC-79A	3-1/8(φ79)	φ73	72

OVERALL DIMENSION

Model	A	C	D	d	E	F	K	M	J	H	L
WBV - 6S	57	6	6.5	10	14	0	32.5	M4	20	44	110
WBV - 10S	65	8	10.1	10	14	0	32.5	M4	26	44	126
WBV - 12S	67	10	12.8	12	14	0	32.5	M4	26	44	130
WBV - 10	73	9	10.1	16	14.5	2	38	M4	30	50	138
WBV - 12	83	10	12.8	16	14.5	2	38	M4	30	50	159
WBV - 16	83	12	16.1	16	14.5	2	38	M4	30	50	159
WBV - 19	97	14	19.1	19	16.5	3	42	M4	36	58	185
WBV - 22	96	17	22.3	22	19	3	43	M4	36	58	185
WBV - 28	108	20	28.7	28	24	4	52.5	M4	44	66	208
WBV - 35	130	25	35.2	35	30	5	64	M6	44	80	251
WBV - 42	145	29	41.5	41.3	35	6	74	M6	56	87	281
WBV - 54	157	35	54.2	54	45.5	9	83.5	M6	56	106	305
WBV - 67	157	37	67	54	45.5	9	83.5	M6	63	106	305
WBV - 79	157	40	79.6	54	45.5	9	83.5	M6	63	106	305
WBV - 67A	171	37	67	66.8	54	16	94	M6	72	117	343
WBV - 79A	207	37	79.6	79.4	64	16	104	M6	80	117	413

MODEL QFT BALL VALVE

- MAX.Working Pressure: 650PSI/45BAR.
- Applicable medium workingtemperature: -40℃ ~+120℃ .
- Applicable Refrigerant: R22、R1343、R404A、R407C、R410A、R22,R1348、R404A,R407C、R410A, et.



PRODUCT DESCRIPTION

- Model QFT ball valve is a manually adjusted shut off valve, which is applicable to bidirectional flow, can be applied in the liquid, heating and hot gas pipelines of Refrigeration and A/C equipment. The special design of stem seal and valve ball seal with special sealing materials ensure the superior performance under common refrigerant working environment.

MODEL SELECTION

Model	Size	Model	Size
	I.D.(mm)		ID(mm)
WBVT - 6V/WBVT - 6	φ6.50 ^{+0.2} ₀	WBVT-10V/WBVT-10	φ10.10 ^{+0.2} ₀
WBVT - 12V/WBVT - 12	φ12.80 ^{+0.2} ₀	WBVT-16V/WBVT-16	φ16.10 ^{+0.2} ₀
WBVT - 19V/WBVT - 19	φ19.20 ^{+0.2} ₀	WBVT-22V/WBVT-22	φ22.30 ^{+0.2} ₀
WBVT - 28V/WBVT - 28	φ28.70 ^{+0.2} ₀	WBVT-35V/WBVT-35	φ35.20 ^{+0.2} ₀
WBVT - 42V/WBVT - 42	φ41.50 ^{+0.2} ₀	WBVT-54V/WBVT-54	φ54.20 ^{+0.2} ₀

DIMENSIONS

Model	Overall Dimension								
	D	L	E	H	A	B	C	M	S
WBVT - 6V/WBVT - 6	φ6.50 ^{+0.2} ₀	120	7	45.2	51.1	14	16	M4	S12
WBVT - 10V/WBVT - 10	φ10.10 ^{+0.2} ₀	140	9	45.2	60.9	14	16	M4	S12
WBVT - 12V/WBVT - 12	φ12.80 ^{+0.2} ₀	140	10	45.2	60.9	14	16	M4	S12
WBVT - 16V/WBVT - 16	φ16.10 ^{+0.2} ₀	159	14	53.3	70.8	17	16	M4	S14
WBVT - 19V/WBVT - 19	φ19.20 ^{+0.2} ₀	169	16	54.2	76.5	16.5	22	M4	S14
WBVT - 22V/WBVT - 22	φ22.30 ^{+0.2} ₀	186	17	57.0	86.5	18	24.8	M4	S14
WBVT - 28V/WBVT - 28	φ28.70 ^{+0.2} ₀	208	20	70.4	98.8	22	34	M4	S17
WBVT - 35V/WBVT - 35	φ35.20 ^{+0.2} ₀	251	25	80.4	119.2	27	38	M4	S17
WBVT - 42V/WBVT - 42	φ41.50 ^{+0.2} ₀	280	29	100.1	137.1	33	48	M6	S24
WBVT - 54V/WBVT - 54	φ54.20 ^{+0.2} ₀	305	34	115.2	150.6	40.5	62	M6	S24

MODEL SGN SIGHT GLASS

- Applicable Refrigerant: HCFC and HFC.
- Applicable Medium Temperature: -40℃ ~+80℃ .
- MAX.Working Pressure: 4.5MPa.
- MAX.Compression Pressure: 6.8MPa.
- Yearly Leakage of Refrigerant: ≤2g R22/a.



PRODUCT DESCRIPTION

- Both Model SGN sight glass is used on the liquid piping of the refrigeration and air conditioning unit to indicate the flow condition of the oil refrigerant, water cut of the refrigerant and lubricant oil flow condition of the oil return piping on the oil separator.
- Model SGN sight glass and is equipped with one moisture indicator, which will change color to indicate the water cut in the refrigerant.
- Model SGR sight glass is used to indicate the level of the refrigerant in the liquid drum and the lubricant oi level in the compressor crankcase.
- The modified PTFE sealing is used in bothModel SGN sight glass and Model SGR sight glass, which is applicable to various refrigerants and oils with perfect sealing performance. The structure of both Model SGN sight glass and Model SGR sight glass is an explosion-proof press fit and the viewing glass is clear and safety.

MODEL SELECTION

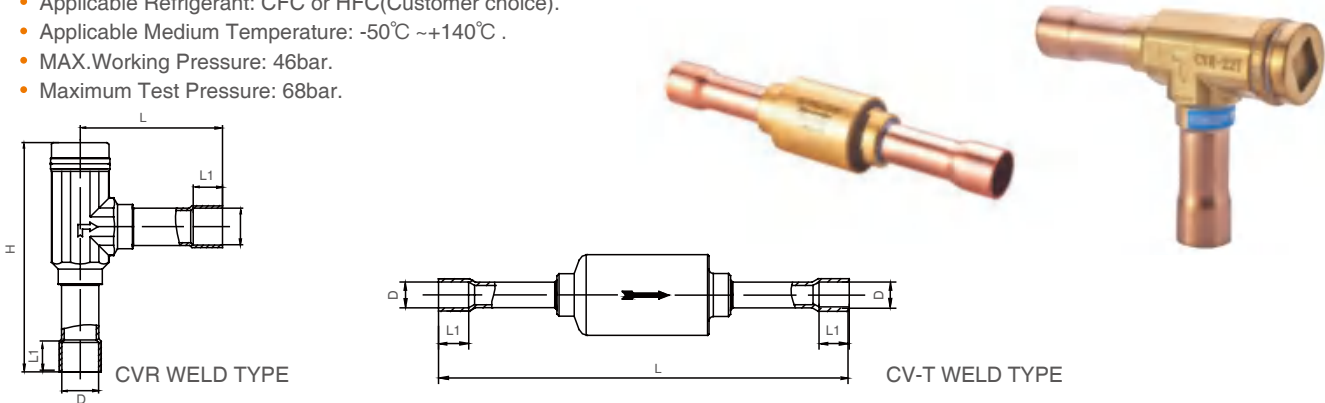
Model of Welded Connection	Size	Model of Welded Connection	Size
SGN - 1/4 ODF	1/4(φ6)	SGN-1/4SAE	1/4SAE
SGN - 3/8 ODF	3/8(φ10)	SGN-3/8SAE	3/8SAE
SGN - 1/2 ODF	1/2(φ12)	SGN-1/2SAE	1/2SAE
SGN - 5/8 ODF	5/8(φ16)	SGN-5/8SAE	5/8SAE
SGN - 3/4 ODF	3/4(φ19)	SGN-3/4SAE	3/4SAE
SGN - 7/8 ODF	7/8(φ22)	SGN-3/4NPT	3/4NPT
SGN - 1 1/8 ODF	1½ (φ28)	SGR-G3/4	G3/4

CORRELATION BETWEEN WATER CUT AND COLOR

Model	Water Cut(ppm)					
	25℃	25℃	25℃	43℃	43℃	43℃
	Green/DRY	Medium Color	Yellow/WET	Green/DRY	Medium Color	Yellow/WET
R22/R502	<30	30~120	>120	<50	50~200	>200
HFC - 134a	<30	30~100	>100	<45	45~170	>170
R404a	<20	20~70	>70	<25	25~100	>100
R407c	<30	30~140	>140	<60	60~225	>225
R507	<15	15~60	>60	<30	30~110	>110

CHECK VALVE/SHUT OFF VALVE

- Applicable Refrigerant: CFC or HFC(Customer choice).
- Applicable Medium Temperature: -50℃ ~+140℃ .
- MAX.Working Pressure: 46bar.
- Maximum Test Pressure: 68bar.



PRODUCT DESCRIPTION

- Model CV check valve is used on the piping of liquid, suction gas or hot air on the freezing, cold storage and air conditioner units.
- The valve seat and seals of Model CV check valve have excellent sealing performance.
- For Model CV check valve, both threaded and welded connections are available.

MODEL SELECTION

Model	Type	Spes		I.D.(mm)	KV(M³/h)
		Flare	Welded		
CV - 6	Direct type	1/4 SAE	/	4.8	0.56
CV - 6T	Direct type	/	1/4 ODF	4.8	0.56
CV - 10	Direct type	3/8 SAE	/	8	1.43
CV - 10GT	Direct type	/	φ10 ODF	8	1.43
CV - 12	Direct type	1/2 SAE	/	10	2.05
CV - 12T	Direct type	/	1/2 ODF	10	2.05
CV - 16	Direct type	5/8 SAE	/	13	3.60
CV - 16T	Direct type	/	5/8 ODF	13	3.60
CV - 19	Direct type	3/4 SAE	/	16	5.50
CV - 19T	Direct type	/	3/4 ODF	16	5.50
CVR - 22	Right angle type	/	7/8 ODF	19	8.50
CVRH - 28	Right angle type	/	1-1/8 ODF	26	19.0
CVRH - 35	Right angle type	/	1-3/8 ODF	31	29.0
CVRH - 42	Right angle type	/	1-5/8 ODF	31	30.0

OVERALL DIMENSION

Model	L	M	L1	S	Model	L	M	L1	S
CV - 6	58	7/16-20UNF	14	19	CV-10	62	5/8-18UNF	16	21
CV - 12	68	3/4-16UNF	18	24	CV-16	78	7/8-17UNF	21	27
CV - 19	90	1-1/16-14UNF	24	32	/	/	/	/	/
	L	D	L	/	/	L	D	L	/
CV - 6T	95	φ6.5 ^{±0.15}	7	/	CV-10GT	109	φ10.1 ^{±0.15}	8	/
CV - 12T	119	φ12.8 ^{±0.15}	10	/	CV-16T	138	φ16.1 ^{±0.15}	14	/
CV - 19T	150	φ19.2 ^{±0.15}	16	/	/	/	/	/	/
	L	D	L1	H	/	L	D	L1	H
CVR - 22	58	φ22.3 ^{±0.15}	17	136.5	CVRH-28	62	φ28.7 ^{±0.15}	20	184
CVRH - 35	68	φ35.2 ^{±0.15}	25	197	CVRH-42	78	φ41.5 ^{±0.15}	29	197

MODEL DIAPHRAGM HAND VALVE

- Applicable Refrigerant: HCFC and HFC.
- Applicable Medium Temperature: -25℃ ~+100℃ .
- MAX.Working Pressure: 3.0MPa.
- Scope of Operating Pressure: -0.1MPa~2.1MPa.
- Maximum Hydrostatic Test Pressure: 4.5MPa.



PRODUCT DESCRIPTION

- Model hand valve is a manually operated diaphragm stop valve for one-way flow control.
- Model hand valve is mounted on the liquid, air suction and hot air piping in the refrigeration, cold storage and air conditioner.
- Two types of connection are available for Model KM hand valve, that is, threaded connection (SAE) with threading size 1/4 SAE to 3/4 SAE and welded connectionboth ODF structure hand valves have connection size 1/4" to 7/8".
- All Model KM hand valves are equipped with mounting hole for the installation on the i nstrument panel.

MODEL SELECTION

Model	Flare	Welded(with copper tube)	Kv(m³/h)
WLV-1/4	1/4 SAE	1/4 ODF	0.28
WLV-3/8	3/8 SAE	3/8 ODF	0.30
WLV-1/2	1/2 SAE	1/2 ODF	1.30
WLV-5/8	5/8 SAE	5/8 ODF	1.80
WLV-3/4	3/4 SAE	3/4 ODF	3.65
WLV-7/8	—	7/8 ODF	3.65

OVERALL DIMENSION

Model	A	B	C	φD	E	(F)	φG	φI	S	N	Thread M
1/4 SAE	28.5	—	36	—	14	53	φ4.5	φ53	S18	S17	7/16-20UNF
1/4 ODF	51	7		6.5						—	—
3/8 SAE	31	—		—						S22	5/8-18UNF
3/8 ODF	59	8	38	9.7	19	57	φ5	φ53	S22	—	—
1/2 SAE	39	—		—						S24	3/4-16UNF
1/4 ODF	66	10		12.8						—	—
3/8 SAE	39	—	50	—	24	64	φ6	φ60	S27	S27	7/8-14UNF
3/8 ODF	74	14		16.1						—	—
1/2 SAE	50	—		—						S32	1-1/16-14UNS
1/4 ODF	80	16	50	19.1	24	64	φ6	φ60	S27	—	—
3/8 SAE	80	17		22.3						—	—

SOLENOID VALVE



PRODUCT DESCRIPTION

- MOF-type scienceno id value direct - act ing the or se nesday.
- valve can be used for flooride liquid refrigerant pipes. suction pipes.
- For some reason need to replace the solenaid valve con.

MODEL SELECTION

Model	Thread	Apperance Size(mm)					
		H1	H2	H3	11	L2	Q
WLF20-2	7/16"-20UNF	75	62.5	34	58	50	45.5
WLF20-25	/				125		
WLF64-3	5/8"-18UNF				68		
WLF64-35	/	82	69.5	40	111		
WLF64-4	3/4"-16UNF				72		
WLF64-45	/				127		
WLF70-4	3/4"-16UNF	91	75	47	100		
WLF70-45	/				127		
WLF70-5	7/8"-14UNF				106		
WLF70-58	/				175		
WLF70-65	/				180		
WLF98-65	/	106	78	50	175	57	57
WLF98-7S	/				80		

OVERALL DIMENSION

Model	Connection Dimension			Valve Port Diameterφ [mm]	Kv Value [m³/h]	Action From	Valve Opening Pressure Differential			Nominal Cooling Capacity			Media Types	Environment Temperature					
	SAE Flare	ODS					Min.	Max		R22	R404a R502	R134a							
		φ[in.]	φ[mm]					A.C.	D.C.										
WLF20 - 2	1/4°	/	/	22	0.175	straight -action	0	30	26	3.15	2.08	2.95	CFC HCFC HFC Air Water and Oil	-25~120					
WLF20 - 25	/	1/4°	/	22	0.175														
WLF64 - 3	3/8°	/	/	7	0.80	Deption	0.05	0.05	17	14.4	9.5	13.5							
WLF64 - 35	/	3/8°	/																
WLF64 - 4	1/2°	/	/																
WLF64 - 45	/	35°	/	12.5	220				39.6	26.2	37.1								
WLF70 - 4	1/2°	/	/																
WLF70 - 45	/	1/2°	/																
WLF70 - 5	5/8°	/	/																
WLF70 - 55	/	5/8°	/																
WLF78 - 65	/	3/4°	/	12.8	2.80				47	31.1	44								
WLF98 - 65	/	3/4°	/																
WLF98 - 65	/	3/4°	/									16.5			4.8	13	86.4	57.1	80.9
WLF98 - 7S	/	7/8°	/																

NEW MODEL SOLENOID VALVE



PRODUCT DESCRIPTION

- Coil can be connected with the plug-in connector, this connector configuration three lines, is extremely convenient;
- For welding to connect the extended takeover is easy to install and does not require disassembly welding-type valve
- The new fixation system 100% guaranteed HLF diaphragm solenoid valve can still work in harsh environment;
- Coil is designed in line with CE161-1 standard, even under extreme conditions of work.
- Coil with moisture-proof insulation material, with a waterproof and shockproof functions
- In the medium without pressure circumstances, the valve can be a normal work.

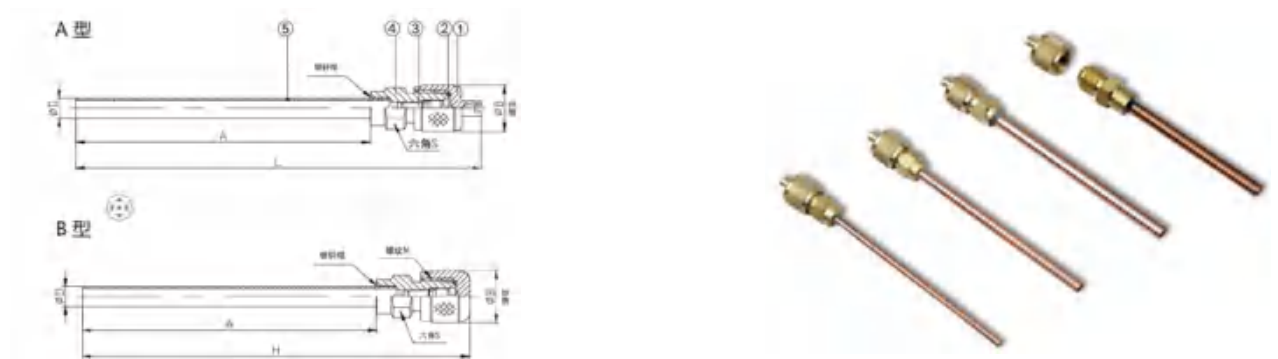
MODEL SELECTION

Model	Thread	Apperance Size(mm)						
		H1	H2	H3	L1	L2	Q	
WLF20 - 2N	7/16"-20UNF	80	67.5	39	58	50	/	
WLF20 - 2NS	/				125			
WLF64 - 3N	5/8°-18UNF	87	74.5	45	68			45.5
WLF64 - 3NS	/				111			
WLF64 - 4N	3/4°-16UNF				72			
WLF64 - 4NS	/				127			
WLF70 - 4N	3/4°-16UNF	96	80	52	100	50		
WLF70 - 4NS	/				127			
WLF70 - 5N	7/8°-14UNF				106			
WLF70 - 5NS	/				175			
WLF78 - 8NS					180		62	
WLF99 - 6N	M27°2	115	92	72	128			
WLF98 - 6NS	/	106	83		215			
WLF99 - 7N	M30°2	115	92	72	128			
WLF98 - 7NS	/	106	83	55	216			
WLF99 - 8NS		115	92	72				
WLF99 - 9NS								

OVERALL DIMENSION

Model	Connection Dimension			Valve Port Diameterφ [mm]	Kv Value [m³/h]	Action From	Valve Opening Pressure Differential			Nominal Cooling Capacity			Media Types	Environment Temperature					
	SAE Flare	ODS					Min.	Max		R22	R404a R502	R134a							
		φ[in.]	φ[mm]					A.C.	D.C.										
WLF20 - 2N	1/4°	/	/	2.2	0.175	straight -action	0				3.15	2.08	2.95						
WLF20 - 2NS	/	1/4°	/	22	0.175														
WLF64 - 3N	3/8°	/	/	7	0.80	Deption	0.05	21	17				CFC HCFC HFC	-25~120					
WLF64 - 3NS	/	3/8°	/																
WLF64 - 4N	1/2°	/	/																
WLF64 - 4NS	/	1/2°	/																
WLF70 - 4N	1/2°	/	/																
WLF70 - 4NS	/	1/2°	/	12.5	2.20					39.6	26.2	37.1							
WLF70 - 5N	5/8°	/	/																
WLF70 - SNS	/	5/8°	16																
WLF78 - 6NS	/	3/4°	19							12.8	2.80	49.3			32.6	46.1			
WLF99 - 6N	M27°2	/	/							17.5	4.8	86.4			57.1	80.9			
WLF98 - 6NS	/	3/4°	19	16.5	4.8					102.6	67.8	96.0							
WLF99 - 7N	M30°2	/	/	19	5.7														
WLF98 - 7NS	/	7/8°	22	16.5	5.7														
WLF99 - 8NS	/	1°	25	23	6.5					149.2	98.6	139.7							
WLF99 - 9NS	/	1.1/8°	28																

CHARGING VALVE



Type	Connection	Size	Overall Dimension					Hexagonal s	Thread M	Weight(g)
			A	B	φD	H	L			
Type A	1/4SAE	1/8	60	14	3.17	/	94	11	7/16-20UNF	22
	1/4SAE	3/16	60	14	4.67	/	94	11	7/16-20UNF	23
	1/4SAE	1/4	90	14	6.35	/	124	11	7/16-20UNF	28
Type B	1/4SAE	1/4	90	14	6.35	118	/	12	7/16-20UNF	30
	1/2SAE	1/4	90	16	6.35	118	/	14	1/2-20UNF	39
	1/2SAE	1/4	90	16	6.35	118	/	14	1/2-20UNF	40

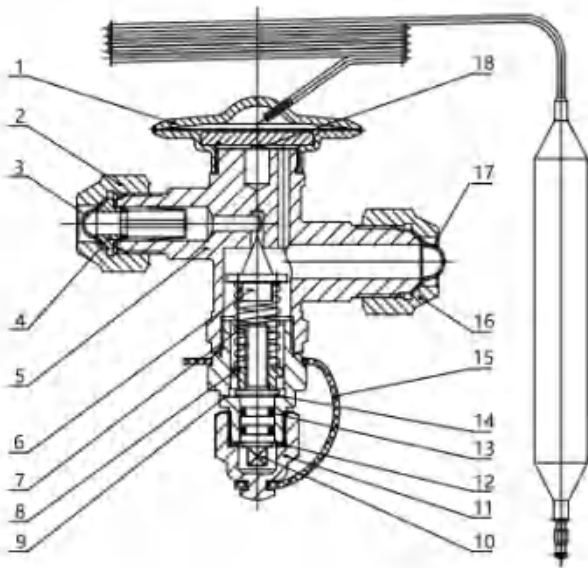
ERF ERFW

THERMOSTATIC EXPANSION VALVE

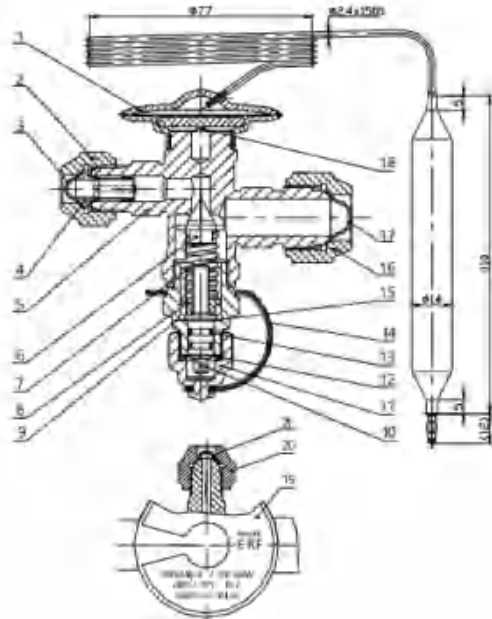


PRODUCT DESCRIPTION

- The big power head structure with perfect linear performance has a stable adjustment on the degree csuperheat.
- New structure has large scope of evaporation temperature and big work amplitude under low temperature.
- With proprietary technology, the diaphragm movement hysteresis <0.5k and the valve has good stability.
- The bonnet features fool-proofing design to prevent loss and ensure the reliability of sealing.
- Model ERF/ERFW thermal expansion valve are used to adjust the liquid refrigerant supply volume to the evaporator and they are suitable to varioants refrigerants and different charging condition. It meets the requirements of the cold storage facility, ice maker and dehumidifier as well as the refrigeration and air conditioning requiments under varied evaporation temperatur.



- 1 Power element 2 Nut 3 Seal cap 4 Filting component 5 Valve body
6 Value element 7 Adjusting spring 8 Adjusting nut 9 Adjusting seat
10 Valve stem 11 Bonnet 12 Seal ring 13 O-ring 14 Gasket
15 Security belt 16 Adjusting nut 17 Seal cap 18 Drive pin

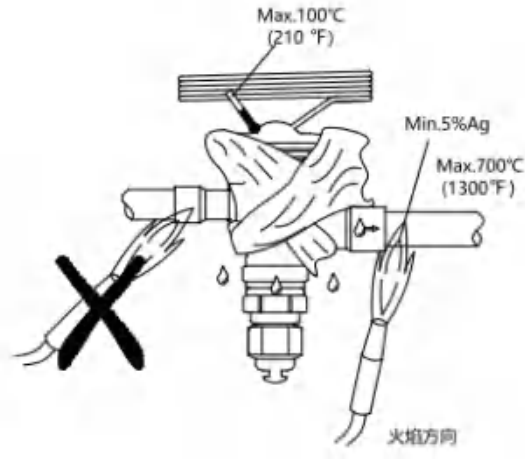
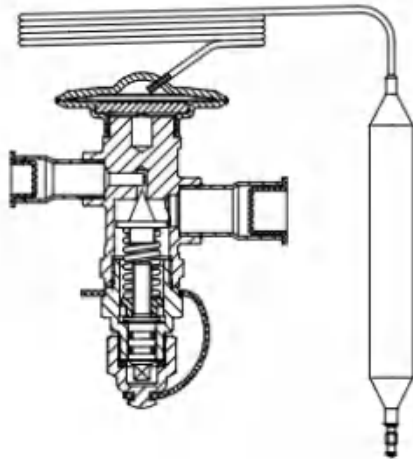


- 1 Power element 2 Nut 3 Seal cap 4 Filting component 5 Valve body
6 Value element 7 Adjusting spring 8 Adjusting nut 9 Adjusting seat
10 Valve stem 11 Bonnet 12 Seal ring 13 O-ring 14 Security belt
15 Gasket 16 Nut 17 Seal cap 18 Drive pin
19 Label 20 Nut 21 Seal cap

TECHNICAL PARAMETERS

Refrigerant	Model	Pressure Equalisation	Thread Connection Size		
			inlet(inch)	outlet(inch)	External Equaliser
R404A	FRF404W-4-4-5	External Equalisation	1/2" ODF	5/8" ODF	1/4" ODF
	FRF404W-5-5-7		5/8" ODF	7/8" ODF	
	FRF404W-7.5-5-7		5/8" ODF	7/8" ODF	
	FRF404W-9-5-7		5/8" ODF	7/8" ODF	
	FRF404W-11-5-9		5/8" ODF	1-1/8" ODF	
	FRF404W-13-7-9		7/8" ODF	1-1/8" ODF	
	FRF404W-18-7-11		7/8" ODF	1-3/8" ODF	
	FRF404W-21-7-11		7/8" ODF	1-3/8" ODF	
	FRF404W-26-9-11		1-1/8" ODF	1-3/8" ODF	
R410A	FRF410W-3.5-3-5		3/8" ODF	5/8" ODF	
	FRF410W-4.5-4-7		1/2" ODF	7/8" ODF	
	FRF410W-6.5-4-7		1/2" ODF	7/8" ODF	
	FRF410W-9-5-7		5/8" ODF	7/8" ODF	
	FRF410W-13-5-7		5/8" ODF	7/8" ODF	
	FRF410W-15-5-7		5/8" ODF	7/8" ODF	
	FRF410W-19-5-9		5/8" ODF	1-1/8" ODF	
	FRF410W-23-7-9		7/8" ODF	1-1/8" ODF	
	FRF410W-31-7-11		7/8" ODF	1-3/8" ODF	
	FRF410W-35-7-11		7/8" ODF	1-3/8" ODF	
	FRF410W-46-9-11		1-1/8" ODF	1-3/8" ODF	
R407C	FRF407C-3.5-4-7		1/2" ODF	7/8" ODF	
	FRF407C-5-4-7		1/2" ODF	7/8" ODF	
	FRF407C-7-5-7		5/8" ODF	7/8" ODF	
	FRF407C-10-5-7		5/8" ODF	7/8" ODF	
	FRF407C-12-5-9		5/8" ODF	1-1/8" ODF	
	FRF407C-15-7-9		7/8" ODF	1-1/8" ODF	
	FRF407C-18-7-11		7/8" ODF	1-3/8" ODF	

- Working Condition of Nominal Refrigerating Capacity: Evaporation Temperature: + 5°C;Condensation Temperature:+40°C; Superheat:3.5°C;Subcooling:2°C



TECHNICAL PARAMETERS

Refrigerant	Model	Pressure Equalisation	Thread(Connection Size)						Nominal Refrigerating Capacity		
			Inlet		Outlet		External Equaliser				
			metric	inch	metric	inch	metric	inch	TR	KW	Kcal/h
R22/R407C	ERF22-φ1.0	Internal Equalisation (flare)	M16X1.5	/	M18X1.5	/	/	/	1.0	3.5	3024
	ERF22-φ1.5								1.6	5.6	4840
	ERF22-φ2.0								2.0	7.0	6048
	ERF22-φ2.5								2.5	8.8	7560
	ERF22-φ3.0				3.0	10.5			9072		
	ERF22-φ4.0				5.0	17.6			15120		
	ERF22-φ5.0		M22X1.5	/	6.0	21.0			18144		
	ERF22-φ6.0				7.5	26.0			22680		
	ERF22-φ7.0		8.5	29.9	25704						
	ERF22-φ8.0		M18X1.5	/	12.0	42.2			36288		
	ERF22-φ9.0				15.0	52.7			45360		
R134a	ERF134-φ1.0		M16X1.5	/	M18X1.5	/	/	/	0.5	1.75	1510
	ERF134-φ1.5								0.7	2.5	2116
	ERF134-φ2.0								1.5	5.2	4500
	ERF134-φ2.5								1.6	5.6	4838
	ERF134-φ3.0				2.0	7.0			6048		
	ERF134-φ4.0				3.0	10.5			9072		
	ERF134-φ5.0		M22x1.5	/	5.0	17.6			15120		
	ERF134-φ7.0				6.5	22.9			19656		
	ERF134-φ9.0		M18X1.5	/	M22x1.5	/			11.0	38.7	33264
R22/R407C	ERF22W-φ1.0	Interna Equalisation	/	3/8 SAE	1/2 SAE	/	/	1.0	3.5	3024	
	ERF22W-φ1.5							1.6	5.6	4840	
	ERF22W-φ2.0							2.0	7.0	6048	
	ERF22W-φ2.5							2.5	8.8	7560	
	ERF22W-φ3.0							3.0	10.5	9072	
	ERF22W-φ4.0							5.0	17.6	15120	
	ERF22W-φ5.0			1/2 SAE	5/8 SAE			6.0	21.0	18144	
	ERF22W-φ6.0							7.5	26.5	22680	
	ERF22W-φ7.0							8.5	29.9	25704	
	ERF22W-φ8.0			/	/			12.0	42.2	36288	
	ERF22W-φ9.0							15.0	52.7	45360	
R134a	ERF134W-φ1.0		3/8 SAE	1/2 SAE	/	/	0.5	1.75	1510		
	ERF134W-φ1.5						0.7	2.5	2116		
	ERF134W-φ2.0						1.5	5.2	4500		
	ERF134W-φ2.5						1.6	5.6	4838		
	ERF134W-φ3.0						2.0	7.0	6048		
	ERF134W-φ4.0						3.0	10.5	9072		
	ERF134W-φ5.0		1/2 SAE	5/8 SAE			5.0	17.6	15120		
	ERF134W-φ7.0						6.5	22.9	19656		
	ERF134W-φ9.0						11.0	38.7	33264		
● Working Condition of Nominal Refrigerating Capacity: Evaporation Temperature te = + 5°C; Condensation Temperature tK = +40°C; Degree of Superheat 2°C											

SPLIT VALVE



PRODUCT DESCRIPTION

- The split valve can be used in a split-type air conditioner with R22, R407C, R134a, R410A as the refrigerant, to connect indoor and outdoor units. Flow can be started by turning the valve counter-clockwise using the valve rod. Flow of refrigerant is stopped by turning the valve rod and valve clockwise. The valve can be also used to vacuumize and add cooling agent.

