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**FavorCOOL®**

# ONE STOP SOLUTION FOR AC & R SUPPLIES

.....  
**SINCE 1995**

A member of SINO-RESOURCE GROUP

[www.favorcool.com](http://www.favorcool.com)  
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**2020 COLLECTION**





**QUALITY  
SERVICE  
INNOVATION**

Sino Resource Group, formerly known as Ningbo Free zone Sino Resource International Trade Co.,Ltd. was founded in 1995 with headquarters in Ningbo, China. With more than two decades of accelerated development, Sino Resource has involved into a comprehensive enterprise covering trading, manufacturing, logistics, investments and others.

Sino Resource is deeply involved in the fields of **Refrigeration, Air-Conditioning, Ventilation, Medical Instruments & Dressing, and in the Oil & Chemical Industry**. In addition we also manufacture Chemical equipment and offer Global consulting services.

Sino Resource has a world-wide network of distribution.

www.sino-resource.com

# SINO RESOURCE GROUP



The philosophy of Sino-Resource is:

**Customer First, Quality First, Priority of Brands, Priority of Technology Innovations**

Honesty and Diligence: These are the principals that the Sino Resource staff follow at work and at home. This is what drives us to not only meet expectations but to excel in our efforts and has made us what we are today.

**We invite you to join us and be part of our family.**







- www.kri.cn
- www.kingtank.net
- www.supcool.net
- www.ductplus.com

- Refrigerant Gas, Mapp Gas.
- Refrigeration Lubricants
- Flexible Ducts for Ventilation
- Pressure Vessels & ISO TANKs
- Condensing Units

» WE PRODUCE



## KOMAN'S

Established September 2005, we specialized in producing the substitute of CFC and blended environment-protective refrigerant such as R404A, R406A, R407C, R408A, R409A, R507 and pure refrigerants such as R600A, R134A, R124, R125, R22, R142B, R32, R143A, R141B, R290 etc.

With high quality, competitive prices and professional service, our products sell world-wide especially in Europe, Middle East, Asia, South America, Koman's enjoys a very good reputation.

Meanwhile we keep a close relationship with scientific research organizations to stay of top of the latest developments.

We are dedicated to the Best Quality, Best Service and Best Technology.







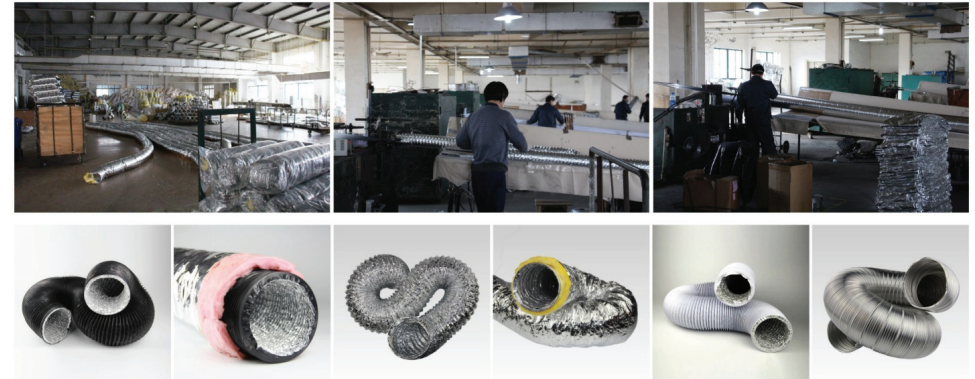
Supcool is an all-round developing company covering the areas of research, design, and manufacture of refrigeration equipment and coldroom panel. After more than ten years of development, we have over 20 series of standard refrigeration units, condensers and evaporators are available in Supcool, which are still increasing. Besides, with strong R&D capacity, series of nonstandard equipment could also be produced here as per our customers' requirements.

Supcool Condensing units, Evaporators Condensers products are popular all over the world with high quality, competitive price, fast delivery and efficient service. What's more, a philosophy has been applying from the beginning of Supcool, which is with a commitment to the customers and a desire to stand at the forefront of manufacturing technology. We are always ready to be an excellent supplier of high-quality products through on-going improvements in systems, processes, technology and equipment. Now, Supcool has won a high reputation from both domestic and overseas customers.

For more information about Supcool and our products, please pay a visit to our website or contact us for a friendly no obligation discussion. You will definitely find that we are more than just an ordinary team, but your technical team.



## Duct+



Duct Plus is the biggest manufacturer in China producing various flexible ducts for Ventilation needs. Our main products are: Insulated and non-insulated Aluminium flexible ducts, PVC flexible ducts, PET flexible ducts, and Semirigid aluminium flexible ducts etc... With high quality and competitive prices, our products are sold throughout all over the world, especially in Europe, Middle East, Asia, and our brand DUCT+ enjoys good reputation.

Duct Plus was established in 2004, located in Shanghai. The whole plant covers an area of 60000 square meters. Now we have about 200 skillful workers, more than 10 sets of advanced automatic production line for superior manufacturing and installation technology, annual output more than 10 million meters various ducts.

Meanwhile, as a member of Sino-Resource (www.sino-resource.com), the largest group companies for HVAC/R, Chemical, Medical and Logistics in China, we are proud of saying that, we can provide you all the products in these lines, with the competitive prices and professional services. We are pleased to be your one-stop purchasing station.

Simply one word, you reply us on duct, but more than duct. THIS IS DUCT PLUS.







# WE ARE KINGTANK

## Since 1958

Founded in 1958, KingTank is one of the leading manufacturers in China, specialized in designing, manufacturing and installation of various pressure vessels including ISO Tanks, Storage Tanks, Road Tanks, etc. Our tanks are manufactured according to GB150 and ASME standards. And certified by most international classification bodies including CCS, LR and BV. Our new plant is located in Jiangxi province, occupying land of 20,000 m<sup>2</sup>.



### 1. Liquid ISO Tank T1-T23

All types of ISO Tanks for both dangerous and non-dangerous liquid chemicals.



### 2. T11 ISO Tank

T11 ISO tank container with 24, 25, 26 m<sup>3</sup> capacity and 4 bar working pressure. Most suitable ISO Tank selection for non-corrosive liquid chemicals.



### 3. Liquefied Gas ISO Tank T50

ISO Tank container with specifications of 20ft/40ft for LPG, Difluoromethane, Liquid Ammonia, and various refrigerants, etc.



### 4. T50 LPG ISO Tank

T50 ISO Tank container with 24.5m<sup>3</sup> capacity and 22 bar working pressure. Most suitable ISO Tank selection for LPG.



### 5. Cryogenic ISO Tank

ISO Tank container with the specification of 10ft/20ft for all cryogenic gases.



6. Other pressure vessels.



# WE DISTRIBUTE >>

• COPPER TUBE & FITTING	001
• COMPRESSOR	010
• REFRIGERATION SPARE PARTS	021
• VALVE & CONTROL	041
• FAN & MOTOR	048
• TEMPERATURE CONTROLLER & MULTITIMERS	054
• SERVICE TOOL	059
• WELDING TOOL	071
• ELECTRICAL PARTS	074
• A/C & INSTALLATION PARTS	085







# 1 COPPER TUBE & FITTING

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**FavorCOOL<sup>®</sup>**

QUALITY DELIVERED



## ACR Soft Drawn Coil | 50ft or 15m Pancake Coil

Standard according to ASTM B280.  
Ends capped, shrink wrapped package in cardboard box.

\* To be adjusted as per specific requirement.

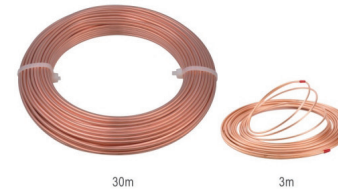


O.D. (mm)	Thickness* (mm)	O.D. (mm)	Thickness* (mm)
3/16	0.030	4.76	0.76
1/4	0.030	6.35	0.76
5/16	0.032	7.94	0.81
3/8	0.032	9.52	0.81
1/2	0.032	12.70	0.81
5/8	0.035	15.87	0.89
3/4	0.035	19.05	0.89
7/8	0.045	22.23	1.41

## Capillary Tube

Standard according to ASTM B360.  
Average O.D. Tolerance: ±0.03mm  
Average I.D. Tolerance: ±0.02mm  
Condition: Soft, Half hardness, Hardness, etc.

\* To be adjusted as per specific requirement.



30m

3m

O.D. inch (mm)	I.D. inch (mm)	Thickness inch (mm)
0.072 (1.83)	0.026 (0.660)	0.023 (0.584)
0.072 (1.83)	0.028 (0.711)	0.022 (0.558)
0.081 (2.06)	0.031 (0.787)	0.025 (0.635)
0.081 (2.06)	0.033 (0.838)	0.024 (0.609)
0.087 (2.21)	0.039 (0.991)	0.024 (0.609)
0.093 (2.36)	0.042 (1.07)	0.0255 (0.648)
0.097 (2.46)	0.046 (1.17)	0.025 (0.635)
0.106 (2.69)	0.054 (1.37)	0.026 (0.660)
0.112 (2.84)	0.059 (1.50)	0.0265 (0.673)
0.125 (3.18)	0.064 (1.63)	0.0305 (0.775)
0.145 (3.68)	0.080 (2.03)	0.0325 (0.826)
0.188 (4.78)	0.130 (3.30)	0.029 (0.737)
0.200 (5.08)	0.145 (3.68)	0.0275 (0.699)
0.220 (5.59)	0.160 (4.06)	0.030 (0.762)
0.240 (6.10)	0.175 (4.45)	0.0325 (0.826)

## ACR Straight Tube | 20ft (6m) or 19ft (5.8m) Lengths\*

Standard according to ASTM B280.  
Ends capped, wooden case packing.  
Condition: Soft, Half hardness, Hardness, etc.

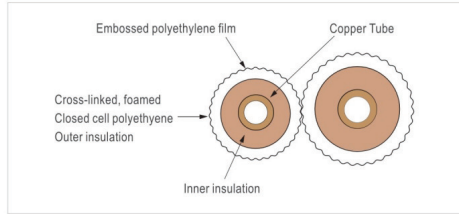
\* To be adjusted as per specific requirement.



Outside (inch)	Diameter (mm)	Wall Thickness*		Nominal Weight (kgs/5.8 metres)
		inch	mm	
3/8	9.52	0.030	0.76	1.08
1/2	12.70	0.035	0.89	1.71
5/8	15.87	0.040	1.02	2.46
3/4	19.05	0.042	1.07	3.12
7/8	22.23	0.045	1.14	3.90
1-1/8	28.58	0.050	1.27	5.63
1-3/8	34.93	0.055	1.40	7.62
1-5/8	41.28	0.060	1.52	9.81
2-1/8	53.98	0.070	1.78	15.09
2-5/8	66.68	0.080	2.03	21.31
3-1/8	79.38	0.090	2.29	28.67
3-5/8	92.08	0.100	2.54	36.93
4-1/8	104.78	0.110	2.79	46.21



## Polyethylene (PE) Insulated Double Coil



INSULATION TECHNICAL DATA	
Material	Highly Flexible Paired Polyethylene
Thermal Conductivity	0.035w/m.k. at 0°C
Tensile Strength	55.8 N/cm <sup>2</sup> (kgf/cm <sup>2</sup> )
Water Absorption	0.0051 MAX g/100cm <sup>2</sup>
Thickness Shrinkage	6% MAX @ 120 ± 5°C
Appearance Density	Inner Tube: 0.028g/cm <sup>3</sup> ; Outside Tube: 0.0303g/cm <sup>3</sup>
Moisture Permeability	8.6x10 <sup>-11</sup> g/(m <sup>2</sup> · s · pa)

Part No.	Pair Coil Description Copper Tube Outside Diameter x Wall Thickness (mm)	Insulating Thickness (mm)	R-Value	Pair Coils Per Carton	Carton Dimensions	
					(20m)	(30m)
FC-1438	6.35x0.80-9.53x0.80	8	0.26	1	57x57x18	67x67x17
FC-1412	6.35x0.80-12.70x0.80	8	0.26	1	61x61x19	69x69x18
FC-1458	6.35x0.80-15.88x1.00	8	0.26	1	72x72x20	83x83x22
FC-3812	9.53x0.80-12.70x0.80	8	0.26	1	61x61x19	72x72x19
FC-3858	9.53x0.80-15.88x1.00	8	0.26	1	72x72x20	83x83x22
FC-3834	9.53x0.80-19.05x1.00	8	0.26	1	75x75x22	87x87x22
FC-1234	12.70x0.80-19.05x1.00	8	0.26	1	75x75x22	87x87x22

\* To be adjusted as per specific requirement.

1. Length 3m, 4m, 5m, 20m, 30m are available. 2. Length wall thickness can be adjusted as perspecific requirement.

## Rubber Insulated Double Coil



- Anti-vibration
- More Flexibility
- Better Fire-resistance than PE insulation
- Longer life than PE insulation

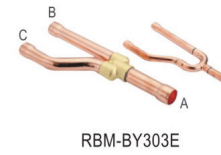
Item	Unit	Performance index
Surface density	kg/m <sup>3</sup>	≤80
Burning performance	--	Grade B
Thermal conductivity 0°C	w/(m.k)	≤0.033
Water absorption in vacuum	--	≤8
Rebound rate after compression compression rate 50%, 72h	--	≥70
Temperature range	°C	-40~+105

Part No.	Pair Coil Description Copper Tube Outside Diameter x Wall Thickness (mm)	Insulating Thickness (mm)	R-Value	Pair Coils Per Carton	Carton Dimensions	
					(20m)	(30m)
FC-1438R	6.35x0.80-9.53x0.80	13	0.26	1	57x57x18	67x67x17
FC-1412R	6.35x0.80-12.70x0.80	13	0.26	1	61x61x19	69x69x18
FC-1458R	6.35x0.80-15.88x1.00	13	0.26	1	72x72x20	83x83x22
FC-3812R	9.53x0.80-12.70x0.80	13	0.26	1	61x61x19	72x72x19
FC-3858R	9.53x0.80-15.88x1.00	13	0.26	1	72x72x20	83x83x22
FC-3834R	9.53x0.80-19.05x1.00	13	0.26	1	75x75x22	87x87x22
FC-1234R	12.70x0.80-19.05x1.00	13	0.26	1	75x75x22	87x87x22

\* To be adjusted as per specific requirement.

1. Length 3m, 4m, 5m, 20m, 30m is available. 2. Length wall thickness can be adjusted as par specific requirement.

## Distribute Tube for Toshiba Central Air-conditioner



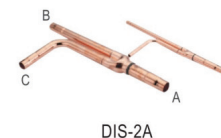
Part No.		A	B	C
RBM-BY53E	gas tube	15.9	12.7	12.7
	liquid tube	12.7	9.5	9.5
RBM-BY103E	gas tube	22.2	19.1	19.1
	liquid tube	15.9	12.7	12.7
RBM-BY203E	gas tube	31.8	28.6	28.6
	liquid tube	15.9	15.9	15.9
RBM-BY303E	gas tube	38.1	38.1	38.1
	liquid tube	22.2	19.1	19.1

## Distribute Tube for Dakin Central Air-conditioner



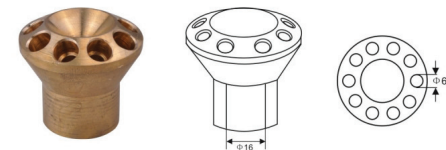
Part No.		A	B	C
11T	gas tube	19.05/15.88	15.88/12.7	15.88/12.7
	liquid tube	9.52	9.52/6.35	9.52/6.35
18T	gas tube	19.05/15.88	19.05/15.88/12.7	15.88/12.7
	liquid tube	9.52	9.52/6.35	9.52/6.35
22T	gas tube	19.05/15.88/12.7	15.88/12.7	15.88/12.7
	liquid tube	9.52	9.52/6.35	9.52/6.35
33T	gas tube	19.05/22.22	19.05/15.88	15.88/12.7
	liquid tube	12.7/9.52	9.52/6.35	9.52/6.35
37T	gas tube	25.4/28.58/31.8	25.4/19.05/15.88	19.05/15.88/12.7
	liquid tube	12.7/15.88	12.7/9.52	12.7/9.52/6.35
40T	gas tube	31.8/38.1	31.8/28.58/25.4	25.4/19.05/15.88
	liquid tube	19.05/15.88	19.05/15.88/12.7	15.88/12.7/9.52
72T	gas tube	25.4/28.58/31.8	25.4/19.05/15.88	19.05/15.88/12.7
	liquid tube	12.7/15.88	12.7/9.52	12.7/9.52/6.35
73T	gas tube	31.8/38.1	31.8/28.58/25.4	25.4/19.05/15.88
	liquid tube	19.05/15.88	19.05/15.88/12.7	15.88/12.7/9.52

## Distribute Tube for Mitsubishi Central Air-conditioner



Part No.		A	B	C
DIS-2A-1	gas tube	38.1/31.8	28.58/25.4	28.58/25.4
	liquid tube	22.22/19.05/15.88	12.7	12.7
DIS-22-1	gas tube	19.05/15.88/12.7	15.88/12.7/9.52	15.88/12.7/9.52
	liquid tube	9.52	9.52/6.35	9.52/6.35
DIS-180-1	gas tube	22.22/19.05/15.88	19.05/15.88/12.7/9.52	19.05/15.88/12.7/9.52
	liquid tube	15.88/12.7/9.52	12.7/9.52/6.35	12.7/9.52/6.35
DIS-371-1	gas tube	31.8/28.58/25.4	25.4/22.22/19.05	25.4/22.22/19.05
	liquid tube	15.88/12.7	15.88/12.7/9.52/6.35	15.88/12.7/9.52/6.35
DIS-540-1	gas tube	38.1/31.8/28.6	31.8/28.58/25.4/19.05	31.8/28.58/25.4/19.05
	liquid tube	22.22/19.05/15.88/12.7	19.05/15.88/12.7/9.52	19.05/15.88/12.7/9.52

## FB Liquid Distributor



Part No.	Inlet (mm)	Outlet (mm)	Hole Quantity
FB-16x6.35/3	Φ16	Φ6.35	3
FB-16x6.35/4	Φ16	Φ6.35	4
FB-16x6.35/5	Φ16	Φ6.35	5
FB-16x6.35/6	Φ16	Φ6.35	6
FB-16x6.35/7	Φ16	Φ6.35	7
FB-16x6.35/8	Φ16	Φ6.35	8
FB-16x6.35/9	Φ16	Φ6.35	9
FB-16x6.35/10	Φ16	Φ6.35	10
FB-16x6.35/12	Φ16	Φ6.35	12



Rubber Insulation Tube

Item	Unit	Performance index	Implemented standard
Surface density	kg/m <sup>2</sup>	≥60	GB/T6343
Burning performance	-	meet requirement	GB/T2406
		Grade B	GB/T8627
		meet requirement	GB8624
Smoke toxicity	-	ZA <sub>1</sub>	B1
		GB/T20285	
Thermal conductivity	w/(m.k)	-20°C	GT/T10294
		0°C	
		40°C	
Water vapor permeability	g/(m.s.Pa)	≤1.96×10 <sup>-11</sup>	GB/T17146
		Moisture resistance	
Water absorption in vacuum	%	≤8	GB/T17794
(105°C+3°C, 7d) Dimension stability	%	≤10	GB/T8811
Reboundrate after compression compression rate 50%, 72h	%	≥70	GB/T16669
Aging resistance	-	Slightly crumpling, no cracks, no pin holes, not deforming	GB/T16259
Temperature range	°C	-40-105	GB/T17794

20' load	124CTNS
40' HQ load	311CTNS



Carton size:  
1890\*340\*400mm

I.D. (inch)	Thickness 3/8" (pcs/ctn)	Thickness 1/2" (pcs/ctn)	Thickness 3/4" (pcs/ctn)	Thickness 1" (pcs/ctn)
1/4	168	100	48	30
3/8	120	90	36	30
1/2	100	72	30	24
5/8	90	63	30	20
3/4	72	56	25	20
7/8	65	42	24	18
1	49	42	20	16
1-1/8	49	36	20	16
1-1/4	42	30	20	15
1-3/8	36	30	16	12
1-5/8	30	25	16	12
1-7/8	28	20	15	10
2	24	20	12	9
2-1/8	20	18	12	9
2-3/8	20	18	10	9
2-5/8	18	13	9	8
2-7/8	18	13	9	8
3	18	12	8	8
3-1/8	15	12	8	6
3-1/2	15	12	6	6



Insulation Sheet

L*W	Thickness 3/8" (pcs/ctn)	Thickness 1/2" (pcs/ctn)	Thickness 3/4" (pcs/ctn)	Thickness 1" (pcs/ctn)
36"x48"	26	20	14	10
1m*10m	1	1	1	1

Copper Fitting

The copper fittings have covered ASME B16.22 , EN1254-1 & ASTM B88L standards.  
The ASME B 16.22 standard ranges from 1/4" to 10-1/8", EN1254-1/BS864-2 standard ranges from 6mm to 219mm .  
Products approved by UPC, NSF61, WRAS, ROHS.