MODEL SELECTION

specification	Valve diameter(mm)	Connector thread(in)	Over size(mm)	Matching power(HP)	Applicable refrigerant	Maximum working pressure(MPa)	Temperature(℃)
FJ4	φ5	7/16-20UNF	φ6.35	1~2	R22 R407C R410A R134a	4.2MPa	-30℃ ~+80℃
FJ8	φ8	5/8-18UNF	φ9.52	1~5			
FJ10	φ9.8	3/4-16UNF	φ12.7	1.5~10			
FJ13	φ12.5	7/8-14UNF	φ16	2~12			
FJ16	φ16	17/16-14UNF	φ19	5~8			

PIPE - TYPE TWO - WAY THROTTLE VALVE



Type	Project	Specification
Bi-tube throttle	Spool diameter	/
	Throttle body(brass)OD	Φ12mm,Φ17mm,Φ9.52mm
	Inlet and outlet diameter port size	Φ9.52mm
	Standard Length	128mm,115mm

AC SPLIT VALVE



PRODUCT DESCRIPTION

- The split valve can be used in split-type air conditioner with R22,R407C, R134a, R410A as refrigerant,to connect indoor and outdoor units. A valve rod will be used to open and close the valve to control Flow. The valve can be also used to vacuumize and add cooling agent.
- Turn the valve clockwise to close and turn counter-clockwise to open the flow of refrigerant.

MODEL SELECTION

specification	Valve diameter(mm)	Connector thread(in)	Over size(mm)	Matching power(HP)	Applicable refrigerant	Maximum working pressure(MPa)	Temperature(℃)
FJ4	φ5	7/16-20UNF	φ6.35	1~2	R22 R407C R410A R134a	4.2MPa	-50℃ ~120℃
FJ8	φ8	5/8-18UNF	φ9.52	1~5			
FJ10	φ9.8	3/4-16UNF	φ12.7	1.5~10			
FJ13	φ12.5	7/8-14UNF	φ16	2~12			
FJ16	φ16	17/16-14UNF	φ19	5~8			

4 WAY REVERSING VALVE

- WIDE APPLICATION RANGE
- SUITABLE FOR COOLING CAPACITIES FROM 3 TO 420KW(0.9~120 TON)



PRODUCT DESCRIPTION

- SHF series four-way reversing valves are applicable for heat pump systems such as central, unitary and room air conditioners to realize switching between cooling mode and heating mode by changing the flow path of refrigerant.

GENERAL SPECIFICATIONS

- Applicable for all common HCFC, HFC, HFO and HC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507, R1234yf, R1234ze(E), R32, R290
- Ambient temperature min./max.: -30℃ / +55℃
- Relative humidity: 0 to 95% RH
- Max. operating pressure: 4.2MPa (42 bar)
- Installation position:
 - Coil upwards or with body axis in horizontal alignment
 - Flow direction according to installation instruction
- Certifications: UL/CUL, VDE, CQC and declaration according to LVD or PED

Valve series	Valve Model	Fixed/ Inverter AC	Connections ODF		OPD		Medium temperature	
			ØD [inch]	ØE/S/C [inch]	[MPa] [inch]	[MPa] [inch]	[°C]	
SHF 3	SHF-3H-12U-P-A		General	1/4	5/16	3.1	0.1	-30/+120
SHF4	SHF-4H-23U-P-A		General	5/16	3/8	3.1	0.1	-30/+120
SHF 7	SHF-7H-34U-P-A		General	3/8	1/2	3.1	0.1	-30/+120
SHF 11	SHF(L)-11H-45D1-L2		General	1/2	5/8	3.1	0.1	-30/+120
SHF14	SHF-14A-46		General	1/2	3/4	3.1	0.3	-30/+120
SHF 20	SHF-20D-46-01	Fixed		1/2	3/4	3.1	0.3	-30/+130
SHF 20	SHF-20D-46-02	Inverter		1/2	3/4	3.1	0.3	-30/+130
SHF 20	SHF-20D-46-03	Fixed		1/2	3/4	3.1	0.3	-30/+120
SHF 20	SHF-20D-46-04	Inverter		1/2	3/4	3.1	0.3	-30/+120
SHF35	SHF-35B-67-01	Fixed		3/4	7/8	3.1	0.3	-30/+130
SHF 35	SHF-35B-67-04	Inverter		3/4	7/8	3.1	0.3	-30/+130
SHF 35	SHF-35B-67-05	Fixed		3/4	7/8	3.1	0.3	-30/+120
SHF35	SHF-35B-67-06	Inverter		3/4	7/8	3.1	0.3	-30/+120
SHF 50	SHF-50-79-03	Fixed		7/8	1-1/8	3.1	0.3	-30/+130
SHF 50	SHF-50-79-04	Inverter		7/8	1-1/8	3.1	0.3	-30/+130
SHF70	SHF(L)-70-810-30	Fixed		1	1-1/4	3.1	0.3	-30/+130
SHF70	SHF(L)-70-810-20	Inverter		1	1-1/4	3.1	0.3	-30/+130
SHF100	SHF(L)-100-1012	General		1-1/4	1-1/2	3.1	0.3	-30/+130
SHF140	SHF(L)-140-1214	General		1-1/2	1-3/4	3.1	0.3	-30/+130
SHF175	SHF(L)-175-1217	General		1-1/2	2-1/8	3.1	0.3	-30/+130
SHF210	SHF(L)-210-1321	General		1-5/8	2-5/8	3.1	0.3	-30/+130
SHF350	SHF(L)-350-1721	General		2-1/8	2-5/8	3.1	0.3	-30/+130
SHF420	SHF(L)-420-2125	General		2-5/8	3-1/8	3.1	0.3	-30/+130

4 WAY REVERSING VALVE



COIL CHARACTERISTICS

Valve series	Valve Model	Connection Type	Cable Length [inch]	Power		Protection Class	Insulation Class	Max. Op.Temp. [°C]	Coil Model
	[V]			Consumption [W]	[MPa] [W]				
SHF-4-10L3	AC220 ~ 240	Lead Wires	500	4.5/3.5	-	IP54	B	130	SQ-A3722G-000001
SHF-4-10L4	AC110 ~ 120	Lead Wires	500	4.5/3.5	-	IP54	B	130	SQ-A2511A-001020
SHF-4-10L5	AC24	Lead Wires	500	4.5/3.5	-	IP54	B	130	SQ-A25024-001040
SHF-4-10L3	AC220 ~ 240	Lead Wires	1500	4.5/3.5	-	IP54	B	130	SQ-A3722G-000057
SHF-4-10L4	AC110 ~ 120	Lead Wires	1500	4.5/3.5	-	IP54	B	130	SQ-A2511A-005052
SHF-4-10L5	AC24	Lead Wires	1500	4.5/3.5	-	IP54	B	130	SQ-A25024-001046
SHF-4-10FA8	DC12	Spade	-	-	10	IP00	F	155	SQ-D44012-000001
SHF-4-10FA9	DC24	Spade	-	-	10	IP00	F	155	SQ-D44024-000001

CAPACITY SELECTION TABLE

Valve series	Nominal Cooling Capacity (condition 1)									
	R22		R134a		R407C		R410A		R32	
	Δ P: 0.1bar [kW]	Δ P: 0.2bar [kW]	Δ P: 0.1bar [kW]	Δ P: 0.2bar [kW]	Δ P: 0.1bar [kW]	Δ P: 0.2bar [kW]	Δ P: 0.1bar [kW]	Δ P: 0.2bar [kW]	Δ P: 0.1bar [kW]	Δ P: 0.2bar [kW]
SHF3	3.1	4.4	2.4	3.4	2.9	4.1	3.8	5.3	4.9	6.9
SHF4	3.5	5	2.7	3.9	3.3	4.7	4.3	6.1	5.5	7.8
SHF7	6.4	9.1	5	7	6.1	8.6	7.8	11.1	10.1	14.2
SHF11	10	14.1	7.7	10.9	9.4	13.3	12.1	17.1	15.6	22.1
SHF14	14.6	20.7	11.3	15.9	13.8	19.5	17.8	25.2	22.9	32.4
SHF20	21.9	31	16.9	23.9	20.7	29.3	26.7	37.7	34.3	48.6
SHF35	32.5	46	25.1	35.5	30.7	43.5	39.6	56	51	72.1
SHF50	41.8	59.2	32.3	45.6	39.5	55.9	50.9	72	65.6	92.7
SHF70	63.1	89.2	48.7	68.8	59.6	84.3	76.8	108.6	98.9	139.8
SHF100	89.6	126.8	69.1	97.8	84.7	119.7	109.1	154.3	140.5	198.7
SHF140	129.3	182.8	99.7	141	122.1	172.7	157.4	222.6	202.6	286.5
SHF175	156.1	220.7	120.4	170.2	147.4	208.4	190	268.7	244.5	345.8
SHF210	186.8	264.2	144.1	203.8	176.4	249.5	227.4	321.7	292.8	414
SHF350	306.4	433.2	236.3	334.2	289.3	409.2	373	527.4	480.1	678.9
SHF420	391.8	554.1	302.2	427.4	370	523.3	477	674.6	613.9	868.3

4 WAY REVERSING VALVE



CAPACITY SELECTION TABLE

Valve series	Nominal Cooling Capacity (condition 2)									
	R22		R134a		R407C		R410A		R32	
	Δ P: 0.1bar [kW]	Δ P: 0.2bar [kW]	Δ P: 0.1bar [kW]	Δ P: 0.2bar [kW]	Δ P: 0.1bar [kW]	Δ P: 0.2bar [kW]	Δ P: 0.1bar [kW]	Δ P: 0.2bar [kW]	Δ P: 0.1bar [kW]	Δ P: 0.2bar [kW]
SHF3	2.9	4.1	2.2	3.1	2.7	3.8	3.4	4.8	4.6	6.4
SHF4	3.3	4.7	2.5	3.6	3.1	4.4	3.9	5.5	5.2	7.4
SHF7	6.1	8.6	4.6	6.5	5.6	7.9	7.1	10	9.4	13.3
SHF11	9.4	13.3	7.1	10.1	8.7	12.3	11	15.6	14.6	20.7
SHF14	13.8	19.5	10.5	14.8	12.7	18	16.1	22.8	21.5	30.4
SHF20	20.7	29.2	15.7	22.2	19.1	27	24.2	34.2	32.2	45.5
SHF35	30.7	43.4	23.4	33	28.4	40.1	36	50.9	47.8	67.6
SHF50	39.4	55.8	30	42.5	36.5	51.6	46.2	65.4	61.5	86.9
SHF70	59.5	84.1	45.3	64	55	77.8	69.7	98.6	92.7	131.1
SHF100	84.5	119.6	64.3	91	78.1	110.5	99.1	140.1	131.7	186.3
SHF140	121.9	172.4	92.8	131.2	112.7	159.3	142.9	202	190	268.7
SHF175	147.2	208.1	112	158.4	136	192.3	172.5	243.9	229.3	324.3
SHF210	176.2	249.1	134.1	189.6	162.8	230.3	206.5	292	274.5	388.3
SHF350	288.9	408.5	219.9	311	267	377.6	338.6	478.8	450.2	636.7
SHF420	369.4	522.5	281.2	397.7	341.5	482.9	433	612.3	575.8	814.2
Note	ΔP represents the pressure drop from ØC to ØS or from ØE to ØS; The selection capacity of the four-way valve for R32 systems should be ≥60%. It is not recommended to use the four-way valve in systems with a capacity less than 60% of the nominal capacity. When used in R32 systems, it is essential to ensure the reliability of low-pressure commutation under extreme conditions.									

Item No.	Nominal Operating Conditions	Condition 1	Condition 2
	Condensing Temperature tc	38°C	54.4°C
	Evaporating Temperature to	5°C	7.2°C
	Superheat Δtsc	5K	5K
	Subcooling Δtsr	369.4	814.2

STAINLESS STEEL 4 WAY REVERSING VALVE



PRODUCT DESCRIPTION

- SHF series four-way reversing valves are applicable for heat pump systems such as commercial and room air conditioners realize switching cooling mode, deforsting mode and heating mode by changing the flow path of refrigerant.

FEATURES

- ALL STAINLESS STEEL VALVE BODY AND CONNECTION BODY, HIGH COMPRESSIVE STRENGTH AND BETTER VIBRATION RESISTANCE
- LESS HEAT LOSS THAN COPPER VALVE, HIGH EFFICIENCY AND ENERGY SAVING
- THE TOP OF CONNECTION END IS DESIGNED AS A COPPER JOINT, WHICH IS CONVENIENT FOR WELDING AND INSTALLATION
- SUITABLE FOR COOLING CAPACITIES FROM 4.6kW TO 77.2 kW (R410A, CONDITION 1)

GENERAL SPECIFICATIONS	•Applicable for all common HCFC, HFC, HFO and HC refrigerants such as: R22, R134a, R404A, R407C, R410A, R507, R1234yf, R1234ze(E), R32, R290, etc.						
	•Ambient temperature min./max.: - SHF 4G/7G/13G: -30°~+120° - SHF20GR/20G/35G/50G/70G: -30°C~+130°C • Ambient temperature min/max: -30°C~+55°C • Relative humidity: 0 to 95% RH • Max. operating pressure: 4.2MPa (42bar) • Certifications: CQC • Installation position: - Coil upwards or with body axis in horizontal alignment - Flow direction according to installation instruction						

TECHNICAL PARAMETERS

Valve series	Fixed/ Inverter AC	Connections ODF		Max. Op. Pressure [MPa]	OPD		Medium temperature [°C]	Valve Model
		ØD [inch]	ØE/S/C [inch]		Max. [MPa]	Min. [MPa]		
SHF4G	General	1/4	3/8	4.2	3.1	0.25	-30/+120	SHF(G)-4H-23U-A
SHF7G	General	3/8	1/2	4.2	3.1	0.25	-30/+120	SHF(G)-7H-34U-A
SHF13G	General	1/2	5/8	4.2	3.1	0.25	-30/+120	SHF(G)-13H-45
SHF20G	Fixed	1/2	3/4	4.2	3.1	0.3	-30/+130	SHF-20D-46G31
SHF20G	Inverter	1/2	3/4	4.2	3.1	0.3	-30/+130	SHF-20D-46G30
SHF35G	Fixed	3/4	7/8	4.2	3.1	0.3	-30/+130	SHF-35B-67G31
SHF35G	Inverter	3/4	7/8	4.2	3.1	0.3	-30/+130	SHF-35B-67G30
SHF35G	Fixed	7/8	1-1/8	4.2	3.1	0.3	-30/+130	SHF-35B-79G31
SHF35G	Inverter	7/8	1-1/8	4.2	3.1	0.3	-30/+130	SHF-35B-79G30
SHF50G	Fixed	7/8	1-1/8	4.2	3.1	0.3	-30/+130	SHF-50-79G31
SHF50G	Inverter	7/8	1-1/8	4.2	3.1	0.3	-30/+130	SHF-50-79G30
SHF70G	Fixed	1	1-1/4	4.2	3.1	0.3	-30/+130	SHF(L)-70-810G33
SHF70G	Inverter	1	1-1/4	4.2	3.1	0.3	-30/+130	SHF(L)-70-810G32

Valve series	Dimensions & Weight					Weight [kg]
	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	
SHF(G)-4H-23U-A	92.0	43	50	62	12	0.15
SHF(G)-7H-34U-A	110.3	51	50	62	16	0.20

FLARING TOOL

- 1 DETACHABLE RATCHET HANDLE
- 2 CAN BE UESD WITH ELECTRIC DRILL
- 3 THREAD PROTECTIVE SLEEVE
- 4 HIGH STRENGTH ALUMINUM ALLOY FORGING
- 5 SPLINT LIMIT PLATE
- 6 HIGH STRENGTH ALUMINUM ALLOY SPLINT



Item No.	Description	
WL - 806N - A	For inch: 1/4".5/16",318".1/2".5/8"& 3/4"O.D.Tubing individual packed in color box.	
WL - 806N - M	For metric:6mm,9mm,10mm,12mm,16mm&19mm O.D.Tubing individual packed in color box.	
WL - 806N - L	WL-806N+WL-274S+CT-207	F4or inch:1/4",5/16",3/8",1/2",5/8",3/4" O.D.Tubing. For metric:6.9.10,12.16,19mm O.D.Tubing. Packed in hand carrying plastic case.

45°RATCHET ECCENTRIC CONE TYPE FLARING TOOL



Item No.	Description	
WL - R806A	For inch: 1/4".5/16",3/8".1/2".5/8"& 3/4"O.D.Tubing individual packed in color box.	
WL - R806M	For metric:6mm,9mm,10mm,12mm,16mm &19mm O.D.Tubing individual packed in color box.	
WL - R808A	For inch: 3/16",114",5116",318",1/2",5/8" & 3/4"O.D.Tubing individual packed in color box.	
WL - R808M	For metric:5mm,6mm,9mm,10mm,12mm,16mm&19mm O.D.Tubing individual packed in color box.	
WL - R806FT - L	WL-R806+WL-532+CT-207	1/4",5/16",3/8",1/2",5/8",3/4"&6mm,9mm,10mm,12mm,16mm,19mm O.D.TubingPacked in hand carrying plastic case.
WL - R808FT - L	WL-R808+WL-532+CT-207	3/16",1/4" 5/16",3/8",112",5/8".314"&5mm,6mm,9mm,10mm,12mm, 16mm,19mm.O.D.TubingPacked in hand carrying plastic case.

ACCURACY ECCENTRIC CONE FLARING TOOL



Item No.	Description	
WL - 806A	For inch:1/4",5/16",3/8",1/2",5/8"& 3/4"O.D.Tubing individual packed in color box.	
WL - 806M	For metric:6mm,9mm,10mm,12mm,16mm & 19mm O.D.Tubing individual packed in color box.	
WL - 808A	For inch:3/16",1/4",5/16",3/8",1/2",5/8"& 3/4"O.D.Tubing individual packed in color box.	
WL - 808M	For metric:5mm,6mm,9mm,10mm,12mm,16mm& 19mm O.D.Tubing individual packed in color box.	
WL - 809AM	For inch and metric:6mm,1/4",9mm,38".10mm,12mm,1/2",5/8"(16mm) & 3/4"(19mm) O.D.Tubing individual packed in color box.	
WL - 806AM - L	WL-806+CT-207	1/4"5/16"3/8".1/2".5/8"& 3/4"O.D.Tubing (6mm,9mm.10mm.12mm.16mm & 19mm O.D.Tubing)packed in hand carrying plastic case.
WL - 808AM - L	WL-808+CT-207	3/16".1/4".5/16".3/8".1/2".5/8"& 3/4"O.D.Tubing (5mm,6mm,9mm,10mm,12mm, 16mm& 19mm O.D.Tubing) packed in hand carrying plastic case.
WL - 806FT - L	WL-806+WL-532+CT-207	1/4",5/16",3/8".1/2",5/8"& 3/4" & 6mm,9mm,10mm,12mm,16mm,19mm O.D.Tubingpacked in hand carrying plastic case.
WL - 808FT - L	WL-808+WL-532+CT-207	3/16".1/4",5/16",38",1/2",5/8".3/4"&5mm,6mm,9mm,10mm,12mm,16mm,19mm O.D.Tubing packed in hand carrying plastic case.
WL - 805FT - L	WL-805+WL-532+CT-207	1/2",5/8".3/4",7/8",1"&12mm,16mm,19mm,22mm,25mm O.D.Tubingpacked in hand carrying plastic case,

ELECTRIC CORDLESS FLARING TOOL



Item No.	Description
WL - E806AM+ WL - 532+CT - 207+Spare battery+Charger (18V)+2 Steel bar	For inch: 1/4".5/16".3/8",1/2",5/8"& 3/4" O.D. Tubing For metric:6mm,9mm,10mm,12mm,16mm & 19mmO.D.Tubing Packed in hand carrying plastic case.

ELECTRIC CORDLESS FLARING TOOL



Item No.	Description
WL - E800AM+WL - 532 +WL - 207+2 Clamp heads+Charger(18V) +7 Steel bar	For inch and metric:6mm,1/4",5/16"(8mm), 3/8",10mm,12mm,1/2",5/8"(16mm)&3/4"(19mm) O.D.Tubing packed in hand carrying plastic case.

45°FLARING &SWAGING TOOL KIT

Item No.	Description
CT - 275	Flares 1/8",3/16",1/4",5/16",3/8",7/16",1/2",5/8"&3/4"O. D. Includes 5 swage adapters that swage 7 tube sizes 3/16", 1/4",5/16",3/8",1/2",5/8",3/4"O.D.
CT - 2000	For 3/16",1/4",5/16",3/8",7/16",1/2"&5/8"O.D. Includes 6mm,8mm,10mm,12mm,16mm &19mm O.D. Packed in hand carrying plastic case.
CT - 275 CT - 274	Tube Cutter 1/8"~1-1/8"(3-28mm)
CT - 122	Ratchet Wrench for 1/4".3/8".3/16".5/16" Packed in hand carrying plastic case.



45°FLARING & CUTTER TOOL KIT

Item No.	Description
CT - 195	Flaring Tool
CT - 274	Tube Cutter Packed in hand carrying plastic case.



45°DOUBLE FLARING TOOL KIT

Item No.	Description
CT - 96FB	Flares 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" & 6mm, 8mm, 10mm, 12mm, 16mm, 19mm O.D. Tubing. Includes 7 double flaring adapters which cover 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" & 5/8" O.D. Tubing. Packed in hand carrying plastic case.



FLARING TOOL



Item No.	Description
CT - 526 - F	For 3/16" to 3/4" & 5mm to 19mm O.D.
CT - 525 - F	For 3/16" to 5/8" & 5mm to 16mm O.D.
CT - 500	For 3/16", 1/4", 5/16", 3/8", 1/2" & 5/8" O.D.
CT - 505	For 3/16", 1/4", 5/16", 3/8", 1/2" & 5/8" O.D.
CT - 195	For 3/16", 1/4", 5/16", 3/8", 1/2" & 5/8" O.D.
CT - 203	For 5/8", 3/4", 7/8", & 1-1/8" O.D.



SMART SPRING TUBE CUTTER



Item No.	Description
WL - 274S/312S	For $\phi 1/8"$ to 1-1/8" For $\phi 1/4"$ to 1-5/8"
WL - 127	For $\phi 1/8"$ to 5/8" (3-16mm)
WL - 128	For $\phi 1/8"$ to 7/8" (3-22mm)
WL - 174	For $\phi 1/8"$ to 1-1/8"
WL - 206	For 10-66mm (3/8" to 2-58") O.D. tubing
WL - 274/312	For $\phi 1/8"$ to 1-1/8" For $\phi 1/4"$ to 1-5/8"



ROLLER TYPE TUBE CUTTER

Item No.	Description	Material
WL - 319	For $\phi 1/8"$ to 3/4" (3-19mm)	Zinc alloy body
WL - 428	For $\phi 3/16"$ to 1-1/8" (4-28mm)	
WL - 532	For $\phi 3/16"$ to 1-1/4" (5-32mm)	Aluminum alloy body
WL - 650	For $\phi 1/4"$ to 2" (6-50mm)	
WL - 670	For $\phi 1/4"$ to 2-3/4" (6-70mm)	Alloy steel blade
WL - 319B	For WL-319	
WL - 428B	For WL-428	
WL - 532B/650B	For WL-532/650	
WL - 670B	For WL-670	



CAPILLARY TUBE CUTTER

Capillary Tube Cutter	Cuts all sizes of capillary tubes without collapsing or swaging the tubes.
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- ① CLAMP PLIERS ③ CUTS 1.5-2.5MM
② CUTS 0.1-1.5MM ④ CUTS 2.5-3.0MM
DIAMETERS OF CAPILLARY TUBES



Pinch-off Tool

- In extra strong execution
- To pinch off suction tubes
- On all hermetic refrigeration
- Systems up to 3/8" diameter.



7" Pinch off plier

- Pinch of copper tubing up to 5/16" (8mm) instantly.



Inner-outer Reamer

- Plastic body, 3/16"~1-1/2" O.D. tubing.
- Reams Both Inside and Outside Edges of Tubing.



Inner-outer Reamer

- Zinc body, 1/4"~1-5/8" O.D. tubing.
- Reams Both Inside and Outside Edges of Tubing.



Fin Straightener

- For 8, 9, 10, 12, 14, 15 Spacings per inch.



Fin Straightener

- Fin straightener stainless steel
- Cleaning & straightening evaporator fin.



Ratchet Wrench

- 4 Sizes: 1/4", 3/8", 3/16"
- 5/16" square ratchet.



Ratchet Wrench

- 4 Sizes: 1/4", 3/16" square, 9/16", 1/2" hex ratchet.

SWAGING PUNCH TOOLS

Item No.	Description
CT - 94	For 1/2",5/8" & 7/8" O.D.Tubing
CT - 95	For 1/4",5/16",3/8",1/2" & 5/8" O.D.Tubing
CT - 96	For 1/4",5/16",3/8",1/2",5/8" & 3/4" O.D.Tubing
CT - 193	For 1/4",5/16",3/8",11/2"& 518"O.D.Tubing



BENDER SPRING

Item No.	Description
CT - 102 - L	For Inch: 1/4",5/16",3/8",1/2"& 5/8" size O.D.Tubing
CT - 102 - 04	For Inch: 1/4"O.D.Tubing
CT - 102 - 06	For Inch:3/8"O.D.Tubing
CT - 102 - 08	For Inch: 1/2"O.D.Tubing
CT - 102 - 10	For Inch: 5/8"O.D.Tubing
CT - 102 - 12	For Inch: 3/4" O.D.Tubing



BENDER SPRING

Item No.	Description
WL - 202 - 04	For Inch: 1/4" O.D.Tubing
WL - 202 - 06	For Inch: 3/8" O.D.Tubing
WL - 202 - 08	For Inch:1/2"O.D.Tubing
WL - 202 - 10	For Inch: 5/8" O.D.Tubing
WL - 202 - 12	For Inch: 3/4" O.D.Tubing



Capillary Tube Cutter

- Cuts all sizes of capillary tubes without collapsing
- nor swaging the tubes



Deburrer

- Handy deburrer,Blade can be swivelled.



Inspect Mirror

- Mirror O.D.: 32mm 50mm
- Length closed: 127mm 200mm
- Length open: 500mm 410mm
- Diameter: 8mm 10mm



Pick Up Tools

- Length closed:126mm
- Length open:637mm

AIR CONDITIONER INSTALLATION SPANNER

WL - 01

- STRONG MAGNET
- USE FOR 14MM & 17MM UNITS



AUTOMATIC LGNITION GAS TORCH



WL - 1S



WL - 1



WL - 1D1



WL - 3SW



WL - 030

90° MULTI BENDER KIT



Item No.	Description
WL - R999 +CT - 207	For Inch: 1/4",5/16",3/8",1/2",5/8",3/4",7/8" O.D.Tubing ForMetric:6\8\10\12\16\19\22mm O.D.Tubing In blow-mold carrying case.Aluminum wheel



WL - R999R

AIR CONDITIONER INSTALLATION SPANNER

- For Inch: 3/16",1/4",5/16" & 3/8" O.D.Tubing
- For Inch: 1/4",5/16" & 3/8" O.D.Tubing



Item No.	Size For	Bend Radius
CT - 364A - 06	3/8"	23mm
CT - 364A - 08	1/2"	35.8mm
CT - 364M - 08	12mm	35.8mm
CT - 364 - 10	16mm & 5/8"	54.4mm
CT - 364 - 12	19mm & 3/4"	75.3mm
CT - 364 - 14	22mm & 7/8"	82.1mm

OIL PRESSURE GAUGE



- The inside filled oil functions damping to the high frequency vibration of machinery.
- The damping oil cup prevents gauge pointer from quick jumping.
- The flanged edge is for convenient mounting.
- Over-pressure limit stop is equipped.
- Zero error is ensured with strengthening overpressure measures.
- Rational oil seal design and no oil leakage worry.
- Pressure versus Temperature readings for easy use.

PRODUCT DESCRIPTION

- The pressure gauge is a vibration-proof pressure gauge with oil filed inside for refrigeration use only.
- The oil-filled pressure gauge is used on freezer, cold store and air-conditioning unit.
- The oil-filled pressure gauge is convenient in application as it features one gauge for multiple refrigerants.
- The oil-filled pressure gauge has full stainless steel casing and wider berylium bonze spring tube.
- The oil-filled pressure gauge is an axial pressure gauge with edges for flange joint.

Applicable Refrigerant	HCFC and HFC
Applicable Medium Temperature	-5℃ ~+120℃ (-40℃ ~+120℃)
Connection Size	1/4SAE
Structure	Axial concentrically-embedded
Casing Nominal Diameter	2.5 in(φ63.5)
Accuracy Class	Level 1.6

OIL - FILLED(VACUUM) PRESSURE GAUGE

Item No.	Code Number	Connector	Application
Technical Parameters	242#	128#	191#
	1/4SAE(ZY63)	1/4SAE(ZY63)	1/4SAE(ZY63)
	R22 R134a R404A R407C	R410A	R22 R134a R404A R407C
Features	Imported high precision gauge interna Special overpressure limiting device Micro-adjustable zero		

DIGITAL PRESSURE VACUUM GAUGE

- ❶ Refrigerants Select"+" / Hold:fast select
- ❷ Power ON/OFF
- ❸ Refrigerants Select"-" / Hold:fast select
- ❹ Pressure/Temperatures Units / Hold 2 sec Background Light ON/OFF
- ❺ Press to"ZERO" / Defanlt Refrigerants Status Hold 2Sec Vacuum Status
- ❻ LCD Display
- ❼ Pressure sensor



PRODUCT FEATURE

Item No.	Feature
WL - 688L	Pressure and vacuum gauge shift function Real-time vacuum pressure test and percent indicate Low power indicate.Batteries life:30H.9v. Pressure units:Kpa.Bar,Psi.Torr, Kg/cm²,InHg,MmHg Temperature units:F. C Test range UAC:URC:-101 Kpa-6Mpa RXX:-101 Kpa-4Mpa For WL688L.WL688H Resolution:1Kpa Accuracy:±0.5% Overload:100Bar,10Mpa Operating temp.: -20℃ ~60℃

Item No.	WL-688H Unit Refrigerant	WL-688L Refrigerant	WL-688H Unit Refrigerant	WL-688L Refrigerant	WL-688H Unit Refrigerant	WL-688L Refrigerant	WL-688H Unit Refrigerant	WL-688L Refrigerant
	R11	R11	R290	R290	R410B-LIQ	R410B-VAP	R424A-LIQ	R424-VAP
	R113	R113	R32	R32	R411A-LIQ	R411A-VAP	R425A-LIQ	R425A-VAP
	R114	R114	R401A-LIQ	R401A-VAP	R411B-LIQ	R411B-VAP	R426A-LIQ	R426A-VAP
	R115	R115	R401B-LIQ	R401B-VAP	R412A-LIQ	R412A-VAP	R427A-LIQ	R427A-VAP
	R116	R116	R401C-LIQ	R401C-VAP	R413A-LIQ	R413A-VAP	R428A-LIQ	R428A-VAP
	R12	R12	R402A-LIQ	R402A-VAP	R414A-LIQ	R414A-VAP	R50	R50
	R123	R123	R402B-LIQ	R402B-VAP	R414B-LIQ	R414B-VAP	R500-LIQ	R500-VAP
	R124	R124	R403A-LIQ	R403A-VAP	R415A-LIQ	R415A-VAP	R50 1-LIQ	R501-VAP
	R125	R125	R403B-LIQ	R403B-VAP	R415B-LIQ	R415B-VAP	R502-LIQ	R502-VAP
	R13	R13	R404A-LIQ	R404A-VAP	R416A-LIQ	R416A-VAP	R503-LIQ	R503-VAP
	R134a	R134a	R405A-LIQ	R405A-VAP	R417A-LIQ	R417A-VAP	R504-LIQ	RS04-VAP
	R14	R14	R406A-LIQ	R406A-VAP	R418A-LIQ	R418A-VAP	R507A-LIQ	R507A-VAP
	R141B	R141B	R407A-LIQ	R407A-VAP	R419A-LIQ	R419A-VAP	R508A-LIQ	R508A-VAP
	R142B	R142B	R407B-LIQ	R407B-VAP	R420A-LIQ	R420A-VAP	R508B-LIQ	R508B-VAP
	R143A	R143A	R407C-LIQ	R407C-VAP	R421A-LIQ	R42 A-VAP	R509A-LIQ	R509A-VAP
	R152A	R152A	R407D-LIQ	R407D-VAP	R421B-LIQ	R421B-VAP	R600	R600
	R170	R170	R408A-LIQ	R408A-VAP	R422A-LIQ	R422A-VAP	R600A	R600A
	R21	R21	R409A-LIQ	R409A-VAP	R422B-LIQ	R422B-VAP	R744	R744
	R218	R218	R409B-LIQ	R409B-VAP	R422C-LIQ	R422C-VAP	/	/
	R22	R22	R41	R41	R422D-LIQ	R422D-VAP	/	/
	R23	R23	R410A-LIQ	R410A-VAP	R423A-LIQ	R423A-VAP	/	/

DIGITAL MANIFOLDS

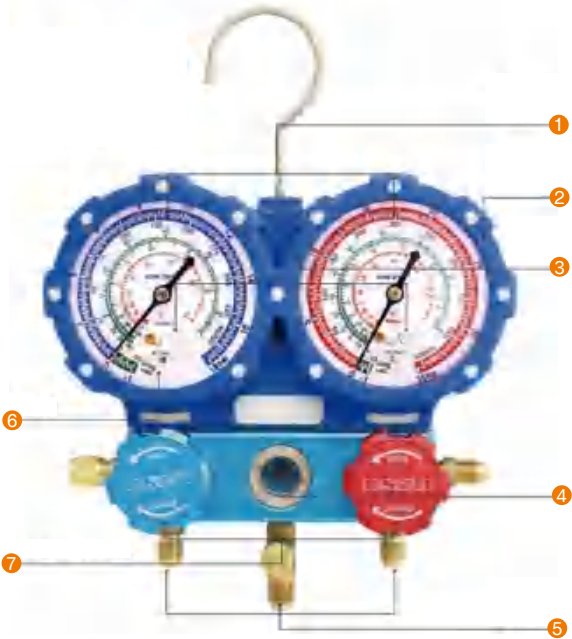


Item No.	Size Of Hose	Description
WL - 6881H	36"(90cm)	Single Digital manifolds+2Pcs of charging hose. Working pressure,800 PSI,Burst 4000PSI+1Pcs of 9V Battery+1Pcs of Adapter AD-89+1Pcs of suitcase.
	60"(150cm)	
	72"(180cm)	
WL - 6881L	36"(90cm)	2Valve Diqital manifolds+3Pcs of charging hose. Working pressure,800PSI,Burst 4000PSI+2Pcs of 9V Battery+2Pcs of Adapter AD-89+1Pcs of suitcase.
	60"(150cm)	
WL - 6882 - L	72"(180cm)	
	36"(90cm)	
	60"(150cm)	
WL - 6884 - L	72"(180cm)	4Valve Digital manifolds+4Pcs of charging hose.Working pressure,800 PSI,Burst 4000 PSI+2Pcs of 9V Battery+2Pcs of Adapter AD-89+1Pcs of suitcase.
	36"(90cm)	
	60"(150cm)	



2 - VALVE TESTING MANIFOLDS

- 1 To 550Psi-30 To 0 InHg / 0 To 760Psi-30 To 0 InHg
- 2 TEXTURE PROTECTOR
- 3 CALIBRATION HOLE
- 4 SIGHT GLASS
- 5 1/4"SAE BRASS CONNECTION
- 6 CUSTOMIZABLE SCALE
- 7 UPGRADED ALUMINUM ALLOY HANDWHEEL



Item No.	Diameter Of Gauge 60mm	Diameter Of Gauge 80mm	Gauge Scale	Size Of Hose	Desription
	WL-C3601S	WL-C3601B	R22 R404A R134a	36"(90cm)	3pcs charging hoses.Working pressure 600PSI Burst 3000PSI. A sight glass brass/aluminum body. Designed to meet 1/4"SAE.
	WL-C6001S	WL-C6001B		60"(150cm)	
	WL-C7201S	WL-C7201B		72"(180cm)	
	WL-C3602S	WL-C3602B	R22 R404A R410A R407C	36"(90cm)	3pcs charging hoses.Working pressure 800PSI Burst 4000PSI.A sight glass brass/aluminum body. With 2PCS adapter AD-89. Designed to meet 1/4"SAE
	WL-C6002S	WL-C6002B		60"(150cm)	
	WL-C7202S	WL-C7202B		72"(180cm)	
	WL-C3603S	WL-C3603B	R22 R134a R404A	36"(90cm)	3pcs red,yellow&blue charging hoses. Working pressure 500PSI Burst 2500PSI. A sight glass brass/aluminum body. Designed to meet 1/4"SAE.
	WL-C6003S	WL-C6003B		60"(150cm)	
	WL-C7203S	WL-C7203B		72"(180cm)	

SINGLE GAUGE VALVE



BRASS TESTING MANIFOLDS

Item No.	Size Of Hose
WL - 536G - R22	36"(90cm)
WL - 560G - R22	60"(150cm)
WL - 536G - R134a	36"(90cm)
WL - 560G - R134a	60"(150cm)
WL - 536G - R410A	36"(90cm)
WL - 560G - R410A	60"(150cm)



2 - VALVE TESTING MANIFOLDS

Item No.	CT-136G-R22
	CT-160G-R22
	CT-236G-R134a
	CT-260G-R134a
	CT-336G-R410A
	CT-360G-R410A



4 - VALVE TESTING MANIFOLDS

Item No.	Size Of Hose
CT - 436G - R22	36"(90cm)
CT - 460G - R22	60"(150cm)
CT - 736G - R134a	36"(90cm)
CT - 760G - R134a	60"(150cm)
CT - 836G - R410A	36"(90cm)
CT - 860G - R410A	60"(150cm)



4 - VALVE TESTING MANIFOLDS

Item No.	Size Of Hose
CT - MC236G - R134a	36"(90cm)
CT - MC260G - R134a	60"(150cm)
CT - MC272G - R134a	72"(180cm)



12 R22 &R502 STANDARD CHARGING HOSE

Information	CT-336-RYB 3 pcs 36"(90cm)red,yellow&blue hoses sets
	CT-360-RYB 3 pcs 60"(150cm)red,yellow &blue hoses sets
	CT-372-RYB 3 pcs 72"(180cm)red,yellow &blue hoses sets Working Pressure 500PSI Burst 2500PSI.
	Designed to meet 1/4"SAE requirement for refrigerant permutation and assure long work life.



R134 PREMIUM CHARGING HOSE WITH 1/4"SAE FITTINGS

Information	CT-336-RYB-P 3 pcs 36"(90cm)red,yellow &blue hoses sets
	CT-360-RYB-P 3 pcs 60"(150cm)red,yellow &blue hoses sets
	CT-372-RYB-P 3 pcs 72"(180cm)red,yellow&blue hoses sets Working Pressure 600PSI Burst 3000PSI.
	Designed to meet 1/4"SAE requirement for refrigerant permutation and assure long work life.



R410 HIGH PRESSURE CHARGING HOSE

Information	CT-336-RYB-H 3 pcs 36"(90cm)red,yellow &blue hoses sets
	CT-360-RYB-H 3 pcs 60"(150cm)red,yellow&blue hoses sets
	CT-372-RYB-H 3 pcs 72"(180cm)red,yellow &blue hoses sets Special materia high pressure Charging hose.
	Working pressure 800PSI Burst 4000PSI. All the hoses with 1/4"SAE、5/16"SAE connections are optional.



R410 HIGH PRESSURE CHARGING HOSE WITH BALL VALVE

Information	R410-RV For red hose with ball valve
	R410-YV For yellow hose with ball valve
	R410-BV For blue hose with ball valve
	Special material high pressure Charging hose. Working pressure 800PSI Burst 4000PSI. All the hoses with 1/4"SAE、5/16"SAE connections are optional.



Information	T-336-RYB-HV 3pcs 36"(90cm)red,yellow&blue hoses sets with shut-offballvalve
	CT-360-RYB-HV 3 pcs 60"(150cm)red,yelow&blue hoses sets with shut-off ballvalve
	CT-372-RYB-HV 3 pcs 72"(180cm)red,yellow &blue hoses sets with shut-off ballvalve
	Special material high pressure Charging hose. Working pressure 800PSI Burst 4000PSI. All the hoses with 1/4"SAEφ5/16"SAE connections are optional.



QUICK COUPLING

Item No.	Size Of Hose
QC18-L	Low sidex1/4"male 90°
QC18-H	High sidex1/4"male 90°
QC19-L	Low sidex1/4"male &female 90°
QC19-H	High sidex1/4"male &female 90°



R134A QUICK COUPLERS

Item No.	Size Of Hose	Size Of Hose
QC12-L	Blue	Low sidex1/4"male flare straight
QC12-H	Red	High sidex1/4"male flare straight
QC15-L	Blue	Low sidex1/4"male flare 90°
QC15-H	Red	High sidex1/4"male flare 90°



R134A QUICK COUPLERS



Item No.	Size Of Hose	Size Of Hose	Size Of Hose	Size Of Hose
AD-78	1/2"-20 UNF(5/16"SAE)	1/4"SAE	W/core &Depressor	R-410A International
AD-87	1/4"SAE	1/2"-20 UNF(5/16"SAE)	W/core &Depressor	R-410A Internationa
AD-89	1/2"-20 UNF(5/16"SAE)	1/4"SAE	W/core&Depressor	R-410A Internationa
AD-98	1/4"SAE	1/2"-20 UNF(5/16"SAE)	W/core &Depressor	R-410A International

R134A QUICK COUPLERS

Item No.	Size Of Hose	Description
BV01	1/4"SAE	1/4"SAE
BV02	1/4"SAE	1/2"-20 UNF(5/16"SAE)
BV03	1/2"-20 UNF(5/16"SAE)	1/4"SAE
BV04	1/2"-20 UNF(5/16"SAE)	1/2"-20 UNF(5/16"SAE)
BV901	1/4"SAE 90°	1/4"SAE
BV902	1/4"SAE 90°	1/2"-20 UNF(5/16"SAE)
BV903	1/2"-20 UNF(5/16"SAE)90°	1/4"SAE
BV904	1/2"-20 UNF(5/16"SAE)90°	1/2"-20 UNF(5/16"SAE)
BV451	1/4"SAE 45°	1/4"SAE
BV452	1/4"SAE 45°	1/2"-20 UNF(5/16"SAE)
BV453	1/2"-20 UNF(5/16"SAE)45°	1/4"SAE
BV454	1/2"-20 UNF(5/16"SAE)45°	1/2"-20 UNF(5/16"SAE)
BVM01		1/4"SAE×2
BVM02		1/2"-20 UNF(5/16"SAE)×2
BVM03		1/4"SAE-1/2"20 UNF(5/16"SAE)



ELECTRONIC REFRIGERANT SCALES

- Die-cast aluminum alloy body, stable in measurement, sturdy and durable
- integrated TPU anti-collision and anti-slip protective sleeve for improved quality and texture
- Large screen display
- Bright,green backlight.
- Auto-Power-Off(APO).
- Three units display mode,LB+OZ,KG+G,LB
- Realtime display of platform stable state.

Item No.	RCS-320
Max capacity	100kg/220lb
Resolution	5g
Accuracy	+0.05%rdg+5g
Power supply	6 x AAA batteries
Operating temperature	-10°C~40°C
Storage temperature	-15°C~50°C
Overall size	270x270x70 mm/10.62x10.62x2.75 inch
Weight	3.2kg/7lb



ELECTRONIC MANIFOLDS

- Compact design: Mini portable, easy to carry around
- Functions completely replace mechanical gauge:Completely replaces all functions of a mechanical dual gauge and additionally provides leakage test andvacuum measurement functions.
- Higher precision: Advanced ceramic sensors and digitizing technology allow the MG-10 to easily outperform traditionalmechanicalgauges in terms of measurement accuracy.
- Sturdy and drop-proof:Accidental dropping of the instrument during use will not affect the measurement accuracy or normalfunction at all.
- 2 times over-pressure range:can withstand more than 2 times the rated range of pressure without damage to the sensor. do not haveto worry about "hit the needle" problem.

Item No.	RCS-320
Measurement range	-14.5-500 psi/-14.5-800 psi
Pressure display resolution	0.5psi
Pressure measurement accuracy	+0.5%FS
Pressure Unit	psi、bar、kg/cm2、inHg、kPa、MPa
Operating temperature and humidity	-10~50'C ;35%~85% RH
Battery life	6 months
Battery	3 # AAA
2 Channels	Red, blue
Maximum working pressure	800 psi
refrigerant	88 types



LEAK DETECTOR(WJL-6000)

- Detect all halogen-based refrigeration R22/134A/410, etc.
- Maximum sensitivity 6g/year, 7 levels of sensitivity adjustable
- Ready-to-use, fast warm-up, sound/light double alarm
- Adopts high-quality corona sensors, responsive
- Low-power design, ultra-long battery life

Item No.	WJL-6000
Sensor lifetime	50h
Sensitivity range	7 levels
Maximum sensitivity	6g/yr
Response time	<1s
Warm-up time	6s
Reset time	3s
Refrigerants	CFCS/HCFCs/HFCS/HCS/HFOS
Power supply	4 AAA alkaline battery(not included)
Battery life	Approximately 50 hours of normal use
Approvals	Compliant to Standard:SAE-J1627,EN 14624
Overall size	6*1.4*1.4 inch
Probing rod length	7.8 inch



LEAK DETECTOR(HLD-100+)

- Detection of all halogen refrigerants.
- Adopt microprocessor controller, accurate, stable and reliable
- Limit sensitivity 3g/year
- High and low sensitivity can be set
- Dual-color LED indicator progressive real-time display
- Auto-calibration on power-on, manual reset detection
- Modular sensor, easy to replace Convenient maintenance
- Battery reverse protection function is safer

Item No.	HLD-100+
Sensor lifetime	50h
Sensitivity range	7 levels
Maximum sensitivity	3/yr
Response time	<1s
Warm-up time	About 3s
Reset time	2s
Refrigerants	Continuous,unlimited
Power supply	2 AA alkaline battery (3VDC)
Battery life	Approximately 50 hours of normal use
Approvals	Compliant to Standard:SAE-J1627,EN 14624,CE
Overall size	9*2.4*2.2 inch
Probing rod length	14 inch



LEAK DETECTOR (HLD 200+)

- The leak-detection in vocation of freeze, refrigeration, and air-conditioner;
- The leak-detection for air-conditioner in the car;
- It will respond to all halogen gases(including Chlorine and Fluorine).
- Including:CFCS HCFCs HFCS And other mixtures, e.g.AZ-50.HP62.MP-39
- Detect Ethylene Oxide gas leaks in hospital sterilizing equipment(it will detect the homogenate carrier gas).
- Detect SF-6 in high voltage circuit breaks.
- Detect most gases including Chlorine, Fluorine and Bromine(halogen gas).
- Detect cleaning agents used in dry cleaning applications such as perchloroethyl.
- Detect halogen gases in fire-extinguishing system.

Information

Halogen Leak Detector HLD-200+is a newlyhighperformanceintelligent halogen leak detector. Thenew version designed with LEDdisplaying is super convenient foreasy carrying and operation



LEAK DETECTOR (LD-CO₂)

- LD-CO₂ is the most technologically advanced of its kind. The fullyautomatic LD-CO₂ low power requirements, small size and highsensitivity combine to create a tool which is easy to handle and ultra effective at locating even the most difficult-to-find leaks.
- Refrigerant: R-744,C02
- Sensitivity: 400-4000ppm
- Power supply: Rechargeable Lithium battery3000mAh
- Warm-up time: 30s
- Response time: < 3s
- Certificate& Approval: CE Rohs, SAE J2791,SAE J2913



LEAK DETECTOR(LD-200)

- LD-200 Leak Detector offers the greatest sensitivityand fastest response of refrigerante leaks.
- Refrigerant: CFC,HCFC,HFC,HC,HFO etc.
- Sensitivity: 3g (0.1 Oz)/year
- e Power supply: Rechargeable Lithium battery3000mAh
- Warm-up time: 30s
- Response time: < 3s
- Certificate& Approval: CE Rohs,SAE J2791.SAE J2913



CONTROLLER

AN ELECTROMAGNETIC DEVICE FOR CONVERTING OR TRANSMITTING ELECTRICAL ENERGY



PRODUCT FEATURES

Usage characteristics: It determines the main performance and scope of use of the valve. Valve usage characteristics include: valve category (closed circuit valve, regulating valve, safety valve, etc.); Product type (gate valve, globe valve, butterfly valve, ball valve, etc.); The materials of the main components of the valve (valve body, valve cover, valve stem, valve disc, sealing surface); Valve transmission mode, etc.



SINGLE RESSURE CONTROL



TECHNICAL PARAMETERS

- WLP series pressure control used in refrigeration and compressor air system,adjust the equipment is high,low limit control and avoid the over-low suction pressure and over-high exhaust pressure.
- WLP series pressure control can start and stop refrigeration compressors and fans of condensers.
- WLP series pressure control can be used in Pneumatic,boiler,fire protection,ironing,hydraulic,pumps and other equipment.
- WLP series pressure control with copper air-box connector,suitablefor freon,air,liquid and other non-corrosive media;with stainless steel air-box connector,it can be used with liquid ammonia etc corrosive gas or liquid system.

FEATURES

- SCALE PLATE USE "BAR"&"PSIG"UNITS;
- COULD BE USE"MPA"、"KGf/CM²"UNITS ALSO AS CUSTOMER REQUIREMENT.
- CONNECTION COULD AS CUSTOMER REQUIRE USE BRITISH UNIT FLARE(E) SOLDER(S)AND CAPILLARY(C),SUCH AS MGP506E;
- AMMONIA REFRIGERANT MODEL ADDED A CODE B,SUCH AS MGP506B.

SPECIFICATION

Model	Pressure Range(bar)	Differential Pressure(bar)	Factory Seting(bar)		Max.gas tight test pressure(bar)
			Fig.1	Fig.2	
WLP502	-0.5~2	0.2~0.7	1	0.5	16.5
WLP503	-0.5~3	0.35~1.5	2	1	16.5
WLP506	-0.5~6	0.6-4	3	2	16.5
WLP506M	-0.5~5.5	≤1	Manual reset	2	16.5
WLP110	1~10	1~3	6	5	16.5
WLP516	5~16	2-5	10	8	33
WLP520	5~20	2~5	16	14	33
WLP530D	5~30	3-10	20	15	33
WLP530	8~30	3~5 Fixation	20	15~17	33
WLP530M	8~30	≤5	20	Manual reset	33

SPECIFICATION

V/Rated Voltage(V)	A/Rated Amps(A)	Non-Inductive Current	Inductive Current	
			FullLoad Current	Locked Roter
125V	A.C.	20A	15A	72A
250V	A.C.	10A	8A	
24V	D.C.	8A	8A	64A

DUAL PRESSURE CONTROL



TECHNICAL PARAMETERS

- WLP series pressure control used in refrigeration and compressor air system,adjust the equipment is high,low limit control and avoid the over-low suction pressure and over-high exhaust pressure. compressors and fans of condensers.
- WLP series pressure control can be used in Pneumatic,boiler,fire protection,ironing,hydraulic,pumps and other equipment.
- WLP series pressure control with copper air-box connector,suitable for freon,air,liquid and other non-corrosive media;with stainless steel air-box connector,it can be used with liquid ammonia etc corrosive gas or liquid system

FEATURES

- Maximum bellows testing pressure:Low 16.5 bar,high 33 bar;
- Scae plate use"bar&"psig"units;
- Could be use"Mpa" "kgf/cm²"units also as customer requirement.
- Connection could as customer is require use British unit are(E) solder(S)and capillary(C),such as MGP830E;
- Ammonia refrigerant model added a code B,such as MGP830B.

SPECIFICATION

Model	Low Pressure		High Pressure		Low Pressure	High Pressure	Low Pressure		High Pressure	
	Pressure Range(bar)	Differential Pressure(bar)	Pressure Range(bar)	Differential Pressure(bar)	Format	Form	Factory Seting(bar)			
							Fig.2	Fig.1	Fig.2	Fig.1
WLP830	-0.5~6	-0.6~4	8~30	3-4Fix	Auto	Auto	3	2	20	15
WLP830HM	-0.5~6	-0.6~4	8~30	≤5	Auto	Manual	3	2	20	Manua
WLP830HLM	-0.5~5.5	≤1	8~30	≤5	Manual	Manual	Manual	2	20	Manual

SPECIFICATION

V/Rated Voltage(V)	A/Rated Amps(A)	Non-Inductive Current	Inductive Current	
			FullLoad Current	Locked Roter
125V	A.C.	20A	15A	72A
250V	A.C.	10A	8A	
24V	D.C.	8A	8A	64A

HIGH - PRESSURE PRESSURE CONTROL



TECHNICAL PARAMETERS

- WLP series pressure control used in refrigeration and compressor airtsystem, adjust the equipment is high,low limit control and avoid theover-low suction pressure and over-hiah exhaust pressure.
- WLP series pressure control can start and stop refrigerationcompressorsandfansofcondensers.
- WLP series pressure control can be used in Pneumatic, boiler, fireprotection,ironing,hydraulic,pumps and other equipment.
- WLP series pressure control with copper air-box connector,suitable for freon,air,liquid and other non-corrosive media;with stainless steel air-box connector,it can be used with liquid ammonia etc corrosive gas or liquid system.

FEATURES

- WLP high pressure series pressure control isto accepthe pressure sianal and the action ofthe automatic controller, inR410Arefrigerationdevice formedium,when the compressordischarge pressure exceeds the set value orthe suction pressure is lower than the set value,the pressure control will automatically cut off thecircuit, to protect thecompressor.

SPECIFICATION

Model	Low Pressure		High Pressure		Low Pressure	High Pressure	Low Pressure	High Pressure
	Pressure Range(bar)	Differential Pressure(bar)	Pressure Range(bar)	Differential Pressure(bar)	Format Form		Maximum Pressure	
WLP545	/	/	5~45	4~5Fix	/	Auto	/	48
WLP545D	/	/	5~45	5~45	/	Auto	/	48
WLP1245	2~12	1-5	12~45	4~6	Auto	Auto	20	48
WLP1245HM	2-12	1-5	12-45	4-6	Manual	Manual	20	48
WLP1245HLM	2~12	≤5Fix	12~45	4~6Fix	Manual	Manual	20	48

SPECIFICATION

V/Rated Voltage(V)	A/Rated Amps(A)	Non-Inductive Current	Inductive Current	
			FullLoad Current	Locked Roter
125V	A.C.	20A	15A	72A
250V	A.C.	10A	8A	
24V	D.C.	8A	8A	64A

TEMPERATURE CONTROL



INTRODUCTION

- Ambienttemperature:-20~70 C
- Cable connection
- The cable inlet hole diameter:15mm

APPLICATION

- WLTseries temperature control is a temperature-controlled electric switch,can be directly connected to single-phrase A.C.Motors of upto about 1KW,or installed in the control current circuit of D.C.Motors and large A.C.Motors.
- WLTseries temperature control also can be matched with the solenoid -valve,used to control the temperature of cold storage.
- WLT series temperature control has a single pole double throw(SPDT) -changeover switch.The position of switch depends on temperature control setting and bulb temperature.

FEATURES

- WLP series pressure control used in refrigeration and compressor airtsystem, adjust the equipment is high,low limit control and avoid theover-low suction pressure and over-high exhaust pressure.
- WLP series pressure control can start and stop refrigerationcompressors and fans of condensers.
- WLP series pressure control can be used in Pneumatic,boiler, fireprotection,ironing,hydraulic,pumps and other equipment.
- WLP series pressure control with copper air-box connector, suitablefor freon, air,liquid and other non-corrosive media, with stainless steelair-box connector, it can be used with liquid ammonia etc corrosive gasor liquid system.