<p><b>FC100</b></p> <p>Coupling with Stop CxC</p>	<p><b>FC100-R</b></p> <p>Coupling with Roll-Stop CxC</p>	<p><b>FC101-R</b></p> <p>Reducing Coupling CxC</p>	<p><b>FC118</b></p> <p>Fitting Reducing CxFTG.</p>
<p><b>FC107-C</b></p> <p>90° Elbow-Short Radius CxC</p>	<p><b>FC107-C-2</b></p> <p>90° Elbow-Short Radius CxFTG.</p>	<p><b>FC107-L</b></p> <p>90° Elbow-Long Radius CxC</p>	<p><b>FC107-L-2</b></p> <p>90° Elbow-Long Radius CxFTG.</p>
<p><b>FC106</b></p> <p>45° Elbow CxC</p>	<p><b>FC106-2</b></p> <p>45° Elbow CxFTG.</p>	<p><b>FC111</b></p> <p>Tee CxCxC</p>	<p><b>FC117</b></p> <p>Cap (Tube End)</p>
<p><b>FC138</b></p> <p>Return Bend CxC</p>	<p><b>FC123</b></p> <p>Suction Line(P-Trap) CxC</p>	<p><b>FC136</b></p> <p>Cross Over Coupling CxC</p>	<p><b>FC137</b></p> <p>Y Shape Tee</p>
<p><b>FC104</b></p> <p>Male Adapter MxC</p>	<p><b>FC103</b></p> <p>Female Adapter FxC</p>	<p><b>FC5062</b></p> <p>Straight Tap Connector CxF</p>	<p><b>FC5061</b></p> <p>Removable Copper Connector</p>
<p><b>FC5063</b></p> <p>Bent Tap Connector CxF</p>	<p><b>FC135</b></p> <p>Copper Crow</p>	<p><b>FC132</b></p> <p>Copper Gasket</p>	<p><b>FC120</b></p> <p>Tube Strap</p>



Brass Fitting

Short Nut		Forged Brass Nut		Union		Union Tee		90°Elbow (SAE*SAE)	
Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
SN-04 1/4"	SN-08 1/2"	FN-04 1/4"	FN-10 5/8"	U-04 1/4"	U-08 1/2"	UT-04 1/4"	UT-10 5/8"	E-04 1/4"	E-10 5/8"
SN-05 5/8"	SN-10 5/8"	FN-06 3/8"	FN-12 3/4"	U-05 5/16"	U-10 5/8"	UT-06 3/8"	UT-12 3/4"	E-06 3/8"	E-12 3/4"
SN-06 3/8"	SN-12 3/4"	FN-08 1/2"		U-06 3/8"	U-12 3/4"	UT-08 1/2"		E-08 1/2"	

Adapter for R410A		Reducing Union (SAE*SAE)		Adapter for R410A		Male Connector (SAE*NPT)		Reducer (Solder)	
Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
FC-00A	1/4" M*5/16" F with depressor and valve core	RU-06x04	RU-10x08	AD78	1/4"SAE Female x 1/2" 20UNF(5/16" SAE) male with depressor and valve core	MC-04x02	MC-06x08	SR-04x04	SR-08x10
		RU-08x04	RU-12x08			MC-04x06	MC-08x06	SR-04x06	SR-08x12
FC-00B	5/16" M*1/4" F with depressor and valve core	RU-10x04	RU-12x10	AD78	1/2"-20UNF(5/16" SAE) Female x 1/4" SAE male with depressor and valve core	MC-04x08	MC-08x08	SR-06x06	SR-10x10
		RU-10x06				MC-06x04	MC-10x08	SR-06x08	SR-10x12
						MC-06x06		SR-06x10	

Cylinder Adapter		Union Tee		Union		Reducer (Male*Female)		solder union with valve core	
Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.
CA 04*12	1/4" SAE male x G 3/4" Female	CT-682-04x02	1/4" x 1/4" x 1/8" F.NPT	ME-04x02	1/4" SAE x 1/8" NPT	R-04x06	R-06x08	U1-4A	1/4" SAE x 1/8" NPT
		CT-682-04x04	1/4" x 1/4" x 1/4" F.NPT	ME-04x04	1/4" SAE x 1/4" NPT	R-04x08	R-08x04	U1-4B	1/4" SAE x 1/4" NPT
		CT-682-04x04S	1/4" x 1/4" x 1/4" F.SAE			R-06x04	R-08x06		

Adapter for R1234yf

Part No.	Description
FR-04x08L	1/4" SAE female x 1/2" ACME LH male
FR-08Lx04	1/2" ACME LH female x 1/4" SAE male

Capillary Tube with Nuts

Part No.	Description
CTN-90	Capillary tube 1/8"x90cm with two nuts
CTN-100	Capillary tube 1/8"x100cm with two nuts
CTN-120	Capillary tube 1/8"x120cm with two nuts
CTN-150	Capillary tube 1/8"x150cm with two nuts

Access Valves

Part No.	Description
HT-04C	Completed with valve core, valve core remover & tube 3/16" O.D.
HT-04A	Completed with valve core, valve core remover & tube 1/4" O.D.
HT-04B	Completed with valve core, quick seal cap & tube 1/4" O.D.
HT-04C	Completed with valve core, valve core remover & without tube
HT-05A	Completed with valve core, valve core remover & tube 5/16" O.D.
HT-06A	Completed with valve core, valve core remover & tube 3/8" O.D.
CT-7000	For 3/16", 1/4", 5/16", 3/8" or 1/2" tube

Thermoplastic Capillary Hoses

90° female fitting 1/4"SAE TPC-202

Tee female nipple TPC-203

Tee fitting with side nut 1/4"SAE TPC-204

Straight fitting TPC-101

Insert with depressor TPC-102

Tee nipple TPC-104

Nut TPC-201

Brass Sleeve TPC-107

1/4" Copper gasket TPC-401

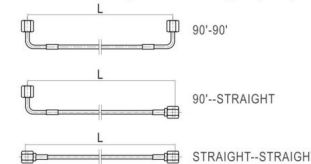
Crimper TPC-CM

Cutter TPC-CT

Hose Part Number	Inner Diametre	Outer Diametre	Tolerances	Min Bending Radius	Working Pressure	Working Temp	Weight
TPC-100-B	2.0 mm	5.9 mm	0.1 mm	10 mm	45 bar	-40°C-130°C	30 g/m
TPC-100-U	2.0 mm	5.9 mm	0.1 mm	10 mm	45 bar	-40°C-130°C	30 g/m
TPC-100-R	2.0 mm	5.9 mm	0.1 mm	10 mm	45 bar	-40°C-130°C	30 g/m

Whole Set Numbe	Name	Connecting Thread	Components Codes			
2001	Straight fitting	7/16"-20UNF	TPC-101	+ TPC-107	+ TPC-201	+ TPC-401
2002	Insert with depressor	7/16"-20UNF	TPC-102	+ TPC-107	+ TPC-201	+ TPC-401
2003	90° female fitting 1/4" SAE	7/16"-20UNF	TPC-202	+ TPC-107	+ TPC-401	
2004	Tee nipple	7/16"-20UNF	TPC-104	+ TPC-107	+ TPC-107	+ TPC-107
2005	Tee female nipple	7/16"-20UNF	TPC-203	+ TPC-107	+ TPC-107	+ TPC-401
2006	Tee female with side nut 1/4" SAE	7/16"-20UNF	TPC-204	+ TPC-107	+ TPC-107	+ TPC-401

Hose Assembly Overall Length (mm)

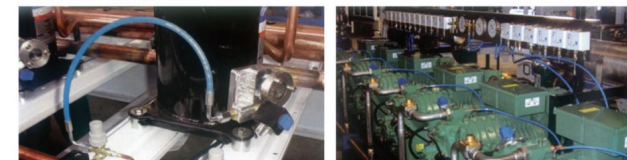


Instructions for manual assembling of capillary hose ID 2mm  
 Working temperature: -40°C+130°C  
 Working pressure: 45 bar

Assemble one hose and check that the average diameter of the crimped sleeve is 7.1mm (just one of the four diameters can be maximum 7.3mm).

If not, regulate the cam till the obtained crimped sleeve is perfect on the basis of the above mentioned measures.

References for application scenario



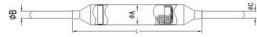
Connection with pressure gauge, control units and oil return pipe.

Advantages:

- High elasticity
- No more brazing, flaring and bending of copper tubes.
- Time saving for system installation and assembling.
- Very low refrigerating gas permeation rate.



## Copper Spun Filter Drier



Part No.	Molec.	External Dia. (A)	Length (L)
XS110	10	16	110
XS115	15	19	115
XS120	20	19	141
XS125	25	24	125
XS130	30	24	140
XS140	40	24	170
XS150	50	29	160

inlet / outlet sizes can be produced according to customer's requirements.  
Molecular sieve: XH-9



Part No.	Molec.	External Dia. (A)	Length (L)
XS210	10	16	115
XS215	15	19	115
XS220	20	19	141
XS225	25	24	125
XS230	30	24	140
XS240	40	24	170
XS250	50	29	160



Part No.	Molec.	External Dia. (A)	Length (L)
XS310	10	16	110
XS315	15	19	115
XS320	20	19	141



Part No.	Molec.	External Dia. (A)	Length (L)
XS410	10	16	110
XS415	15	19	115
XS420	20	19	141

2 inlets (with access valve)+1 outlet

## Refrigerant Receiver



• Apply on end of Evaporator, as receiver of refrigerant and muffler.  
• Size : 3/4" x 100mm or 1" x 100mm  
• Connection :1/4" x 3/8"

Different sizes can be supplied based on special requirements.

## Filter Drier



• Inlet 1/4" 1~ 6 holes  
• 1/4"

Customized product available according to customers' requirement.

## Sight Glass



Part No.	Description
FC-04CF	1/4"x1/4" Flare with two nuts
FC-06CF	3/8"x3/8" Flare with two nuts
FC-08CF	1/2"x1/2" Flare with two nuts
FC-10CF	5/8"x5/8" Flare with two nuts



Part No.	Description
FC-04CS	1/4"x1/4" copper solder type
FC-06CS	3/8"x3/8" copper solder type
FC-08CS	1/2"x1/2" copper solder type
FC-10CS	5/8"x5/8" copper solder type

## Sight Glass



Part No.	Connection	Size		Code
		inch*inch	mm*mm	
SGN 6	Flare M*M	1/4"x1/4"	6x6	014-0161
SGN 10	Flare M*M	3/8"x3/8"	10x10	014-0162
SGN 12	Flare M*M	1/2"x1/2"	12x12	014-0163
SGN 16	Flare M*M	5/8"x5/8"	16x16	014-0165
SGN 19	Flare M*M	3/4"x3/4"	19x19	014-0166



Part No.	Connection	Size		Code
		inch*inch	mm*mm	
SGN 6s	Solder ODFxODF	1/4"x1/4"	-	014-0181
SGN 10s	Solder ODFxODF	3/8"x3/8"	-	014-0182
SGN 12s	Solder ODFxODF	1/2"x1/2"	-	014-0183
SGN 16s	Solder ODFxODF	5/8"x5/8"	16x16	014-0184
SGN 19s	Solder ODFxODF	3/4"x3/4"	19x19	014-0185
SGN 22s	Solder ODFxODF	7/8"x7/8"	22x22	014-0186



# ② COMPRESSOR

.....

## FavorCOOL<sup>®</sup>

QUALITY DELIVERED







**LG LBP Hermetic Compressor For Refrigerator**  
R134a 220V~240V/50Hz



Ref.	No.	Category	Model	Ref.	App.	Power (V/Hz)	C/Capa (W)	COP (W/W)	Qty/Pallet (PCS)	Qty/20GP (PCS)
R134a	220V/50Hz	1/12 HP	CSB024LHMG	R134a	LBP	220~240/50	50	0.81	125	3250
		1/10 HP	CSB030LHMG	R134a	LBP	220~240/50	76	0.95	125	3250
		1/8 HP	CMA042LHEG	R134a	LBP	220~240/50	107	1.35	72	2016
		1/6 HP	CMA053LHEG	R134a	LBP	220~240/50	150	1.42	72	2016
		1/5 HP	CMA057LHEG	R134a	LBP	220~240/50	163	1.42	72	2016
		1/4 HP	CMA069LHEM	R134a	LBP	220~240/50	195	1.52	72	2016
		1/4+ HP	CMA075LAEM	R134a	LBP	220~240/50	215	1.67	72	2016
		1/3 HP	LX95LHBM	R134a	LBP	220/50, 60	267	1.28	64	1664
		1/2 HP	LX110LAJM	R134a	LBP	220/50	323	1.39	64	1664
		115V/60Hz	1/8 HP	CSB035LJCM	R134a	LBP	115/60	105	0.94	125
1/5 HP	CMA053LHCG		R134a	LBP	115/60	167	1.42	72	2016	
1/4 HP	CMA062LHCM		R134a	LBP	115/60	203	1.43	72	2016	
R600a	220V/50Hz	1/10 HP	CSB057NJEG	R600a	LBP	220~240/50	100	1.30	125	3250
		1/8 HP	CSB069NJEG	R600a	LBP	220~240/50	126	1.40	125	3250
		1/6 HP	CSB075NJEG	R600a	LBP	220~240/50	139	1.36	125	3250
		1/5 HP	CSB090NJJM	R600a	LBP	220~240/50	160	1.30	125	3000
		1/5+ HP	CMA098NJEG	R600a	LBP	220~240/50	180	1.60	72	2016
		1/4 HP	CMA110NJEM	R600a	LBP	220~240/50	194	1.58	72	2016
		1/4+ HP	CMA121NBEM	R600a	LBP	220~240/50	220	1.85	72	2016
		115V/60Hz	1/10 HP	CSB045NHCG	R600a	LBP	115/60	86	1.41	125
1/8 HP	CSB057NHCG		R600a	LBP	115/60	120	1.50	125	3250	



**China R134a-LBP Compressor For Refrigerator**

Series	Model	VOL/FRE. (V/Hz)	Capacity (W)	COP (W/W)	Cooling	Motor Type	Capacitor	Certificate
220-240/50								
F	FH73C45B	220-240/50	185	1.25	FC	RSCR	6	
	FH93C45E	220-240/50	245	1.30	FC	RSCR	6	
	FH113C45B	220-240/50	330	1.50	FC	RSCR	6	CCC
	FH126C45B	220-240/50	370	1.50	FC	RSCR	6	CCC, VDE
	FH137C45B	220-240/50	410	1.50	FC	RSCR	6	CCC
	FH151C45B	220-240/50	440	1.45	FC	RSCR	6	CCC
M	MH79R45A	220-240/50	225	1.35	FC	RSIR		CCC, CE, CB, VDE
	MH92R45A	220-240/50	260	1.35	FC	RSIR		CCC, CE, CB, VDE
	MH112C45B	220-240/50	310	1.25	FC	RSCR	6	CCC
K	QDH35G	220-240/50	88	1.14	ST	RSIR		CCC, CE, CB, VDE
		220/60	100	1.15				
	QDH43G	220-240/50	108	1.18	ST	RSIR		CCC, CE, CB, VDE
	QDH51G	220-240/50	130	1.20	ST	RSIR		CCC, CE, CB, VDE
	KH58R25D	220/50	155	1.20	ST	RSIR		CCC
	KH68R25D	220/50	175	1.20	FC	RSIR		CCC
SK	KH48R45A	220/50	128	1.15	ST	RSIR		
V	VH23R45A	220-240/50	58	0.95	ST	RSIR		
	QDH28G	220-240/50	68	1.00	ST	RSIR	6	CCC, CE, CB, VDE

**China R600a-LBP Compressor For Refrigerator**

Series	Model	VOL/FRE. (V/Hz)	Capacity (W)	COP (W/W)	Cooling	Motor Type	Capacitor	Certificate
220-240/50								
V	VY33C45D	220-240/50	50	1.25	ST	RSIR		CCC, CE, CB, VDE
	VY43C45B	220-240/50	50	1.30	ST	RSCR	2.5	CCC, CE, CB, VDE
NV	VY51C45B	220-240/50	68	1.50	ST	RSCR	2.5	CCC, CE, CB, VDE
	VY60C45F	220-240/50	98	1.55	ST	RSCR	3	CCC
M	MY68C45V	220-240/50	115	1.80	ST	RSCR	3	
	MY73C45V	220-240/50	125	1.80	ST	RSCR	3	
	MY80C45V	220-240/50	140	1.80	ST	RSCR	3	
	MY88C45V	220-240/50	152	1.80	ST	RSCR	4	
	MY97C45V	220-240/50	165	1.80	ST	RSCR	4	
	QY111R45V	220-240/50	190	1.50	ST	RSIR		CCC, CE, CB, VDE
	QY118R45V	220-240/50	205	1.50	ST	RSIR		CCC, CE, CB, VDE



**China R134a DC Compressor For Refrigerator**

Refrigerant	Application	Model	Displacement (cm³)	Rotate speed (rpm)	-23.3°C Ashrae				Oil Charge (ml)	Cooling	Power Supply		
					Cooling Capacity			Efficiency					
					W	Kcal/h	Btu/h	COP				EER	
R134a	LBP	QDZH25G	2.5	2000	40	35	136	1.2	3.75	150	FC	12/24V (DC)	
					2500	50	43	170	1.2				3.75
					3000	60	51	205	1.2				3.75
					3500	70	60	239	1.2				3.75
R134a	LBP	QDZH28G	2.8	2500	50	43	170	1.2	3.75	150	FC	12/24V (DC)	
					3000	70	60	239	1.2				3.75
					3500	80	69	272	1.2				3.75
					2000	60	51	205	1.3				4.43
R134a	LBP	QDZH35G	3.5	2500	75	65	255	1.3	4.43	150	FC	12/24V (DC)	
					3000	88	76	300	1.25				4.26
					3500	100	86	341	1.2				4.09



**China R134a Mini DC Compressor**

Refrigerant	Application	Part No.	Displacement (cm³)	Max Speed (rpm)	Max Capacity(W)			oil (g)	Max Current (A)	Cooling Type	Power Supply	Motor Type
					W	Kcal/h	Btu/h					
R134a	LBP	QX1401VDL	1.4	6000	50	43.0	170.5	35	8	FC	12	Brushless
		QX1402VDL			50	43.0	170.5		6.5			
		QX1403VDL			52	44.7	177.3		4.2			
		QX1901VDL			76	65.0	259.2		8			
		QX1902VDL			80	68.8	272.8		6.5			
		QX1903VDL			80	68.8	272.8		4.2			
	QX3202VDL	105	90.3	358.1	55	8.5	24					
	HBP	QX140VDH	288	247.68	982.1	8.3	12					
		QX1402VDH	288	247.68	982.1	12	24					
		QX1403VDH	300	258	1023.0	6	48					
		QX1901VDH	360	309.6	1227.6	10	12					
		QX1902VDH	400	344	1364.0	15	24					
QX1903VDH		455	391.3	1551.6	7.5	48						
QX3202VDH	540	464.4	1841.4	55	12	24						







Rotary Compressor for Air conditioner



Fixed Frequency

R22 (1-50Hz-220/240V)

Series	Part No.	Displ. (cm <sup>3</sup> /rev)	Cooling Capacity		Power (W)	COP (W/W)	Capacitor (μF/V)	Compressor Height (mm)	Discharge Pipe ID (mm)	Suction Pipe ID (mm)
			W	Btu/h						
SM	HSM165	16.4	2870	9792	910	3.15	30/370	292	8.1	9.8
	HSM200	20.1	3470	11840	1145	3.03	35/370	301	9.8	12.9
	HSM215	21.4	3725	12710	1175	3.17	35/370	301	9.8	12.9
	HSM215	21.4	3700	12624	1175	3.15	35/370	301	9.8	12.9
M2	PH225	22.4	3915	13358	1265	3.10	35/400	293	8.1	12.9
	PH240	24.0	4225	14416	1340	3.15	35/400	293	8.1	12.9
	PH290	28.8	5090	17367	1650	3.08	35/370	348	9.8	12.9
	PH295	29.7	5350	18254	1700	3.15	45/370	348	9.8	12.9
	PH310	31	5565	18988	1750	3.18	40/400	348	9.8	12.9
	PH320	32	5710	19483	1840	3.10	60/400	348	9.8	12.9
	PH300	29.8	5340	18220	1645	3.25	55/400	297	9.8	12.9
	PH310	30.8	5515	18817	1695	3.25	55/400	310	9.8	16.2
G2	PH340	33.7	6030	20575	1865	3.23	60/400	310	9.8	12.9
	PH360	36	6475	22093	2005	3.23	50/400	324	9.8	16.2
	PH370	37	6650	22690	2065	3.22	50/400	324	9.8	16.2
	PH400	39.8	7100	24226	2255	3.15	50/400	354	9.8	16.2
	PH420	42.3	7420	25318	2390	3.10	50/400	354	9.8	16.2
	PH440	43.5	7810	26648	2390	3.27	50/400	354	9.8	16.2
X3	PH460	45.9	8080	27569	2600	3.10	55/400	396.5	9.8	16.2
	PH480	47.9	8460	28866	2730	3.10	55/400	396.5	9.8	16.2

Fixed Frequency

R410A (1-50Hz-220/240V)

Series	Part No.	Displ. (cm <sup>3</sup> /rev)	Cooling Capacity		Power (W)	COP (W/W)	Capacitor (μF/V)	Compressor Height (mm)	Discharge Pipe ID (mm)	Suction Pipe ID (mm)
			W	Btu/h						
SM	ASM106	10.6	2560	8734	853	3.00	25/370	292	8.1	9.8
	ASM118	11.8	2850	9724	950	3.00	25/370	292	8.1	12.9
	ASM125	12.5	3095	10560	1025	3.02	35/370	292	8.1	9.8
	ASM135	13.3	3300	11260	1110	2.95	35/370	292	8.1	12.9
	ASM140	13.9	3440	11737	1165	2.95	35/370	292	8.1	12.9
X2	PA150	15.1	3660	12488	1260	2.90	35/370	299	8.1	12.9
	PA160	16.0	3910	13341	1350	2.90	35/400	299	8.1	12.9
	PA170	17.1	4190	14297	1385	3.03	35/400	299	8.1	12.9
	PA185	18.5	4495	15337	1500	3.00	35/400	299	8.1	12.9
M2	PA200	19.9	4975	16975	1670	2.98	45/370	340	8.1	12.9
	PA215	21.4	5295	18067	1755	3.02	50/370	340	8.1	12.9
	PA225	22.4	5500	18766	1835	3.00	50/370	340	8.1	12.9
	PA240	23.9	5840	19926	1980	2.95	50/370	340	8.1	12.9
	PA250	25.1	6245	21308	2095	2.98	60/400	310	9.8	12.9
G2	PA260	26.0	6500	22178	2130	3.05	65/400	310	9.8	12.9
	PA270	27.0	6665	22741	2220	3.00	60/400	310	9.8	12.9
	PA290	28.7	7295	24891	2410	3.03	50/400	344	9.8	16.2
	PA331	32.6	8190	27944	2715	3.02	55/400	381.5	9.8	16.2



Rotary Compressor for Air conditioner



Constant-speed T1 R22

1φ 220/240V 50Hz

Model	Displacement (cc/rev)	Cooling Capacity (w)	Cooling Capacity (Btu/h)	COP (W/W)	Capacitor (μ F/v)	Height (mm)	Test Mode
SD086CV	8.6	1410	4811	2.94	15/400	205.0	ASHRAE/T
SD104CV	10.4	1740	5937	3.03	15/400	232.9	ASHRAE/T
SD122CV	12.2	2040	6960	2.96	15/400	232.9	ASHRAE/T
SD135UV	13.5	2300	7848	3.15	30/400	242.9	ASHRAE/T
SD156CV	15.6	2650	9042	3.05	25/400	232.9	ASHRAE/T
SG184SV	18.4	3050	10407	3.11	35/450	256.0/263.9	ASHRAE/T
SG210CV	21.0	3550	12113	3.17	30/450	261.0	ASHRAE/T
SL253CV	25.3	4210	14365	2.95	35/450	264.0	ASHRAE/T
SL286UV	28.6	4845	16531	3.20	45/450	289.0	ASHRAE/T
SL310UV	31.0	5240	17879	3.20	50/450	313.0	ASHRAE/T
SL325UV	32.5	5540	18902	3.20	40/450	313.0	ASHRAE/T
SH356UV	35.6	6120	20881	3.32	65/450	307.8	ASHRAE/T
SHV33Z***U	40.0	6740	22997	2.99	50/450	338.9	ASHRAE/T
SHV33Y***U	41.7	7100	24225	3.04	50/450	338.9	ASHRAE/T
TH454RV	45.4	7630	26034	3.23	70/450	372.7	ASHRAE/T
TH508	50.8	8660	29548	3.00	90/450	358.9	ASHRAE/T

Constant-speed T1 R410a

1φ 220/240V 50Hz

Model	Displacement (cc/rev)	Cooling Capacity (w)	Cooling Capacity (Btu/h)	COP (W/W)	Capacitor (μ F/v)	Height (mm)	Test Mode
ASD086UV	8.6	2030	6926	2.84	20/400	248.8	ASHRAE/T
ASD099HV	9.9	2340	7984	2.95	30/400	248.8	ASHRAE/T
ASG108TV	10.8	2510	8564	2.90	25/450	261.0	ASHRAE/T
ASG116CV	11.6	2730	9315	2.80	35/450	261.0	ASHRAE/T
ASG130UV	13.0	3170	10816	2.95	30/450	261.0	ASHRAE/T
ASL150UV	15.0	3555	12130	2.96	30/450	289.0	ASHRAE/T
ASL180SV-1	18.0	4300	14672	2.97	35/450	279.0	ASHRAE/T
ASL201UV	20.1	4800	16378	3.00	50/450	304.0	ASHRAE/T
ASH218SV	21.8	5180	17674	2.90	60/400	298.5	ASHRAE/T
ASH232SV	23.2	5510	18800	2.90	60/400	298.5	ASHRAE/T
ASH255TV	25.5	6080	20745	2.94	55/450	298.5	ASHRAE/T
ASH264UV	26.4	6420	21905	3.05	55/450	325.5	ASHRAE/T
ASH275CV	27.5	6500	22178	2.83	50/450	312.9	ASHRAE/T
ASH280TV	28.0	6830	23304	3.00	70/450	312.9	ASHRAE/T
ATH290TV	29.0	7130	24328	2.98	45/450	364.0	ASHRAE/T
ATH307RV	30.7	7330	25010	2.90	50/450	358.0	ASHRAE/T
ATH325CV	32.5	7780	26545	2.87	60/450	358.0	ASHRAE/T
ATH356CV	35.6	8440	28797	2.85	65/450	358.0	ASHRAE/T
ATH420	41.8	10100	29531	2.95	90/450	375.8	ASHRAE/T



**HIGHLY**

**Rotary Compressor for Refrigeration**

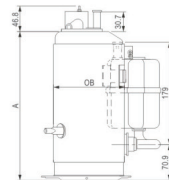
**R404A Compressor For Refrigeration**

Technical Data

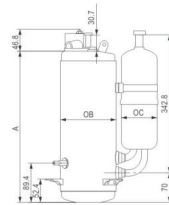
Model	WHP05180 DCV	DDH307LV	WHP09800 DCV	DTH488LC3	DTH590LC3	DTE752LC3	WHP19460 DCC3
Displacement (cc/rev)	25.4	30.7	48.8	48.8	59	75.2	91.1
Capacity (HP)	1.5	2	3	3	4	5	6.5
Power	220-240V/1PH/50HZ			380V/3PH/50HZ			
Refrigerant	R404A						
Evaporating Tempe (°C)	-45°C-10°C						
Condensing temp (°C)	20°C-65°C						
Rated current (A)	6.65(7.07)	7.5	11.8(13.75)	4.75(5.1)	6.2	8	8.8
Rated motor input (W)	1425(1525)	1585	2535(1970)	2570(2820)	3650	4600	5055
Rated capacity (W)	1540(2740)	2095	3305(5560)	3200(5250)	4200	5350	5600
Running Capacitor (μ F/IV)	50μF/450V	50μF/450V	60μF/450V	-			
Start Capacitor (μ F/IV)	105μF/330V	115μF/330V	65μF/330V	-			
Compressor height A (Without assembly parts)(mm)	289	361	372.7	361.3	414.6	445.2	441.1
Compressor diameter B(mm)	Φ139.1	Φ140.1	Φ139.1	Φ139.1	Φ167.6	Φ167.6	Φ168
Diameter of Separator	Φ60			Φ89.1			
Assembly dimension (Length×Width)(mm)	R88			R105			
Outline of Compressor	Picture1	Picture4	Picture2	Picture3			



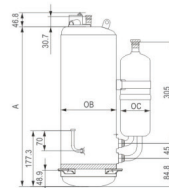
Outline Drawing



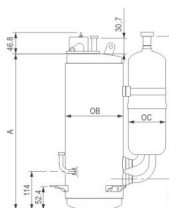
Picture1



Picture2



Picture3



Picture4

Model	W	Condensing temp (°C)	Evaporating Tempe (°C)							
			-40	-35	-25	-15	-10	-5	0	5
WHP05180DCV	Capacity (W)	45	672	867	1400	2156	2630	3174	3793	4492
		50	596	787	1291	1990	2425	2923	3490	4130
		55	497	686	1164	1811	2209	2664	3180	3763
	Input (W)	45	1042	1081	1177	1282	1333	1379	1419	1451
		50	1121	1161	1262	1375	1431	1483	1530	1569
		55	1223	1264	1355	1489	1550	1607	1660	1706
DDH307LV	Capacity (W)	45	851	1098	1774	2731	3331	4021	4805	5690
		50	755	997	1635	2521	3072	3703	4421	5232
		55	630	868	1475	2294	2798	3375	4029	4767
	Input (W)	45	1143	1185	1290	1405	1461	1512	1556	1591
		50	1229	1273	1384	1508	1569	1626	1677	1720
		55	1341	1386	1486	1633	1699	1762	1820	1870
WHP09800DCV	Capacity (W)	45	1442	2068	3006	4629	5646	6814	8143	9644
		50	1280	1950	2771	4272	5206	6276	7493	8867
		55	1067	1680	2499	3887	4743	5720	6828	8079
	Input (W)	45	1856	1920	2095	2282	2372	2455	2527	2583
		50	1996	2025	2247	2448	2548	2641	2724	2793
		55	2178	2300	2413	2651	2759	2862	2956	3037
DTH488LC3	Capacity (W)	45	1397	1802	2911	4482	5467	6589	7885	9338
		50	1240	1636	2683	4137	5041	6077	7255	8585
		55	1033	1425	2420	3764	4592	5538	6611	7822
	Input (W)	45	1882	1952	2125	2315	2406	2490	2563	2620
		50	2025	2097	2279	2483	2584	2678	2763	2833
		55	2208	2283	2447	2689	2798	2902	2998	3080
DTH590LC3	Capacity (W)	45	1831	2407	3948	6079	7390	8882	10563	12444
		50	1655	2070	3292	5111	6270	7609	9139	10871
		55	1536	2036	3033	4628	5677	6906	8328	9952
	Input (W)	45	2349	2456	2680	2899	2999	3088	3163	3222
		50	2914	3016	3247	3493	3614	3730	3838	3933
		55	3309	3403	3627	3876	4003	4127	4245	4354

Model	W	Condensing temp (°C)	Evaporating Tempe (°C)							
			-40	-35	-25	-15	-10	-5	0	5
DTE752LC3	Capacity (W)	50	2110	2638	4196	6514	7991	9699	11649	13857
		55	2013	2595	3866	5899	7236	8803	10615	12685
		60	1903	2711	3636	5328	6495	7895	9540	11443
	Input (W)	50	3727	3857	4153	4468	4623	4771	4908	5031
		55	4232	4352	4639	4958	5120	5279	5430	5569
		60	4885	4992	5260	5574	5739	5903	6063	6215
WHP19460DCC3	Capacity (W)	50	2565	3206	5101	7918	9713	11789	14160	16843
		55	2690	3155	4699	7170	8795	10700	12903	15418
		60	2342	2895	4419	6476	7895	9596	11595	13909
	Input (W)	50	4497	4654	5010	5391	5578	5757	5922	6070
		55	5106	5251	5597	5982	6178	6369	6551	6719
		60	5894	6023	6346	6762	6924	7123	7316	7499

**HIGHLY**

**Rotary Compressor for Refrigeration**

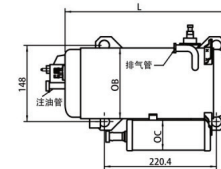
**Horizontal & Vertical type**

Technical Data

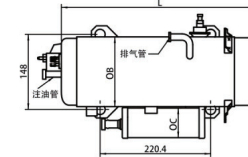
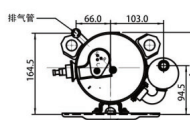
Model	DDH254LV	DDH307LV	DDH356LV	DDH254LS3	DDH356LS3	DBH488LS3	DBH488LC	DBH250LDP	DBH356LDP
Displacement(cc/rev)	25.4	30.7	35.6	25.4	35.6	48.8	48.8	25.0	35.6
Power	220-240V, 1Φ, 50Hz			200-220V, 3Φ, 50Hz/60Hz			380V, 3Φ, 50Hz		
Refrigerant	R404A								
Evaporating temp.(°C)	-45°C - 10°C								
Condensing temp.(°C)	20°C-65°C								
Test condition	Test condition for freezing (cold storage)								
Allowable speed range(rpm)	-								1800 - 4800
Rated speed(rpm)	-								3000
Rated current(A)	5.8(6.5)	7.0(8.4)	8.1(9.7)	5.15(5.8) /5.20(6.0)	6.15(7.5) /6.90(7.9)	8.7(9.8) /9.2(9.6)	4.56(4.85)	8(9.5)	11
Rated motor input(W)	1290(1405)	1560(1800)	1745(2080)	1250(1360) /1550(1685)	1680(2000) /2130(2400)	2390(2640) /2830(3150)	2400(2695)	1000	1450
Rated capacity(W)	1600(2875)	1950(3470)	2235(4025)	1550(2785) /1930(3340)	2290(4080) /2800(4900)	3100(5330) /3700(6380)	2970(5150)	1820	2580
Running Capacitor(μF/V)	45μF/420V	60μF/420V	60μF/420V	-					
Start Capacitor(μF/V)	175μF/420V	100μF/420V	100μF/420V	-					
Compressor height A (Without assembly parts)(mm)	161.5*333.5	160.5*307.8		160.5*310.4		160.5*376.6		160.5*365.1	
Compressor diameter B(mm)	Φ140.1			Φ139.1					
Accumulator diameter C(mm)	Φ58								
Assembly dimension (Length X Width)(mm)	220.4*148								
Outline of Compressor	Picture 6	Picture 5			Picture 6				

Notes: The data in brackets is the parameter under the test condition for cold storage;  
The data before and after the " / " is the parameter under 50Hz and 60Hz respectively.

Outline Drawing



Picture 5



Picture 6







Copeland ZB Series R404a Scroll Compressor

Part No.	Motor TFD	Nominal power (Hp)	Displ. (m3/h)	Current		Capacitor (Single Phase Select)	Connection tube (inch)		Oil charge (L)
				(RLA) TFD	(A) PFJ		Discharge	Suction	
ZB15KQ / ZB15KQE	PFJ/TFD	2	5.9	4.3	11.4	40µF/370V	1/2	3/4	1.18
ZB19KQ / ZB19KQE	PFJ/TFD	2.5	6.8	4.3	12.9	45µF/370V	1/2	3/4	1.45
ZB21KQ / ZB21KQE	PFJ/TFD	3	8.6	5.7	16.4	50µF/370V	1/2	3/4	1.45
ZB26KQ / ZB26KQE	PFJ/TFD	3.5	9.9	7.1	18.9	60µF/370V	1/2	3/4	1.45
ZB29KQ / ZB29KQE	TFD	4	11.4	7.9	19.3	60µF/370V	1/2	7/8	1.36
ZB38KQ / ZB38KQE	TFD	5	14.5	8.9	-	-	1/2	7/8	1.89
ZB45KQ / ZB45KQE	TFD	6	17.2	11.5	-	-	1/2	7/8	1.89
ZB48KQ / ZB48KQE	TFD	7	18.8	12.1	-	-	3/4	7/8	1.80
ZB58KQ / ZB58KQE	TFD	8	22.1	16.4	-	-	7/8	1 1/8	2.51
ZB66KQ / ZB66KQE	TFD	9	25.7	17.3	-	-	7/8	1 3/8	3.25
ZB76KQ / ZB76KQE	TFD	10	28.8	19.2	-	-	7/8	1 3/8	3.25
ZB88KQ / ZB88KQE	TFD	12	33.2	22.1	-	-	7/8	1 3/8	3.25
ZB95KQ / ZB95KQE	TFD	13	36.4	22.1	-	-	7/8	1 3/8	3.30
ZB114KQ / ZB114KQE	TFD	15	43.4	27.1	-	-	7/8	1 3/8	3.30

Copeland ZR Series R407c Scroll Compressor

Part No.	Nominal Power (HP)	Nominal Capacity		Input power (W)	Current (A)	Displ. (cm³/rev)	Weight (kg)	Height (mm)	Noise (dBA)
		(W)	(Btu/h)						
ZR24K3E-TFD	2.0	5,900	20,119	1,920	4.3	5.92	25.0	383	69.0
ZR36K3E-TFD	3.0	8,900	30,349	2,680	5.7	8.61	28.0	406	71.0
ZR42K3E-TFD	3.5	10,250	34,952	3,100	7.1	9.94	28.0	406	69.0
ZR47K3E-TFD	3.92	11,550	39,385	3,430	7.2	11.16	30.0	436	71.0
ZR61KCE-TFD	5.1	14,000	47,600	4,460	8.4	3.14	28.0	436	71.0
ZR68KCE-TFD	5.7	14,800	54,000	5,100	8.9	3.11	39.0	436	72.0
ZR72KCE-TFD	6.0	16,600	56,500	5,150	9.1	3.22	38.6	457	72.0
ZR81KCE-TFD	6.8	18,600	63,500	5,900	10.9	3.17	39.0	457	72.0
ZR94KCE-TFD	7.8	23,000	78,600	6,950	12.9	3.34	57.2	462	74.0
ZR108KCE-TFD	9.0	28,800	88,100	7,580	13.8	3.40	59.9	497	74.0
ZR125KCE-TFD	10.4	30,000	103,000	8,950	16.0	3.40	61.2	552	74.0
ZR144KCE-TFD	12.0	34,500	11,800	10,150	17.7	3.40	61.2	552	75.0
ZR160KCE-TFD	13.3	37,500	128,000	11,450	20.5	3.28	64.9	552	78.0
ZR190KCE-TFD	15.8	44,000	150,000	13,650	26.5	3.22	66.2	552	82.0
ZR250KCE-TWD	20.8	58,500	200,000	18,000	30.1	3.25	139.3	552	83.0
ZR310KCE-TWD	25.8	72,500	248,000	22,300	37.9	3.25	160.1	552	85.0
ZR380KCE-TWD	31.7	91,500	313,000	26,700	45.5	3.43	176.9	552	88.0



R407C Scroll Compressor

Part No.	Phase	Out Put HP	Displacement cm³/rev	Compressor	50Hz				60Hz			
					Capacity		COP		Capacity		COP	
					kW	kBTU/h	W/W	BTU/Wh	kW	kBTU/h	W/W	BTU/Wh
C-SBN263H8A	3	3.5	55.7	809 930 88	9.6	32.8	2.87	9.8	11.8	40.3	2.87	9.8
C-SBN303H8A	3	4	66.8	809 940 88	11.6	39.6	3.05	10.4	14.6	49.8	3.17	10.8
C-SBN303H8G				809 946 88	11.6	39.6	3.05	10.4	14.6	49.8	3.17	10.8
C-SBN353H8A	3	4.5	77.4	809 942 88	13.4	45.8	2.91	9.9	16.5	56.3	2.95	10.1
C-SBN353H8G				809 944 88	13.4	45.8	2.91	9.9	16.5	56.3	2.95	10.1
C-SBN373H8A	3	5	83.2	809 950 88	14.5	49.5	2.93	10.0	17.8	60.8	2.99	10.2
C-SBN373H8G				809 956 88	14.5	49.5	2.93	10.0	17.8	60.8	2.99	10.2
C-SBN453H8A	3	6	100.0	809 960 88	17.6	60.1	3.03	10.3	21.3	72.7	3.04	10.4
C-SBN453H8G				809 966 88	17.6	60.1	3.03	10.3	21.3	72.7	3.04	10.4
C-SBS235H38A	3	7	110.2	-	19.5	66.6	3.10	10.6	23.4	79.9	3.10	10.6
C-SBS235H38B				-	19.5	66.6	3.10	10.6	23.4	79.9	3.10	10.6
C-SCN583H8H	3	8	131.9	809 184 88	23.6	80.6	3.13	10.7	28.0	95.6	3.03	10.3
C-SCN583H8K				809 186 88	23.6	80.6	3.13	10.7	28.0	95.6	3.03	10.3
C-SCN583H8T				809 187 88	23.6	80.6	3.13	10.7	28.0	95.6	3.03	10.3
C-SCN603H8H	3	8	137.0	809 181 88	24.5	83.6	3.16	10.8	29.1	99.4	3.08	10.5
C-SCN603H8K				809 183 88	24.5	83.6	3.16	10.8	29.1	99.4	3.08	10.5
C-SCN603H8T				809 185 88	24.5	83.6	3.16	10.8	29.1	99.4	3.08	10.5
C-SCN673H8H	3	9	148.8	809 191 88	26.5	90.5	3.12	10.7	32.0	109.3	3.06	10.4
C-SCN673H8K				809 193 88	26.5	90.5	3.12	10.7	32.0	109.3	3.06	10.4
C-SCN753H8H	3	10	171.2	809 101 88	29.9	102.1	3.20	10.9	35.9	122.6	3.12	10.7
C-SCN753H8K				809 103 88	29.9	102.1	3.20	10.9	35.9	122.6	3.12	10.7
C-SCN753H8T				809 105 88	29.9	102.1	3.20	10.9	35.9	122.6	3.12	10.7
C-SCN903H8H	3	12	205.4	809 121 88	34.9	119.2	3.09	10.5	-	-	-	-
C-SCN903H8K				809 123 88	34.9	119.2	3.09	10.5	-	-	-	-
C-SCN903H8T				809 125 88	34.9	119.2	3.09	10.5	-	-	-	-