SPECIFICATION

Model	Adjust range	Factory setting		Max.Bulb temperature	Bulb size		Condition for used
		ON	OFF		Length	Diameter	
WLT70	-70~-35	-50	-45	45	80	10	Ts>Tb
WLT30	-30~0	-19	-14				
WLT15	-50~15	-5	0				
WLT40	0~40	15	20	70	120	12	Ts ≥ Tb
WLT90	40~90	60	60	120			
WLT120	70~120	90	95	130			

SPECIFICATION

V/Rated Voltage(V)	A/Rated Amps(A)	Non-Inductive Current	Inductive Current	
			FullLoad Current	Locked Roter
110V	A.C.	20A	15A	72A
250V	A.C.	10A	8A	

THERMOSTAT

APPLICATION

- For: Freezer, Cooler, showcase
- Temperature Range: -35~100 C

SPECIFICATION

Model	temperatureparameter(C)						SWITCH	The length of the capillary
	ON	L OFF	DIFF	ON	H OFF	DIFF		
F2000/A2000	--	-35±3		4±3	35±3		S.P.D.T	1500±50
711	--	-35±3		6±3	90±5		S.P.D.T	1500±50



WD(F) SERIES

APPLICATION

- For: Home refrigerator, Freezer, refrigeration equipment
- Temperature Range: -35~+35 C

SPECIFICATION

Model	temperatureparameter(C)						SWITCH	The length of the capillary
	ON	C OFF	ON	N OFF	ON	W OFF		
WDF-22	-10±1	-22±2	2.5±1	(	(2.5)	-12±1.5	S.P.S.T	600±30
WDF-16	-5±1	-16±2	(-1)	(-10)	3±2	(-6)	S.P.S.T	800±50
WDF-24	-12±1	-24±2	(-5)	(-15)	0±2	(-8.5)	S.P.s.T	400±30



K SERIES

APPLICATION

- For: Home refrigerator, Freezer, refrigeration, Air conditioner, equipment
- Temperature Range: -35~+35 C

SPECIFICATION

Model	temperatureparameter(C)						SWITCH	The length of the capillary
	ON	C OFF	ON	N OFF	ON	W OFF		
K50-P1125	-9.5	-18±1.5	/	/	8.5	/	S.P.S.T	1200±50
K50-P1110	-14	-22±1.5	/	/	2	/	S.P.S.T	1200±50
K50-P1179	-10	-20±1.5	/	10	-	/	S.P.S.T	800±50
K54-P1102	/	-34±1.5	-16.5	-24	-12	/	S.P.D.T	2000±50
K59-L1102	3.5	-26±1.5	/	/	3.5	-11	S.P.S.T	1200±50



R SERIES

APPLICATION

- For: Home refrigerator, Freezer, refrigeration, Air conditioner, equipment
- Temperature Range: -35~+35 C

SPECIFICATION

Model	temperatureparameter(C)						SWITCH	The length of the capillary
	ON	C OFF	ON	N OFF	ON	W OFF		
rc-24522-2	3.5	-27.3	3.5	-23.5	3.5	-18.1	S.P.D.T	1150±50
rc-94072-2	4.5	-24	4.5	-19.2	4.5	-16.4	S.P.S.T	1000±50
rc-45070-2	3	-5	/	/	9.2	2.4	S.P.S.T	1300±50
rc-4070-2	-17	-27.5	-6.2	-13.6	8.8	4.1	S.P.D.T	1150±50
rc-94522-4	3.5	-25.7	3.5	-22	3.5	-16.6	S.P.S.T	1150±50



TAM SERIES

APPLICATION

- For: Home refrigerator, Freezer, refrigeration, Air conditioner, equipment
- Temperature Range: -35~+35 C

SPECIFICATION

Model	temperatureparameter(C)						SWITCH	The length of the capillary
	ON	C OFF	ON	N OFF	ON	W OFF		
TAM112	/	<-18	-7±1.5	-14±1.5	<0	/	S.P.D.T	1150±50
TAM133	-10±2	15±1.5	/	/	3.5±2	(-1)	S.P.S.T	1000±50
TAM145	-20±1.5	-27±2	/	/	(-14)	-20±2	S.P.S.T	1300±50
TAM113	-15±1.5	-20±1.5	/	/	-5±2	(-9)	S.P.D.T	1150±50
TAM113-2	-10±2	-15±1.5	/	/	5±2	(-1)	S.P.S.T	1150±50



WP(F) SERIES

APPLICATION

- For: Home refrigerator, Freezer, refrigeration, Air conditioner, equipment
- Temperature Range: -35~+35 C

SPECIFICATION

Model	temperatureparameter(C)						SWITCH	The length of the capillary
	ON	C OFF	ON	N OFF	ON	W OFF		
WPF-22	-10±1	-22±2	2.5±1	/	(2.5)	-12±1.5	S.P.S.T	600±30
WPF-16	-5±1	-16±2	(-1)	(-10)	3±2	(-6)	S.P.S.T	800±50
WPF-24	-12±1	-24±2	(-5)	(-15)	0±2	(-8.5)	S.P.S.T	400±30



WP SERIES

APPLICATION

- For:Home refrigerator,Freezer,refrigeration,Airconditioner,equipment
- Temperature Range:-35~+35 ℃

SPECIFICATION

Model	temperatureparameter(℃)						SWITCH	The lengthof the capillary
	C		N		W			
	ON	OFF	ON	OFF	ON	OFF		
WP16B	8±2	5	/	/	16±2	/	S.P.D.T	1150±50
WP31A	22±2	18	/	/	7	31±2	S.P.S.T	1000±50
WP32D	22±2	18	/	/	31±2	/	S.P.S.T	1300±50
WP17H	10±2	6	/	/	17±2	/	S.P.D.T	1150±50
WP24K	15±2	10	/	/	24±2	/	S.P.S.T	1150±50



THERMOSTAT-001S/101S SERIES

APPLICATION

- For:Electric water heater,solar heater,water boiler,frying pan,electric oven,western kitchen equipment,etc.
- Temperature Range:-35~+35 ℃

SPECIFICATION

Model	temperatureparameter(℃)						SWITCH	The lengthof the capillary
	L			H				
	ON	OFF	DIFF	ON	OFF	DIFF		
WRC350-90-001S	/	/	/	Lnrel eset	90±4	/	S.P.S.T.S	600±30
WRC350-110-005S	/	/	-7		110±6	/	D.P.S.T.S	800±50
WRC350-180-101S	/	/	/	knrel Rest	180±8	/	S.P.S.T.S	400±30
WRC350-250-101s	/	/	/	kanel Rest	250±10	/	S.P.S.T.S	950±50
WRC350-350-128S	/	/	/	Lkcnelkest	350±16	/	S.P.S.T.S	1000±50



THERMOSTAT 201 SERIES

APPLICATION

- For:Commerical Electric water heater,wate boiler,Electric heater western kitchen equipment,etc.
- Temperature Range:-35~+35 ℃

SPECIFICATION

Model	temperatureparameter(C)						SWITCH	The lengthof the capillary
	L			H				
	ON	OFF	DIFF	ON	OFF	DIFF		
WRC350-40-201	/	(10)	4±3	/	70±3	4±3	T.P.S.T	600±30
WRC350-110-205	/	(30)	6±3	/	110±6	6±3	T.P.S.T	800±50
WRC350-200-202	/	(30)	8±4	/	180±8	8±4	T.P.S.T	400±30
WRC350-250-101s	/	(50)	10±5	/	280±12	10±5	T.P.S.T	950±50
WRC350-350-128S	/	(50)	12±6	/	350±16	12±6	T.P.S.T	1000±50



THERMOSTAT 301(3 PHASE) SERIES

APPLICATION

- For:Commerical Electric water heater,wate boiler,Electric heater western kitchen equipment,etc.
- Temperature Range:-35~+35 ℃

SPECIFICATION

Model	temperatureparameter(℃)						SWITCH	The lengthof the capillary
	L			H				
	ON	OFF	DIFF	ON	OFF	DIFF		
WRC350-40-201	/	(10)	4±3	/	70±3	4±3	T.P.S.T	600±30
WRC350-110-205	/	(30)	6±3	/	110±6	6±3	T.P.S.T	800±50
WRC350-200-202	/	(30)	8±4	/	180±8	8±4	T.P.S.T	400±30
WRC350-250-101s	/	(50)	10±5	/	280±12	10±5	T.P.S.T	950±50
WRC350-350-128S	/	(50)	12±6	/	350±16	12±6	T.P.S.T	1000±50



THERMOSTAT 501 SERIES

APPLICATION

- For:Electric water heater,solar heater,water boiler,frying pan,electric oven,western kitchen equipment,etc.
- Temperature Range:-35~+35 ℃

SPECIFICATION

Model	temperatureparameter(℃)						SWITCH	The lengthof the capillary
	L			H				
	ON	OFF	DIFF	ON	OFF	DIFF		
WRC350-40-501	/	(10)	4±3	/	70±3	4±3	S.P.S.T	600±30
WRC350-110-502	/	(30)	6±3	/	110±6	6±3	S.P.S.T	800±50
WRC350-200-504	/	(30)	8±4	/	180±8	8±4	S.P.S.T	400±30
WRC350-275-501	/	(50)	10±5	/	280±12	10±5	S.P.S.T	950±50
WRC350-350-510	/	(50)	12±6	/	350±16	12±6	S.P.S.T	1000±50



THERMOSTAT 601 SERIES

APPLICATION

- For:Electric water heater,solar heater,water boiler,frying pan,electric oven,western kitchen equipment,etc.
- Temperature Range:-35~+35 ℃

SPECIFICATION

Model	temperatureparameter(℃)						SWITCH	The lengthof the capillary
	L			H				
	ON	OFF	DIFF	ON	OFF	DIFF		
WRC350-40-601	/	(10)	4±3	/	70±3	4±3	S.P.S.T.S	600±30
WRC350-110-602	/	(30)	6±3	/	110±6	6±3	D.P.S.T.S	800±50
WRC350-200-604	/	(30)	8±4	/	180±8	8±4	S.P.S.T.S	400±30
WRC350-275-601	/	(50)	10±5	/	280±12	10±5	S.P.S.T.S	950±50
WRC350-350-610	/	(50)	12±6	/	350±16	12±6	S.P.S.T.S	1000±50



TEMPERATURE CONTROLLER ETC100+



FEATURES

- Power supply voltage: 220VAC±10%, 50/60Hz
- Power supply: <3W
- Temperature measuring range: -40°C~120°C
- Temperature controlling range: -40°C~120°C
- Resolution: 0.1°C at (-40°C~99.9°C); 1°C in other range
- Accuracy: ±1°C at (-40°C~70°C); <less than ±2°C at other range
- Relay contact capacity: 10A/220VAC, the max load it can drive is 0.5HP/220VAC
- Sensor type: NTC sensor (10KΩ/25°C, B value 3435K) Ambient
- temperature: 0°C~60°C Storage temperature: -30°C~75°C Relative
- humidity: 20%~85% (No condensate)

TEMPERATURE CONTROLLER STC1000



FEATURES

- Power supply: 220VAC±10%/-15%, 50/60Hz
- Temperature measurement range: 50°C~99°C
- Temperature resolution: 1°C
- Sensor error delay: 1 minute
- Storage temperature: -30~75°C
- Sensor type: NTC sensor
- Installation hole size: L71xW29(mm)
- Overall size: L77xW34.5xD62(mm)

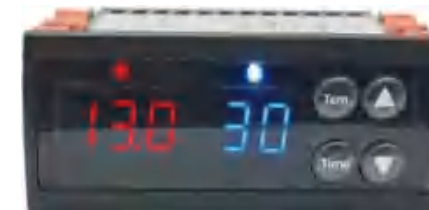
TEMPERATURE CONTROLLER ETC200+



FEATURES

- Power supply voltage: 220VAC±10%, 50/60Hz
- Power supply: <3W
- Temperature measuring range: -40°C~120°C
- Temperature controlling range: -40°C~120°C
- Resolution: 0.1°C at (-40°C~99.9°C); 1°C in other range
- Accuracy: ±1°C at (-40°C~70°C); <less than ±2°C at other range
- Relay contact capacity: Refrigeration: 10A/220VAC, the max load it can drive is 0.5HP/220VAC Defrost: 10A/220VAC
- Sensor type: NTC sensor (10KΩ/25°C, B value 3435K)
- Ambient temperature: 0°C~60°C
- Storage temperature: -30°C~75°C
- Relative humidity: 20%~85% (No condensate)

TEMPERATURE CONTROLLER TH502



FEATURES

- Supply voltage: 220VAC±10%, 50Hz/60Hz
- Temperature display range: -50°C~150°C
- Temperature range: -40°C~90°C
- Humidity display range: 0~100%RH
- Humidity control range: 5%~99%RH
- Sensor accuracy: humidity ±3%RH, 0.5°C
- Operating ambient temperature: -10°~60°C
- Relative humidity of working environment: <80% (No condensation)
- Temperature relay capacity: 30A/250V
- Humidity relay capacity: 10A/250V

TEMPERATURE CONTROLLER STE-100A



FEATURES

- Power supply: 220VAC±10%/-15%, 50/60Hz
- Power consumption: <3W
- Temperature measuring range: -40°C ~99°C
- Temperature controlling range: -40°C ~99°C
- Resolution: 1°C
- Accuracy: +1°C, +0.5 digit
- Relay output capacity: 10A(0.5HP)/220VAC
- Delay time when sensor error: 1 min
- Sensor type: NTC sensor
- Safety level of the front panel: IP54
- Operating temperature: 0°C ~60°C
- Storage temperature: -30°C ~75°C
- Relative humidity: 20%~85% (No condensate)

TEMPERATURE CONTROLLER STE-200+



FEATURES

- Temperature measurement range: -40°C ~+99°C
- Temperature control range: -40°C ~+70°C
- Operating ambient temperature: -5°C ~+60°C
- Stored temperature: -30°C ~+85°C
- Relative humidity: 20%~60% (No condensate)
- Power supply: 220VAC±10% (12V±10% optional)
- Watt consumption: <5W
- Resolution: 1
- Accuracy: ±1°C
- Relay contact capacity: 10A/250VAC/30VDC

UNIVERSAL A/C REMOTE



KT - 618

Universal A/C Remote Control

- 6000 in 1
- LCD display with back light
- Intelligent cool & Intelligent heat
- Patent of code setting--input numbers directly



KT - THR01

Thermometer & Hygrometer & Remote control

- 1028 in 1
- Comfort expression display
- High precision, low power consumption
- Original A/C remote control function



KT - 3999

Universal A/C Remote Control

- 4000 in 1
- Codes inputting
- Timer on/off
- Clock function



KT - 6018

Universal A/C Remote Control

- 6000 in 1
- Codes inputting
- Timer on/off



KT - 208II

Universal A/C Remote Control

- 208 in 1
- Sliding cover
- Too cool & Too warm



KT - 508II

Universal A/C Remote Control

- 508 in 1
- Sliding cover
- Too cool & Too warm



KT - 518

Universal A/C Remote Control

- 1028 in 1
- Flip-cover design
- Permanent memory for codes
- Clock function



KT - N828

Universal A/C Remote Control

- 2000 in 1
- LCD back light
- Codes inputting
- Large room temperature displayed



QD85C

Universal Inverter A/C Control System

- 18000-24000 BTU
- AC fan Inverter
- Colorful & Touching LCD screen
- To adjust the frequency of the compressor

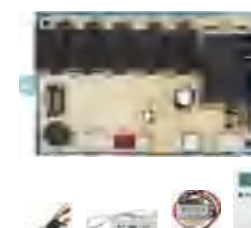
FOR SPLIT AIR CONDITIONER



QD - U05PG+

Universal Air conditioner control system

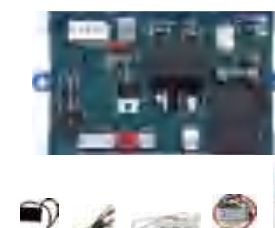
- Double sensors
- High-power output
- PG motor



QD - U08C

Universal Air conditioner control system

- Auto restart
- Digital temperature display
- Outdoor fan controlled independently



QD - U08PGC+(SW)

PG motor series Universal Air conditioner control system

- Switch power
- PG+tap motor
- Bigger LED display



QD - U02B+(M)

Universal Air conditioner control system

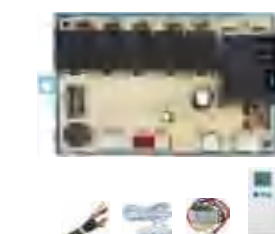
- 3 fan speed
- Luxury receiver
- Transformer plug



QD - U03A+

Universal Air conditioner control system

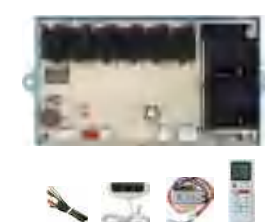
- 3 fan speed
- Colorful plug
- Special for tapped-winding motor



QD - U03C+

Universal Air conditioner control system

- Auto restart
- Double sensors
- Outdoor fan controlled independently



QD - U10A

Universal A/C Remote Control

- Electrical heating
- LED temperature display
- Display panel manually operated



QD80C

Universal AC/DC inverter control system for split air conditioner

- 6000-12000 BTU
- Easy for installation
- Powerful and intelligent inverter module
- Using high-quality chip, stable and reliable



QD80CU

Universal AC/DC inverter control system for split air conditioner

- 18000-24000 BTU
- Easy for installation
- Powerful and intelligent inverter module
- Using high-quality chip, stable and reliable

SCX1 FIRST AND SECOND LEVEL
CONTACTORS



SCX1 (20-40 LFA)

Coil Voltage	One pole contactor				two pole contactor			
	24	120	208/240	277	24	120	208/240	277
Coil resistance	18	420	1800	2500	11	237	1000	1600
pull-in voltage	18	88	177	221	18	88	177	221
Release voltage	6-15	20-70	40-140	50-165	6-15	20-70	40-140	50-165
Power consumption of suction ·50Hz	31	31	31	31	33	33	33	33
Power consumption of suction ·60Hz	28	28	28	28	30	30	30	30
Maintain power consumption ·50Hz	6	6	6	6	8	8	8	8
Maintain power consumption ·60Hz	5	5	5	5	6.5	6.5	6.5	6.5
Maximum coil voltage	30	132	264	300	30	132	264	300



CONTACT ELECTRICAL PARAMETERS

(FLA)Full load current(FLA)	Resistive load current(A)@600 VAC	locked-rotor Current(A) @240/277VAC	locked-rotor current(A) @480 VAC	locked-rotor current(A)@600 VAC	Maximum horsepower (HP)	
					voltage	single
One pole contactor						
20	30	120	100	80	120 240	1 2
25	35	150	125	100	120 240	1 2
30	40	150	125	100	120 240	1 2
40	50	200	160	120	120 240	1 2
Two pole contactor						
20	30	120	100	80	120 240	2 3
25	35	150	125	100	120 240	2 3
30	40	150	125	100	120 240	2 3
40	50	200	160	120	120 240	2 3

SCX1 THIRD AND SECOND LEVEL
CONDITIONING



SCX1 (20-40 LFA)

CONTACT ELECTRICAL PARAMETERS

Coil Voltage	Triple pole contactor				Quadru pole contactor			
	24	120	208/240	277	24	120	208/240	277
Coil resistance	7	180	720	900	6	150	600	750
pull-in voltage	18	88	177	221	18	88	177	220
Release voltage	6-15	20-70	40-140	50-165	6-15	20-70	40-140	60-185
Power consumption of suction ·50Hz	65	65	65	65	62	62	62	62
Power consumption of suction ·60Hz	60	60	60	60	59	59	59	59
Maintain power consumption ·50Hz	7.5	7.5	7.5	7.5	9	9	9	9
Maintain power consumption ·60Hz	6	6	6	6	7	7	7	7
Maximum coil voltage	30	132	264	300	30	132	264	300

CONTACT ELECTRICAL PARAMETERS

Resistive load current(A)@600 VAC	locked-rotor Current(A) @240/277VAC	locked-rotor current(A) @480 VAC	locked-rotor current(A)@600 VAC	Maximum horsepower (HP)		
				voltage	single	three terms
65	300	250	200			- 15 15 25 25
75	360	300	240			- 25 25 30 30
93	450	375	300			- 20 25 40 40
120	540	450	360			- 25 30 50 50



THREE POLE CONTACTOR MODEL CODE

Current	number of poles	24V coil	120V coil	208/240V coil	277V coil
50FLA	3	SCX1-3XQ05CJ	SCX1-3XT05CJ	SCX1-3XU05CJ	SCX1-3XV05CJ
60FLA	3	SCX1-3XQ06CJ	SCX1-3XT06CJ	SCX1-3XU06CJ	SCX1-3XV06CJ
75FLA	3	SCX1-3XQ07CJ	SCX1-3XT07CJ	SCX1-3XU07CJ	SCX1-3XV07CJ
90FLA	3	SCX1-3XQ09CJ	SCX1-3XT09CJ	SCX1-3XU09CJ	SCX1-3XV09CJ

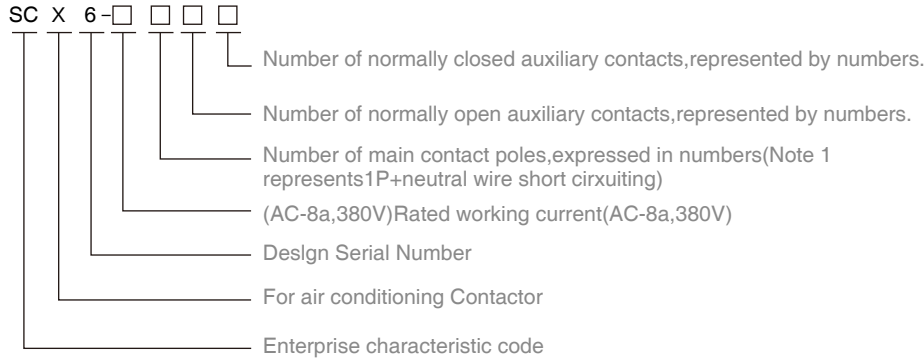
SPECIFICATION

Dielectric Strength		2,200VAC/Between contact and coil: 2200VAC
		2,200VAC/Between poles: 2200VAC
		2,200VAC/Between open contacts: 2200VAC
Arc extinguishing cover		standard configuration
Insulation materials		130 C Class B
Temperature range		-40 C to +65 C , 40F to +150F
Weight		50-60FLA 0.91kg,75-90FLA 1.81kg
Terminal type		Aluminum pressure wire box
Wiring size		50/60FLA 14-2/50/60FLA crimping box 14-2
		75/90FLA 14-1/75/90FLA crimping box 14-1
Recommended locking torque	Crimping BOX	5.67N.m
Weight	Coil terminal	Double.250"pin or #6-32 screw/.250" pin
	Main circuit terminal	Double. 250 "pin

CONTACT ELECTRICAL PARAMETERS

Coil Voltage	50-60 FLA contactor				75-90 FLA contactor			
	24	120	208/240	277	24	120	208/240	277
Coil resistance	7	180	720	900	0.65	16	64	85
pull-in voltage	18	93	177	235	18	88	177	220
Release voltage	6-15	20-70	40-140	50-165	6-15	20-70	40-110	65-185
Power consumption of suction ·50Hz	140	140	140	140	285	285	285	285
Power consumption of suction ·60Hz	132	132	132	132	240	240	240	240
Maintain power consumption ·50Hz	20	20	20	20	42	42	42	42
Maintain power consumption ·60Hz	14	14	14	14	27	27	27	27
Maximum coil voltage	30	132	264	300	30	132	264	300

SCX6 AC CONTACTORS FOR AIR
CONDITIONING



SCX6 (25~40A)

Model	Rated insulation voltage (V)	Agreed freeair Heating current(A)	Rated operation Voltage (V)	Rated operation Current (A)	Maximum on/off current (A)	Agreed operational performance AC-8a (10000times)	Coil power consumption	
							actuation / VA	Retention / VA
SCX6-25/1、SCX6-25/101	630	32	220/230	25	150			
SCX6-25/2			380/400	25	150			
SCX6-32/1、SCX6-32/101		40	220/230	32	192			
SCX6-32/2			380/400	32	192			
SCX6-40/1、SCX6-40/101		50	220/230	40	240			
SCX6-40/2			380/400	40	240			

Ith(A)	Ui(V)	Auxiliary contact capacity	
		AC(VA)	DC(W)
10	630	300	30

Contactor model		Lead(mm2)		Tightening torque(N.m)
		Single core hard wire	Flexible wire with prefabricated end	
Main circuit	SCX6-25	2.5~6	2.5~4	2.0(M5)
	SCX6-32	4~10	2.5~6	2.0(M5)
Auxiliary circuit	SCX6-40	4~10	2.5~6	2.0(M5)
	SCX6-25/101~40/101	/	1.0~1.5	1.2(M4)

A/C DISCONNECT SWITCH BOX



SDS & SCDS

SPECIFICATION

Cat.No.	Main Ampere Rating	HP Rating		Wire Size Range Cu/Al60 or75 C	Product Code	Full Load Amps	Fuse
		120V	240V				
SDS-30A,SCDS-30A	30AMP, 240VAC 1 PHASE, 3 WIRE	STD.0.5 MAX.2	STD.1.5 MAX.3	#14-3	PCDS:Plastic Enclosure; PDS:Metal Enclosure	60A:60A; 30A:30A;	Nil:Fused; N:Non-Fused;
SDS-60A,SCDS-60A	60AMP,240VAC 1 PHASE,3 WIRE	STD.1.5 MAX.3	STD.3 MAX.10	#14-3			
SDS-60AN,SCDS-60AN	60AMP,240VAC 1 PHASE,3 WIRE		STD.3 MAX.10	#14-3			

CERTIFICATION&COMPLIANCE

UL Certificates:	
Application:	HVAC/R;
Standard:	
Complianc:	RoHS Complianc;

AIR CONDITIONING
DISCONNECTS

PCDS



Cat.No.	Description	Main Ampere Rating	HP Rating		Wire Size(AWG) & Torque Cu/AL		
			120V	240V	LINE/LOAD	GROUND	
PCDS-30A	Enclosed Fused ACD	30AMP 240V 1PHASE 2-Pole 3-WIRE	STD.0.5 MAX.2	STD.1.5 MAX.3	#14-10 35LB-IN #8-6 45LB-IN #4-2 50LB-IN	#14-10 #8	25LB-IN 40LB-IN
PCDS-60A	Enclosed Fused ACD	60AMP 240V 1PHASE 2-Pole 3-WIRE	STD.3 MAX.10	STD.3 MAX.10	#14-10 35LB-IN #8-6 45LB-IN #4-2 50LB-IN	#14-10 #8	25LB-IN 40LB-IN
PCDS-60AN	Enclosed Fused ACD	60AMP 240V 1PHASE 2-Pole 3-WIRE	/	STD.3 MAX.10	#14-10 35LB-IN #8-6 45LB-IN #4-2 50LB-IN	#14-10 #8	25LB-IN 40LB-IN

AIR CONDITIONING
DISCONNECTS



PDS&PDB

Cat.No.	Description	Main Ampere Rating	HP Rating		Wire Size(AWG) & Torque Cu/AL		
			120V	240V	LINE/LOAD	GROUND	
PCDS-30A PDB-30A	Enclosed Fused ACD	30AMP 240V 1PHASE 2-Pole 3-WIRE	STD.0.5 MAX.2	STD.1.5 MAX.3	#14-10 35LB-IN #8-6 45LB-IN #4-2 50LB-IN	#14-10 #8	25LB-IN 40LB-IN
PCDS-60A PDB-60A	Enclosed Fused ACD	60AMP 240V 1PHASE 2-Pole 3-WIRE	STD.3 MAX.10	STD.3 MAX.10	#14-10 35LB-IN #8-6 45LB-IN #4-2 50LB-IN	#14-10 #8	25LB-IN 40LB-IN
PCDS-60AN PDB-60AN(Mini)	Enclosed Non-Fused ACD	60AMP 240V 1PHASE 2-Pole 3-WIRE	/	STD.3 MAX.10	#14-10 35LB-IN #8-6 45LB-IN #4-2 50LB-IN	#14-10 #8	25LB-IN 40LB-IN

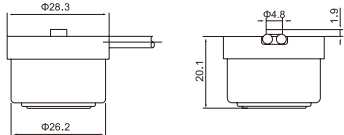
BI-METAL DEFROST THERMOSTATS

KSD 10 SERIES



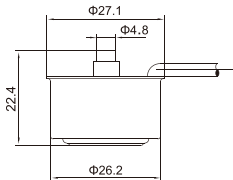
KSD-1008

OPEN:60°F CLOSE:40°F



KSD-1009

OPEN:60°F CLOSE:40°F



KSD 20 SERIES



KSD-2001

- OPEN:13 C
- CLOSE:-4 C



KSD-2002

- OPEN:12 C
- CLOSE:-5 C
- +FUSE72 C



KSD-2003

- OPEN:12 C
- CLOSE:-5 C
- +FUSE72 C



KSD-3003

- OPEN:9 C
- CLOSE:-2 C



KSD-3004

- OPEN:8 C
- CLOSE:-4 C



KSD-3006

- OPEN:13 C
- CLOSE:-4 C

BI-METAL DEFROST THERMOSTATS

KSD 40 SERIES (10-80)



- | | | |
|--------------|-------------|--------------|
| KSD-4001 | KSD-4002 | KSD-4003 |
| • OPEN:8 C | • OPEN:13 C | • OPEN:8 C |
| • CLOSE:-7 C | • CLOSE:0 C | • CLOSE:-4 C |
| +FUSE72 C | | +FUSE76 C |

KSD 50 SERIES



- | | | |
|------------|------------|------------|
| KSD-5011A1 | KSD-5011A2 | KSD-5011B1 |
|------------|------------|------------|

KSD 60 SERIES (10-90)



- | | | |
|----------|----------|----------|
| KSD-6007 | KSD-6008 | KSD-6009 |
|----------|----------|----------|

KSD 70 SERIES (10-90)



- | | | |
|----------------------------|------------------|------------------|
| KSD-7001 | KSD-7003 | KSD-7004 |
| • OPENTEMP
75 C 250V 5A | • OPEN TEMP 65 C | • OPEN TEMP 70 C |

KSD 80 SERIES (10-90)



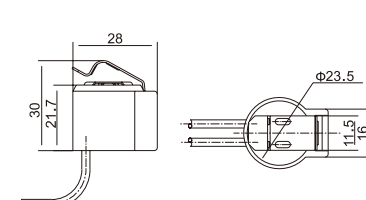
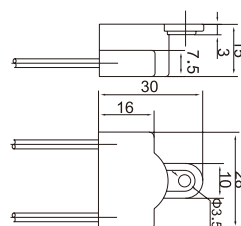
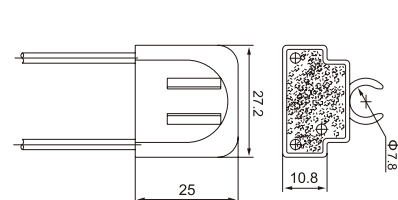
KSD-8003(A)
OPEN:47°F CLOSE:15°F



KSD-8004
OPEN:15 C CLOSE:-1 C



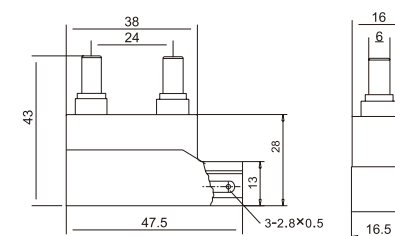
KSD-8006
OPEN:47°F CLOSE:25°F



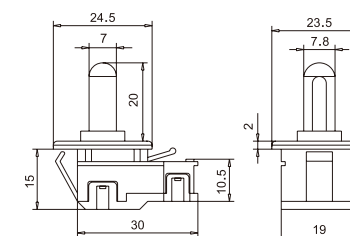
LTK SERIES



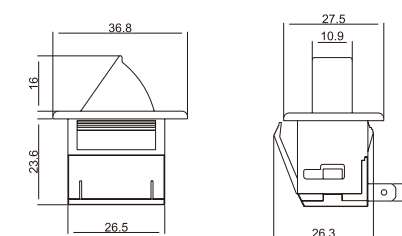
LTK-10A
3A 250VAC 3PINS



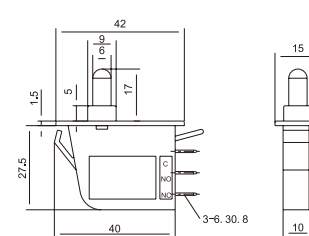
LTK-11
0.5A 250VAC 2PINS



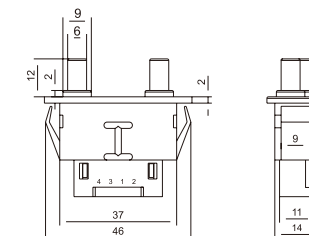
LTK-12-1
0.5A 250VAC 2PINS



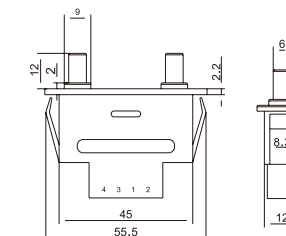
LTK-2
0.5A 250VAC 2PINS & 3PINS



LTK-11
0.5A 250VAC 4PINS



LTK-9
0.5A 250VAC 3PINS



LED/LTD SERIES



E12F
AC 220V >1W



0064
AC 115V/AC 220V >1W



WK-2
DC 12V

STARTER RELAY(A)



A-007
RP Relay



A-008
RP Relay



A-009
RP Relay(Black)



A-010
RP Relay(White)



A-011
QD Relay



A-012
QD Relay

The specification	1/10HP	1/8HP	1/6HP	1/5HP	1/4HP	1/3HP	1/2HP
Applied power	74	93	125	150	180	245	370
Pick-upcurrent(A)	2.5	3.0	3.6	4.75	5.35	6.0	75
Drop-outcurrent(A)	2.0	2.6	3.0	3.35	4.25	4.75	6.0



A-013
PTC Relay



A-014
IC-1 Relay



A-015
IC-3 Relay(Black)



A-016
IC-3 Relay(White)



A-017
IC-4 Relay



A-018
ICG1 Relay



A-019
PTC Relay



A-020
PTC Relay



A-021
PTC Relay

The constant resistance	Q±20%	4.7	12	15	22	33	47	DANFOSS
Max.Voltage	V	450	450	450	450	450	450	450
Max.Current	A	18	10	9	8	7	6	12
Power consumption		<3T	<3T	<3T	<3T	<3T	<3T	<5T
Movement time	S	0.14-0.56	0.14-0.56	0.14-0.56	0.14-0.56	0.14-0.56	0.14-0.56	0.2-1.0
Resume time	S	≤90	≤90	≤90	≤90	≤90	≤90	≤90

STARTER RELAY(A)



A-027
S-Relay



A-029
PTC Relay (PL8)



A-028
S-Relay



A-031
Starter & Protector



B-001
QD OVERLOAD



B-002
QD OVERLOAD



B-003
QD OVERLOAD



B-004
QD OVERLOAD



B-005
QD OVERLOAD



B-006
QD OVERLOAD



B-007
4TM OVERLOAD



B-008
4TM OVERLOAD

The constant resistance	1/10HP	1/8HP	1/6HP	1/5HP	1/4HP	1/3HP	1/2HP	3/8HP	HP	1.5HP	2HP
Applied power	74	93	125	150	180	245	370	275	750	1100	1500
Overload Current(A)	5.3	5.6	6.8	8	8.7	10	12	11	16	24	30
Break time(S)25 C	7-15										
Applied temperature(C)	100-400								125-155		
Restored temperature	50-80										