R404A Scroll Compressor

Part No.	HP	(W)		(W)	(A)		(Btu/Wh)	(cc/Rev)	(l)
		W	Btu/h		COP	EER			
MLZ015	2	3,300	11,300	1.75	1.89	6.45	33.8	5.9	1.1
MLZ019	2.5	4,500	15,400	2.16	2.06	7.03	43.5	7.6	1.1
MLZ021	3	4,700	16,000	2.27	2.08	7.10	46.2	8.0	1.1
MLZ026	3.5	5,800	19,800	2.9	2.00	6.83	57.1	9.9	1.1
MLZ030	4	7,100	24,200	3.35	2.11	7.20	68.8	12.0	1.6
MLZ038	5	8,400	28,700	3.86	2.19	7.47	81.0	14.1	1.6
MLZ045	6	10,200	34,800	4.81	2.11	7.20	98.6	17.2	1.6
MLZ048	7	11,100	37,900	5.17	2.14	7.30	107.5	18.7	1.6
MLZ058	7.5	13,000	44,400	6.08	2.13	7.27	126.0	21.9	2.7
MLZ066	9	15,100	51,500	7.01	2.15	7.34	148.8	25.9	2.7
MLZ076	10	17,300	59,000	7.93	2.18	7.44	162.4	28.3	2.7





China R404a Scroll Compressor

Model		DM50HM DM50HE	DM80HM DM80HE	DM132HM DM132HE	DM182HM DM182HE	DM200HM DM200HE	DM260HM DM260HE
Motor Type		3Phase					
		1Phase					
Nominal Power	H.P	3	5	8	10	12	15
Cooling Capacity	W	6550	11190	17090	22190	27450	33950
Displacement	m <sup>3</sup> /h	8.6	14.5	21.6	29.1	33.1	42.6
Locked-rotor ampere (LRA)	3PH (A)	40	65.5	115	118	121	145
	1PH (A)	82					
Rated load ampere (RLA)	3PH (A)	5.7	8.7	14.3	19.2	22.1	27.1
	1PH (A)	16.4					
Maximum continuous operating current (MCC)	3PH (A)	8.1	13.5	19.8	26.9	31.1	38.2
	1PH (A)	23					
Run capacitor (1 Ph)		50F/370V					
Crank case heating power	W	70	70	90	90	90	90
Outside Dimension (OD)	Exhaust pipe (D/P)	inch					
	Air suction pipe (S/P)	1/2	1/2	7/8	7/8	7/8	7/8
Outside Dimension (OD)	L	mm					
	W	242	242	242	242	242	242
	H	415	455	540	540	540	540
Foot mounting dimensions. (Aperture)		190 x 190 (8.5)					
Oil Volume	L	1.4	1.9	3.4	3.4	3.4	3.4
Weight	Net weight	Kg					
	Gross Weight	28	37	54	54	56	56
		29	38	55	55	57	57

Test condition; Condensing Temperature +50°C, Evaporating Temperature 0°C, Suction Gas Temperature +18.3°C

China R404a Semi-hermetic Scroll Compressor



Model		DSM132HM DSM132HE	DSM182HM DSM182HE	DSM200HM DSM200HE	DSM260HM DSM260HE
Motor Type		T3F (3PH)			
Nominal Power	H.P	8	10	12	15
Cooling Capacity	W	17090	22190	27450	33950
Displacement	m <sup>3</sup> /h	21.6	29.1	33.1	42.6
Locked-rotor ampere (LRA)	3PH (A)	115	118	121	145
Rated Load ampere (RLA)	3PH (A)	14.3	19.2	22.1	27.1
Maximum continuous operating current (MCC)	3PH (A)	19.8	26.9	31.1	38.2
Crankcase heating power	W	90	90	90	90
Outside Dimension (OD)	Exhaust pipe (D/P)	inch			
	Air suction pipe (S/P)	7/8	7/8	7/8	7/8
Dimensions	L	mm			
	W	354	354	354	354
	H	523	523	523	523
Foot mounting dimensions. (Aperture)		190 x 190 (8.5)			
Oil Volume	L	3.4	3.4	3.4	3.4
Weight	Net weight	Kg			
	Gross Weight	85	87	89	91
		86	88	90	92

Test condition; Condensing Temperature +50°C, Evaporating Temperature 0°C, Suction Gas Temperature +18.3°C

China Semi-hermetic Reciprocating Compressor



2YD-2.2---2YG-4.2 Compressor



4YD-3.2---4YG-9.2 Compressor



4YD-8.2---4YG-20.2 Compressor



4YD-15.2---4YG-30.2 Compressor



6WD-25.2---6WG-50.2 Compressor



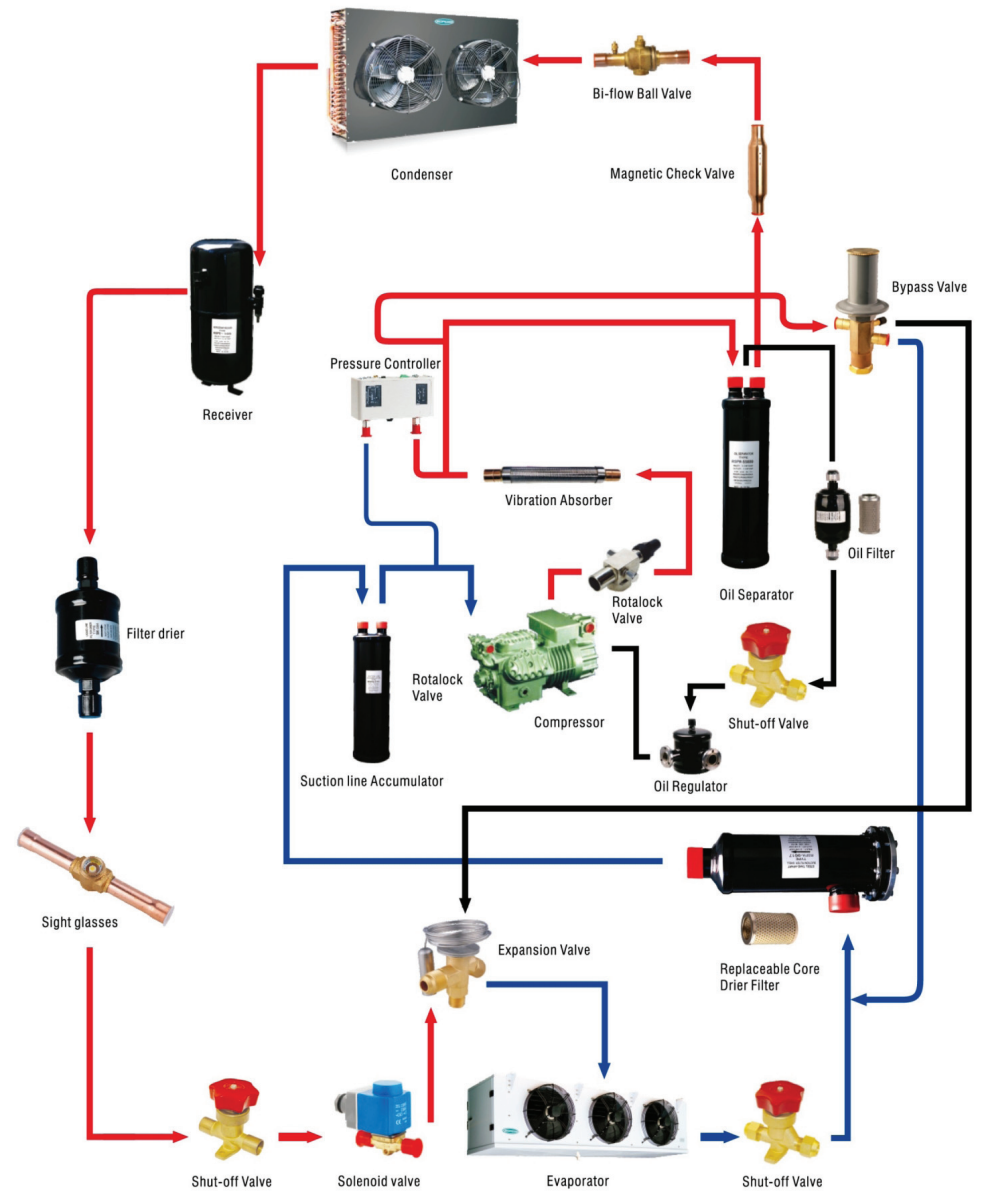
6YDS-20.2---6WGS-30.2 Double-Stage Compressor

Technical Data

Model	Nominal Motor-Power Hp/kW	Displacement m <sup>3</sup> /h 50/60Hz	Number Of Cylinder x Diameter x Stroke (mm)	Suction, Discharge Line (mm)		Oil Volume (L)	Power Supply (V/Φ/Hz)	Electrical Parameter		Crankcase Heater (220v) W	Oil Supply Method	Weight (kg)
				DL Discharge Valve	SL Suction Valve			Max. Operating Current	Starting/ Locked Current			
2YD-2.2	2/1.5	13.4/16.2	2×Φ50×39.3	Φ16	Φ22	1.5	220-240 <sup>Δ</sup> /380-420Y/3/50	11.9/6.9	53.7/30.7	120	Centrifugal lubrication	67.5
2YG-3.2	3/2.2	13.4/16.2	2×Φ50×39.3	Φ16	Φ22	1.5		13.5/7.8	64/37	120		70.5
2YD-3.2	3/2.2	16.2/19.6	2×Φ55×39.3	Φ16	Φ22	1.5		14.8/8.5	64/37	120		70
2YG-4.2	4/3	16.2/19.6	2×Φ55×39.3	Φ16	Φ22	1.5		16.4/9.4	76.6/44.2	120		70
4YD-4.2	3/2.2	18.1/21.8	4×Φ41×39.3	Φ16	Φ22	1.5		15.9/9.2	76.6/44.2	120		82
4YG-5.2	5/3.7	18.1/21.8	4×Φ41×39.3	Φ16	Φ22	1.5		18.7/10.8	107.7/62.2	120		86
4YD-4.2	4/3	22.7/27.4	4×Φ46×39.3	Φ22	Φ28	1.5		18.5/10.7	92.7/53.2	120		84
4YG-6.2	6/4.4	22.7/27.4	4×Φ46×39.3	Φ22	Φ28	1.5		22.9/13.2	107.7/62.2	120		86
4YD-5.2	5/3.7	26.8/32.4	4×Φ50×39.3	Φ22	Φ28	1.5		23.4/13.5	107.7/62.2	120		85.5
4YG-7.2	7/5.1	26.8/32.4	4×Φ50×39.3	Φ22	Φ28	1.5		27.5/15.9	142.8/82.4	120		88.5
4YD-6.2	6/4.4	32.5/39.2	4×Φ55×39.3	Φ22	Φ28	1.5	27.5/15.9	142.8/82.4	120	90.5		
4YG-9.2	9/6.6	32.5/39.2	4×Φ55×39.3	Φ22	Φ28	1.5	34.2/20	142.8/82.4	120	90.5		
4YD-8.2	8/5.5	41.3/49.9	4×Φ60×40	Φ28	Φ35	2.6	380-420YY/3/50 440-480YY/3/60	17	49/81	120	Forced-lubrication	134
4YG-12.2	12/8.8	41.3/49.9	4×Φ60×40	Φ28	Φ35	2.6		24	69/113	140		141
4YD-10.2	10/7.5	48.5/58.5	4×Φ65×40	Φ28	Φ35	2.6		21	59/99	140		139
4YD-15.2	15/10.5	48.5/58.5	4×Φ65×40	Φ28	Φ35	2.6		31	81/132	140		147
4YD-12.2	12/8.8	56.2/67.9	4×Φ70×40	Φ28	Φ35	2.6		24	69/113	140		141
4YG-20.2	20/15	56.2/67.9	4×Φ70×42	Φ28	Φ42	2.6		37	97/158	140		150
4YD-15.2	15/10.5	73.6/88.8	4×Φ70×55	Φ28	Φ42	4		31	81/132	140		183
4YG-25.2	25/18.5	73.6/88.8	4×Φ70×55	Φ28	Φ54	4.5		45	116/193	140		203
4VD-20.2	20/15	84.5/101.9	4×Φ75×55	Φ28	Φ54	4.5		37	97/158	140		192
4YG-30.2	30/22	84.5/101.9	4×Φ75×55	Φ28	Φ54	4.5		53	135/220	140		206
6WD-25.2	25/18.5	110.5/133.4	6×Φ70×55	Φ35	Φ54	4.75	45	116/193	140	224		
6WG-35.2	35/25.5	110.5/133.4	6×Φ70×55	Φ42	Φ54	4.75	61	147/262	140	235		
6WD-30.2	30/22	126.8/153	6×Φ75×55	Φ35	Φ54	4.75	53	135/220	140	228		
6WG-40.2	40/30	126.8/153	6×Φ75×55	Φ42	Φ54	4.75	78	180/323	140	238		
6WD-40.2	40/30	151.6/183	6×Φ82×55	Φ42	Φ54	4.75	78	180/323	140	239		
6WG-50.2	50/37	151.6/183	6×Φ82×55	Φ42	Φ54	4.75	92	226/404	140	241		
6WDS-20.2	20/15	73.6/36.9 88.8/44.5	6×Φ70/70×55	Φ35	Φ42	4.75	37	97/158	140	220		
6WDS-25.2	25/18.5	84.5/42.3 101.9/51.1	6×Φ75/75×55	Φ35	Φ42	4.75	45	116/193	140	233		
6WDS-30.2	30/22	101.1/50.5 122.0/60.9	6×Φ82/82×55	Φ35	Φ42	4.75	53	135/220	140	234		



### SCHEMATIC OF REFRIGERATION SYSTEM



### 3 REFRIGERATION SPARE PARTS

.....  
**FavorCOOL<sup>®</sup>**  
QUALITY DELIVERED



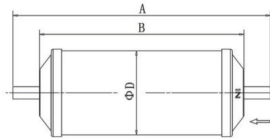
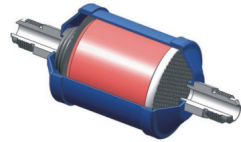


SRK Liquid Line Filter Drier (Solid Core)

Feature:

- **100% molecular sieve core;**
- Compatible with all CFC, HCFC and HFC refrigerants and oils;
- High dirt retention, down to 40µm particles, with minimal pressure drop;
- High absorbent and acid removable capacity;
- Highly corrosion-resistant powder coating finish. Can be used in all environments, including marine applications;
- Maximum working pressure: 4.7MPa/680Psig.

SRK liquid line filter driers are designed with a molded core with a mix of components which provides high filtration capacity. This assures the optimal drying capacity and avoids acid formation in the refrigeration system.



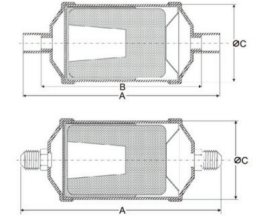
Part No.	Connections		Liquid Flow Capacity (KW)					Dimensions		
	ODF	SEA	R134a	R22/R410A	R407C	R404A/R507	R502	A	B	D
SRK-032	-	1/4	6.7	7.4	7.2	4.9	4.6	113	66	43
SRK-032S	1/4	-	8.1	8.7	8.5	6.0	5.6	110	66	43
SRK-033	-	3/8	9.5	10.2	10.2	7.0	6.7	123	66	43
SRK-033S	3/8	-	10.5	11.6	11.6	7.7	7.4	114	66	43
SRK-052	-	1/4	61.2	49.8	61.8	41.3	40.3	119	72	63.5
SRK-052S	1/4	-	9.7	10.4	10.2	7.9	7.6	116	72	63.5
SRK-053	-	3/8	11.5	12.3	12.1	9.7	9.4	129	72	63.5
SRK-053S	3/8	-	47	52	51	32	31	120	72	63.5
SRK-082	-	1/4	50	55	54	35	34	145	98	63.5
SRK-082S	1/4	-	70.5	76.7	76.7	50.9	49.8	142	98	63.5
SRK-083	-	3/8	12.7	12.5	12.1	10	9.8	155	98	63.5
SRK-083S	3/8	-	14.5	15.9	15	9.7	27	146	98	63.5
SRK-084	-	1/2	36	31	42	42	34	163	98	63.5
SRK-084S	1/2	-	50.6	55	54	35.4	39	148	98	63.5
SRK-085S	5/8	-	55.6	60.1	59.1	40.4	61.6	146	98	63.5
SRK-162	-	1/4	87.6	95	93.2	63.3	11.6	159	112	76
SRK-162S	1/4	-	16.5	17.9	17.6	11.9	33	156	112	76
SRK-163	-	3/8	42.8	37	48	48	24.2	169	112	76
SRK-163S	3/8	-	34.4	37.3	36.6	24.9	26.4	160	112	76
SRK-164	-	1/2	37.6	40.8	40.1	27.4	39	177	112	76
SRK-164S	1/2	-	60	60	59	40	53	162	112	76
SRK-165	-	5/8	67	75	74	54	78.8	185	112	76
SRK-165S	5/8	-	111.6	121.4	121	80.5	5.2	160	112	76
SRK-166	-	3/4	7.3	7.9	7.9	5.3	9.0	191	112	76
SRK-166S	3/4	-	12.8	13.9	13.9	9.2	11.4	166	112	76
SRK-167S	7/8	-	16.2	17.6	17.6	11.7	16.6	172	112	76
SRK-302	-	1/4	23.5	25.5	25.5	16.9	5.2	232	185	76
SRK-303	-	3/8	7.3	7.9	7.9	5.3	9.0	242	185	76
SRK-303S	3/8	-	12.8	13.9	13.9	9.2	13.6	233	185	76
SRK-304	-	1/2	19.2	20.9	20.3	13.9	18.5	250	185	76
SRK-304S	1/2	-	26.1	28.4	27.9	18.9	22.9	235	185	76
SRK-305	-	5/8	32.3	35.3	34.3	23.4	25.7	258	185	76
SRK-305S	5/8	-	36.5	39.5	39.5	26.2	15.1	233	185	76
SRK-306	-	3/4	21.4	23.3	23.0	15.4	20.5	264	185	76
SRK-306S	3/4	-	29.0	31.6	31.6	21.0	30.2	239	185	76
SRK-307S	7/8	-	42.8	46.5	46.5	30.9	36.2	245	185	76
SRK-309S	1-18	-	51.3	55.8	55.8	37	45.3	245	185	76

SDCL Liquid Line Filter Drier (Solid Core)

Feature:

- **80% 3A molecular sieve and 20% active aluminum;**
- Compatible with all CFC, HCFC and HFC refrigerants and oils;
- High dirt retention, down to 40 µm particles, with minimal pressure drop;
- High absorbent and acid removable capacity;
- Highly corrosion-resistant powder coating finish. Can be used in all environments, including marine applications;
- Maximum working pressure: 4.7MPa/680Psig.

This machine uses 80% 3A molecular sieve core and 20% active aluminum inside, it is a perfect core mixture for the equipment system which has strong drying requirement and work under lowest frozen temperature. It has best result to apply to refrigeration of CFC & HCFC (R22, R502) using with the petrol and ALKY-phenyl oil.



Part No.	Connections		Liquid Flow Capacity (KW)					Dimensions		
	ODF	SEA	R134a	R22 / R410A	R407C	R404A / R507	R502	A	B	D
SDCL-032	-	1/4	6.7	7.4	7.2	4.9	4.6	113	66	43
SDCL-032S	1/4	-	8.1	8.7	8.5	6.0	5.6	110	66	43
SDCL-033	-	3/8	9.5	10.2	10.2	7.0	6.7	123	66	43
SDCL-033S	3/8	-	10.5	11.6	11.6	7.7	7.4	114	66	43
SDCL-052	-	1/4	61.2	49.8	61.8	41.3	40.3	119	72	63.5
SDCL-052S	1/4	-	9.7	10.4	10.2	7.9	7.6	116	72	63.5
SDCL-053	-	3/8	11.5	12.3	12.1	9.7	9.4	129	72	63.5
SDCL-053S	3/8	-	47	52	51	32	31	120	72	63.5
SDCL-082	-	1/4	50	55	54	35	34	145	98	63.5
SDCL-082S	1/4	-	70.5	76.7	76.7	50.9	49.8	142	98	63.5
SDCL-083	-	3/8	12.7	12.5	12.1	10	9.8	155	98	63.5
SDCL-083S	3/8	-	14.5	15.9	15	9.7	27	146	98	63.5
SDCL-084	-	1/2	36	31	42	42	34	163	98	63.5
SDCL-084S	1/2	-	50.6	55	54	35.4	39	148	98	63.5
SDCL-085S	5/8	-	55.6	60.1	59.1	40.4	61.6	146	98	63.5
SDCL-162	-	1/4	87.6	95	93.2	63.3	11.6	159	112	76
SDCL-162S	1/4	-	16.5	17.9	17.6	11.9	33	156	112	76
SDCL-163	-	3/8	42.8	37	48	48	24.2	169	112	76
SDCL-163S	3/8	-	34.4	37.3	36.6	24.9	26.4	160	112	76
SDCL-164	-	1/2	37.6	40.8	40.1	27.4	39	177	112	76
SDCL-164S	1/2	-	60	60	59	40	53	162	112	76
SDCL-165	-	5/8	67	75	74	54	78.8	185	112	76
SDCL-165S	5/8	-	111.6	121.4	121	80.5	5.2	160	112	76
SDCL-166	-	3/4	7.3	7.9	7.9	5.3	9.0	191	112	76
SDCL-166S	3/4	-	12.8	13.9	13.9	9.2	11.4	166	112	76
SDCL-167S	7/8	-	16.2	17.6	17.6	11.7	16.6	172	112	76
SDCL-302	-	1/4	23.5	25.5	25.5	16.9	5.2	232	185	76
SDCL-303	-	3/8	7.3	7.9	7.9	5.3	9.0	242	185	76
SDCL-303S	3/8	-	12.8	13.9	13.9	9.2	13.6	233	185	76
SDCL-304	-	1/2	19.2	20.9	20.3	13.9	18.5	250	185	76
SDCL-304S	1/2	-	26.1	28.4	27.9	18.9	22.9	235	185	76
SDCL-305	-	5/8	32.3	35.3	34.3	23.4	25.7	258	185	76
SDCL-305S	5/8	-	36.5	39.5	39.5	26.2	15.1	233	185	76
SDCL-306	-	3/4	21.4	23.3	23.0	15.4	20.5	264	185	76
SDCL-306S	3/4	-	29.0	31.6	31.6	21.0	30.2	239	185	76
SDCL-307S	7/8	-	42.8	46.5	46.5	30.9	36.2	245	185	76
SDCL-309S	1-18	-	51.3	55.8	55.8	37	45.3	245	185	76



SR Filter Drier (Compact Beads)

The drier filters adopt a composition design of drying and filtration, and take gas as medium, effectively preventing filtration and soluble substances from entering the key positions of the refrigeration system, in order to secure and operation under the best condition.

Feature:

- 100% 3A molecular sieve core;
- Shock resistant steel shell construction;
- High dirt retention, down to 25 µm particles, with minimal pressure drop;
- High absorbent and acid removable capacity;
- Highly corrosion-resistant powder coating finish. Can be used in all environments, including marine applications;
- Maximum working pressure: 4.7MPa/680Psig.



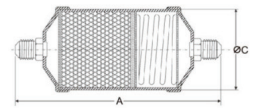
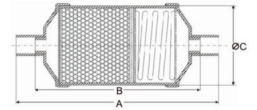
Part No.	Connections (in)		Liquid Flow Capacity (KW)					Dimensions (mm)		
	ODF	SEA	R134a	R22/R410A	R407C	R404A/R507	R502	A	B	D
SR-052	-	1/4	9.0	9.8	7.7	6.5	6.3	119	72	63.5
SR-052S	1/4	-	13.3	14.4	12.3	9.6	9.4	116	72	63.5
SR-053	-	3/8	21.4	23.3	13.4	15.4	15.1	129	72	63.5
SR-053S	3/8	-	26.5	28.9	16.9	19.1	18.7	120	72	63.5
SR-054S	1/2	-	34	36	23	24	23.5	122	72	63.5
SR-082	-	1/4	8.6	9.3	8.4	6.2	6.0	145	98	63.5
SR-082S	1/4	-	13.7	14.6	12.0	9.9	9.7	142	98	63.5
SR-083	-	3/8	21.8	23.7	15.1	15.7	15.4	155	98	63.5
SR-083S	3/8	-	27.4	29.8	17.2	19.8	19.3	146	98	63.5
SR-084	-	1/2	36.4	29.6	25.0	26.2	25.7	163	98	63.5
SR-084S	1/2	-	38.9	42.4	26.4	28.1	27.5	148	98	63.5
SR-085	5/8	-	60	67	35	42	51	146	98	63.5
SR-162	-	1/4	11	12	12.1	8	7	168.5	121.5	63.5
SR-162S	1/4	-	15	14	14	9	9	165.5	121.5	63.5
SR-163	-	3/8	22.2	24.2	14.4	16.1	15.7	178.5	121.5	63.5
SR-163S	3/8	-	31.7	34.3	16.5	22.9	22.4	169.5	121.5	63.5
SR-164	-	1/2	38.5	41.9	27.0	27.8	27.2	186.5	121.5	63.5
SR-164S	1/2	-	49.6	54.0	31.6	35.8	35.1	171.5	121.5	63.5
SR-165	-	5/8	50.5	54.9	36.2	36.4	35.7	194.5	121.5	63.5
SR-165S	5/8	-	67.2	73.1	37.6	48.5	47.5	169.5	121.5	63.5
SR-166	-	3/4	60	62	42	42	40	200.5	121.5	63.5
SR-167S	7/8	-	70.6	76.8	58.0	51.0	49.5	181.5	121.5	63.5
SR-302	-	1/4	13	15	15	11	10	232	185	76
SR-303	-	3/8	23	26	16	18	17	242	185	76
SR-303S	3/8	-	33	37	19	25	25	233	185	76
SR-304	-	1/2	43.6	47.5	30.2	31.5	30.8	250	185	76
SR-304S	1/2	-	54.3	59.1	38.0	39.2	38.4	235	185	76
SR-305	-	5/8	55.6	60.5	39.7	40.1	39.3	258	185	76
SR-305S	5/8	-	74.0	80.5	46.8	53.4	52.3	233	185	76
SR-306	-	3/4	65	67	47	47	45	264	185	76
SR-306S	3/4	-	79	85	51	58	57	239	185	76
SR-307S	7/8	-	83.4	90.8	62.9	60.2	59.0	245	185	76
SR-309S	1-1/8	-	109.1	118.7	73.1	78.7	77.1	245	185	76

SDML Liquid Line Filter Drier (Solid Core)

Feature:

- 100% 3A molecular sieve core;
- Additives consuming no oil;
- Joint type: ODF or SAE;
- Corrosive resistance mold;
- Max working pressure: 4.7MPa/680Psig.

We use 100% 3A molecular sieve core in the Filter Drier, it has strong drying capability to maximum reduce the risk of hydrolyze acid reaction, and it can with HFC refrigerant (R134a, R404A, R410A) which is used with POE & PAG oil together; it is also a non-oil consuming additive compatible with R22.



Part No.	Connections (in)		Liquid Flow Capacity (KW)			Dimensions (mm)			Max. Operating Pressure P B (bar)
	ODF	SEA	R134a	R404A/R507	R22/R407C/R410A	A	D	L	
SDML-032	-	1/4	7	5	7	66	43	113	46
SDML-032S	1/4	-	7	5	7	66	43	110	46
SDML-033	-	3/8	17	13	19	66	43	123	46
SDML-033S	3/8	-	17	13	19	75	54	114	46
SDML-052	-	1/4	7	5	8	75	54	122	46
SDML-052S	1/4	-	7	5	8	75	54	119	46
SDML-053	-	3/8	18	14	19	75	54	132	46
SDML-053S	3/8	-	18	14	19	75	54	123	46
SDML-082	-	1/4	7	5	8	101	54	148	46
SDML-082S	1/4	-	7	5	8	101	54	145	46
SDML-083	-	3/8	19	14	21	101	54	158	46
SDML-083S	3/8	-	19	14	21	101	54	149	46
SDML-084	-	1/2	26	20	29	101	54	166	46
SDML-084S	1/2	-	26	20	29	101	54	151	46
SDML-085	-	5/8	42	31	46	101	54	174	46
SDML-085S	5/8	-	42	31	46	101	54	149	46
SDML-162	-	1/4	7	5	8	110	76	157	46
SDML-162S	1/4	-	7	5	8	110	76	154	46
SDML-163	-	3/8	22	16	24	110	76	167	46
SDML-163S	3/8	-	22	16	24	110	76	158	46
SDML-164	-	1/2	30	22	33	110	76	175	46
SDML-164S	1/2	-	30	22	33	110	76	160	46
SDML-165	-	5/8	43	30	47	110	76	183	46
SDML-165S	5/8	-	43	30	47	110	76	158	46
SDML-166	-	3/4	44	31	48	110	76	189	35
SDML-166S	3/4	-	44	31	48	110	76	164	35
SDML-167S	7/8	-	44	31	48	110	76	170	35
SDML-303	-	3/8	21	15	23	186	76	243	46
SDML-303S	3/8	-	21	15	23	186	76	234	46
SDML-304	-	1/2	31	22	34	186	76	251	46
SDML-304S	1/2	-	31	22	34	186	76	236	46
SDML-305	-	5/8	45	33	49	186	76	259	46
SDML-305S	5/8	-	45	33	49	186	76	234	46
SDML-306	-	3/4	62	45	68	186	76	265	35
SDML-306S	3/4	-	62	45	68	186	76	240	35
SDML-307S	7/8	-	62	45	68	186	76	246	35
SDML-309S	1-1/8	-	62	45	68	186	76	246	30

Indication:

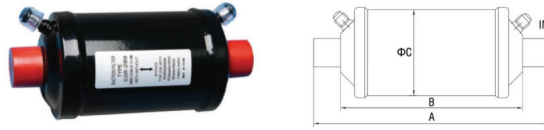
Refrigerant quantity capacity: evaporating temperature=-15°C, liquid temperature=30°C, drop pressure ΔP=0.07bar.



Suction Line Filter

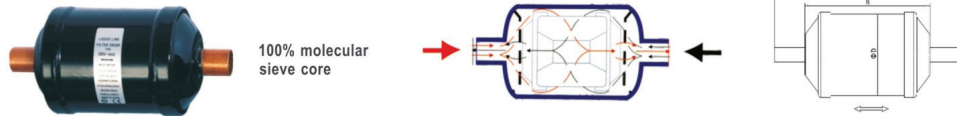
Feature:

- These designs come with two access valves side to provide most effective protection for compressor.
- Filtration: 40um
- Appropriate temperature: -45°C~+65°C
- Maximum pressure: 3.1Mpa.



Part No.	Connection Size (inch)	A(inch)	B(inch)	C(inch)
SSR-283-T	3/8	5.59	4.40	3.5
SSR-284-T	1/2	5.69	4.43	3.5
SSR-285-T	5/8	6.38	4.92	3.5
SSR-286-T	3/4	7.75	6.18	3.5
SSR-287-T	7/8	7.87	6.22	3.5
SSR-289-T	1-1/8	8.25	6.60	3.5
SSR-2811-T	1-3/8	10.81	8.84	3.5
SSR-2813-T	1-5/8	10.50	8.50	3.5

Bi-flow Filter Drier (Solid Core)



Part No.	Connections		Liquid Flow Capacity (KW)			Dimensions		
	ODF	SEA	R22	R410A	R407C	A	B	D
SRS-082	-	1/4	7.0	7.0	7.0	145	98	63.5
SRS-082S	1/4	-	7.0	7.0	7.0	142	98	63.5
SRS-083	-	3/8	15.8	15.8	15.5	155	98	63.5
SRS-083S	3/8	-	17.9	17.9	17.6	146	98	63.5
SRS-084	-	1/2	22.5	22.5	22.1	163	98	63.5
SRS-084S	1/2	-	23.5	23.6	23.2	148	98	63.5
SRS-085S	5/8	-	7.0	7.0	7.0	146	98	63.5
SRS-163	-	3/8	16.2	16.2	15.8	169	112	76
SRS-163S	3/8	-	18.3	18.3	17.9	160	112	76
SRS-164	-	1/2	27.0	27.0	26.7	177	112	76
SRS-164S	1/2	-	28.5	28.5	27.8	162	112	76
SRS-165	-	5/8	29.2	29.2	28.5	185	112	76
SRS-165S	5/8	-	30.6	30.6	29.9	160	112	76
SRS-307S	7/8	-	58	58	58	252	192	76

Burn-out Filter Drier (Solid Core)

- Used on the suction pipeline of refrigeration and air-conditioning.
- **48% alumina, 47% molecule and 5% carbon filter core.**
- It can absorb the acid and water in the system very efficiency and also can absorb injurant that burnt by the compressor.

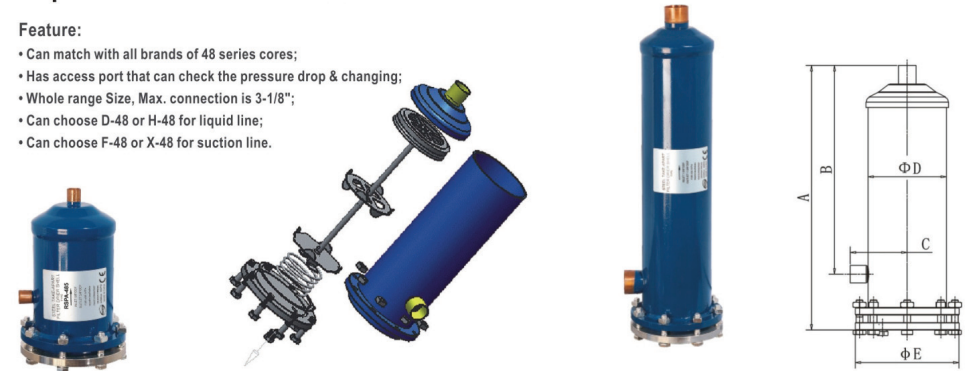


Part No.	Connection Size (inch)	A(mm)(±2)	ΦB(mm)(±0.5)	Refrigeration Vapacity(KM)		
				R407C	R134a	R404A
SRE-032	1/4	110	46	4	3	3
SRE-082	1/4	130	64	6	3.5	4
SRE-083	3/8	130	64	6	3.5	4.5
SRE-084	1/2	130	64	10	5.5	8
SRE-162	1/4	158	78	10.5	5	7.5
SRE-163	3/8	158	78	13	5.5	8
SRE-164	1/2	158	78	15	6	8.5
SRE-165	5/8	164	78	20	9.5	13
SRE-304	1/2	230	78	17	10	15
SRE-305	5/8	238	78	18	12.5	15
SRE-306	3/4	238	78	22	14	19

Replaceable Filter Drier Shell

Feature:

- Can match with all brands of 48 series cores;
- Has access port that can check the pressure drop & changing;
- Whole range Size, Max. connection is 3-1/8";
- Can choose D-48 or H-48 for liquid line;
- Can choose F-48 or X-48 for suction line.



Part No.	Inlet & Outlet Size	Number of cores	Recommended value (kw)				Dimensions (mm)					
			Cooling			Air-conditioning		A	B	C	D	E
			Commercial Refrigeration and low-temperature equipment	System of replace or Assemble in the spot								
			12/134a	22	404A/502 & 507	12/134a	22					
RSPA-485	5/8	1	26.4	35.2	26.4	26.4	35.2	233	152	78	114	151
RSPA-487	7/8	1	42.2	52.8	35.2	42.2	52.8	238	157	82	114	151
RSPA-489	1-1/8	1	42.2	52.8	35.2	52.8	70.3	240	159	84	114	151
RSPA-4811	1-3/8	1	42.2	52.8	35.2	52.8	70.3	243	162	87	114	151
RSPA-4813	1-5/8	1	47.8	58.2	42.2	56.3	74.6	245	164	88	114	151
RSPA-4817	2-1/8	1	49.3	64.9	47.1	60.2	78.5	251	170	92	114	151
RSPA-4821	2-5/8	1	52.7	67.3	49.7	63.3	80.2	268	170	116	114	151
RSPA-4824	3	1	55.4	70.2	56.9	66.1	83.4	266	168	116	114	151
RSPA-4825	3-1/8	1	58.2	73.4	62.2	69.5	89.7	263	165	116	114	151
RSPA-967	7/8	2	70.3	87.9	52.8	70.3	87.9	383	301	82	114	151
RSPA-969	1-1/8	2	87.9	128	87.9	87.9	123	385	303	84	114	151
RSPA-9611	1-3/3	2	111.5	152	111.1	111.1	155	388	306	87	114	151
RSPA-9613	1-5/8	2	132.1	194	134.5	134.5	190	390	308	88	114	151
RSPA-9617	2-1/8	2	135.1	203	157	156	208	396	314	92	114	151
RSPA-9621	2-5/8	2	157	220	191	173	232	413	315	116	114	151
RSPA-9624	3	2	181	240	210	193	257	411	313	116	114	151
RSPA-9625	3-1/8	2	206	263	231	225	270	408	310	116	114	151
RSPA-1449	1-1/8	3	106	141	106	106	141	521	438	84	114	151
RSPA-14411	1-3/8	3	141	176	123	141	176	524	441	87	114	151
RSPA-14413	1-5/8	3	183	205	134	173	206	526	443	88	114	151
RSPA-14417	2-1/8	3	224	236	156	205	247	532	449	92	114	151
RSPA-14421	2-5/8	3	243	257	182	216	264	550	452	116	114	151
RSPA-14424	3	3	257	269	193	231	286	548	450	116	114	151
RSPA-14425	3-1/8	3	263	279	214	243	291	545	447	116	114	151
RSPA-19211	1-3/8	4	176	246	176	176	246	675	595	87	114	151
RSPA-19213	1-5/8	4	211	281	193	211	287	677	597	88	114	151
RSPA-19217	2-1/8	4	229	299	211	229	299	683	603	92	114	151
RSPA-19221	2-5/8	4	243	243	232	241	325	700	602	116	114	151
RSPA-19224	3	4	257	257	248	267	347	698	600	116	114	151
RSPA-19225	3-1/8	4	263	263	269	283	351	695	594	116	114	151



Replaceable Filter Drier Shell

Feature:

- Can match with all brands of 100 series cores.
- Has access port that can check the pressure drop & changing.
- Whole range Size, Max. connection is 5-1/4".
- Can choose D-100 or H-100 for liquid line.
- Can choose F-100 or X-100 for suction line.