CBB65-RAC MOTOR CAPACITOR



TECHNICAL PARAMETER

Ambient Temp.	Rated Voltage	Range of Capacitance	Testing Voltage	Dissipation Factor	Operating Frequency
-40-85℃	150~500	1~100	T-T:2Un/2ST- C:≥2400VAC/2S	$\tan\delta\leq0.002(100\text{Hz})$	50/60Hz

TECHNICAL PARAMETER

Capacitance(uf)	240VAC-300VAC		350VAC-400VAC		440VAC-450VAC	
	D	H	D	H	D	H
2	40	55	40	55	40	55
3	40	55	40	55	40	55
4	40	55	40	55	40	55
5	40	55	40	55	40	55
7.5	40	55	40	65	40	65
10	40	55	40	55	40	65
12.5	40	55	40	65	40	75
15	40	55	40	65	40	75
17.5	40	65	40	75	40	75
20	40	75	45	75	50	65
25	40	75	45	85	50	75
30	45	75	50	75	50	85
35	45	75	50	75	50	85
40	45	85	50	85	50	100
45	45	100	50	100	50	110
50	45	100	50	100	50	110
55	50	90	50	110	50	125
60	50	100	50	125	50	125
65	50	110	50	125	55	110
70	50	125	55	110	55	125
80	50	125	55	125	60	125
100	55	125	60	125	60	140

CBB61 AC MOTOR CAPACITOR



TECHNICAL PARAMETER

Ambient Temp.	Rated Voltage	Range of Capacitance	Testing Voltage	Dissipation Factor	Operating Frequency
-40-85℃	150~500	0.5~30	T-T:2Un/2S	$\tan\delta\leq0.002$ (100Hz)	50/60Hz

OUTLINE SIZE

Capacitance	240VAC-300VAC			350VAC-400VAC			440VAC-450VAC		
	L	B	H	L	B	H	L	B	H
1	37	12	23	37	12	23	37	12	23
1.2	37	12	23	37	12	23	37	12	23
1.5	37	12	23	37	12	23	37	12	23
1.8	37	12	23	37	14	24	37	14	24
2.5	37	12	23	37	15	26	38	16.5	29
3	37	14	24	38	16.5	29	37	18	29
3.5	37	15	26	37	18	29	37	20	29
4	38	16.5	29	37	20	29	47	16.5	29
4.5	37	18	29	47	16.5	29	47	18	29
5	37	18	29	47	18	29	47	18	34
6	47	16.5	29	47	8	34	47	20	34
7/7.5	47	18	29	47	20	34	47	23	35
8	47	18	29	47	22	34	47	23	35
10	47	18	34	47	26	38	47	26	38
12	47	22	34	47	26	38	58	28	40
14	47	26	38	58	28	40	58	28	40
15	47	26	38	58	28	40	58	28	40
16	47	26	38	58	28	40	58	30	48
18	58	23	37	58	30	48	58	30	48
20	58	28	40	58	30	48	58	30	48
24	58	28	40	58	30	48	59	35	49

HARD START KIT CAPACITOR

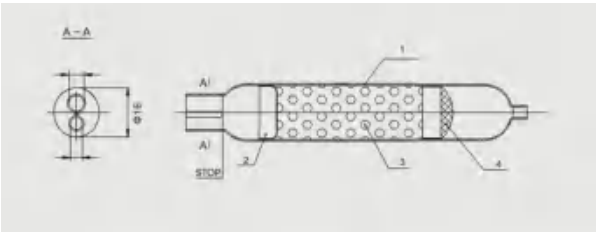


OUTLINE SIZE

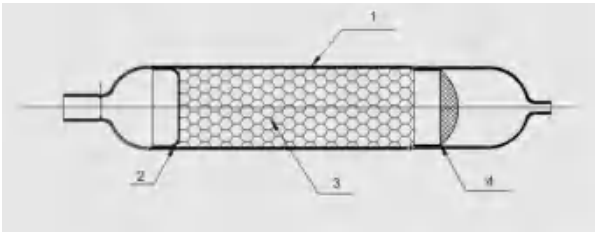
Model	Capacitance	D1 (mm)	D2 (mm)	D3 (mm)	H (mm)
SPP4	36-43	37	45	46	130
SPP5	43-52	37	45	46	130
SPP5	53-64	37	45	46	130
SPP5	64-77	37	45	46	130
SPP6	72-88	46	45	46	155
SPP6	108-130	46	45	46	155
SPP7	130-156	46	45	46	155
SPP7	161-193	46	45	46	155
SPP8	216-259	46	45	46	155
RCO-810	1/12-1/5HP	37	45	46	115
RCO-410	1/4-1/3HP	37	45	46	130

COPPER FILTER DRIER DIAGRAM

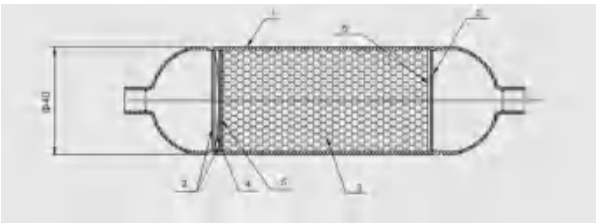
STRUCTURE CHART OF DRYER FILTER



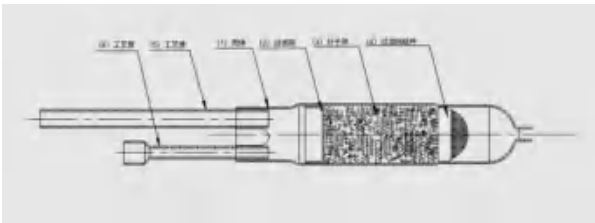
Double Hole Structure Diagram



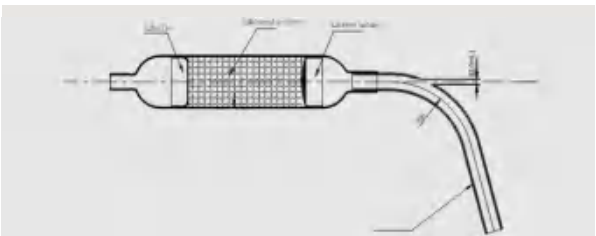
Single hole structure diagram



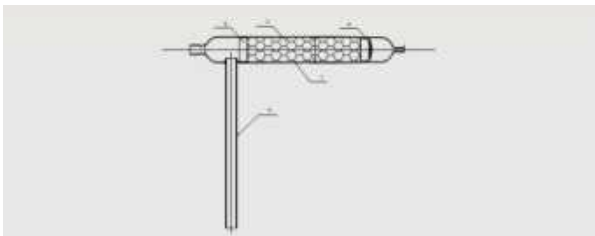
Special structural diagram



Special structural diagram



Special structural diagram



Special structural diagram

FILTER TECHNICAL PARAMETER

DRYER FILTER CATALOG

Tube(D)	Thickness(T)	Length(L)	Inlet ID	Outlet ID	Specification of filter Screen	Filter Assembly	Molecular Sieve	Specification of Molecular Sieve
φ15.8mm	0.4-0.5mm	80-200mm	φ4.0-8.2mm	φ1.85-6.5mm	100-200 (brass/phosphorous copper/stainless steel)	Brass/copper plating	5-15g	XH-5 XH-7 XH-9
φ16mm	0.4-0.55mm	80-200mm	φ4.0-8.2mm	φ1.85-6.5mm		Brass/copper plating	5-15g	
φ18.9mm	0.4-0.5mm	80-200mm	φ4.0-8.2mm	φ1.9-6.5mm		Brass/copper plating	5-15g	
φ19mm	0.5-2mm	80-200mm	φ4.0-8.2mm	φ2.1-6.5mm		Brass/copper plating	5-15g	
φ25mm	0.6-0.65mm	100-200mm	φ6.1-10.02mm	φ2.4-6.5mm		Brass/copper plating	5-15g	
φ40mm	0.8-1mm	90-200mm	φ6.1-10.02mm	φ6.1-10.02mm	Stainless steel mesh 100-200	Brass/copper plating	5-15g	

CONNECT PIPE CATALOGUE

Tube(D)	Thickness(T)	Length(L)	Inlet ID	Outlet ID
Process tube	φ4.0-10mm	0.4-0.9mm	50-1000	Used directiy
Flaring Process Tube	φ4.0-10mm	0.4-0.75mm	50-1000	Used after flaring
Necking Process Tube	φ4.0-10mm	0.4-0.75mm	50-1000	Used after necking or grinding
Bore Process Tube	φ4.0-10mm	0.4-0.75mm	50-1000	After bent to bore or directly
Bent Tube	φ4.0-10mm	0.5-0.9mm	50-1000	Used after bent
Transit Tube	φ4.0-6.0mm	0.4-0.75mm	50-500	Used after traction control flaring shrinkage and bending
Receiver Tank	φ16-40mm	0.4-1mm	50-1000	The aluminum tube and pipe assembly parts together

PACKAGE



LIQUID LINE FILTER DRIERS

FEATURES

- High pressure shell and connections
- Solid core design
- Filter pad and mesh to remove solid particles



CORES

'M'Core

- 100% Molecular Sieve.
- High drying capacity
- Suitable for HCFC, HFC and CO₂, refrigerants

A' Core

- 80% Molecular Sieve and 20% Activated Alumina
- Absorbs moisture and acid in the system
- Not suitable for oils containing additives
- Suitable for HCFC, HFC and CO, refrigerants

LIQUID LINE FILTER DRIERS

Part No	SAE Hare/ ODS (inch)	Drying Capacity (kg of refrigerant)								Liquid Copacity(kw)					
		R22		R134a		R404A/R507		R407C/R410A		R22	R134a	R404A	R407C	R410A	C02
		75F[24C]	125F[52C]	75F[24C]	125F[52C]	75F[24C]	125F[52C]	75F[24C]	125F[52C]						
WLM-032/S	1/4	4.9	4.6	5.3	5.0	7.8	4.8	5.3	4.6	6.1	5.8	3.2	6.1	6.5	8.9
WLM-033/5	3/8	4.9	4.6	5.3	5.0	7.8	4.8	5.3	4.6	20.8	17.7	10.3	20.8	22.1	27.
WLM-052/5	1/4	9.8	9.1	10.6	10.1	15.6	9.6	10.6	9.1	7.7	6.4	3.5	7.7	8.2	9.8
WLM-053/5	3/8	9.8	9.1	10.6	10.1	15.6	9.6	10.6	9.1	19.0	17.2	10.2	19.0	20.2	26.3
WLM-082/5	1/4	15.8	14.6	16.9	16.1	24.9	15.4	17.0	14.6	7.9	6.6	3.6	7.9	8.5	10.1
WLM-083/5	3/8	15.8	14.6	16.9	16.1	24.9	15.4	17.0	14.6	21.7	18.7	10.5	21.7	23.1	28.7
WLM-084/5	1/2	15.8	14.6	16.9	16.1	24.9	15.4	17.0	14.6	31.1	26.7	15.6	31.1	33.2	40.8
WLM-162/S	1/4	24.6	22.8	26.4	25.2	38.9	24.1	26.6	22.8	8.6	7.2	3.9	8.6	9.2	11.0
WLM-163/5	3/8	24.6	22.8	26.4	25.2	38.9	24.1	26.6	22.8	23.0	20.1	11.1	23.0	24.5	30.8
WLM-164/S	1/2	24.6	22.8	26.4	25.2	38.9	24.1	26.6	22.8	34.9	30.3	16.9	34.9	37.3	46.4
WLM-165/S	5/8	24.6	22.8	26.4	25.2	38.9	24.1	26.6	22.8	34.4	30.1	16.0	34.4	36.7	46.1
WLM-303/5	3/8	51.2	47.4	55.0	52.3	81.0	50.0	55.3	47.4	23.2	20.2	11.0	23.2	24.1	31.0
WLM-304/S	1/2	51.2	47.4	55.0	52.3	81.0	50.0	55.3	47.4	35.7	31.1	16.8	35.7	38.1	47.6
WLM-305/S	5/8	51.2	47.4	55.0	52.3	81.0	50.0	55.3	47.4	43.5	38.2	21.3	43.5	46.4	58.4
WLM-306/5	3/4	51.2	47.4	55.0	52.3	81.0	50.0	55.3	47.4	64.3	56.0	30.9	64.3	68.5	85.6
WLM-307S	7/8	51.2	47.4	55.0	52.3	81.0	50.0	55.3	47.4	70.1	61.2	33.8	70.1	74.8	93.6
WLM-413/5	3/8	76.8	71.2	82.4	78.5	121.4	75.0	82.9	71.1	26.3	23.2	12.7	26.3	28.0	35.5
WLM414/S	1/2	76.8	71.2	82.4	78.5	121.4	75.0	82.9	71.1	41.6	36.4	19.9	41.6	44.4	55.6
WLM-415/S	5/8	76.8	71.2	82.4	78.5	121.4	75.0	82.9	71.1	58.3	50.9	27.1	58.3	62.2	77.9
WLM416/5	3/4	76.8	71.2	82.4	78.5	121.4	75.0	82.9	71.1	67.7	59.1	31.4	67.7	72.2	90.4

LIQUID LINE FILTER DRIERS

Part No	SAE Hare/ ODS (inch)	Drying Capacity (kg of refrigerant)								Liquid Copacity(kw)					
		R22		R134a		R404A/R507		R407C/R410A		R22	R134a	R404A	R407C	R410A	C02
		75F[24C]	125F[52C]	75F[24C]	125F[52C]	75F[24C]	125F[52C]	75F[24C]	125F[52C]						
WLA-032/S	1/4	4.3	4.0	4.6	4.4	7.4	4.0	4.5	3.9	6.1	5.8	3.2	6.1	6.5	8.9
WLA-033/S	3/8	4.3	4.0	4.6	4.4	7.4	4.0	4.5	3.9	20.8	17.7	10.3	20.8	22.1	27.1
WLA-052/S	1/4	8.6	8.0	9.2	8.8	14.8	8.0	9.1	7.7	7.7	6.4	3.5	7.7	8.2	9.8
WLA-053/S	3/8	8.6	8.0	9.2	8.8	14.8	8.0	9.1	7.7	19.0	17.2	10.2	19.0	20.2	26.3
WLA-082/S	1/4	13.8	12.8	14.8	14.1	23.7	12.8	14.5	12.4	7.9	6.6	3.6	7.9	8.5	10.1
WLA-083/S	3/8	13.8	12.8	14.8	14.1	23.7	12.8	14.5	12.4	21.7	18.7	10.5	21.7	23.1	28.7
WLA-084/S	1/2	13.8	12.8	14.8	14.1	23.7	12.8	14.5	12.4	31.1	26.7	15.6	31.1	33.2	40.8
WLA-162/S	1/4	21.5	19.9	23.1	22.0	37.0	19.9	22.6	19.3	8.6	7.2	3.9	8.6	9.2	11.0
WLA-163/5	3/8	21.5	19.9	23.1	22.0	37.0	19.9	22.6	19.3	23.0	20.1	11.1	23.0	24.5	30.8
WLA-164/S	1/2	21.5	19.9	23.1	22.0	37.0	19.9	22.6	19.3	34.9	30.3	16.9	34.9	37.3	46.4
WLA-165/S	5/8	21.5	19.9	23.1	22.0	37.0	19.9	22.6	19.3	34.4	30.1	16.0	34.4	36.7	46.1
WLA-303/S	3/8	44.8	41.5	48.1	45.7	77.0	41.5	47.1	40.2	23.2	20.2	11.0	23.2	24.7	31.0
WLA-304/S	1/2	44.8	41.5	48.1	45.7	77.0	41.5	47.1	40.2	35.7	31.1	16.8	35.7	38.1	47.6
WLA-305/S	5/8	44.8	41.5	48.1	45.7	77.0	41.5	47.1	40.2	43.5	38.2	21.3	43.5	46.4	58.4
WLA-306/S	3/4	44.8	41.5	48.1	45.7	77.0	41.5	47.1	40.2	64.3	56.0	30.9	64.3	68.5	85.6
WLA-413/S	3/8	67.1	62.2	72.1	68.6	115.5	62.2	70.6	60.2	26.3	23.2	12.7	26.3	28.0	35.5
WLA-414/5	1/2	67.1	62.2	72.1	68.6	115.5	62.2	70.6	60.2	41.6	36.4	19.9	41.6	44.4	55.6
WLA-415/S	5/8	67.1	62.2	72.1	68.6	115.5	62.2	70.6	60.2	58.3	50.9	27.1	58.3	62.2	77.9
WLA-416/5	3/4	67.1	62.2	72.1	68.6	115.5	62.2	70.6	60.2	67.7	59.1	31.4	67.7	72.2	90.4
WLM416/S	3/4	76.8	71.2	82.4	78.5	121.4	75.0	82.9	71.1	67.7	59.1	31.4	67.7	72.2	90.4

BI-FLOW FILTER DRIERS

CORES

- 'M'Core
- 100% Molecular Sieve(XH-11)
 - High drying capacity
 - Suitable for HCFC, HFC and CO₂, refrigerants

- 'A' Core
- 80% Molecular Sieve and 20% Activated Alumina
 - Absorbs moisture and acid in the system
 - Not suitable for oils containing additives
 - Suitable for HCFC, HFC and CO₂, refrigerants



LIQUID LINE FILTER DRIERS

Part No	SAE Flare/ODS (inch)	Drying Capacity (kg of refrigerant)							
		R22		R134a		R404A/R507		R407C/R410A	
		75F[24C]	125F[52C]	75F[24C]	125F[52C]	75F[24C]	125F[52C]	75F[24C]	125F[52C]
WLXB-082/S	1/4	15.8	14.6	16.9	16.1	17.0	14.6	5.3	4.6
WLXB-083/S	3/8	15.8	14.6	16.9	16.1	17.0	14.6	5.3	4.6
WLXB-084/S	1/2	15.8	14.6	16.9	16.1	17.0	14.6	10.6	9.1
WLXB-162/S	1/4	24.6	22.8	26.4	25.2	26.6	22.8	10.6	9.1
WLXB-163/S	3/8	24.6	22.8	26.4	25.2	26.6	22.8	17.0	14.6
WLXB-164/S	1/2	24.6	22.8	26.4	25.2	26.6	22.8	17.0	14.6
WLXB-165/S	5/8	24.6	22.8	26.4	25.2	26.6	22.8	17.0	14.6
WLXB-304/S	1/2	51.2	47.4	55.0	52.3	55.3	47.4	26.6	22.8
WLXB-305/S	5/8	51.2	47.4	55.0	52.3	55.3	47.4	26.6	22.8
WLXB-306/S	3/4	51.2	47.4	55.0	52.3	55.3	47.4	26.6	22.8
WLXB-307/S	7/8	51.2	47.4	55.0	52.3	55.3	47.4	26.6	22.8

SEALED FILTER DRIER WITH SIGHT GLASS

CORES

- 'M'Core
- Available with solid copper solder connections or steel flare connections
 - Solid core design
 - Filter pad and mesh to remove solid particles
 - Positive colour contrast indicator paper
 - Quick identification of flow and liquid quantity
 - Suitable for HCFC,HFC,and CO₂Refrigerants



TECHNICAL SPECIFICATION

Part No.	Conn.Size (Inch)	Dimensions		
		A(mm)	B(mm)	L(mm)
WLDS-052S	1/4"	63.5	76.2	177.5
WLDS-053S	3/8"		76.2	177.5
WLDS-082S	1/4"		97.0	198.3
WLDS-083S	3/8"		97.0	198.3
WLDS-084S	1/2"		97.0	198.3
WLDS-162S	1/4"		120.7	222.0
WLDS-163S	3/8"		120.7	222.0
WLDS-164S	1/2"		120.7	222.0
WLDS-165S	5/8"		120.7	223.3
WLDS-166S	3/4"		120.7	228.3
WLDS-167S	7/8"	76	120.7	235.3
WLDS-303S	3/8"		190.0	291.3
WLDS-304S	1/2"		190.0	291.3
WLDS-305S	5/8"		190.0	292.6
WLDS-306S	3/4"		190.0	297.6
WLDS-307S	7/8"		190.0	304.6
WLDS-309S	1 1/8"		190.0	/

Part No.	Conn.Size (Inch)	Dimensions		
		A(mm)	B(mm)	L(mm)
WLDS-052	1/4"	63.5	76.2	159.7
WLDS-053	3/8"		76.2	168.7
WLDS-082	1/4"		97.0	180.5
WLDS-083	3/8"		97.0	189.5
WLDS-084	1/2		97.0	194.5
WLDS-162	1/4		120.7	204.2
WLDS-163	3/8"		120.7	213.2
WLDS-164	1/2"		120.7	218.2
WLDS-165	5/8"		120.7	226.2
WLDS-166	3/4"		120.7	234.2
WLDS-303	3/8"	76	190.0	282.5
WLDS-304	1/2"		190.0	287.5
WLDS-305	5/8"		190.0	295.5
WLDS-306	3/4"		190.0	303.5

MAGNETIC CHECK VALVE

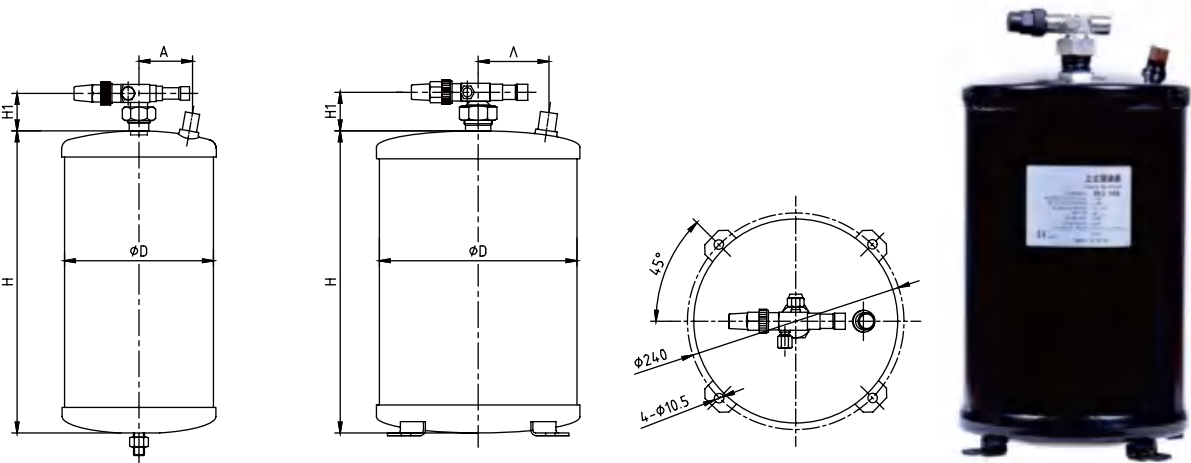
FEATURES

- Robust design
- Quiet and efficient operation
- RoHS Compliant
- Built-in 30 mesh stainless steel screen
- Optimisted seat material with a neoprene Teflon coated valve plate
- Designed for Maximum flow and Minimal pressure drop
- Internal components installed with DuraForm Technology
- Hermetically formed solid copper body assures zero leak potential



Part No.	Conn.Size (Inch)	Dimensions			Kvm ³ /Hr	Cross Reference	
		A(mm)	B(mm)	L(mm)		Henry	Emerson
120-02	1/4	22	8	101	0.47	MS-04	AKC-4
120-03	3/8	22	8	101	0.99	MS-06	AKC-6
120-04	1/2	28	10	127	2.67	MS-08	AKC-8
120-05	5/8	28	13	127	2.97	MS-10	AKC-10
120-06	3/4	41	16	178	5.56	MS-12	AKC-12
120-07	7/8	41	19	178	7.58	MS-14	AKC-14
120-11	1 1/8	54	24	212	13.19	MS-18	AKC-18
120-13	1 3/8	66	25	240	16.26	MS-22	AKC-22
120-15	1 5/8	79	28	266	27.78	MS-26	AKC-26
120-21	2 1/8	92	34	304	48.27	MS-34	AKC-34
120-25	2 5/8	105	38	330	64.76	MS-42	AKC-42

VERTICAL LIQUID RECEIVER

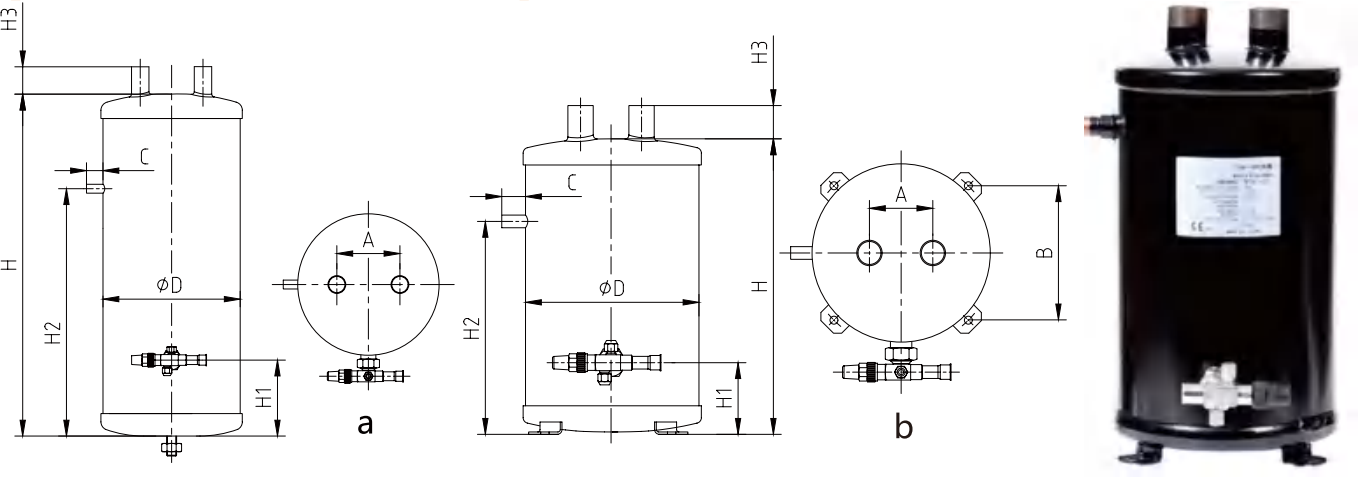


TECHNICAL PARAMETERS

Model No.	ODF Conn. (in)	ΦD (mm)	H (mm)	H 1(mm)	H2(mm)	A (mm)	Volume(L)
WLC-101	3/8"	89	194	132	40	40	1. 1
WLC-102	3/8"	127	258	181	40	40	2.8
WLC-103	3/8"	127	289	204	40	40	3.9
WLC-104	1/2"	159	348	277	40	40	6.3
WLC-105	5/8"	165	414	320	45	45	8
WLC-106	3/4"	165	600	510	45	45	12
WLC-107	7/8"	165	700	610	45	45	14

Model No.	ODF Conn. (in)	ΦD (mm)	H (mm)	H 1(mm)	A (mm)	Volume(L)	schematic drawing
WLC-133	3/8"	102	180	40	45	1	a
WLC-233	3/8"	127	195	40	50	2	a
WLC-333	3/8"	127	310	40	50	3	a
WLC-433	3/8"	165	245	40	55	4	a
WLC-644	1/2"	165	330	40	55	6	a
WLC-844	1/2"	165	415	40	55	8	a
WLC-1055	5/8"	219	310	45	75	10	b
WLC-1255	5/8"	219	370	45	75	12	b
WLC-1455	5/8"	219	430	45	75	14	b
WLC-1677	7/8"	219	489	50	75	16	b
WLC-1877	7/8"	219	549	50	75	18	b
WLC-2177	7/8"	219	610	50	75	21	b

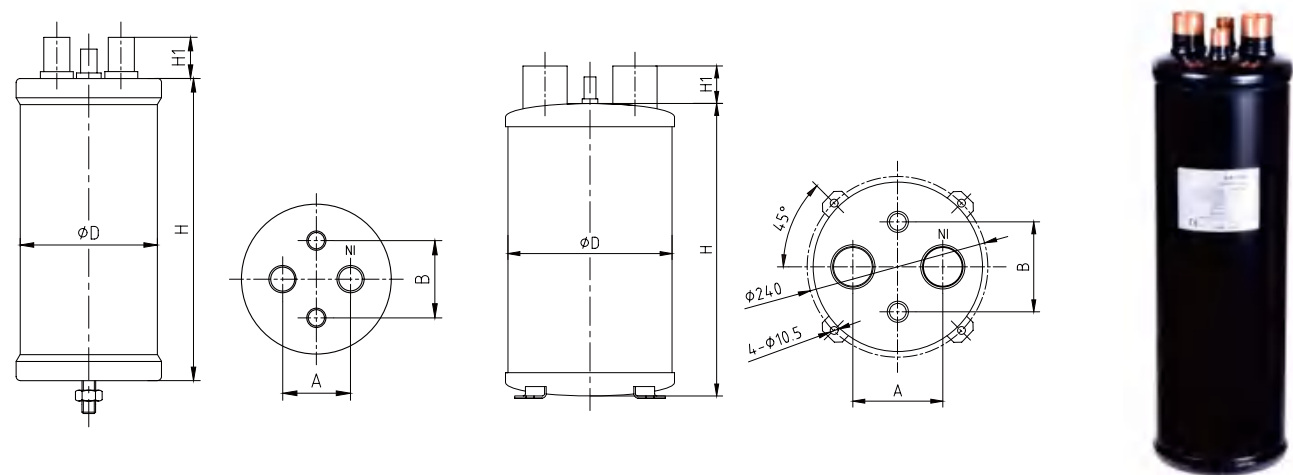
RESERVOIR OF HOT HEAT EXCHANGERS
(THREE - IN - ONE)



TECHNICAL PARAMETERS

Model No.	Compr-essor	Evapora-ting Temp	High pressure Total Volume	Low pressure Total Volume	High pressure Conn	Low pressure Conn	Dimensions(mm)								schematic drawing
							ΦD (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	A (mm)	B (mm)	C (mm)	
WLH-304	1	+5													a
	3/4	-10	0.9	0.5	3/8	1/2	140	240	60	185	40	48	/	35	
	1/2	-30													
WLH-305	2	+5													a
	1.5	-10	1.7	0.8	3/8	5/8	140	245	60	190	40	48	/	35	
	1	-30													
WLH-307	5	+5													a
	3	-10	3.2	2.4	3/8	7/8	165	315	60	255	40	70	/	40	
	2	-30													
WLH-411	10	+5													b
	7.5	-10	4.5	4.2	1/2	1-1/8	219	336	74	256	45	80	170	40	
	5	-30													
WLH-513	15	+5													b
	10	-10	5.8	5.2	5/8	1-3/8	219	396	74	308	45	80	170	40	
	7.5	-30													
WLH-515	20	+5													b
	15	-10	8	6.3	5/8	1-5/8	219	486	74	398	50	80	170	40	
	10	-30													
WLH-721	40	+5													b
	30	-10	12	10	7/8	2-1/8	273	505	120	385	50	108	240	45	
	20	-30													