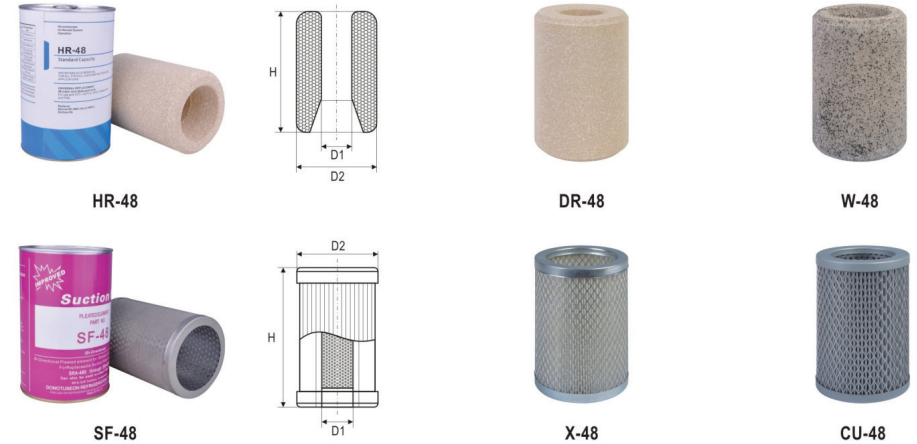
Part No.	Inlet & Outlet Size	Number of cores	Recommended value (kw)				Dimensions (mm)					
			Cooling			Air-conditioning		A	B	C	D	E
			Commercial Refrigeration and low-temperature equipment			System of replace or Assemble in the spot						
12/134a	22	404A/502 & 507	12/134a	22								
RSPA-10013	1-5/8	1	67	98	59	63	106	288	180	106	152	200
RSPA-10017	2-1/8	1	74	121	65	69	121	295	187	111	152	200
RSPA-10021	2-5/8	1	82	145	72	75	139	303	195	136	152	200
RSPA-10024	3	1	95	164	84	88	156	301	188	136	152	200
RSPA-10025	3-1/8	1	102	173	91	98	170	300	187	136	152	200
RSPA-20013	1-5/8	2	113	195	103	114	191	453	345	106	152	200
RSPA-20017	2-1/8	2	128	209	112	132	207	460	352	111	152	200
RSPA-20021	2-5/8	2	145	236	138	147	230	468	360	136	152	200
RSPA-20024	3	2	162	251	153	165	243	466	353	136	152	200
RSPA-20025	3-1/8	2	179	266	171	180	264	465	352	136	152	200
RSPA-20028	3-1/2	2	193	282	186	193	280	464	341	136	152	200
RSPA-20029	3-5/8	2	219	308	205	205	301	463	340	136	152	200
RSPA-20034	4-1/4	2	242	329	221	221	323	467	344	136	152	200
RSPA-30013	1-5/8	3	264	352	246	264	352	612	504	106	152	200
RSPA-30017	2-1/8	3	285	367	267	279	374	618	504	111	152	200
RSPA-30021	2-5/8	3	302	385	285	285	391	627	519	136	152	200
RSPA-30024	3	3	315	399	292	296	404	625	512	136	152	200
RSPA-30025	3-1/8	3	329	413	299	307	417	624	511	136	152	200
RSPA-30028	3-1/2	3	336	422	305	317	423	623	500	136	152	200
RSPA-30029	3-5/8	3	343	431	310	324	429	622	499	136	152	200
RSPA-30034	4-1/4	3	369	457	324	335	441	626	503	136	152	200
RSPA-30042	5-1/4	3	391	481	359	362	476	615	467	136	152	200
RSPA-40013	1-5/8	4	351	426	321	352	424	786	678	106	152	200
RSPA-40017	2-1/8	4	387	457	352	387	457	792	684	111	152	200
RSPA-40021	2-5/8	4	401	480	370	401	492	801	693	136	152	200
RSPA-40024	3	4	415	503	388	415	527	799	686	136	152	200
RSPA-40025	3-1/8	4	438	526	409	436	558	798	685	136	152	200
RSPA-40028	3-1/2	4	461	559	433	462	579	797	674	136	152	200
RSPA-40029	3-5/8	4	485	573	457	491	593	796	673	136	152	200
RSPA-40034	4-1/4	4	507	591	482	512	617	800	677	136	152	200
RSPA-40042	5-1/4	4	529	615	504	536	633	789	641	136	152	200

Replaceable Liquid Line Filter Blocks and Suction Line Filter Core

Cores are individually packed in metal cans, It and hermetically packed against grease moisture and dirt. Includes the X suction line filter cores and the D/H liquid line block series. The method of mounting the cores or felt elements on the end plate by means of tie rods makes them very easy to install and remove. Detailed instructions are printed on each can.

Features

High moisture, foreign matter and acid removal ability in special environment. Protects the normal system and clean up the compressor.



Technical Parameter

Part No.	Danfoss Model	Emerson Model	Description	D1 (in)	D2 (in)	H (in)
DR-48	48DN/DC	D-48	80% Molecular Sieve 20% Activated Aluminium Oxide, High Acid Removal	1.85	3.78	5.51
HR-48	48DU/DM	H-48	100% Molecular Sieve, High water Removal	1.85	3.78	5.51
W-48	48DA	W-48-HH	48% Molecular Sieve, 47% Activated Aluminium Oxide, 5% Activated Carbon, Burnout Cleanup	1.85	3.78	5.51
X-48	48F	F-48R	Filter for Suction Line, Reverse Flow	0.79	3.74	5.51
SF-48	-	-	Stainless Steel Filter for Suction Line, Could be Used Repeatedly After Cleaning	0.79	3.74	5.51
CU-48	-	-	Stainless Steel Filter for Oil System	0.79	3.74	5.51

\* Packing condition: 12 pcs/carton, please order according to packing.



Technic Parameter

Part No.	Danfoss Model	Emerson Model	Description	D1 (in)	D2 (in)	H (in)
HR-100	-	H-100	100% Molecular Sieve, High Water Removal	2.09	4.80	6.50
X-100	-	F-100R	Filter for Suction Line, Reverse Flow	1.10	4.69	6.54
SF-100	-	-	Stainless Steel Filter for Suction Line, Could be Used Repeatedly After Cleaning	1.10	4.69	6.54
CU-100	-	-	Stainless Steel Filter for Oil System	1.10	4.69	6.54

\* Packing condition: 6 pcs/carton, please order according to packing.



RSPQ Duplex Accumulator

- \* Reducing 80% failure rate for two stage compressors
- \* Reducing 45% failure rate for one stage compressors
- \* 100% avoid liquid-strike to compressor.

- This accumulator is suitable for all kinds of refrigeration condensing units.
- This accumulator is an upgraded ,next generation products.
- This accumulator can 100% avoid liquid strike for compressors.
- The volume of accumulator and connections are best combinations approved after hundreds of tests. Simply choose the same size on suction line, this accumulator will protect your compressor from liquid-strike.



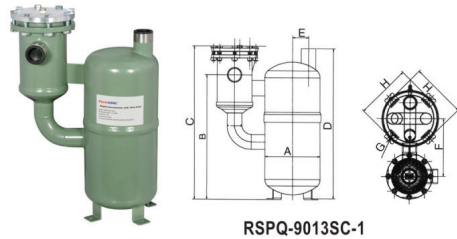
RSPQ-9012SC

Character: \* Suitable for all kinds of refrigeration condensing units.

Duplex Accumulator

- Model: RSPQ-9013SC • Working Pressure: 3.2Mpa • Capacity: 9.0L
- Connection: 42mm • For use with R22 / R134a / R404a / R407c / R502 / R507

Part No.	Connection size (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
RSPQ-4409SC	28	140	135	393	42	140	10	110
RSPQ-7611SC	35	165	165	462	48	165	10	128
RSPQ-9013SC	42	180	185	492	52	180	10	140
RSPQ-18017SC	54	219	205	592	60	190	10	160
RSPQ-21017SC	54	273	195	550	65	194	10	186
RSPQ-34021SC	67	273	270	755	65	194	10	200



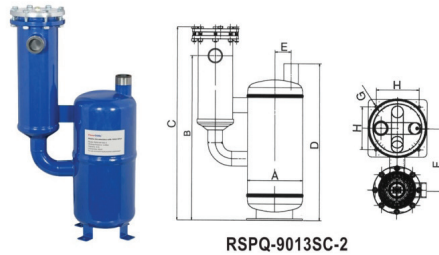
RSPQ-9013SC-1

Duplex Accumulator with filter drier

- Model: RSPQ-9013SC-1 • Working Pressure: 3.2Mpa • Capacity: 9.0L
- Connection: 42mm • For use with R22 / R134a / R404a / R407c / R502 / R507

Duplex Accumulator with duplicate filter drier

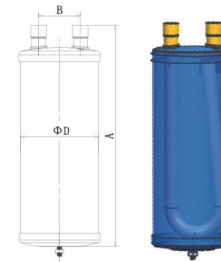
- Model: RSPQ-9013SC-2 • Working Pressure: 3.2Mpa • Capacity: 9.0L
- Connection: 42mm • For use with R22 / R134a / R404a / R407c / R502 / R507



RSPQ-9013SC-2

Part No.	Connection size (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
RSPQ-4409SC-1	28	140	342	430	388	42	170	10	140
RSPQ-7611SC-1	35	165	366	455	462	48	177	10	165
RSPQ-9013SC-1	42	180	407	495	487	52	190	10	180
RSPQ-18017SC-1	54	219	452	539	592	60	215	10	190
RSPQ-21017SC-1	54	273	442	529	550	65	235	10	194
RSPQ-34021SC-1	67	273	516	616	755	65	240	10	194
RSPQ-9013SC-2	42	180	551	639	487	52	190	10	180
RSPQ-18017SC-2	54	219	598	684	592	60	215	10	190
RSPQ-21017SC-2	54	273	588	674	550	65	235	10	194
RSPQ-34021SC-2	67	273	661	761	755	65	240	10	194

Suction Line Accumulator



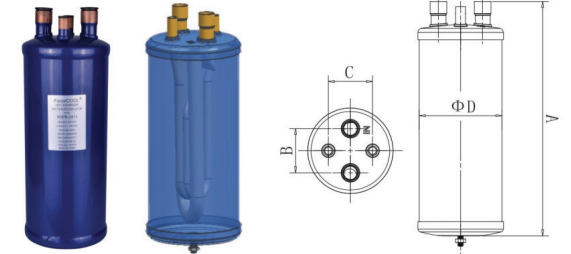
In circulatory system, the refrigerant must be convert became gas before returning to compressor. So it has to separate gas and liquid before the refrigerant enters into the compressor. And let the gas refrigerant enters into the compressor will not cause strike. The liquid refrigerant evaporate slowly in the vessel, then enter the compressor after evaporation. In order to make the residual refrigerant oil come back to compressor, there is a hole in the bottom of tube in Accumulator which may let the oil come back. When the residual refrigerant in the system come into Accumulator, it will go back to compressor with gas refrigerant. Because of the protection from Accumulator, The life time of compressor can be longer and the circulatory system can run better.

Part No.	Volume(L)	Inlet & Outlet	A(mm)	B(mm)	D(mm)	Normal Capacity (KW) @ -18C vaporize temp.		
						R22	R134a	R404A
RSPQ-204	1.5	1/2	254	52	102	3.2	2.17	2.8
RSPQ-205	1.8	5/8	294	52	102	4.9	2.8	4.2
RSPQ-206	3.8	3/4	316	75	140	6.3	3.2	5.3
RSPQ-207	4.3	7/8	356	75	140	11.6	6.3	9.5
RSPQ-208	7.3	1-1/8	450	85	159	18.9	10.9	15.5
RSPQ-209	9.6	1-3/8	574	85	159	29.9	16.2	25.3
RSPQ-210	10.4	1-5/8	624	85	159	45.0	25.7	37.6
RSPQ-595	2.4	5/8	257	70	127	5.1	2.7	4.5
RSPQ-596	2.4	3/4	257	70	127	6.3	3.2	5.3
RSPQ-597	2.4	7/8	262	70	127	11.6	6.3	9.5
RSPQ-5126	3.3	3/4	332	70	127	6.3	3.2	5.3
RSPQ-5127	3.3	7/8	337	70	127	11.6	6.3	9.5
RSPQ-5137	3.5	7/8	358	70	127	11.6	6.3	9.5
RSPQ-5139	3.5	1-1/8	363	70	127	18.9	10.9	15.5
RSPQ-5179	4.7	1-1/8	465	70	127	18.9	10.9	15.5
RSPQ-51711	4.7	1-3/8	465	70	127	29.9	16.2	25.3
RSPQ-61411	6.0	1-3/8	390	85	159	29.9	16.2	25.3
RSPQ-62013	8.8	1-5/8	548	85	159	45.0	25.7	37.6

Suction Line Accumulator

RSPR Series suction accumulators with heat exchanger are particularly recommended for installations with a low overheating of refrigerant vapours at compressor suction (liquid cooler, low temperature display cabinets, vehicle refrigerating, etc...) and recommended for installations where the suction line accumulator is positioned outside (in this case, the exchanger allows a faster re-evaporation of the liquid).

The heat exchanger allows the increase of the refrigerant's refrigerating effect, by high pressure liquid sub-refrigerating, upstream of the pressure relief valve; it therefore prevents the risks of gas presence at the intake of the pressure relief valve.



Part No.	Volume (L)	Suction Line ODF (inch)	Liquid Line ODF (inch)	A (mm)	B (mm)	C (mm)	D (mm)	Normal Capacity (KW) @ -18C vaporize temp.		
								R22	R134a	R404A
RSPR-2404	1.5	1/2	3/8	254	52	52	102	3.2	2.17	2.8
RSPR-2405	1.8	5/8	3/8	294	52	52	102	4.9	2.8	4.2
RSPR-2406	3.8	3/4	1/2	316	75	75	140	6.3	3.2	5.3
RSPR-2407	4.3	7/8	1/2	356	75	75	140	11.6	6.3	9.5
RSPR-2411	7.3	1-1/8	5/8	450	85	85	159	18.9	10.9	15.5
RSPR-2413	9.6	1-3/8	3/4	574	85	85	159	29.9	16.2	25.3
RSPR-2415	10.4	1-5/8	7/8	624	85	85	159	41.0	24.1	32.6
RSPR-2417	10.4	2-1/8	7/8	629	85	85	159	49.6	35.4	42.8



Oil Separators



Part No.	Connection Size (in)	A (mm)	B (mm)	C (mm)
RSPW-55833	3/8	102	279	48
RSPW-55824	1/2	102	279	48
RSPW-55855	5/8	102	378	48
RSPW-55877	7/8	102	460	48
RSPW-55889	1-1/8	102	494	48
RSPW-559011	1-3/8	102	524	48
RSPW-569011	1-3/8	159	394	75
RSPW-569213	1-5/8	159	480	75
RSPW-569417	2-1/8	159	485	75

Demountable Oil Separators

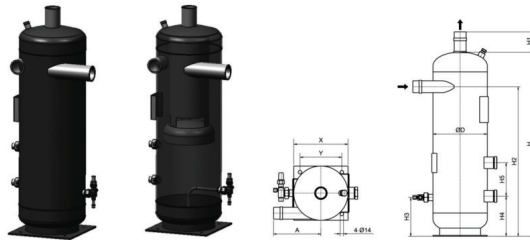


Part No.	Connection Size (in)	A (mm)	B (mm)	C (mm)
RSPW-5301	1/2	102	275	48
RSPW-5302	5/8	102	370	48
RSPW-5303	7/8	102	455	48
RSPW-5304	1-1/8	102	490	48
RSPW-5305	1-3/8	102	520	48
RSPW-5306	1-5/8	102	525	48
RSPW-6303	1-3/8	159	404	75
RSPW-6304	1-5/8	159	490	75
RSPW-6305	2-1/8	159	495	75

Oil Storage Separators

SRW series oil storage separator is used on parallel screw compressor.

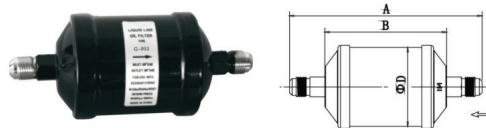
- With oil receiver inside, do not need to add a separated oil separator.
- It saved a lot of time and material, also reduced the leaking problem.
- It can help to reduce the vibration and noise that caused by compressor.
- It needs to add the electronic oil level regulator to replace the valves.
- Max. working pressure: 3.0MPa.
- Good efficiency oil separation.
- Compatible with all CFC, HCFC and HFC refrigerants and oils.
- Working temperature range: -40°C~120°C.



Part No.	Joint Size (Inch)	D (mm)	H (mm)	H1 (mm)	H2 (mm)	H3 (mm)	H4 (mm)	H5 (mm)	A (mm)	X (mm)	Y (mm)	Oil Outlet (SEA)	V1 Oil Volume(L)	V2 Oil Volume(L)	Total Volume(L)
SRW-0813L	1-5/8"	219	744	82	604	157	162	191	219	165	3/8"	4.4	9.0	24	
SRW-1017L	2-1/8"	273	850	87	691	169	189	150	223	273	227	1/2"	8.1	16.0	42
SRW-1221L	2-5/8"	325	950	95	750	184	204	150	258	325	280	1/2"	12.0	23.0	66
SRW-1425L	3-1/8"	377	1034	110	823	215	234	150	280	377	320	5/8"	18.5	34.0	97
SRW-1629L	3-5/8"	412	1135	100	903	209	229	150	318	412	336	5/8"	22.0	41.0	131

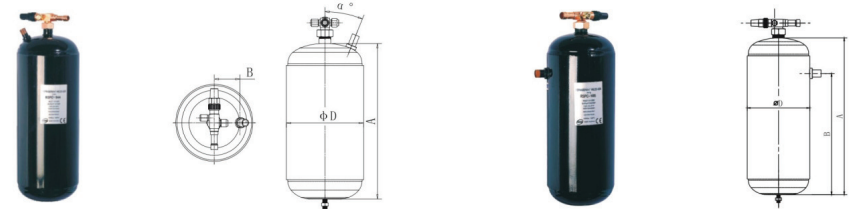
Oil Filter

G series oil filter can filtrate 99% of 3 micron grain but still have enough flow rate to maintain the low pressure drop.  
G series oil filter has a very high capacity of filtration.  
It can return the cleanness POE oil and mineral oil back to the compressor.



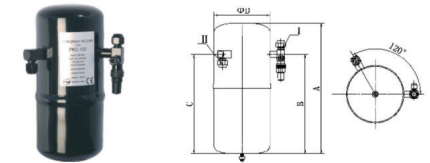
Part No.	Connection Size		Liquid Refrigeration Volume (kw)					A (mm)	B (mm)	C (mm)
	ODF	SAE	R134a	R22	R404a	R502				
G-053	-	3/8	21.4	23.3	15.4	15.1	129	72	63.5	
G-053S	3/8	-	26.5	28.9	19.1	18.7	120	72	63.5	
G-054S	1/2	-	27.4	29.8	19.8	19.3	122	72	63.5	
G-083	-	3/8	21.8	23.7	15.7	15.4	155	98	63.5	
G-083S	3/8	-	27.4	29.8	19.8	19.3	146	98	63.5	
G-084	-	1/2	21.8	23.7	15.7	15.4	163	98	63.5	
G-084S	1/2	-	27.4	29.8	19.8	19.3	148	98	63.5	
G-085	-	5/8	27.4	29.8	19.8	19.3	146	98	63.5	

Vertical Receiver

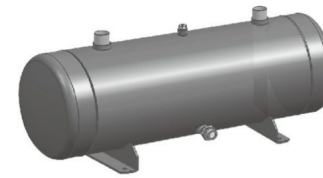


Part No.	Volume(L)	ODF	A(mm)	B(mm)	D(mm)	°C
RSPC-133	1.1	3/8	170	35	102	18.2°
RSPC-166	1.6	3/8	192	40	114	22.3°
RSPC-233	2	3/8	185	42	127	20°
RSPC-333	3	3/8	293	42	127	20°
RSPC-433	4	3/8	238	55	165	21°
RSPC-644	6	1/2	332	55	165	21°
RSPC-844	8	1/2	432	55	165	21°
RSPC-855	8	5/8	432	55	165	21°
RSPC-1055	10	5/8	322	75	219	17°
RSPC-1255	12	5/8	380	75	219	17°
RSPC-1455	14	5/8	435	75	219	17°
RSPC-1466	14	3/4	435	75	219	17°
RSPC-1677	16	7/8	492	75	219	17°
RSPC-1877	18	7/8	549	75	219	17°
RSPC-2077	20	7/8	606	75	219	17°

Part No.	Volume(L)	ODF	A(mm)	B(mm)	D(mm)
RSPC-101J	1.0	3/8	200	132	89
RSPC-102J	2.9	3/8	258	181	127
RSPC-103J	3.2	3/8	290	203	127
RSPC-104J	6.2	1/2	348	257	165
RSPC-105J	7.5	5/8	414	320	165
RSPC-106J	11.2	3/4	600	495	165
RSPC-107J	13.2	7/8	700	585	165

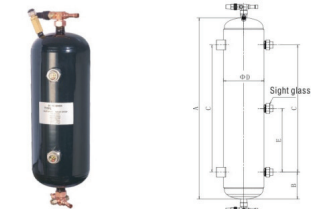


Horizontal Receiver



Part No.	Inlet & Outlet	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
30L	1-1/8	900	600	190	219	150
35L	1-1/8	1000	700	190	219	150
40L	1-3/8	800	440	220	273	180
45L	1-3/8	900	540	220	273	180
50L	1-5/8	1000	640	220	273	180
55L	1-5/8	1100	740	220	273	180
60L	2-1/8	1200	840	220	273	180

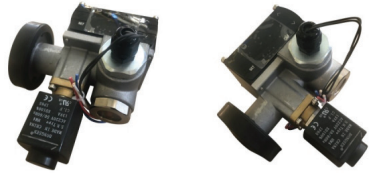
Vertical Receiver



Part No.	Volume(L)	Inlet & Outlet	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
RSPOR-6	6	3/8	338	94	150	165	-
RSPOR-8	8	3/8	438	109	220	165	-
RSPOR-10	10	3/8	548	131	285	165	-
RSPOR-12	12	3/8	638	139	360	165	-
RSPOR-14	14	1/2	738	110	518	165	259
RSPOR-19	19	1/2	580	140	300	219	-
RSPOR-23	23	5/8	700	140	420	219	210

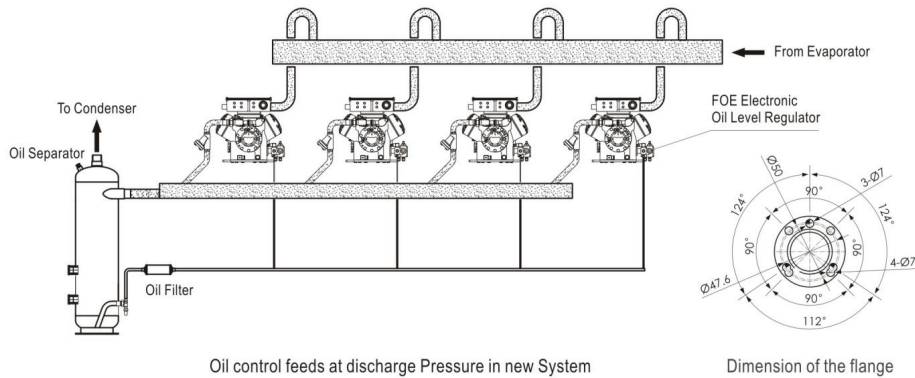


## FOE Series Electronic Oil Level Regulator

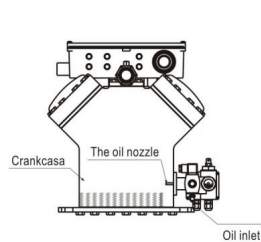


- Input voltage: 220VAC/50Hz;
- Max. Admissible Working Pressure: 31 bar;
- Max. oil temperature: 120°C;
- Max. Running pressure difference of solinoid valve in oil circuit line: 21 bar;
- Contact capacity: 3A/220VAC/50Hz;
- Oil conn. size: 1/4"SAE;
- Applicative refrigerants: R134a, R22, R407C, R404A, R507A.