HEAT EXCHANGER ACCUMULATOR



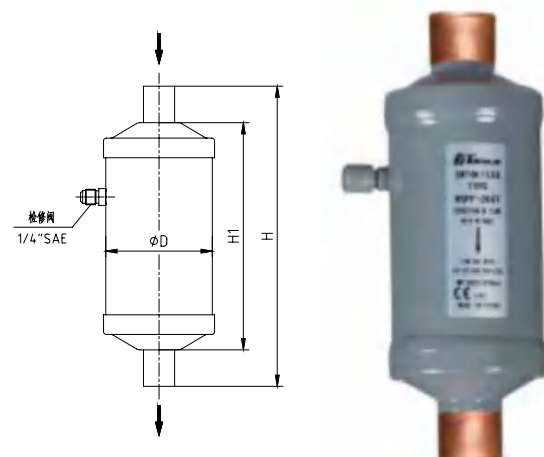
TECHNICAL PARAMETERS

Model No.	Suction Line tube (inch)	Liquid state tube (inch)	ϕD (mm)	H (mm)	H 1(mm)	A (mm)	B (mm)	Volume(L)	schematic drawing
WLR-2404	1/2"	3/8"	102	224	30	53	53	1.6	a
WLR-2405	5/8"	3/8"	102	264	30	53	53	1.9	a
WLR-2406	3/4"	1/2"	140	276	36	80	80	3.8	a
WLR-2407	7/8"	1/2"	140	326	36	80	80	4.4	a
WLR-2411	1-1/8"	5/8"	165	413	40	82	82	8	a
WLR-2413	1-3/8"	3/4"	165	533	40	82	82	10.5	a
WLR-2415	1-5/8"	7/8"	165	583	40	82	82	11.5	a
WLR-2421	2-1/8"	7/8"	219	490	50	120	120	18	b

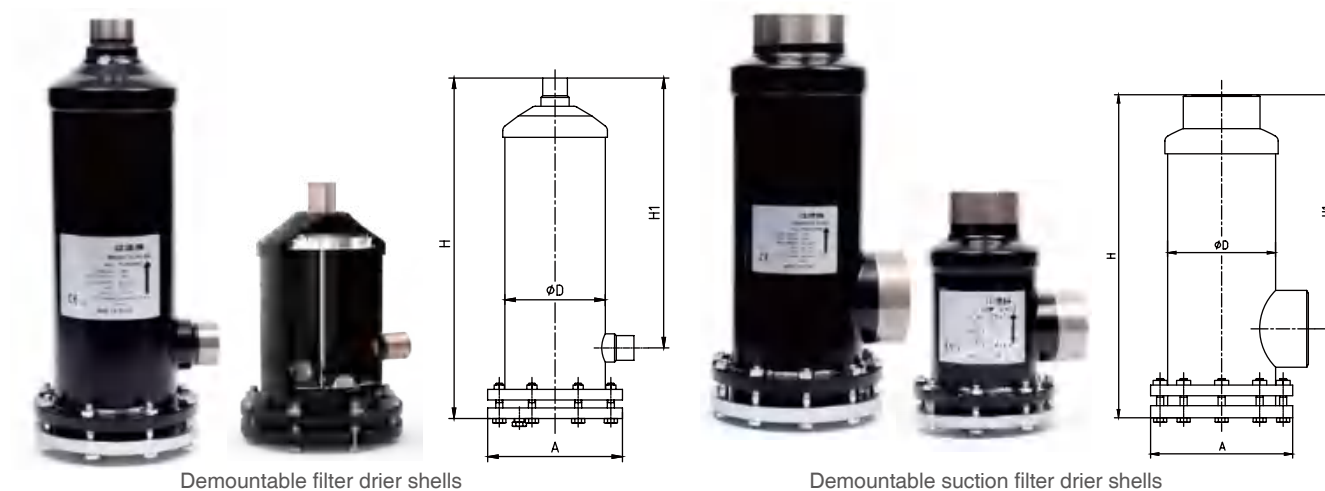
SUCTION LINE FLTER DRIER

TECHNICAL PARAMETERS

Model No.		Connection size (in)	Filtration surface area	Dimensions(mm)		
No Schrader valve	With Schrader valve			D	H	H1
WLF-283F	-	3/8 " SAE	28	76	233	172
-	WLF-285-T	5/8 " ODF		76	212	172
-	WLF-286-T	3/4 " ODF		76	223	172
-	WLF-287-T	7/8 " ODF		76	227	172
-	WLF-289-T	1-1/8 " ODF		76	242	172
-	WLF-489-T	1-1/8 " ODF	48	76	315	260
-	WLF-4811-T	1-3/8 " ODF		76	333	260
-	WLF-4813-T	1-5/8 " ODF		76	340	260



DEMOUNTABLE FILTER DRIER SHELLS & DEMOUNTABLE SUCTION FILTER SHELLS



DEMOUNTABLE FILTER DRIER SHELLS

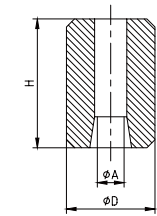
Model No	Connection ODF(in)	Number of cores	Nominal refrigeration capacity			Cross Reference			
			R22	R134a	R404a	H(mm)	ϕD (mm)	A(mm)	H 1(mm)
WLA-485	5/8 "	1	35.2	28.2	28.2	236	114	152	155
WLA-487	7/8 "		45.8	35.2	35.2	239	114	152	157
WLA-489	1-1/8 "		52.8	35.2	35.2	241	114	152	160
WLA-4811	1-3/8 "		70.4	45.8	45.8	246	114	152	162
WLA-967	7/8 "	2	88.0	70.4	52.8	384	114	152	302
WLA-969	1-1/8 "		105.6	88.0	70.4	386	115	152	305
WLA-9611	1-3/8 "		123.2	105.6	88.0	389	116	152	308
WLA-9613	1-5/8 "		140.8	123.2	105.6	341	117	152	310
WLA-1449	1-1/8 "	3	140.8	105.6	105.6	521	118	152	437
WLA-14411	1-3/8 "		176.0	140.8	123.2	526	119	152	442
WLA-14413	1-5/8 "		193.6	158.4	140.8	529	120	152	447
WLA-14417	2-1/8 "		211.2	176.0	158.4	533	121	152	451
WLA-19211	1-3/8 "	4	246.4	176.0	158.4	878	122	152	594
WLA-19213	1-5/8 "		281.6	211.2	193.6	681	123	152	597
WLA-19217	2-1/8 "		299.2	228.2	211.2	686	124	152	601
WLA-30013	1-5/8 "		352.0	284.0	228.8	630	125	200	500
WLA-30017	2-1/8 "	3	352.0	264.0	228.8	638	126	200	503
WLA-30021	2-5/8 "		372.0	281.0	245.8	641	127	200	508
WLA-40017	2-1/8 "	4	457.6	352.0	316.8	879	128	200	775
WLA-40021	2-5/8 "		372.0	281.0	245.8	885	129	200	760
WLA-40025	3-1/8 "		457.6	352.0	316.8	893	130	200	760

DEMOUNTABLE SUCTION FILTER SHELLS

Model No	Connection ODF(in)	Number of cores	Cross Reference			
			H(mm)	φD(mm)	A(mm)	H 1(mm)
WLA-4813	1-5/8 "	1	244	114	152	163
WLA-4817	2-1/8 "		251	114	152	170
WLA-4821	2-5/8 "		250	114	152	160
WLA-4825	3-1/8 "		248	114	152	145
WLA-9617	2-1/8 "	2	396	114	152	315
WLA-9621	2-5/8 "		393	114	152	283
WLA-9625	3-1/8 "		390	114	152	280
WLA-10021	2-5/8 "	1	355	152	200	253
WLA-10025	3-1/8 "		365	152	200	256
WLA-10034	4-1/4 "		376	152	200	260
WLA-20021	2-5/8 "	2	537	152	200	429
WLA-20025	3-1/8 "		539	152	200	431
WLA-20034	4-1/4 "		541	152	200	435
WLA-30021	2-5/8 "	3	705	152	200	515
WLA-30025	3-1/8 "		645	152	200	518
WLA-30034	4-1/4 "		660	152	200	533
WLA-40025	3-1/8 "	4	823	152	200	696
WLA-40034	4-1/4 "		870	152	200	700

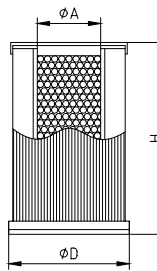
D/H TYPE DRIER - FILTER CORES

Model No	φD(mm)	H(mm)	A(mm)
D-48	94	140	45
H-48	94	140	45
H-100	122	166	52



X/F TYPE SUCTION FILTER CORES

Model No	φD(mm)	H(mm)	A(mm)
X-48	94	140	64
X-100	122	166	90
F-48	94	140	64
F-100	122	166	90
TX-100	120	140	95
TF-100	120	305	95
TX-200	120	140	95
TF-200	120	305	95



OIL RESERVOIRS

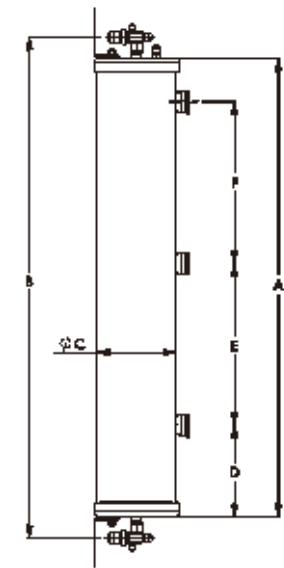


Fig.1

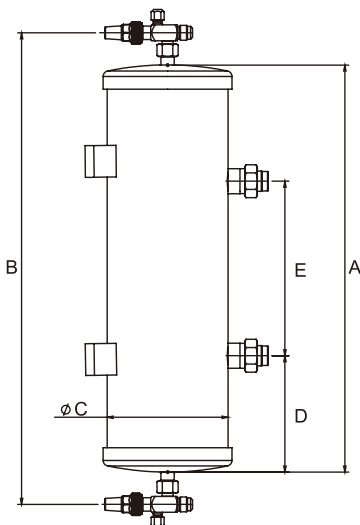


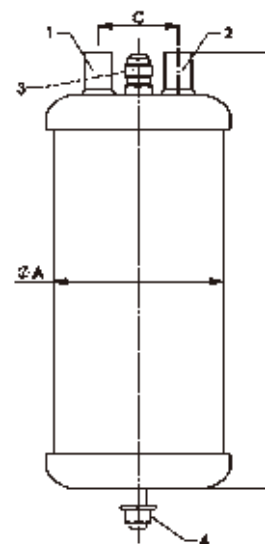
Fig.2



DEMOUNTABLE SUCTION FILTER SHELLS

Model No	Dimensions(mm)						Drawing Ref.	Qty of sight glass	Volume(L)	MWP(bar)
	A	B	C	D	E	F				
OR-6802G	426	507	152	177	165	N/A	Fig.1	2	6.9	45
OR-6803G	654	735	152	177	394	N/A	Fig.1	2	10.7	45
OR-6804G	883	965	152	177	311	311	Fig.1	3	14.5	31
OR-6806	384	469	165	177	125	N/A	Fig.2	2	6	45
OR-6808	513	594	152	177	252	N/A	Fig.2	2	8	45
OR-6810	633	714	152	177	372	N/A	Fig.2	2	10	45
OR-6812	739	824	152	177	311	157	Fig.2	3	12	31
OR-6814	451	539	219	120	210	N/A	Fig.2	2	14	31
OR-6819	580	661	219	140	300	N/A	Fig.2	2	19	31
OR-6823	700	781	219	140	420	N/A	Fig.2	2	23	31

OIL SEPARATOR



55 series:Maximum working pressure
= 31 barg (450 psi) / 42 barg (609 psi)

Operating temperature range
= -10 °C / +130 °C



Model No		(inch) ODS Conn	Dimensions(mm)			Mounting details	DrawingRef.	Volume(L)						Precharge(L)
			A	B	C			R22/R407C		R404A		R134A		
								-30℃	5℃	-30℃	5℃	-30℃	5℃	
H-55043S	H-55803S	3/8	102	180	48	M10	Fig.1	3.0	4.2	3.0	4.2	2.7	3.8	0.48
H-55043	H-55803	3/8	102	278	48	M10	Fig.1	4.1	5.4	4.1	5.4	3.7	4.9	0.48
H-55044	H-55804	1/2	102	278	48	M10	Fig.1	5.8	7.0	5.8	7.0	5.2	6.3	0.48
H-55044L	H-55804L	1/2	102	339	48	M10	Fig.1	5.8	7.0	5.8	7.0	5.2	6.3	0.48
H-55045	H-55805	5/8	102	339	48	M10	Fig.1	16.9	19.3	15.4	19.3	15.2	17.4	0.48
H-55047	H-55807	7/8	102	384	48	M10	Fig.1	25.4	28.1	24.0	28.8	22.9	25.3	0.48
H-55047L	H-55807L	7/8	102	415	48	M10	Fig.1	25.4	28.1	24.0	28.8	22.9	25.3	0.48
H-550411	H-558011	11/8	102	410	48	M10	Fig.1	33.1	37.0	31.7	37.4	29.8	33.3	0.48
H-550613	H-558013	13/8	159	395	75	M10	Fig.1	46.7	49.3	43.1	50.8	42.0	44.4	1.23
H-550615	H-558015	15/8	159	480	75	M10	Fig.1	57.7	63.2	54.2	65.1	51.9	56.9	1.23
H-550621	H-558021	21/8	159	485	75	M10	Fig.1	100.1	105.5	93.4	108.6	90.0	95.0	1.23

DUAL STAGE VACUUM PUMP



TECHNICAL PARAMETER

Model No	Flow Rate				Ultimate Vacuum	Power	Oil Capacity	Dimensions	Weight	Inlet Prot
	50Hz		60Hz							
2CY-0.5A(CY215)	1.5CFM	42L/min	2.0CFM	50L/min	2x10 ⁻¹ Pa	1/4HP	150ml	265x90x215mm	4.2Kg	7/16"-20UNF
2CY-1A (CY220)	1.8CFM	51L/min	2.0CFM	57L/min	2x10 ⁻¹ Pa	1/3HP	200ml	310x118x224mm	7.8Kg	7/16"-20UNF
CY-1.5A (CY240)	3.5CFM	100L/min	4.0CFM	113L/min	2x10 ⁻¹ Pa	1/2HP	325ml	340x133x248mm	9.0Kg	7/16"-20&5/8-18UNF
2CY-2A (CY250)	4.5CFM	128L/min	5.0CFM	142L/min	2x10 ⁻¹ Pa	1/2HP	325ml	340x133x248mm	10Kg	7/16"-20&5/8-18UNF

Model No	Flow Rate				Ultimate Vacuum	Power	Oil Capacity	Dimensions	Weight	Inlet Prot
	50Hz		60Hz							
2CY-3A (CY260)	6.0CFM	170L/min	7.0CFM	198L/min	2x10 ⁻¹ Pa	3/4HP	500ml	395x145x265mm	12Kg	7/16"SAE &5/8-18UNF
2CY-4A (CY280)	8.0CFM	226L/min	9.0CFM	254L/min	2x10 ⁻¹ Pa	1HP	500ml	395x145x265mm	14.3Kg	7/16"SAE &5/8-18UNF
2CY-6A (CY2140)	12.0CFM	340L/min	14.0CFM	370L/min	2x10 ⁻¹ Pa	1HP	500ml	395x145x265mm	15.3Kg	7/16"SAE &5/8-18UNF

SINGLE STAGE VACUUM PUMP



TECHNICAL PARAMETER

Model No	Flow Rate				Ultimate Vacuum	Power	Oil Capacity	Dimensions	Weight	Inlet Prot
	50Hz		60Hz							
CY-1AM (CY-115M)	1.5CFM	42L/min	2.0CFM	57L/min	2Pa	1/4HP	150ml	265x90x215mm	3.9Kg	7/16"-20UNF
CY-1A (CY120)	1.8CFM	51L/min	2.0CFM	57L/min	2Pa	1/4HP	250ml	267x118x236mm	5.2Kg	7/16"-20UNF
CY-1.5A (CY130)	2.5CFM	70L/min	3.0CFM	84L/min	2Pa	1/4HP	250ml	267x118x236mm	5.5Kg	7/16"-20UNF
CY-2A (CY140)	3.5CFM	100L/min	4.0CFM	113L/min	2Pa	1/3HP	250ml	310x118x236mm	6.7Kg	7/16"-20UNF

Model No	Flow Rate				Ultimate Vacuum	Power	Oil Capacity	Dimensions	Weight	Inlet Prot
	50Hz		60Hz							
CY-3A (CY160)	6.0CFM	170L/min	7.0CFM	198L/min	2Pa	1/2HP	415ml	340×133×248mm	9.2Kg	7/4"SAE& 3/8"SAE
CY-4A (CY180)	8.0CFM	226L/min	9.0CFM	254L/min	2Pa	3/4HP	660ml	395×145×265mm	12.8Kg	7/4"SAE& 3/8"SAE
CY-6A (CY1140)	12.0CFM	340L/min	14.0CFM	370L/min	2Pa	1HP	660ml	395×145×265mm	13.8Kg	7/4"SAE& 3/8"SAE

RR SERIES - R32 REFRIGERANT
RECOVERY UNIT



TECHNICAL PARAMETER

Model No	RR12L	RR24L
Compatible Refrigerant	III: R12, R134a, R401C, R406A, R500, R1234yf IV: R407D, R408A, R409A, R411A, R411B, R412A, R502, R509, R22, R401A, R401B, R402B, R407C, V: R402A, R404A, R407A, R407B, R410A, R507 , R32	
Power Supply	220-240VAC/50-60Hz, 110-120VAC/60Hz	
Motor Power	3/4HP	1HP
Compressor	Oil-less,Piston style,Air cooled	Oil-less,Piston style,Air cooled
High Pressure Shut-Off	38.5bar/3850kPa	38.5bar/3850kPa
Operating Temperature	0℃ ~40℃ /32°F~104°F	0℃ ~40℃ /32°F~104°F
Recovery Rate	Vapor: 0.26 kg/min Liquid: 1.85 kg/min/min Push/pull: 6.22 kg/min	Vapor: 0.52 kg/min Liquid: 3.70 kg/min Push/pull: 9.95 kg/min
Dimensions (mm)	418x250x345	418x250x345
Weight (Kg)	14	15

Model No	RR12L-R32	RR24L-R32
Compatible Refrigerant	III: R12, R134a, R401C, R406A, R500, R1234yf IV: R407D, R408A, R409A, R411A, R411B, R412A, R502, R509, R22, R401A, R401B, R402B, R407C, V: R402A, R404A, R407A, R407B, R410A, R507 , R32	
Power Supply	220-240VAC/50-60Hz, 110-120VAC/60Hz	
Motor Power	3/4HP	1HP
Compressor	Oil-less,Piston style,Air cooled	Oil-less,Piston style,Air cooled
High Pressure Shut-Off	38.5bar/3850kPa(558psi)	38.5bar/3850kPa(558psi)
Operating Temperature	0℃ ~40℃ /32°F~104°F	0℃ ~40℃ /32°F~104°F
Recovery Rate	Vapor: 0.26 kg/min Liquid: 1.85 kg/min/min Push/pull: 6.22 kg/min	Vapor: 0.52 kg/min Liquid: 3.70 kg/min Push/pull: 9.95 kg/min
Dimensions (mm)	418x250x345	418x250x345
Weight (Kg)	14	15

REFRIGERANT
RECOVERY UNIT



REFRIGERANT RECOVERY UNIT

Model No	RR24M		
Compatible Refrigerant	III: R12, R134a, R401C, R406A, R500, R1234yf IV: R22, R401A, R401B, R402B, R407C, R407D, R408A, R409A, R502, R509 V: R402A, R404A, R407A, R407B, R410A, R507, R32		
Power Supply	220V-230V AC,50/60Hz	115VAC,60Hz	
Max.Current	6A	12A	
Motor Power	Brushless DC Motor 1 HP		
Speed	3000RPM		
Compression Engine	Oil-less,Air-cooled,Piston		
High Voltage Protection (Rated Value)	38.5bar/3850kPa(558psi)		
Operating Temperature	0~40℃ 32~104°F		
Refrigerants	R134a	R22	R410A
Liquid	3.36 kg/min	4.0 kg/min	4.2 kg/min
Push/Pull	7.5 kg/min	8.5 kg/min	9.5 kg/min
Dimensions	14.5x9.9x11.7 inch		
Weight	10.75Kg 23.7lbs		

WL-TPM-160-1 SUPERMARKET PUMP SERIES

FEATURES

- Voltage:100-240V,AC,50/60HZ
- Max.flow:360L/H@0head
- Sound level: 40dB(A) @ 1M
- Max discharge head:50M
- Max water temp:75℃
- Tank capacity:5L



MD-TPM-160-1 SERIES HIGH TYPE SPECIFICATIONS

Model No	Input voltage(v)	HZ	Watts(v)	Amps	Max.lift	Certificate
WL-TPM-160-1	100-240	50/60	80	3	160'/50M	CE ROHS

WL-TPM-160-2 SUPERMARKET PUMP SERIES

FEATURES

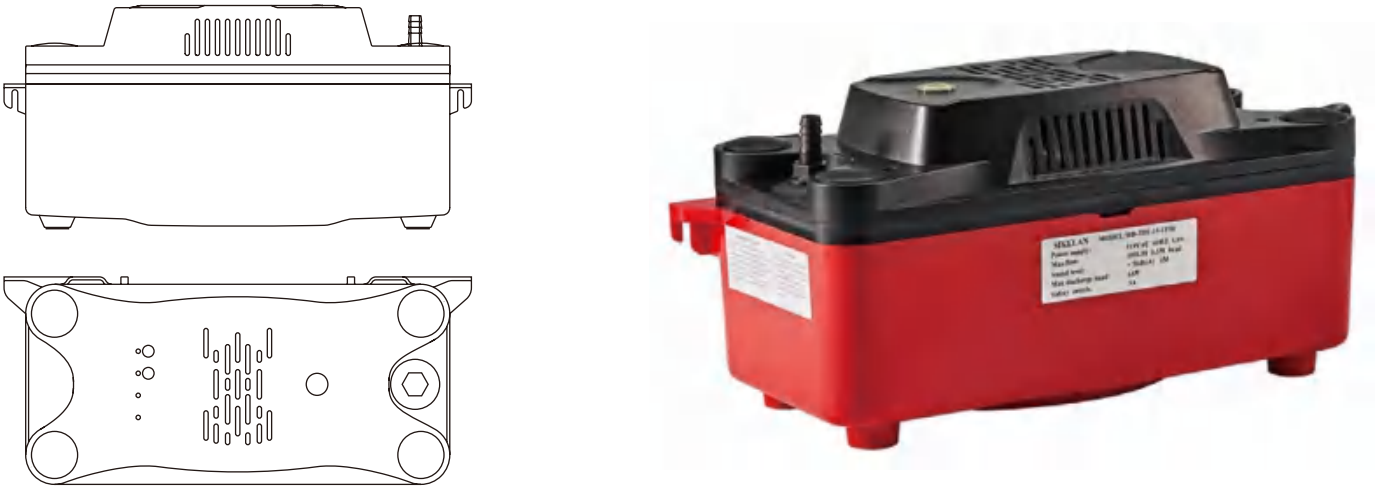
- Voltage:100-240V,AC,50/60HZ
- Max.flow:360L/H@0head
- Sound level: 40dB(A) @ 1M
- Max discharge head:50M
- Max water temp:75℃
- Tank capacity:11L



MD-TPM-160-1 SERIES HIGH TYPE SPECIFICATIONS

Model No	Input voltage(v)	HZ	Watts(v)	Amps	Max.lift	Certificate
WL-TPM-160-1	100-240	50/60	80	3	160'/50M	CE ROHS

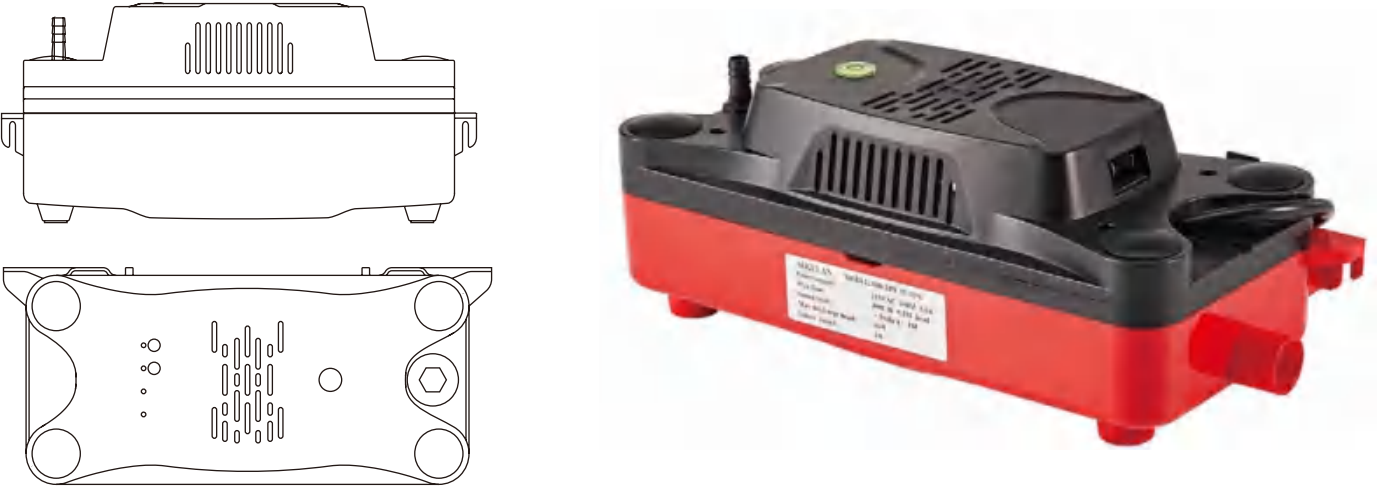
WL - TPF FLOAT SENSOR HIGH TYPE SERIES



WL - TPF SERIES SPECIFICATIONS

Model	Input Voltage(v)	HZ	Amps	Watts	Flow.L/H (@0.3M)	Flow.L/H (@1.5M)	Flow.L/H (@2.7M)	Max.Lift	Certificate
WL-TPF-15-115H	115	60	1	60	300	250	200	15'/4.6M	CE ROHS ETL
WL-TPF-20-115H	115	60	1.5	80	350	300	250	20'/6.1M	
WL-TPF-22-115H	115	60	1.7	85	400	350	300	22'/6.7M	
WL-TPF-24-115H	115	60	1.8	100	450	400	350	24'/7.3M	
WL-TPF-15-230H	230	60	0.55	60	300	250	200	15'/4.6M	
WL-TPF-20-230H	230	60	0.75	75	350	300	250	20'/6.1M	
WL-TPF-22-230H	230	60	1	85	400	350	300	22'/6.7M	
WL-TPF-24-230H	230	60	1.2	100	450	400	350	24'/7.3M	
WL-TPF-15-230H	230	50	0.45	55	250	200	170	4M	
WL-TPF-20-230H	230	50	0.55	60	300	250	200	4.5M	
WL-TPF-22-230H	230	50	0.65	70	350	300	250	5M	
WL-TPF-24-230H	230	50	0.7	80	400	350	300	5.3M	

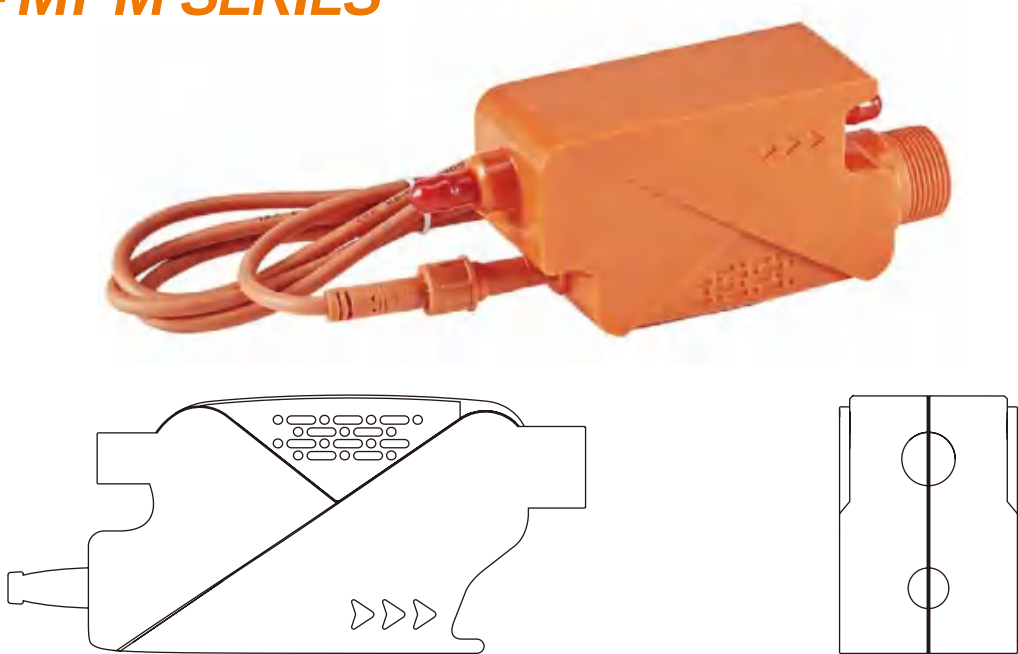
WL - TPF FLOAT SENSOR LOW TYPE SERIES



WL - TPF SERIES SPECIFICATIONS

Model	Input Voltage(v)	HZ	Amps	Watts	Flow.L/H (@0.3M)	Flow.L/H (@1.5M)	Flow.L/H (@2.7M)	Max.Lift	Certificate
WL-TPF-15-115L	115	60	1	60	300	250	200	15'/4.6M	CE ROHS ETL
WL-TPF-20-115L	115	60	1.5	80	350	300	250	20'/6.1M	
WL-TPF-22-115L	115	60	1.7	85	400	350	300	22'/6.7M	
WL-TPF-24-115L	115	60	1.8	100	450	400	350	24'/7.3M	
WL-TPF-15-230L	230	60	0.55	60	300	250	200	15'/4.6M	
WL-TPF-20-230L	230	60	0.75	75	350	300	250	20'/6.1M	
WL-TPF-22-230L	230	60	1	85	400	350	300	22'/6.7M	
WL-TPF-24-230L	230	60	1.2	100	450	400	350	24'/7.3M	
MD-TPF-15-230L	230	50	0.45	55	250	200	170	4M	
WL-TPF-20-230L	230	50	0.55	60	300	250	200	4.5M	
WL-TPF-22-230L	230	50	0.65	70	350	300	250	5M	
WL-TPF-24-230L	230	50	0.7	80	400	350	300	5.3M	

WL - MPM SERIES

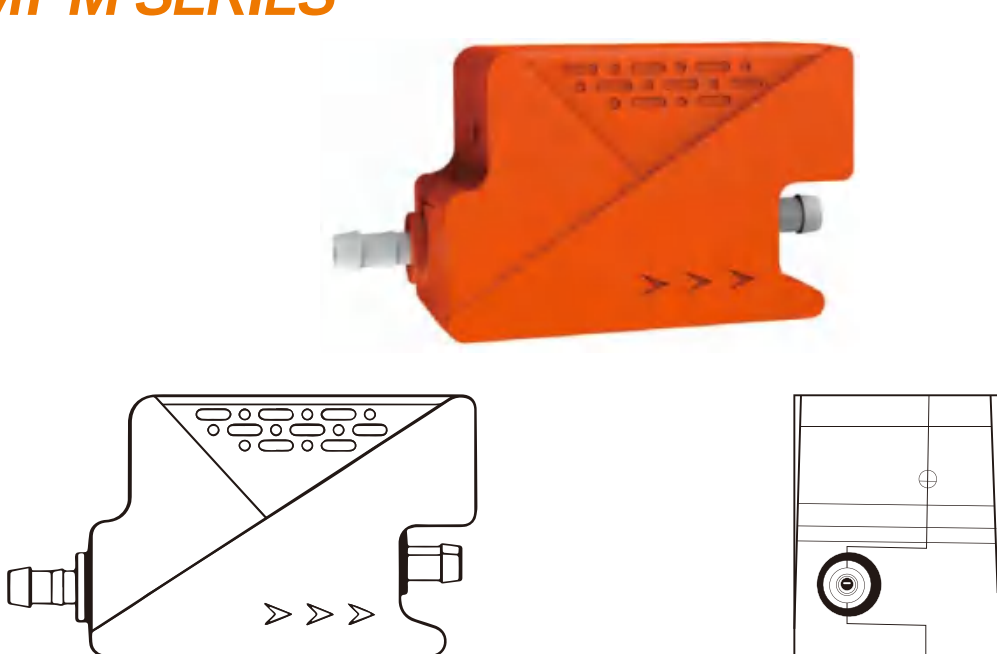


WL - TPF SERIES SPECIFICATIONS

Model	Input Voltage(v)	HZ	Watts	Safety switch(A)	Max.Lift	Certificate
WL-MPM-50	110 - 240	50/60	5	3	50' /15M	ETL CE ROHS
WL-MPM-66	110 - 240	50/60	5	3	66' /20M	

Voltage	100 - 240V,AC,50/60HZ	
Max.flow	20L/H@0 head	40L/H@0 head
Sound leve	17dB(A)@1M	19dB(A) @1M
Max discharge head	15M	20M
Max.suction lift	1M	
Safety switch	3A	
Max water temp	70℃	
Tank capacity	40ml	

WL - MPM SERIES



WL - TPF SERIES SPECIFICATIONS

Model	Input Voltage(v)	HZ	Watts	Safety switch(A)	Max.Lift	Certificate
WL-MPM-M-40	110 - 240	50/60	5	3	40/15M	ETL CE ROHS
WL-MPM-M-50	110 - 240	50/60	5	3	50/20M	

Voltage	100 - 240V,AC,50/60HZ	
Max.flow	12L/H@0 head	15L/H@0 head
Sound leve	17dB(A)@1M	19dB(A) @1M
Max discharge head	12M	15M
Max.suction lift	1M	
Safety switch	3A	
Max water temp	70℃	
Tank capacity	40ml	

VARIABLE FREQUENCY AIR CURTAIN H3(EC)



FEATURES

- Motor eiciency can reach 88%.
- The eiciency of the air curtain can reach 70% 35% higher than ordinary motors.
- Optional wire control and remote control.
- Power supply is optional with double voltage and double frequency (110-220V,50/60Hz).
- Stepless speed regulation can be realized by external current 4-20mA, PWM pulse signal or voltage 0-10V.
- With phase deiciency , over voltage , blocking , over current , temperature and other protection functions.
- The air curtain has high energy saving , high eiciency , long life and low noise.