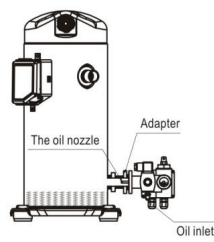
## High Pressure Oil Return System



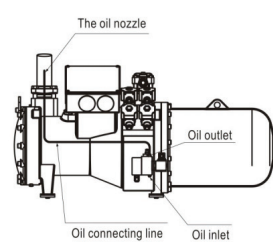
Installation schematic diagram of oil feeding form "L" (Semi-hermetic piston compressor)



Installation schematic diagram of oil feeding form "L" (Whole-hermetic scroll compressor)



Installation schematic diagram of oil feeding form "I" (Oil separator built-in screw compressor)



Model	Applicative compressor	Alarm time delay	Discharge temperature protection	Oil level reaction time delay	Pulse oil feeding time delay	Oil feeding form
FOE-01	Semi-hermetic piston	120		3	10/10	L
FOE-01C	Semi-hermetic piston	120	120	3	10/10	L
FOE-02	Whole-hermetic scroll	120		3	5/10	L
FOE-02C	Whole-hermetic scroll	120	100	3	5/10	L
FOE-22	Oil separator built-in screw	180		5	50/10	I
FOE-22C	Oil separator built-in screw	180	100	5	50/10	I

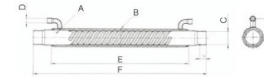
## Copper Heat Exchanger



Copper Heat exchanger is used for heat transfer between the liquid and suction lines of refrigeration system. The purpose is to utilize the cooling effect to subcool the refrigerant liquid. The Heat Exchanger prevents the loss of cooling in the ambient air via uninsulated suction lines in the heat exchange process.

Refrigerants	Working temperature	Max. Working pressure	Max. Testing pressure
CFCs, HCFCs, HFCs, Hcs	-60C~120°C	21.5bar	28bar

Part No.	Inlet & outlet Size	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)
HXR-25	1/2-1/4	19.05	25.4	12.7	6.35	230	180	30
HXR-50	5/8-3/8	22.5	28.6	15.88	9.52	260	210	31.7
HXR-75	7/8-3/8	28.6	34.9	22.2	9.52	330	270	34.8
HXR-100	1-1/8-3/8	34.9	41.3	28.6	9.52	380	310	38
HXR-150	1-1/8-1/2	34.9	41.3	28.6	12.7	380	310	48
HXR-250	1-3/8-1/2	41.3	47.7	34.9	12.7	380	310	51.2
HXR-350	1-5/8-5/8	47.7	54.1	41.3	15.88	435	340	63

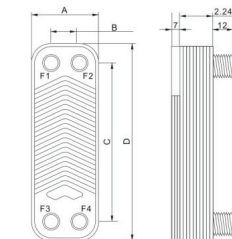


## Coaxial Coils Heat Exchanger



Part No.	Heating Capacity (kw)	Copper Tube Connection				Dimensions		
		Refrigerant Inlet-outlet Diameter(mm)	Thickness (mm)	Water Inlet-outlet Diameter(mm)	Thickness (mm)	Length (mm)	Height (mm)	Width (mm)
SR-BA-009-H	2.64	12.7-9.52	0.75	18-18	1.2	235	174	148
SR-BA-012-H	3.52	12.7-9.52	0.75	18-18	1.2	235	174	173
SR-BA-018-H	5.28	19.0-12.7	1.1-0.75	19-19	1.5	290	211	148
SR-BA-024-H	7.04	19.0-12.7	1.1-0.75	19-19	1.5	264	222	177
SR-BA-030-H	8.8	22.2-12.7	1.1-0.75	19-19	1.5	350	292	160
SR-BA-036-H	10.56	22.2-12.7	1.1-0.75	19-19	1.5	343	310	185
SR-BA-042-H	12.32	22.2-12.7	1.1-0.75	23-23	1.5	368	287	248
SR-BA-048-H	14.08	22.2-12.7	1.1-0.75	25-25	2.0	389	292	249
SR-BA-060-H	17.6	22.2-12.7	1.1-0.77	25-25	2.0	430	350	251
SR-BA-072-H	21.12	22.2-12.7	1.1-0.78	25-25	2.0	435	338	280
SR-BA-090-H	26.4	22.2-12.7	1.1-0.79	32-32	2.0	440	345	332

## Plate Type Heat Exchanger



Part No.	SR-B3-12-X	SR-B3-14-X	SR-B3-23-X	SR-B3-52-X	SR-B3-95-X
Capacity per Plate	0.08KW	0.1KW	0.15KW	0.4KW	1KW
Surface per Plate	0.012m <sup>2</sup>	0.014m <sup>2</sup>	0.023m <sup>2</sup>	0.052m <sup>2</sup>	0.095m <sup>2</sup>
Layers of Plate	8-60pcs	8-60pcs	8-60pcs	20-120pcs	20-120pcs
Operates Pressure	3.0Mpa	3.0Mpa	3.0Mpa	3.0Mpa	3.0Mpa
Thickness of Plate	0.3mm				
Operates Temperature	-195~+250°C				
Type of Connection	Solder/flare				
Material	316L or 304 stainless steel				
Material of Welding	99.9% copper or nickel				
Capacity of Heat Exchange	1-5KW	1-5KW	3-10KW	10-70KW	50-250KW
Dimension A	73mm	86mm	73mm	112mm	192mm
Dimension B	40mm	46mm	40mm	50mm	90mm
Dimension C	154mm	156mm	278mm	466mm	519mm
Dimension D	191mm	196mm	315mm	526mm	617mm



Pressure Ventilator for Cold Room



FC-110

PRODUCT DESCRIPTION

- Aluminum alloy surface
- Stainless steel filter
- Electric heater to prevent frozen(220V/36W)



FC-220

PRODUCT DESCRIPTION

- ABS frame
- Stainless filter
- Electric heater to prevent frozen(220V/36W)

Hinges



FC-306



FC-1132



FC-1332 FC-1336



FC-1238



FC-1230S



FC-201



FC-1424



FC-380



FC-1432



FC-1470 FC-1460 FC-1450



FC-8064-1



FC-650

Part No.	Description
FC-306	Reversible Reach-in Edge mount Can-lift Hinge
FC-1132	Reversible Reach-in Edge mount Can-lift Hinge
FC-1332	Reversible Reach-in Edge mount Can-lift Hinge (high 32mm)
FC-1336	Reversible Reach-in Edge mount Can-lift Hinge (high 36mm)
FC-1238	Reversible Reach-in Plane Hinge
FC-1230S	Reversible Reach-in Plane Hinge (with spring)
FC-201	Reversible Reach-in Plane Hinge (w/o spring)
FC-1424	Cam-Lift Hinge 24mm
FC-380	Cam-Lift Hinge 32mm
FC-1432	Cam-Lift Hinge 32mm
FC-1470	Reach-in door hinge, adjustable height from 40 to 70 mm, Zinc body.
FC-1460	Reach-in door hinge, adjustable height from 32 to 60 mm, Zinc body.
FC-1450	Reach-in door hinge, adjustable height from 32 to 50 mm, Zinc body.
FC-8064-1	Hinge for flush door, width 100m, length 100mm, stainless steel.
FC-650 (3.5)	Refrigerator spring hinge, spring diameter: 3.5mm
FC-650 (4.0)	Refrigerator spring hinge, spring diameter: 4.0mm
FC-650 (5.0)	Refrigerator spring hinge, spring diameter: 5.0mm

Latches



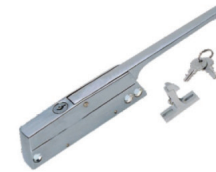
FC-1178



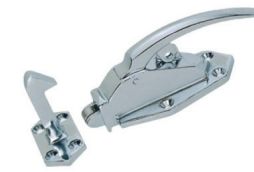
FC-1200



FC-1250



FC-1240



FC-1060



FC-1040



FC-1400



FC-1061



FC-3-0681



FC-3-0680



FC-4000



FC-4100



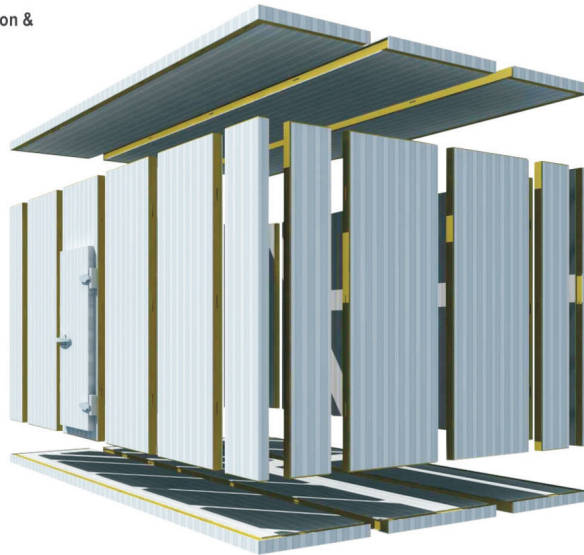
FC-4255

Part No.	Description
FC-1178	Safety latches with inside release handle, adjustable height from 35mm to 70mm, Zinc body
FC-1200	Edge mount mechanical latches, adjustable height from 18mm to 22mm, Zinc body
FC-1250	Edge mount mechanical latches, adjustable height from 18mm to 22mm, Zinc body
FC-1240	Edge mount mechanical latches, adjustable height from 18mm to 22mm, Zinc body
FC-1060	6" Lever & Roller latches, Zinc body
FC-1040	4" Lever & Roller latches, Zinc body
FC-1400	Edge mount mechanical latches, adjustable height from 26mm to 36.5mm, Zinc body
FC-1061	Edge mount mechanical latches, adjustable height from 26mm to 36mm, Zinc body
FC-3-0681	Edge mount mechanical latches, adjustable height from 26mm to 36mm, Zinc body
FC-3-0680	Edge mount mechanical latches, adjustable height from 26mm to 36mm, Zinc body
FC-4000	Safety latch
FC-4100	Safety latch
FC-4255	Safety latch

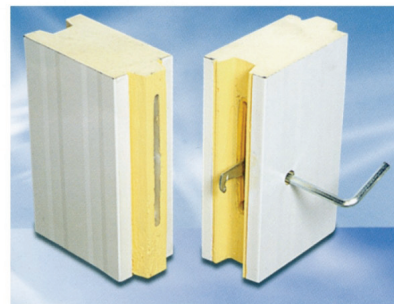
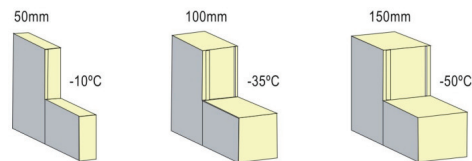


## Cold Storage Room

One stop solution provider for your cold room project, design manufacture, shipping, installation & commissioning all included.



## Cold Room Panel



**Width:** 960 (mm)  
**Length:** 1900/2200/2400/2600/2800/4500 (mm)

### PRODUCT DESCRIPTION

Polyurethane sandwiched panels are of 100% polyurethane insulation, which is constructed by being foamed in place with retarded polyurethane using high pressure. Average density is 45kg/m<sup>3</sup>.

The standard panel width is 960mm, the maximum lengths of panels are provided 6m till now. Also the thickness can reach 100mm/150mm. Besides the standard ones, customized panels are also available. As for the surface material, you can choose either one among stainless steel plate, painted galvanized mild steel and embossing aluminum plate.

Every panel consists of tongue and groove construction and can be tightened by a number of eccentric fasteners, which may be screwed easily with a hexagonal key.



## Standard Hinged Door

Part No.	Door Frame Dimension	Door Dimension (mm)
L700	790x1790	700x1700
L900	1000x2000	900x1900

\* To be adjusted as per specific requirement.

**Adjusted as per specific requirement:**  
Polyurethane (Thickness: 100mm)

**Surface Material:**  
Painted Galvanized Mild Steel



## Automatically swing Door

Part No.	Door Frame Dimension	Door Dimension (mm)
H700	790x1790	700x1700
H900	1000x2000	900x1900

\* To be adjusted as per specific requirement.

**Heat insulation material:**  
Polyurethane (Thickness: 100mm)

**Surface Material:**  
Painted Galvanized Mild Steel



## Manual Sliding Door

Part No.	Door Frame Dimension	Door Dimension (mm)
MS900x1040	1040x2040	900x1900
MS1040x1180	1180x2040	1040x1900
MS1200x1340	1340x2140	1200x2000
MS1500x1640	1640x2140	1500x2000

\* To be adjusted as per specific requirement.

**Heat insulation material:**  
Polyurethane (Thickness: 100mm)

**Surface Material:**  
Painted Galvanized Mild Steel



## Automatically Sliding Door

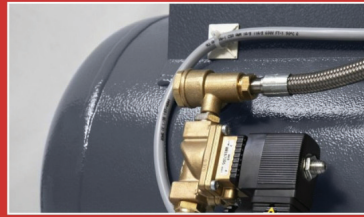
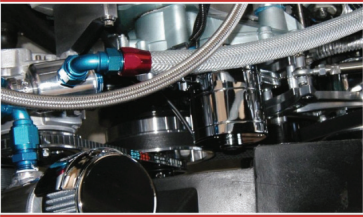
Part No.	Door Frame Dimension	Door Dimension (mm)
AS900x1040	1040x2040	900x1900
AS1040x1180	1180x2040	1040x1900
AS1200x1340	1340x2140	1200x2000
AS1500x1640	1640x2140	1500x2000

\* To be adjusted as per specific requirement.

**Heat insulation material:**  
Polyurethane (Thickness: 100mm)

**Surface Material:**  
Painted Galvanized Mild Steel





# 4 VALVE & CONTROL

**FavorCOOL<sup>®</sup>**

QUALITY DELIVERED



### Shut-off Valve (Hand Valves)



Part No.	Connection
HT-04	1/4" flare
HT-06	3/8" flare
HT-08	1/2" flare
HT-10	5/8" flare
HT-12	3/4" flare



Part No.	Connection
HT-04S	1/4" ODF
HT-06S	3/8" ODF
HT-08S	1/2" ODF
HT-10S	5/8" ODF
HT-12S	3/4" ODF

### Rotalock Valves



Part No.	Tube	Thread
V01	3/8"	1"x14
V02	1-1/8"	1-3/4"x12
V03	1-3/8"	1-3/4"x12
V04	3/4"	1-1/4"x12
V05	7/8"	1-1/4"x12
V06	1/2"	1"x14
V07	7/8"	1-3/4"x12
V08	5/8"	1"x14
V09	5/8"	1-1/4"x12



Part No.	Tube	Thread
VS01	3/8"	1"x14
VS02	1-1/8"	1-3/4"x12
VS03	1-3/8"	1-3/4"x12
VS04	3/4"	1-1/4"x12
VS05	7/8"	1-1/4"x12
VS06	1/2"	1"x14
VS07	7/8"	1-3/4"x12
VS08	5/8"	1"x14
VS09	5/8"	1-1/4"x12

### Split A/C Valves

- Applicable medium: R22, R134a, R410a, R407C, R32 etc.
- Applicable medium temperature: -30°C~+120°C.
- Maximum working pressure: 4.2MPa.



Part No.	Pipe Diameter (mm)	Nominal Diameter (mm)	Connection Thread Specification
FC-602	6.35	5	7/16-20UNF
FC-603	9.52	8	5/8-18UNF
FC-604	12.7	10	3/4-16UNF
FC-605	15.88	12.8	7/8-14UNF
FC-606	19.05	16	17/16-14UNF
FC-607	22.23	18.5	19/16-12UNF

### Safety Valve

Connect to Split A/C valve, avoid leakage of refrigerants during charging.



Connect to charging hose

Connect to split A/C valve

Part No.	Male*Female
FC-34	1/4"1/4 SAE
FC-34A	1/4"5/16 SAE
FC-34B	5/16"5/16 SAE
FC-34C	5/16"1/4 SAE

### Thermostat Expansion Valves

Flare x Flare Connection Without Orifice



Refrigerant	Part No.	Pressure Equalization	Capillary Tube (m)	Connection		Danfoss Code
				Inlet x Outlet		
				inch*inch	mm*mm	N Series (-40~+10°C)
R22	Tx2	int.	1.5	3/8x1/2	10x12	068Z3206
	TEX2	ext.		3/8x1/2	10x12	068Z3209
R407C	Tz2	int.	1.5	3/8x1/2	10x12	068Z3496
	TEZ2	ext.		3/8x1/2	10x12	068Z3501
R134A	Tn2	int.	1.5	3/8x1/2	10x12	068Z3346
	TEN2	ext.		3/8x1/2	10x12	068Z3348
R404A/R507	Ts2	int.	1.5	3/8x1/2	10x12	068Z3400
	TES2	ext.		3/8x1/2	10x12	068Z3403

### Orifice: -40~+40°C



Orifice Number	Nominal Capacity (TR)				Nominal Capacity (KW)				Danfoss Code
	R22	R407C	E134A	R404A/R507	R22	R407C	E134A	R404A/R507	
0X	0.15	0.16	0.11	0.11	0.5	0.5	0.4	0.38	068-2002
00	0.3	0.3	0.25	0.21	1	1.1	0.9	0.7	068-2003
01	0.7	0.8	0.5	0.45	2.5	2.7	1.8	1.6	068-2010
02	1	1.1	0.8	0.6	3.5	3.8	2.6	2.1	068-2015
03	1.5	1.6	1.3	1.2	5.2	5.6	4.6	4.2	068-2006
04	2.3	2.5	1.9	1.7	8	8.6	6.7	6	068-2007
05	3	3.2	2.5	2.2	10.5	11.3	8.6	7.7	068-2008
06	4.5	4.9	3	2.6	15.5	16.7	10.5	9.1	068-2009



## Bi-directional Ball Valves



Part No.	ODF		Part No.	ODF		Part No.	ODF	
	mm	inch.		mm	inch.		mm	inch.
BV001-1	-	1/4"	BV006	18	-	BV0012	42	-
BV001	10	-	BV007	-	3/4"	BV0013	-	1-5/8"
BV002	-	3/8"	BV008	22	7/8"	BV0014	54	2-1/8"
BV003	12	-	BV009	28	-	BV0015	67	2-5/8"
BV004	-	1/2"	BV0010	-	1-1/8"	BV0016	-	3-1/8"
BV005	16	5/8"	BV0011	35	1-3/8"	BV0017	-	4-1/8"

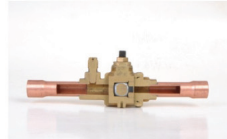
## Super Bi-directional Ball Valves



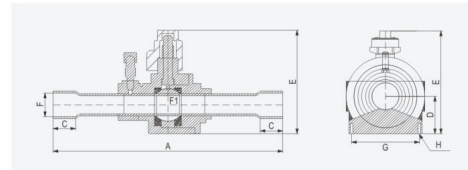
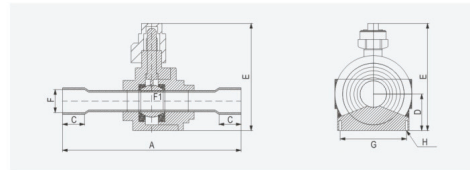
TBC Series



TBG Series



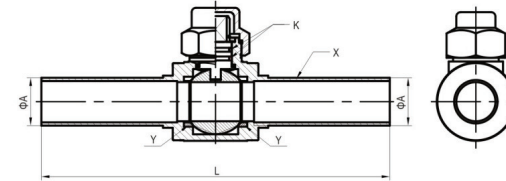
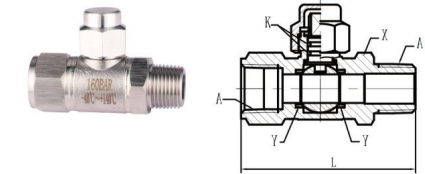
1. Bigger & Stronger valve body.
2. Chrome-plated brass ball inside.
3. Higher working pressure can reach to 48bar,700Psi.
4. Valve body is brazed after screw, which is more hermetic.
5. Special gasket with Graphene material, can make the valve body more clean and reduce the possibility of ball valve leakage.
6. Piercing valve is on valve body, not on copper tube, stronger and safer.