PARAMETERS

Model No	Voltage/ Frequency (V/Hz)	Input Power (W)	Air Velocity (m/s)	Air Volume (m³/h)	Noise (dB)	Diameter Of Impeller(mm)	Net Weight (KG)	Gross Weight (KG)	Unit Size (mm)	The Installation Height (m)
FM-1009H3-E2(Y)	110-240V/ 50-60Hz	75	10-11	1550	≤45	100	9.1	10.6	910×178×176	2.3-3
FM-1010H3-E2(Y)	110-240V/ 50-60Hz	83	10-11	1720	≤45	100	9.8	11.5	1005×178×176	2.3-3
FM-1012H3-E2(Y)	110-240V/ 50-60Hz	95	10-11	2130	≤46	100	11.5	13.5	1205×178×176	2.3-3
FM-1015H3-E2(Y)	110-240V/ 50-60Hz	113	10-11	2650	≤48	100	14.3	16.8	1500×178×176	2.3-3

CROSS FLOW AIR CURTAIN H5



FEATURES

- High-end appearance design: Applying aluminum panel, fashionable looks, serializing together with H3 and H7.
- Improved air duct design: convenient for assembling, bringing powerful, smooth and even air low, making a great air curtain efect, and the installing high will be roundly 0.3m higher than competitor.
- Unique segmented splice panel design: front panel splicing with upper and lower plate,diversiied for panel choosing like frosted aluminum, drawing process aluminum, etc.
- High eiciency motor: Adopting self-made motor, powerful, low noise, more reliable.
- Multi-control ways: Multi-control ways: With remote control and manual key design,the operation is more convenient, standard 2 speeds,3 speeds for option, which is suitable for a variety of places.
- Intelligent magnetic door switch (Optional): Realize humanized control of door opening and closing, greatly reduce indoor air outflow and save energy
- Double voltage (For option): Motor can be optional for 110V/220V, suitable for some area with double voltage like Taiwan, South America.

PARAMETERS

Model No	Voltage/ Frequency (V/Hz)	Input Power (W)	Air Velocity (m/s)	Air Volume (m³/h)	Noise (dB)	Diameter Of Impeller(mm)	Net Weight (KG)	Gross Weight (KG)	Unit Size (mm)	The Installation Height (m)
FM-1009H5-2(Y)	220-240V/ 50Hz	100	10-11	1550	≤45	100	9.1	10.6	910×178×176	2.3-3
FM-1012H5-2(Y)	220-240V/ 50Hz	135	10-11	2130	≤46	100	11.5	13.5	1205×178×176	2.3-3
FM-1015H5-2(Y)	220-240V/ 50Hz	150	10-11	2650	≤48	100	14.3	16.8	1500×178×176	2.3-3
FM-1018H5-2(Y)	220-240V/ 50Hz	180	10-11	3200	≤50	100	17.5	20.3	1795×178×176	2.3-3

CROSS FLOW AIR CURTAIN X3



FEATURES

- Aesthetic low panel design: adopting hexagonal holes &rounded rectangle punching, fashionable and ritzy stronger panel rigidity;
- Optimize air outlet design: adopts a larger wind wheel than the economic model of competitors and the wind force is strong, and the air speed is 0.3 m/s higher than the others;
- High-eiciency motor: using independent R&D and self-produced motor, strong power, low noise and reliable performance;
- Multi control modes: adopt remote control and manual button mode, the operation is more convenient, standard 2-speed wind speed,can be 3 speeds for option, suitable for use in a variety of places;
- Intelligent magnetic door switch (optional): realize the humanized control of door opening and closing, greatly reduce the outflow of indoor air, and save more energy.

PARAMETERS

Model No	Input Power (W)	Air Velocity (m/s)	Air Volume (m³/h)	Noise (dB)	Net Weight (KG)	Unit Size (mm)	Carton Size (mm)	Mounting Height (m)
FM-1009X3-2(Y)	100	10.5	1480/870	≤45	7.3	900×180×140	950×235×200	2.3-3
FM-1012X3-2(Y)	125	10.5	2030/1194	≤48	9.2	1200×180×140	1250×235×200	2.3-3
FM-1015X3-2(Y)	150	10.5	2530/1488	≤49	11.8	1500×180×140	1550×235×200	2.3-3
FM-1018X3-2(Y)	220	10.5	3000/1764	≤51	14.2	1800×180×140	1850×235×200	2.3-3
FM-1020X3-2(Y)	210	10.5	3300/1941	≤53	15.8	2000×180×140	2050×235×200	2.3-3

COLD ROOM AIR CURTAIN

FEATURES

- Blower driving by external rotator motor,running.
- Higher air pressure.
- Cylinder type air outlet, stable and uniform air supply
- Whole machine spraying antirust processing.



PARAMETERS

Model No	Voltage (V)	Frequency (Hz)	Diameter of Impeller (mm)	Input Power (W)	Air Velocity (m/s)	Air Volume (m³/h)/CFM	Noise (dB)	Net Weight (KG)	Gross Weight (KG)	Unit Size (mm)	Mounting Height (m)
FM-2515LKM	220/240/380	50	Φ250	550	20	3200/1882	≤72	32	40	1906×406×424	2.5-3
FM-2518LKM	220/240/380	50	Φ250	750	20	3800/2235	≤74	34	42	2206×406×424	2.5-3
FM-2520LKM	220/240/380	50	Φ250	750	20	4300/2529	≤75	37	44	2406×406×424	2.5-3

COMPOSITE ALUMINUM FOIL TAPE



FIBERGLASS CLOTH ALUMINUM FOIL TAPE

Product Category	Model	Total Thickness (μm)	Initial Tack (mm)	Peel Strength (N/25mm)	Temperature Resistance C)	Construction Temperature CC)	Features
Fiberglass Cloth Aluminum Foil Tape	T-FG**01	110-140	≤ 200	≥ 12	-20~+120	+10~+40	High tensile strength substrate,anti-puncture,tear resistance,and pasting flat
	T-FG**01R	110-140	≤ 200	≥ 12	-20~+120	+10~+40	High tensile strength substrate,anti function,steel resistance,and pasting flat,with flame retardancy
	T-FG**02R	110-140	≤ 200	≥ 10	-20~+120	+10~+40	High tensile strength substrate,anti-puncture,tear resistance,and pasting flat with good flame retardancy and oxygen index 228%
	T-RFG**04R	110-140	≤ 200	≥ 10	-20~+120	+10~+40	High tensile strength substrate,anti-puncture,tear resistance,and pasting flat with good flame retardancy and oxygen index ≥ 32%,reaching UL-VO level
	HT-FG**01	110-140	≤ 200	≥ 15	-20~+60	+10~+40	High tension strength substrate,anti-puncture,tear resistance,and pasting flat,with good initial tack and easy to operate

COMPOSITE ALUMINUM FOIL TAPE



FIBERGLASS CLOTH ALUMINUM FOIL TAPE

Product Category	Model	Total Thickness (μm)	Initial Tack (mm)	Peel Strength (N/25mm)	Temperature Resistance C)	Construction Temperature CC)	Features
Fiberglass Cloth Aluminum Foil Tape	T-FG**01	110-140	≤ 200	≥ 12	-20~+120	+10~+40	High tensile strength substrate,anti-puncture,tear resistance,and pasting flat
	T-FG**01R	110-140	≤ 200	≥ 12	-20~+120	+10~+40	High tensile strength substrate,anti function,steel resistance,and pasting flat,with flame retardancy
	T-FG**02R	110-140	≤ 200	≥ 10	-20~+120	+10~+40	High tensile strength substrate,anti-puncture,tear resistance,and pasting flat with good flame retardancy and oxygen index 228%
	T-RFG**04R	110-140	≤ 200	≥ 10	-20~+120	+10~+40	High tensile strength substrate,anti-puncture,tear resistance,and pasting flat with good flame retardancy and oxygen index ≥ 32%,reaching UL-VO level
	HT-FG**01	110-140	≤ 200	≥ 15	-20~+60	+10~+40	High tension strength substrate,anti-puncture,tear resistance,and pasting flat,with good initial tack and easy to operate

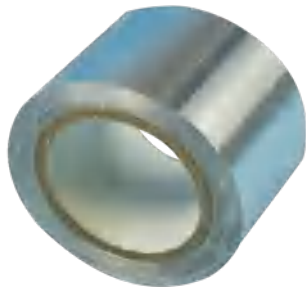
ALUMINUM FOIL TAPE



Product Category	Model	Total Thickness (μm)	Initial Tack (mm)	Peel Strength (N/25mm)	Holding Power (h)	Temperature Resistance C)	Construction Temperature CC)	Features
Universal Aluminum Foil Tape	T-F**04SP	40-200	≤ 200	≥ 16	≥ 24	-20~+120	+10~+40	High viscosity,strong adhesion,corrosion resistance,and high temperature resistance
	T-F**03CW	40-200	≤ 100	≥ 13	≥ 5	-30~+120	+10~+40	Environmentally friendly,solvent free,with wide adaptability
	T-F**04FR	40-200	≤ 200	≥ 16	≥ 24	-20~+120	+10~+40	Flame retardant,passed the cerification of UL723&BS476 P16
	HT-F*04SP	40-200	≤ 200	≥ 18	≥ 24	-20~+80	+10~+40	Ruber hot melt type,solvent free,high viscosityand strong adhesion
	HT-F*05SP	40-200	≤ 100	≥ 18	≥ 24	-20~+80	-5~+40	

Product Category	Model	Total Thickness (μm)	Initial Tack (mm)	Peel Strength (N/25mm)	Holding Power (h)	Temperature Resistance (C)	Construction Temperature (CC)	Features
Special Aluminum Foil Tape	T-F**05SP	40-200	≤ 50	≥ 15	224	-40--+120	-5--+40	Good low temperature resistance,initial tack and agng resistance
	T-F**05FR	40-200	≤ 50	≥ 13	≥ 24	-40--+120	-5--+40	A certain flame retardancy,good low temperature resistance, initial tack and aging resistance
	T-F**06SP	80-200	≤ 100	≥ 15	≥ 120	-20--+200	0--+40	High strength,high viscosity,high temperature resistance, excellent aging resistance,and passed the certification of UL181AP
	T-F**07SP	60-200	s50	≥ 12	≥ 24	-40--+120	-20--+40	Good low-temperature resistance,initial tack&aging resistance. especially suitable for low-temperature operation

SELF WOUND ALUMINUM FOIL TAPE



Product Category	Model	Total Thickness (μm)	Initial Tack (mm)	Peel Strength (N/25mm)	Holding Power (h)	Temperature Resistance (C)	Construction Temperature (CC)	Features
Universal Self Wound Aluminum Foil Tape	T-F**04WL	50-200	s200	218	≥ 24	-20--+120	+10--+40	High viscosity, strong adhesion, corrosion resistance, and hightemperature resistance
	T-F**03WL	50-200	s100	215	≥ 5	-20--+120	+10--+40	Environmentally friendly, solvent free, with wide adaptability
	HT-F**04WL	50-200	≤ 200	≥ 18	≥ 24	-20--+80	+10--+40	Rubber hot melt type, solvent free, high viscosity and strongadhesion
	HT-F**05WL	50-200	≤ 100	≥ 18	≥ 24	-20--+80	-5--+4	
Special Self Wound Aluminum Foil Tape	T-F*05WL	50-200	s50	215	224	-40--+120	-5--+40	Good low temperature resistance, initial tack and aging resistance
	T-F**06WL	80-200	s100	≥ 15	≥ 120	-20--+200	0--+40	High strength, high viscosity, high temperature resistance andexcellent aging resistance
	T-F**07WL	60-200	s50	212	224	-40--+120	-20--+40	Good low temperature resistance, initial tack & aging resistance,especially suitable for low temperature operation
	T-PF*04WL	50-100	s200	≥ 18	224	-20--+120	+10--+40	High tensile strength substrate, anti-puncture, High viscosity, stroncadhesion,corosion resistance and anti-nterence
Composite Self Wound Aluminum Foil Tape	HT-2FPP**WL	40-80	s200	≥ 12	≥ 24	-20--+60	-5--+40	High tensile strength substrate, anti-puncture, high viscosity, strongadhesion, and corrosion resistance; waterproof, breathable, agingresistant and light resistant
	T-3PF**WL	60-100	s100	≥ 6	≥ 24	-40--+120	-5--+40	High tensile strength substrate, anti-puncture; high viscosity, stroncadhesion, and corrosion resistance; waterproofand breathable

THE AIR CONDITIONING TAPE



PARAMETERS

GRADE	SPECIFICATIONS	PACKING QUANTITY(VOLUME)	COLOUR
Ordinary	0.22mm*58mm*10m	100	Beige, Black, Grey,white, Red, Blue, Greer
FM-2518LKM	0.22mm*58mm*15m	100	Beige, Black, Grey,white, Red, Blue, Greer

PVC TAPE



SIZE
50mm(2") X 0.13mm X 10-50M

INSULATION TAPE



SIZE
3mm x 48mm x 9.14m



SIZE
3mm x 48mm x 9.14m



SIZE
3mm x 48mm x 9.14m

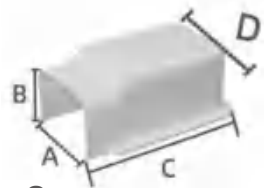
LINE COVER SET

LC75×65MM SERIES (Suitable for 1.5-3HP air conditioner)



LC75-1

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC75-1	PVC Duct	80	70	2000	/	/



LC75-2

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC75-2	Wall Cover	82	70	180	/	/



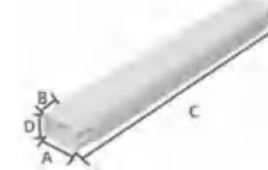
LC75-3

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC75-3	Flat Corner	80	70	128	/	/



LC100-5

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC100-5	Joint Cover	110	70	65	/	/



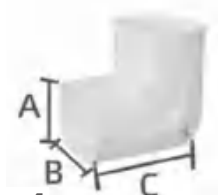
LC100-6

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC100-6	Flexible Duct	96	62	635	/	/



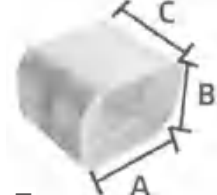
LC100-7

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC100-7	Tee Corner	109	72	180	140	/



LC75-4

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC75-4	Elbow Corner	80	70	102	/	/



LC75-5

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC75-5	Joint Cover	82	70	62	/	/



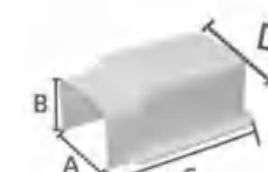
LC75-6

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC75-6	Flexible Duct	73	63	640	/	/



LC130-1

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC130-1	PVC Duct	130	90	2000	/	/



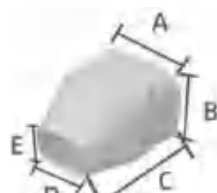
LC130-2

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC130-2	Wall Cover	140	98	235	/	/



LC130-3

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC130-3	Flat Corner	140	98	170	/	/



LC75-7

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC75-7	End Cover	60	42	80	70	96



LC75-8

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC75-8	Ceiling Cap	80	70	110	142	82



LC100-1

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC100-1	PVC Duct	100	65	2000	/	/



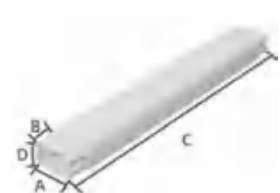
LC130-4

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC130-4	Elbow Corner	138	98	168	/	/



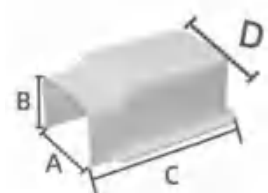
LC130-5

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC130-5	Joint Cover	140	98	80	/	/



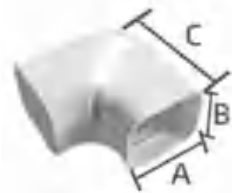
LC130-6

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC130-6	Flexible Duct	126	88	820	/	/



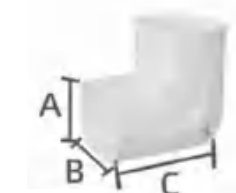
LC100-2

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC100-2	Wall Cover	107	70	220	/	/



LC100-3

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC100-3	Flat Corner	109	72	142	/	/



LC100-4

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC100-4	Elbow Corner	105	72	100	/	/



LC130-7

MODEL	PARTS NAME	SIZE(mm)				
		A	B	C	D	E
LC130-7	Tee Corner	138	98	207	170	/

COPPER FITTING SERIES



STRAIGHT COUPLING

SIZE	Φ15	Φ22	Φ28	Φ35	Φ42	Φ54	Φ67
	Φ76	Φ108	Φ133	Φ159	Φ219	Φ325	



FITTING REDUCED

SIZE	Φ22x15	Φ28x15	Φ28x22	Φ35x15	Φ35x22	Φ35x28	Φ45x15	Φ42x22
	Φ42x28	Φ42x35	Φ54x15	Φ54x28	Φ54x35	Φ54x42	Φ67x35	Φ67x42
	Φ67x54	Φ76x54	Φ76x67	Φ108x54	Φ108x67	Φ108x76		



EQUAL TEE

SIZE	Φ15x15x15	Φ22x22x22	Φ28x28x28	Φ35x35x35	Φ42x42x42
	Φ54x54x54	Φ67x67x67	Φ76x76x76	Φ108x108x108	Φ133x133x133
	Φ159x159x159	Φ219x219x219			



TUBE END CAP

SIZE	Φ15	Φ22	Φ28	Φ35	Φ42	Φ54	Φ67
	Φ76	Φ108	Φ133	Φ159	Φ219		



STRAIGHT COUPLING

SIZE	Φ22x15	Φ28x15	Φ28x22	Φ35x15	Φ35x22	Φ35x28	Φ42x22	Φ42x28
	Φ42x35	Φ54x28	Φ54x35	Φ54x42	Φ67x35	Φ67x42	Φ67x54	Φ76x54
	Φ76x67	Φ108x54	Φ108x67	Φ108x76	Φ133x67	Φ133x76	Φ133x108	Φ159x76
	Φ159x108	Φ159x133	Φ219x108	Φ219x133	Φ219x159			



STRAIGHT COUPLING

SIZE	Φ15	Φ22	Φ28	Φ35	Φ42	Φ54	Φ67
	Φ76	Φ108	Φ133	Φ159	Φ219	Φ325	



TEE - REDUCED BRANCH

SIZE	Φ22x15x22	Φ28x15x28	Φ28x22x28	Φ35x28x35	Φ35x22x35
	Φ35x28x35	Φ42x22x42	Φ42x28x42	Φ42x35x42	Φ54x28x54
	Φ54x35x54	Φ54x42x54	Φ67x35x67	Φ67x42x67	Φ67x54x67
	Φ76x42x76	Φ76x54x76	Φ76x67x76	Φ108x54x108	Φ108x67x108
	Φ108x76x108	Φ133x67x133	Φ133x76x133	Φ133x108x133	Φ159x76x159
	Φ159x108x159	Φ159x133x159	Φ219x159x219		



180 ° U-BEND 180 °

SIZE	Φ15	Φ22	Φ28	Φ35	Φ42	Φ54	Φ67
	Φ76	Φ108	Φ133	Φ159	Φ219		



REDUCING 90° ELBOW

SIZE	Φ22x15	Φ28x15	Φ28x22



TEE - REDUCED BOTH ENDS

SIZE	Φ15x22x15	Φ22x28x22	Φ28x35x28



45 ° ELBOW

SIZE	Φ15	Φ22	Φ28	Φ35	Φ42	Φ54	Φ67
	Φ76	Φ108	Φ133	Φ159	Φ219		



TEE - REDUCED END AND BRANCH

SIZE	Φ22x15x15	Φ28x22x22	Φ28x22x15	Φ28x15x22
	Φ28x22x15	Φ28x28x22	Φ35x35x22	



REDUCING CROSS

SIZE	Φ54x42	Φ67x35	Φ67x42	Φ67x54



COPPER STEEL/FLANGE(RED)

SIZE	Φ15	Φ35	Φ42	Φ54	Φ67	Φ76	Φ108
	Φ133	Φ159	Φ219	Φ273	Φ325		

SOLDER RING COPPER FITTINGS



90° ELBOW CLOSE RUFF C×C

ASME B16.22 (ITEM NO.:SR107-C)	5/8"	7/8"	1-1/8"				
EN1254-1 (ITEMNO.:SR5090)	8	10	12	15	22	28	35
	42	54	1	/	1	/	1



90° STREET ELBOW CLOSE RUFF FTG×C

ASME B16.22 (ITEM NO.:SR107-C-2)	5/8"	7/8"	1-1/8"				
EN1254-1 (ITEM NO.:SR5092)	8	10	12	15	22	28	35
	42	54	1	/	1	1	1



REDUCING 90° ELBOW C×C

ASME B16.22 (ITEM NO.:SR107-C)	7/8×5/8	1-1/8×7/8					
EN1254-1 (ITEM NO.:SR5090R)	22×15	28×22	28×15				



45° ELBOW C×C

ASME B16.22 (ITEM NO.:SR106)	5/8"	7/8"	1-1/8"				
EN1254-1 (ITEM NO.:SR5041)	8	10	12	15	22	28	35
	42	54	/	/	/	1	/



45° STREET ELBOW FTG×C

ASME B16.22 (ITEM NO.:SR106-2)	5/8"	7/8"	1-1/8"				
EN1254-1 (ITEM NO.:SR5040)	8	10	12	15	22	28	35
	42	54	1	/	1	1	/



EQUAL TEE C×C×C

ASME B16.22 (ITEM NO.:SR111)	5/8"	7/8"	1-1/8"				
EN1254-1 (ITEM NO.:SR5130)	8	10	12	15	22	28	35
	42	54	1	/	1	/	1

SOLDER RING COPPER FITTINGS



REDUCING TEE C×C×C

ASME B16.22 (ITEM NO.:SR111)

3/8×3/8 ×1/4	1/2×12 ×3/8	1/2×1/2 ×5/8	5/8×5/8 ×1/2	5/8×5/8 ×3/8	5/8×1/2 ×5/8	5/8×1/2 ×12	7/8×7/8×1- 1/8
7/8×7/8 ×3/4	7/8×7/8 ×5/8	7/8×7/8 ×1/2	7/8×3/4 ×7/8	7/8×5/8 ×7/8	7/8×5/8 ×3/4	7/8×5/8 ×5/8	1-18×1- 1/8×7/8
1-1/8×1- 1/8×5/8	1-3/8×1- 3/8×1-1/8	1-3/8×1- 3/8×7/8	1-3/8×1- 3/8×5/8	1-5/8×1- 5/8×1-3/8	1-5/8×1- 5/8×1-1/8	1-5/8×1- 5/8×7/8	1-5/8×1- 5/8×5/8
2-18×2- 1/8×1-5/8	2-18×2- 18×1-3/8	2-1/8×2- 1/8×1-1/8	2-18×2- 1/8×7/8	2-18×2- 1/8×5/8			

EN1254-1 (ITEM NO.:SR5130R)

15×15×10	15×15×22	22×22×28	22×22×15	22×15×22	22×15×15	28×28×22	28×28×15
28×22×28	28×22×22	28×22×15	28×15×28	28×15×15	35×35×28	35×35×22	35×35×15
42×42×35	42×42×28	42×42×22	42×42×15	54×54×42	54×54×35	54×54×28	54×54×22
54×54×15	7	/	/	/	/	/	/



EQUAL COUPLING C×C

ASME B16.22 (ITEM NO.:SR100)	5/8"	7/8"	1-1/8"				
EN1254-1 (ITEM NO.:SR5270)	8	10	12	15	22	28	35
	42	54	/	/	/	/	/



REDUCING COUPLING C×C

ASME B16.22 (ITEM NO.:SR101-R)	1-1/8×7/8	7/8×5/8					
EN1254-1 (ITEM NO.:SR5240)	15×12	15×10	22×15	28×22	28×15	35×28	35×22
	42×35	42×28	42×22	54×42	54×35	54×28	54×22
							35×15
							1



FITTING REDUCER FTG×C

ASME B16.22 (ITEM NO.:SR118)	1-1/8×7/8	7/8×5/8					
EN1254-1 (ITEM NO.:SR5243)	15×12	15×10	22×15	28×22	28×15	35×28	35×22
	42×35	42×28	42×22	42×15	54×42	54×35	54×28
							35×15
							54×22



TUBE CAP C

ASME B16.22 (ITEM NO.:SR117)	5/8"	7/8"	1-1/8"				
EN1254-1 (ITEM NO.:SR5301)	8	10	12	15	22	28	35
	42	54	1	1	/	/	1

SOLDER RING COPPER FITTINGS



MALEADAPTER C×M

ASME B16.22 (ITEM NO.:SR104)	5/8×1/2	7/8×3/4	1-1/8×1			
EN1254-1 (ITEM NO.:SR5243G)	15×1/2"	22×3/4"	28×1"	35×1-1/4"	42×1-1/2"	54×2"



FEMALEADAPTER C×F

ASME B16.22 (ITEM NO.:SR103)	5/8×1/2	7/8×3/4	1-1/8×1			
EN1254-1 (ITEM NO.:SR5270G)	15×1/2"	22×3/4"	28×1"	35×1-1/4"	42×1-1/2"	54×2"



PARTIAL CROSS OVER FTG×C

EN1254-1 (ITEM NO.:SR5085)	15	22	28
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STRAIGHT TAP CONNECTOR CXFI

EN1254-1 (ITEM NO.:SR5062)	15×1/2"	15×3/4"	22×3/4"	28×1
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BENT TAP CONNECTOR CXFI

EN1254-1 (ITEM NO.:SR5063)	15×1/2"	15×3/4"	22×3/4"	22×1"	28×1
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DOUBLE JOINT



EQUAL COUPLING C×C

Model	1/4"		3/8"		1/2"		5/8"		3/4"	
	φ6	φ19	φ8	φ22	φ10	φ25	φ12	φ28	φ16	φ19

CAPILLARY



EQUAL COUPLING C×C

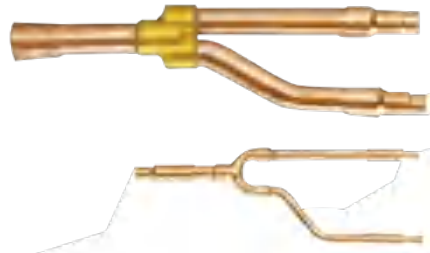
Model	φ 3X0.5X1500	φ 3x0.5X1200	φ 3X0.5X1000
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HIGH QUALITY FORGING BRASS NUTS



1 / 4"--7 / 8"

APPLY TO TOSHIBA VRV FOR R410a



PARAMETERS

SIZE	Main ID			Secondary ID				Outlet ID			
WL-53-A	1/2	5/8	/	1/2	3/8	1/4	/	1/2	3/8	1/4	/
WL-53-B	3/8	1/2	/	3/8	1/4	/	/	3/8	1/4	/	/
WL-103-A	7/8	/	/	3/4	5/8	1/2	3/8	3/4	5/8	1/2	3/8
WL-103-B	1/2	5/8	/	1/2	3/8	1/4	/	1/2	3/8	1/4	/
WL-203-A	1"3/8	1"1/4	1"1/8	1"1/8	7/8	3/4	/	1"1/8	7/8	3/4	/
WL-203-B	5/5	/	/	5/8	1/2	3/8	/	5/8	1/2	3/8	/
WL-303-A	1"5/8	1"1/2	1"3/8	1"1/2	1"3/8	1"1/8	/	1"1/2	1"3/8	1"1/8	/
WL-303-B	7/8	/	/	3/4	5/8	1/2	3/8	3/4	5/8	1/2	3/8

APPLY TO LG VRV FOR R410a



PARAMETERS

SIZE	Main ID			Secondary ID				Outlet ID		
WL-ARBLN-07120-A	7/8	1	1"3/8	1"1/8	1	7/8	1"1/8	7/8	3/4	
WL-ARBLN-07120-B	1/2	5/8	3/4	5/8	1/2	3/8	/	/	/	
WL-ARBLN-03320-A	7/8	3/4	5/8	7/8	3/4	5/8	5/8	1/2	3/8	
WL-ARBLN-03320-B	1/4	3/8	1/2	3/8	1/4	/	3/8	1/4	/	
WL-ARBLN-14520-A	1"3/8	1"1/2	1"5/8	1"5/8	1"3/8	/	1"1/4	1"1/8	1	
WL-ARBLN-14520-B	7/8	3/4	5/8	3/4	5/8	1/2	5/8	1/2	3/8	
WL-ARBLN-01620-A	1/2	5/8	3/4	5/8	1/2	/	5/8	1/2	/	
WL-ARBLN-01620-B	1/4	3/8	1/2	3/8	1/4	/	3/8	5/8	/	

DISTRIBUTION COUPLING FOR TWIN AIR-CONDITIONING SYSTEMS



PARAMETERS

SIZE	Inlet			3 Outlet		
WL-123	5/8	1/2	3/8	1/2	3/8	1/4
WL-223	3/4	5/8	1/2	5/8	1/2	3/8
WL-323	7/8	3/4	5/8	3/4	5/8	1/2
WL-423	1"1/8	7/8	3/4	7/8	3/4	5/8

DISTRIBUTION COUPLING WITH INSULATION



PARAMETERS

SIZE	Main ID			Secondary ID			Outlet ID		
WL-RBPP22Y-A	5/8	/	/	5/8	1/2	/	5/8	1/2	/
WL-RBPP22Y-B	3/8	/	/	3/8	1/4	/	3/8	1/4	/
WL-RBPP33Y-A	7/8	3/4	/	3/4	5/8	/	3/4	5/8	/
WL-RBPP33Y-B	3/8	/	/	3/8	1/4	/	3/8	1/4	/
WL-RBPP72Y-A	1"1/8	1"	/	/	/	/	1"	/	3/4
WL-RBPP72Y-B	5/8	1/2	/	3/8	1/4	/	1/2	3/8	1/4
WL-RBPP104Y-A	1"1/4	/	/	1"1/8	7/8	3/4	1"1/8	7/8	3/4
WL-RBPP104Y-B	3/4	/	/	5/8	1/2	/	5/8	1/2	/

FOR R410a



PARAMETERS

SIZE	Main ID			Secondary ID			Outlet ID		
WL-ARBLN-07120-A	1"1/8	/	/	7/8	1"1/8	/	7/8	/	/
WL-ARBLN-07120-B	5/8	/	/	1/2	3/8	/	1/2	7/8	/
WL-ARBLN-03320-A	1"5/8	1"1/4	/	1"1/8	/	/	1"1/8	/	/
WL-ARBLN-03320-B	1/4	/	/	5/8	1/2	/	5/8	1/2	/
WL-ARBLN-14520-A	1"3/8	1"1/2	/	1"3/8	/	/	1"3/8	7/8	/
WL-ARBLN-14520-B	7/8	/	/	3/4	/	/	5/8	1/2	3/8
WL-ARBLN-01620-A	1/2	/	/	1"1/8	/	/	1"1/8	7/8	/
WL-ARBLN-01620-B	1/4	/	/	5/8	/	/	1/2	5/8	/

FLEXIBLE DUCT



PARAMETERS

R0.6,25mm Insulation6M		R1.0,50mm Insulation6M	
Item code	size (inch/mm)	Item code	size (inch/mm)
FD06R06	06"/150mm	FD06R10	06"/150mm
FD08R06	08"/200mm	FD08R10	08"/200mm
FD10R06	10"/250mm	FD10R10	10"/250mm
FD12R06	12"/300mm	FD12R10	12"/300mm
FD14R06	14"/350mm	FD14R10	14"/350mm
FD16R06	16"/400mm	FD16R10	16"/400mm
FD18R06	18"/450mm	FD18R10	18"/450mm
FD20R06	20"/500mm	/	/

COPPER PIPE FITTINGS SERIES



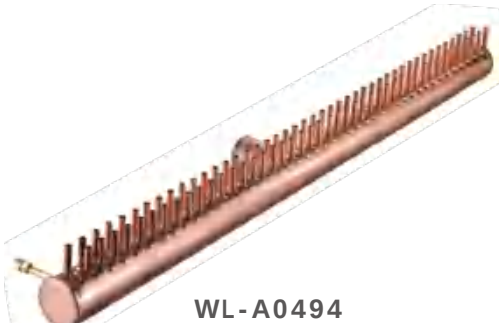
WL-1716



WL-9127



WL-9128



WL-A0494



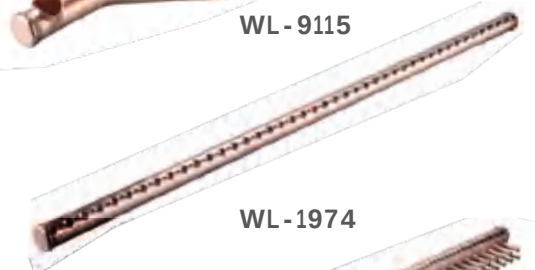
WL-1713



WL-1966



WL-9115



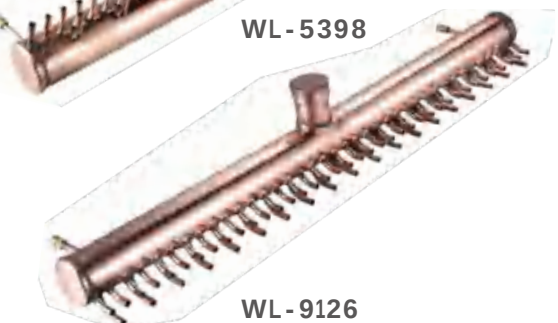
WL-1974



WL-A0493



WL-5398



WL-9126

INSULATION PANEL



Thickness	Width X Length
6mm	100*3000cm
9mm	100cm*2000cm
10mm	120cm*2000cm
13mm	100cm*2000cm
15mm	120cm*2000cm
19mm	100cm*1000cm
20mm	120cm*1000cm
25mm	100cm*1000cm
30mm	120cm*1000cm
32mm	100cm*1000cm
	120cm*800cm
	100cm*800cm
	120cm*800cm
	100cm*800cm
	120cm*800cm

AC BRACKET



PARAMETERS

Code No.	Bottom Bar(mm)	Vertical Bar(mm)	Thickness(mm)	N.w.(kg)	s.w.(kg)	Loading(kg)
WL-H1	365	400	2	2.5	2.8	150
WL-H2	480	400	2	2.8	3.1	150
WL-H3	620	420	2	3.1	3.4	150



PARAMETERS

Code No.	Bottom Bar(mm)	Vertical Bar(mm)	Thickness(mm)	N.w.(kg)	s.w.(kg)	Loading(kg)
WL-I1	420	312	2	2.7	3	200
WL-I2	520	320	2	3.1	3.4	200
WL-I3	600	420	2	3.8	4.1	200

AC BRACKET



PARAMETERS

Code No.	Bottom Bar(mm)	Vertical Bar(mm)	Thickness(mm)	N.w.(kg)	s.w.(kg)	Loading(kg)
WL-J1	500	500	3	5.3	5.7	200



PARAMETERS

Code No.	Bottom Bar(mm)	Vertical Bar(mm)	Thickness(mm)	N.w.(kg)	s.w.(kg)	Loading(kg)
WL-K1	500	500	3	5.3	5.7	200



PARAMETERS

Code No.	Bottom Bar(mm)	Vertical Bar(mm)	Cross Bar(mm)	Thickness(mm)	N.w.(kg)	s.w.(kg)	Loading(kg)
WL-N1	380	400	700	1.5	3.7	4.0	100
WL-N2	480	420	700	1.5	4.2	4.5	100
WL-N3	620	420	1000	2	6.8	7.2	200



PARAMETERS

Code No.	Bottom Bar(mm)	Vertical Bar(mm)	Cross Bar(mm)	Thickness(mm)	N.w.(kg)	s.w.(kg)	Loading(kg)
WL-O1	380	400	750	1.5	3.4	3.8	100
WL-O2	480	420	750	1.5	3.9	4.3	100
WL-O3	600	420	1000	2	6.1	6.4	200



PARAMETERS

Code No.	Bottom Bar(mm)	Vertical Bar(mm)	Thickness(mm)	N.w.(kg)	s.w.(kg)	Loading(kg)
WL-A1	380	400	1.5	2.6	3	100
WL-A2	480	420	1.5	3	3.4	100
WL-A3	600	420	2	4.6	5	200

PHOS- COPPER BRAZING ALLOYS



PARAMETERS

Alloy	Corresponding Alloy	Chemical Composition				Melting Range		Melting Range	Typical Application
		P%	Sn%	Ni%	Cu%	Solidus%	Liquidus%		
BCu92P	Industry standard: 料 201 Japan:TC - 310D	7.5-8.1	/	/	/	710	770	Close to eutectic composition,low melting smallclearance of brazing seam.	Melting Range
BCu93P	Industry standard: 料 201 US:TC - 310D JPN:TC - 310A	6.5-7.5	/	/	/	710	800	Lower phosphorus content improve plasticity,higher melting point.	Use for copper and copper alloy parts. brazing attacking shocking bend parts.
BCu94P	/	5.9-6.5	/	/	/	710	890	Lower phosphorus content improve plasticity,higher meling point.	Use for copper and copper alloy parts,suitable for air conditioning, refrigerator,evaporator, heat exchanger and water heatere1c.
BCu86SnPNi	/	4.8-5.8	7.0-8.0	0.4-1.2	/	620	670	Low melting point,good flow-ability	Can make many kinds of brazing ring,wires, brazing copper and copper and copperalloy parts, brazing large gap joints.
BCu89PSn	Industry standard: 料 208	5.0-6.0	5.0-6.0	/	/	650	800	Low melting point,good fow-ability.	Use for copper or brass parts of waterheater, radiant heating, radiant heating ete,brazing large gap joints.
BCu86SnP	EUR:CP302	6.4-7.2	6.5-7.5	/	/	650	700	Low meting point,god fow-ability.	Use for copper and copper parts of waterheater, water fountain, fuel gas ware, radiantheating and cleaners, polishes etc.

PHOS - COPPER - SILVER BRAZING ALLOYS



PARAMETERS

Alloy	Corresponding Alloy	Chemical Composition			Melting Range		Impurity Amount	Melting Range	Typical Application
		Ag %	Cu%	P%	Solidus%	Liquidus%			
BCu92PAg	Industry standard: 料 203 Japan:COPsilos-1	0.8-1.2	/	6.8-7.2	643	796	770	Solidus curve is lower than Cu-P brazing alloys,better wettability, strength and toughness.	Use for brazing copper and copper brazingparts.
BCu91PAg	Industry standard: 料 209 JPN:TC-312 US:BCuP-6	1.8-2.2	/	6.8-7.2	643	788	≤0.15	Good fow-ability, good solderability and plasticnature, better strength.	Use for brazing copper and copper pairs inrefrigerator and air conditioner, suitable formedium gap joints.
BCu90PAg	/	2.8-3.2	/	6.8-7.2	645	780	≤0.15	Better strength, liquidus is high because ofcontaining less P.	Use for copper and copper parts, suitable forlarge gap joints.
BCu88PAg	JPN:TC-315 US:BCuP-3	4.8-5.2	/	6.5-7.0	643	771	≤0.15	Along with increasing ofAg contents, strengthwill be better.	Use for copper and copper, copper and brassparts with shock in air condition and freezer,copper and copper alloy joints in electric (al)motor meter, Low P content suitable for ampleclearance, high P content suitable for gap joints.
BCu89PAg	US:BCuP-4	4.8-5.2	/	5.8-6.2	645	815	≤0.15	Along with increasing of Ag contents, strengthwill be better.	Use for copper and copper, copper and brassparts with shock in air condition and freezer.copper and copper alloy joints in electric (al)motor meter, Low P content suitable for ampleclearance, high P content suitable for gap joints.
BCu87PAg	/	5.8-6.2	/	7.0-7.5	643	813	≤0.15	Good flow-ability, good solderability, caninstead JAgP-15 (204).	Low P content suitable for large gap joints, highP content suitable for small gap joints, suitablefor brazing spectacle frame and ERW.
Bcu84AgP		9.0-11.0	/	5.5-6.5	645	790	≤0.15	Good flow-ability, good brazing toughness.	Can be made into ribbonfl, brazing copper andcopper alloy in spectacle frame.
Bcu80AgP	ndustry standard: 料 204	14.5-15.5	/	4.8-5.2	645	800	≤0.15	Good flow-ability.	Use for copper and copper alloy with mediumgap joints in air condition, freezer, compressor.electric motor etc.

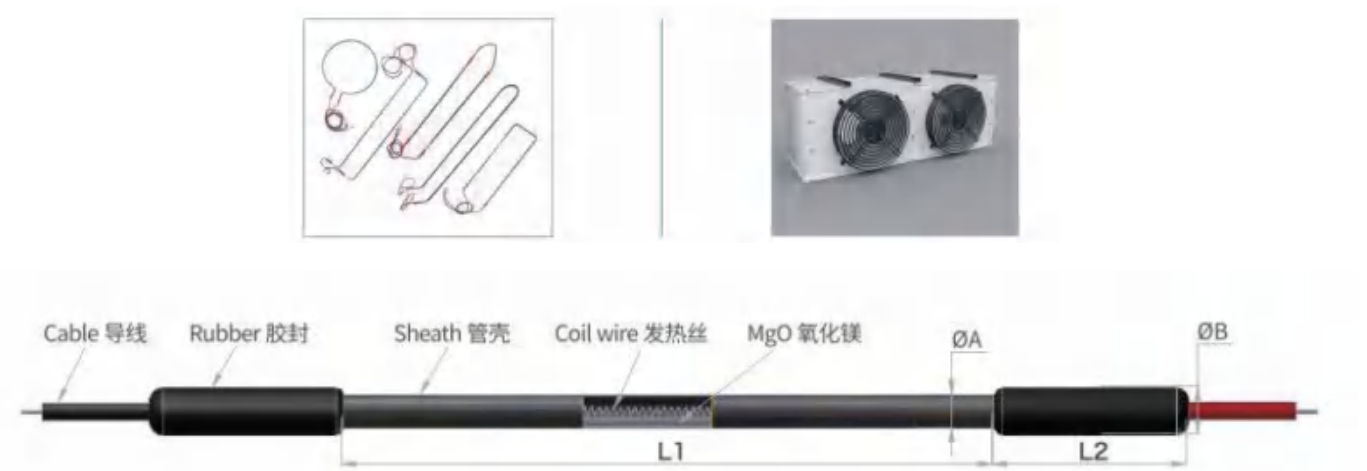
BRAZING FLUXPRODUCTS INDEX



PARAMETERS

Category	Enterprise brand name	Product Name	Characteristics and applications
Silver brazing	ISFB - 101	Silver brazing flux	Brazing fulx of copper, copper alloys, steel and stainless steel within 550~750 ℃ .
Silver brazing	SFB - 102	Silver brazing flux	Brazing flux of copper, copper alloys, steel and stainless steel within 600~850 ℃ .
Aluminum brazing	SFB - 201	Aluminum brazing flux	Brazing fulx of aluminum and aluminum alloys within 450~620 ℃ .
Aluminum brazing	SFB - 207	Aluminum brazing flux	Brazing fulx of aluminum and aluminum alloys within 560-620 ℃ .
Copper brazing	SFB - 301	Copper brazing flux	Brazing fulx of copper, steel and stainless steel within 850~1150 ℃

TUBULAR HEATER FOR COOLER UNITS



PRODUCT SPECIFICATION

Item	ΦA(mm) (±0.13mm)	Sheath Thickness	B(mm) (±0.5mm)	L2(mm)	Cable size	L1(mm) (Min)	LI(mm) (Max)	Sheath Material	Coil wire Material	Tube Surf Treatment	Rubber Material	Cable insulator Material	Note
1	Φ8.0	0.43mm/ 0.51mm/ 0.71mm	Φ8.7	50	18-12AWG	500	7000	SUS304/ Incoloy840	NiCr/ FeCrAl/ CuNi	Black Annealing/ Bright Annealing	Neoprene/ Silicone	Neoprene/ Silicone	Two Rubber structure
2			Φ11.2	44.5	18-12AWG								
3			Φ10	50	18-14AWG								
4	Φ8.5	0.43mm/ 0.51mm/ 0.71mm	Φ8.7	50	18-12AWG								
5			Φ11.2	44.5	18-12AWG								
6			Φ8.7	55	18-16AWG								
7	Φ10.9	0.6mm/ 0.71mm	Φ12	45	18-16AWG								
8			Φ15.75	50	18-16AWG								
9			Φ12.7	50	14-12AWG								

FLEXIBLE HEATERS



PRODUCT SPECIFICATION

product	OD(mm)	Insulation	Lead Wire	Connection Seal	Ohm Per Meter
Heater Wire	Φ2.5	PVC	AWG18 or AWG20, PVC or Silicone insulation	1. FG braid+Silicone Sleeve 2. Heat Shrink Sleeve 3. Silicone Overmold	1Ω/m to 100000Ω/m
	Φ2.5	Silicone			
	Φ2.8	Silicone+FG braid			
	Φ3.0	FG braid+Silicone +			
	Φ3.2	Silicone+Alloy braid			
	Φ3.8	FG braid			

PRODUCT SPECIFICATION

product	Foil Thickness	Temperature Resistance	Adhesive	Bonding Method	Dimension
Foil heater	0.05mm	105° C	Rubber Base	Hot Bond	Custom shapes and sizes available to meet application needs and specific customer requirements
		120° C	Standard Acrylic Base	Cold Bond	
		150° C	High Temperature Acrylic Base	Cold Bond	
		280° C	High Temperature Silicone Base	Cold Bond	

REFRIGERATOR DEFROST AND
DEODORIZE QUARTZ HEATER



HL-D-1 8"-22"
110V-220V 90W-280W



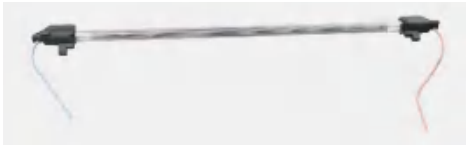
HL-N-3 8"-22"
110V-220V 90W-280W



HL-K-1 8"-22"
110V-220V 90W-280W



HL-E-4 8"-22"
110V-220V 90W-280W



HL-K-1 8"-22"
110V-220V 90W-280W



HL-E-4 8"-22"
110V-220V 90W-280W

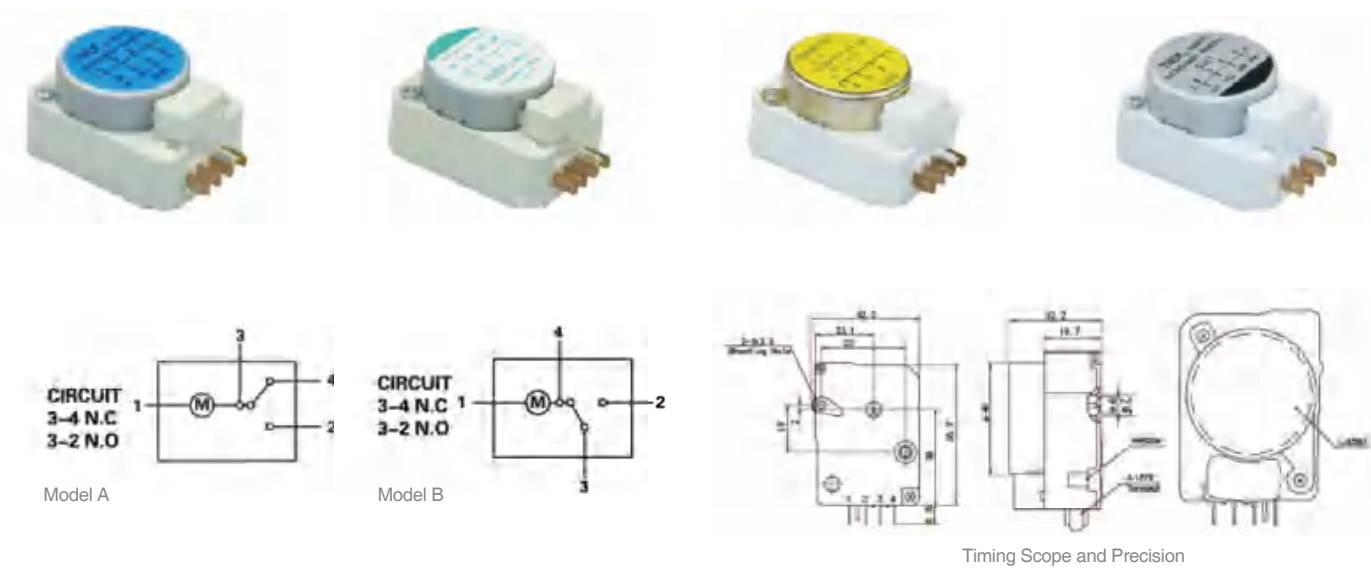


HL-D9-D-5 g"-24"
~90W-280W 50/60Hz 115V-230V.AC



HL-D13-D-1 13"130W 220vac 50/60Hz
HL-D17-D-1 17"150W 220Vac5060Hz
HL-D19-D-1 19"180W 220Vac 50/60Hz
HL-D21-D-1 21"200W 220Vac 50/60Hz

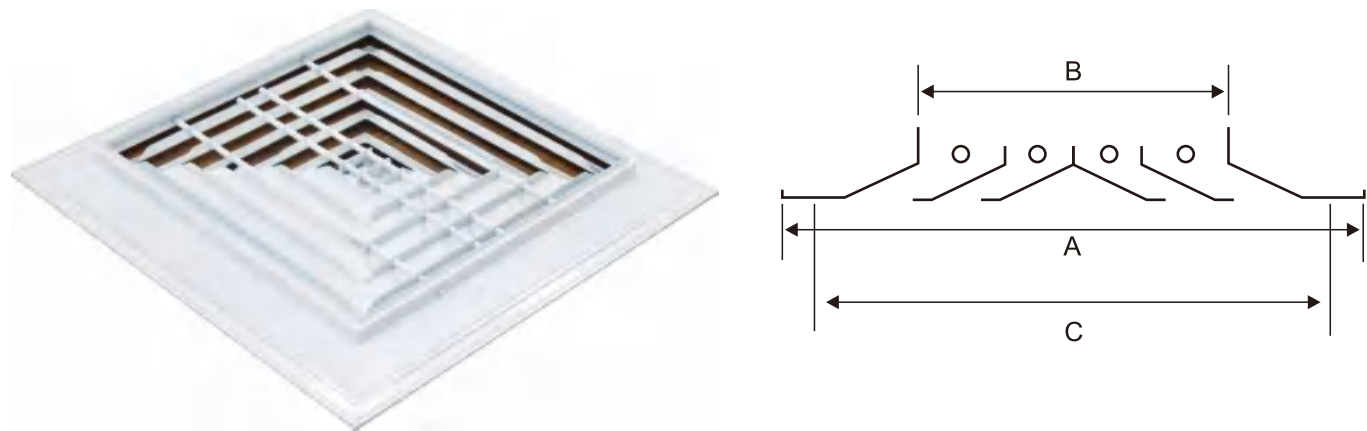
TMD-F TMDF SERIES DEFROST TIMER



SPECIFICATION

MODEL/Brand	RatedVoltage	Frequency	SwitchRating	Defrost Time	Cycle Time	Power Consumption
				50HZ/60HZ	50HZ/60HZ	
JS1-4	702ZD1	220V	250V/5A	2m24s/2m	8h46mv7h19m	MAX1.7W
	702ZH2	220V	250V/5A	2m24s/2m	8h46mv7h19m	
	702KB1	110V	115V/5A	2m24s/2m	8h46mv7h19m	
	706KL4	110V	115V/5A	7m/5m50s	8h/6h38m	
	704ED1	220V	250V/5A	4m/3m10s	8h/6h38m	
	706ZD1	220V	250V/5A	7m/5m50s	8h/6h38m	
JS1-4	706CD1	220V	250V/5A	7m/5m50s	8h/6h38m	MAX1.7W
	807KH2	220V	115V/5A	7m/5m50s	8h/6h38m	
	835KA2	110V	115V/5A	35m/29m	8h/6h38m	
	X004KG2	110V	115V/5A	4m20s/3m30s	10h/8h24m	
	X004ZD1	220V	250V/5A	4m20s/3m30s	10h/8h24m	

4 WAY SQUARE AIR DIFFUSER



PARAMETERS

Face Size(MM) A	600x600	625x525	450x450	375x375	300x300
Neck Size(MM) B	440x440	365x365	290x290	215x215	140x140
Installation Size(MM) C	570x570	495x495	420x420	345x345	270x270

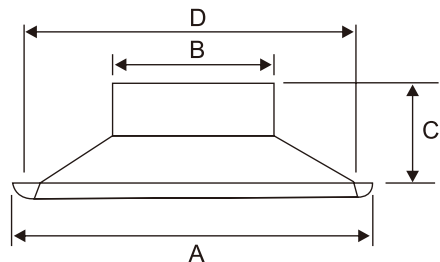
ROUND AIR DIFFUSER



ARGUMENT

Product name	No.	Model	Face Size(mm)A	Neck Size(mm)B	Installation Size(mm)D	W
RD-C	1	Φ150	Φ300	Φ145	Φ250	3
	2	Φ200	Φ400	Φ195	Φ350	4
	3	Φ250	Φ450	Φ245	Φ400	4
	4	Φ300	Φ500	Φ295	Φ450	4
	5	Φ350	Φ550	Φ345	Φ500	5
	6	Φ400	Φ600	Φ395	Φ550	5

4 WAY SQUARE AIR DIFFUSER



ARGUMENT

Product name	No.	Model	Face Size(mm)A	Neck Size(mm)B	Height(mm)C	Installation Size(mm)D	Layer
RD-D	1	Φ250	Φ248	Φ96	58	Φ200	2
	2	Φ300	Φ297	Φ147	58	Φ250	3
	3	Φ350	Φ346	Φ197	58	Φ350	3
	4	Φ400	Φ395	Φ248	58	Φ350	4
	5	Φ450	Φ445	Φ295	58	Φ400	5
	6	Φ500	Φ497	Φ344	58	Φ450	5
	7	Φ530	Φ528	Φ375	63	Φ480	6
	8	Φ550	Φ547	Φ398	54	Φ500	6
	9	Φ600	Φ598	Φ447	58	Φ550	7
	10	Φ650	Φ653	Φ500	62	Φ600	7

NON METALLIC LIQUID
TIGHT CONNECTOR-STRAIGHT



Pan No.	Size
NMLT-1038	3/8"
NMLT-1050	1/2"
NMLT-1075	3/4"
NMLT-1100	1"
NMLT-1125	1-1/4"
NMLT-1150	1-1/2"
NMLT-1200	2"

NON METALLIC LIQUID TIGHT
CONNECTOR-90 DEGREE



Pan No.	Size
NMLT-9038	3/8"
NMLT-9050	1/2"
NMLT-9075	3/4"
NMLT-9100	1"
NMLT-9125	1-1/4"
NMLT-9150	1-1/2"
NMLT-9200	2"

CONDUIT WHIP- PLASTIC CONNECTOR
PLASTIC



Pan No.	Size
NMW-504	1/2" × 4'
NMW-506	1/2" × 6'
NMW-754	3/4" × 4'
NMW-756	3/4" × 6'

CONDUIT WHIP- METALLIC CONNECTOR



Pan No.	Size
MW-504	1/2" × 4'
MW-506	1/2" × 6'
MW-754	3/4" × 4'
MW-756	3/4" × 6'

ALKYLBENZENE REFRIGERATION
OIL 32K SERIES AB OIL

TYPLCAL DATA

TYPICAL SPECIFICATIONS	32K	68K	100K
Viscosity@40°C, cSt (ASTM D445)	29.1	56.04	95.18
Viscosity@100°C, cSt	4.2	5.9	7.98
Specific Gravity (15°C)	0.87	0.864	0.86
Pour Point (ASTM D97)	-49°F (-45°C)	-31°F (-35°C)	-22°F (-30°C)
Flash Point (C.O.C.) (ASTM D92)	360°F (182°C)	355°F (179°C)	430°F (221°C)
Flocculation Point	-65°F (-73°C)	-55°F (N/A)	55°C (Highest)
Acid Value (mg KOH/g)	0.01	0.01	0.01

SYNTHETIC GREASE REFRIGERATION
OIL NOC 679 SERIES POE OIL

DATA

NDICATORS	TEST METHODS	679-32	679-68	679-100	679-120	679-150	679-170	679-220	679-320
viscosity at 40°C cSt	D445	32.5	65.5	98.8	120	150	170	222	320
viscosity at 100°C cSt	D445	5.8	9.3	12.7	14	14.8	17.0	19.5	24
pour point °C	D97	-46	-39	-39	-35	-30	-25	-25	-25
density at 20°C	D1298	0.977	0.98	0.974	0.968	0.968	0.968	0.976	0.98
flash point °C	E92	258	270	270	280	290	290	280	300
moisture ppm	E1064-85	<40	<40	<40	<40	<40	<40	<40	<40
acid value mg KOH/g	-	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
color Hazen	D1209	60	70	125	125	125	125	125	125

CYCLOALKYL REFRIGERATION OIL GS SERIES
MO OIL

DATA

PROJECT GRADE	EXPERIMENTAL MODE	UNIT	3GS	3GSD	4GS	4GSD	5GS	5GSD	46
density @15°C	ASTM D1298	kg/m³	0.9	0.9	0.9	0.9	0.9	0.9	0.9
appearance	/	/	clear	clear	clear	clear	clear	clear	clear
color	ASTM D1500	/	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5
flash point (coc)	ASTM D92	°C	170	170	190	190	195	195	180
kinematic viscosity @40°C	ASTM D445	mm²/s	32	32	69	69	100	100	47
kinematic viscosity@100°C	ASTM D445	mm²/s	4.7	4.7	7.3	7.3	8.9	8.9	5.7
pour point	ASTM D97	°C	-40	-40	-36	-36	-25	-25	-36
neutralization value	ASTM D974	mg KOH/g	0.01	0.01	0.01	0.01	0.01	0.01	0.01
copper corrosion	ASTM D130	/	1	1	1	1	1	1	1