Part No.	Part No.	A (mm)	G (mm)	E (mm)	F (mm)	F1 (mm)	C (mm)	D (mm)	H
TBC-6S	TBG-6S	148	22	60	1/4	10	8	16	M4x0.7
TBC-10S	TBG-10S	150	22	60	3/8	10	8	16	M4x0.7
TBC-12S	TBG-12S	152	22	60	1/2	11	10	16	M4x0.7
TBC-16S	TBG-16S	162	22	60	5/8	13	13	16.5	M4x0.7
TBC-19S	TBG-19S	162	22	60	3/4	13	16	16.5	M4x0.7
TBC-22S	TBG-22S	182	34	78	7/8	19	19	22.5	M4x0.7
TBC-28S	TBG-28S	202	36	82	1-1/8	23	19	25.5	M4x0.7
TBC-35S	TBG-35S	218	36	96	1-3/8	30	25	31	M6x1.0
TBC-42S	TBG-42S	224	62	116	1-5/8	38	28	38.5	M6x1.0
TBC-54S	TBG-54S	274	62	132	2-1/8	48	34	45	M6x1.0
TBC-67S	TBG-67S	294	62	146	2-5/8	56	37	52.5	M6x1.0
TBC-79S	TBG-79S	294	62	146	3-1/8	70	37	52.5	M6x1.0

Part No.	Part No.	Connection size ODF		Kv value (m <sup>3</sup> /h)	Port (mm)	Copper thickness (mm)	Max. working pressure MWP	
		inch	mm				psi	bar
TBC-6S	TBG-6S	1/4	6	1	10	1	700	48
TBC-10S	TBG-10S	3/8	10	4	10	1	700	48
TBC-12S	TBG-12S	1/2	13	5	11	1	700	48
TBC-16S	TBG-16S	5/8	16	10	13	1	700	48
TBC-19S	TBG-19S	3/4	19	16	13	1.2	700	48
TBC-22S	TBG-22S	7/8	22	24	19	1.2	700	48
TBC-28S	TBG-28S	1-1/8	29	47	23	1.3	700	48
TBC-35S	TBG-35S	1-3/8	35	77	30	1.5	700	48
TBC-42S	TBG-42S	1-5/8	41	99	38	1.8	700	48
TBC-54S	TBG-54S	2-1/8	54	211	48	2	700	48
TBC-67S	TBG-67S	2-5/8	67	347	56	2.5	700	48
TBC-79S	TBG-79S	3-1/8	79	478	70	2.5	700	48

## CO<sub>2</sub> Bi-directional Ball Valves

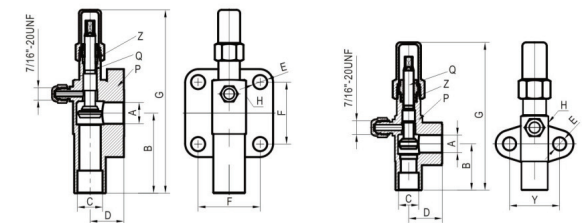


Model	ΦA	Kv (m <sup>3</sup> /h)	L (mm)
BVS1	3/8"	1.7	114
BVS2	1/2"	3.8	114
BVS3	5/8"	6.2	130.5
BVS4	3/4"	10.2	145
BVS5	7/8"	12.9	160
BVS6	1-1/8"	23.9	200
BVS7	1-3/8"	35.9	212
BVS8	1-5/8"	35.9	232

Model	ΦA	L (mm)	Kv (m <sup>3</sup> /h)
ZBVS1	NPT3/8"	71.5	2.2
ZBVS2	NPT1/2"	75.5	3.6
ZBVS3	NPT3/4"	90	9
ZBVS4	NPT1"	104	12.9
ZBVS5	NPT1-1/4"	130	21
ZBVS6	NPT1-1/2"	140	35

Technical Requirements	X	Y	K
Material	Stainless Steel	PTFE	O-RING
The Working Pressure	≤16 MPa		
The Suitable Media	R744, R717, LiBr, POE oil and some other refrigerants		
Temperature Range	-40°C~120°C		
Helium Leaking Detecting	leakage≤1.0g/a		
Qualification	CE CAWUS		

## CO<sub>2</sub> Bracket Valves



Technical Requirements	P	Q	Z
Material	STEEL	STEEL	STEEL
The Working Pressure	≤16 MPa		
The Suitable Media	R22, R134a, R410A, R502, R744, POE oil and some other refrigerants		
Temperature Range	-40°C~180°C		
Helium Leaking Detecting	leakage≤1.0g/a		
Qualification	CE CAWUS		

Model	□H	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	Y(mm)
COV01	□22	Φ14	37	Φ16.1	26.5	Φ10.5		118	40
COV02									
COV03	□30	Φ19	71	Φ22.4	30	Φ12.5	55	162.5	
COV04									
COV05	□36	Φ27	63	Φ28.8	33	Φ12.5	55	180.5	



## Magnetic Check Valve

- Magnet valve seat, tectorial diaphragm. Copper connection size 1/4" to 3-1/8".
- Near zero internal leak rate.
- Compatible with all CFC, HCFC and HFC refrigerants and oils.
- Working temperature range: -40°C~+130°C.
- Minimum current resistance, large flow rate.
- Small volume, light weight and can be installed in any position.
- Mesh in the valve body, it's not just a check valve, but also a filter.

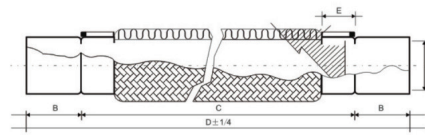


Part No.	Connection	Safety working Pressure (KPa)	OD (mm)	Length (mm)	Mesh No.	Liquid Capacity (KW)
CV-4	1/4	5500	22	102	40	6.8
CV-6	3/8	5500	22	102	40	14.2
CV-8	1/2	5200	29	127	40	38.2
CV-10	5/8	5200	29	127	40	42.6
CV-12	3/4	4100	41	178	40	79.7
CV-14	7/8	4100	41	178	40	108.5
CV-18	1-1/8	4100	54	213	40	188.5
CV-22	1-3/8	4000	67	238	40	232.8
CV-26	1-5/8	3000	80	267	40	397.7
CV-34	2-1/8	3200	92	305	40	691.1
CV-42	2-5/8	3000	105	330	40	927.3
CV-50	3-1/8	3000	105	330	40	1262.5

## Vibration Eliminator

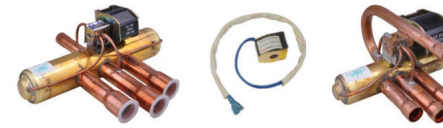
- 1.Adjustment of Structure--Extended copper tube from both ends of corrugated pipe.
- Sleeve protect clamp at the extended copper tubes, decrease the transversal surface during argon-arc welding process.
- Use auto-matic argon-arc welding machine, to avoid the defectives caused by manual welding operations.
- Use internal welding for both ends of copper tubes, to avoid the leaking points caused by normal outside welding

Copper (Cu-DHP) or stainless steel welding end



Part No.	I.D. (inch)	Length (inch)	Max Working Pressure (psig)	Burst Pressure (psig)	A (I.D.) mm	B (± 3) mm	C (± 3) mm	D (± 3) mm	E (± 3) mm
DH-1	3/8	8-9/16	500	2500	9.62	20	177.5	217.5	13
DH-2	1/2	9	500	2500	12.8	20	188.6	228.6	13
DH-3	5/8	9-7/8	500	2500	16.2	22	206.8	250.8	17
DH-4	3/4	10-9/16	500	2500	19.2	28	212.3	268.3	17
DH-5	7/8	12	500	2500	22.5	30	244.8	304.8	18
DH-6	1-1/8	13-9/16	500	2500	28.8	38	255.3	331.3	20
DH-7	1-3/8	15-9/16	500	2500	35.3	40	315	395	22
DH-8	1-5/8	16-7/8	500	2500	41.7	50	328.6	428.6	23
DH-9	2-1/8	20-5/8	390	1950	54.5	60	403.8	523.8	23
DH-10	2-5/8	24-5/16	340	1700	67	76	465.5	617.5	25
DH-11	3-1/8	26-15/16	300	1500	79.6	85	514.2	684.2	25
DH-12	3-5/8	32-3/16	175	252	92.5	100	617.5	817.5	25
DH-13	4-1/8	32-15/16	175	252	104.9	110	616.6	836.6	25

## 4-Way Reversing Valves



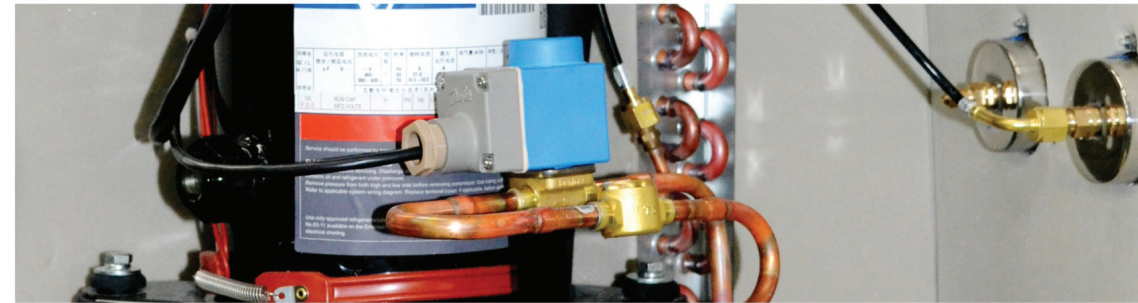
DSF-9      CW-01      DSF-20

Part No.	Connection (ODF)
DSF-4	Discharge: 5/16", Suction: 3/8"
DSF-9	Discharge: 3/8", Suction: 1/2"
DSF-11	Discharge: 1/2", Suction: 5/8"
DSF-11B	Discharge: 3/8", Suction: 5/8"
DSF-20	Discharge: 1/2", Suction: 3/4"
DSF-20B	Discharge: 1/2", Suction: 7/8"
DSF-34	Discharge: 3/4", Suction: 7/8"
DSF-50	Discharge: 7/8", Suction: 1-1/8"
SW-01	Coil: 220V, 50Hz/60Hz, 6W/5W

## Solenoid Valves



Part No.	Coil	Connection		Connection	
		inch	mm	inch	ODF
EVR3	a.c/d.c	1/4	6	032F8107	032F1206
		3/8	10	032F8116	032F1204
EVR6	a.c/d.c	3/8	10	032F8072	032F1212
		1/2	12	032F8079	032F1209
EVR10	a.c/d.c	1/2	12	032F8095	032F1217
		5/8	16	032F8098	032F1214
EVR15	a.c/d.c	5/8	16	032F8101	032F1228
		7/8	22	-	032F1225
EVR20	a.c	1-1/8	28	-	032F1240
		1-3/8	-	-	032F3267
EVR25	a.c	1-1/8	-	-	032F2201
		1-3/8	-	-	032F2208
EVR32	a.c	1-3/8	-	-	042H1106
		1-5/8	-	-	042H1104
EVR40	a.c	1-5/8	-	-	042H1110
		2-1/8	-	-	042H1112



## Solenoid Valves

- Ambient temperature: -20~50°C
- Medium temperature: -25~120°C
- Max. working pressure: Regular 3MPa
- Max. working pressure: 3MPa
- Available medium: R134a, R22, R407C, R404A/507, air, water and oil



Flare



Soldering



This product could be applied to R410a system.

\* Solenoid Valve for R410a is available upon requests.

Part No.	Connection Size	Part No.	Connection Size	Part Size(mm)	M.O.P.D. (Bars)	Kv Factor (m³/hr)
SV1020/2	1/4" Flare	SV1028/2	1/4" Copper solder	2.5	21	0.175
SV1020/3	3/8" Flare	SV1028/3	3/8" Copper solder	3.0	21	0.230
SV1064/3	3/8" Flare	SV1068/3	3/8" Copper solder	7.0	21	0.800
SV1064/4	1/2" Flare	SV1068/4	1/2" Copper solder	7.0	21	0.800
SV1070/4	1/2" Flare	SV1078/4	1/2" Copper solder	12.5	21	2.200
SV1070/5	5/8" Flare	SV1078/5	5/8" Copper solder	12.5	21	2.600
SV1070/6	3/4" Flare	SV1078/6	3/4" Copper solder	17.0	21	4.300
SV1090/6	3/4" Flare	SV1098/6	3/4" Copper solder	16.5	21	5.700



## Pressure Controller

Part No.	A.C. 110	A.C. 220
Non-Inductive Current	24	16
Full Load	24	16
Starting	144	96



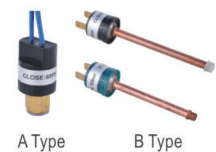
Part No.	Low Pressure (Mpa)	High Pressure (Mpa)	Differential (Mpa)		Reset		Max. work pressure	
	Adjust range	Adjust range	L.P.	H.P.	L.P.	H.P.	L.P.	H.P.
HLP110	0.1-1.0	-	0.1-0.3	-	Auto	-	1.7	-
HLP506	-0.05-0.6	-	0.1-0.4	-	Auto	-	1.7	-
HLP506M	-0.05-0.6	-	≤0.2 fixed	-	Manual	-	1.7	-
HLP520	-	0.4-2.0	-	0.2-0.5	-	Auto	-	3.3
HLP530M	-	0.5-3.0	-	≤0.4 fixed	-	Manual	-	3.3
HLP530D	-	0.5-3.0	-	0.5-1.0	-	Auto	-	3.3
HLP830	-0.05-0.6	0.5-3.0	0.1-0.4	≤0.4 fixed	Auto	Auto	1.7	3.3
HLP830HM	-0.05-0.6	0.5-3.0	0.1-0.4	≤0.4 fixed	Auto	Manual	1.7	3.3
HLP830HLM	-0.05-0.6	0.5-3.0	≤0.4 fixed	≤0.4 fixed	Manual	Manual	1.7	3.3

## Pressure Controller

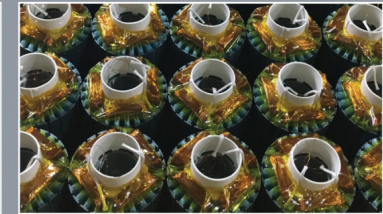
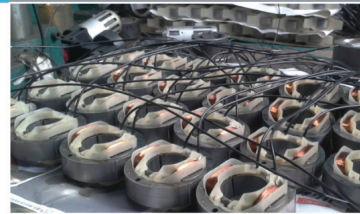


Pressure	Part No.	Danfoss Code			Low Pressure (LP)		Reset		Reset		Contact system
		1/4 in 6mmSAE	1/4 in ODF	6mm ODF	Adjust range (bar)	Differential Pressure (bar)	Adjust range (bar)	Differential Pressure (bar)	High Pressure	Low Pressure (LP)	
Low	KP1	060-1101	060-1112	060-1110	-0.2-7.5	0.7-4.0	-	-	Auto	-	SPDT
		060-1103	060-1111	060-1109	-0.9-7.0	Fixed 0.7	-	-	Manual	-	
Low	KP2	060-1120	-	060-1123	-0.2-5.0	0.4-1.5	-	-	Auto	-	SPDT
		060-1171	060-1179	060-1177	-	-	8-32	1.8-6.0	Auto	-	
High	KP5	060-1173	060-1180	060-1178	-	-	8-32	Fixed 3	Manual	-	SPDT
		060-1241	060-1254	-	-0.2-7.5	0.7-4.0	8-32	Fixed 4	Auto	Auto	
Dual	KP15	060-1243	-	-	0.2-7.5	0.7-4.0	8-32	Fixed 4	-	Manual	SPDT-Low Signal
		060-1245	-	-	-0.9-7.0	Fixed 0.7	8-32	Fixed 4	Manual	Manual	
Dual	KP15	060-1265	060-1299	-	-0.2-7.5	0.7-4.0	8-32	Fixed 4	Auto	Auto	SPDT-Low/high Signal
		060-1264	060-1284	-	-	-	8-32	Fixed 4	Auto	Auto	

## Pressure Controls



Part No.	Application	Setting P.S.L		Setting Tolerance
		OFF °C	Close	
LPS0520	Low Pressure Automatic Reset	5	20	+/-5
LPS1020	Low Pressure Automatic Reset	10	20	+/-5
LPS2550	Low Pressure Automatic Reset	25	50	+/-5
HPS200150	High Pressure Automatic Reset	200	150	+/-15
HPS250150	High Pressure Automatic Reset	250	150	+/-15
HPS300200	High Pressure Automatic Reset	300	200	+/-15
HPS350250	High Pressure Automatic Reset	350	250	+/-15
HPS400300	High Pressure Automatic Reset	400	300	+/-15



# 5 FAN & MOTOR

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## FavorCOOL®

QUALITY DELIVERED





**YJF Series  
Condenser Fan Motor**



**YJFN Series  
Condenser Fan Motor**



**EBM dual connection Series  
Condenser Fan Motor**



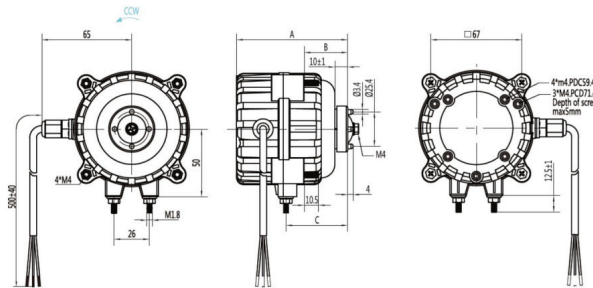
Part No.	Part No.	Part No.	Power (W)	Voltage (VAC)	Frequency (Hz)	Diameter (mm)	RPM	Rotation
YJF203	YJFN203	EBM203	3	110V or 220V	50/60	154	1300/1550	CW or CCW
YJF205	YJFN205	EBM205	5	110V or 220V	50/60	170/200	1300/1550	CW or CCW
YJF207	YJFN207	EBM207	7	110V or 220V	50/60	200/230	1300/1550	CW or CCW
YJF310	YJFN310	EBM310	10	110V or 220V	50/60	200/230	1300/1550	CW or CCW
YJF316	YJFN316	EBM316	16	110V or 220V	50/60	230/250	1300/1550	CW or CCW
YJF318	YJFN318	EBM318	18	110V or 220V	50/60	230/250	1300/1550	CW or CCW
YJF325	YJFN325	EBM325	25	110V or 220V	50/60	250/300	1300/1550	CW or CCW
YJF334	YJFN334	EBM334	34	110V or 220V	50/60	300	1300/1550	CW or CCW

**EC Motor**

- EC Motor's efficiency rate is significantly raised to 60%, while ordinary motor is only 20%;
- Permanent magnet brushless;
- More energy saving, more steady, more popular and more environment friendly.



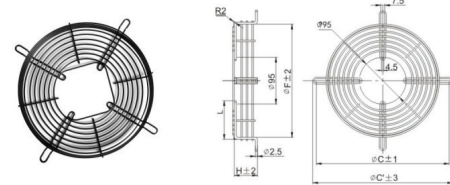
EC



**Technical Data**

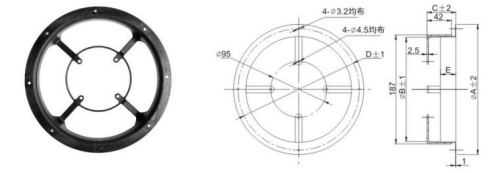
Nominal Data		Voltage (V)	Frequency (Hz)	Speed (r/min)	Output Capacity (W)	Perm. Amb. Temp (°C)	Dimensions		
Type	Features						A	B	C
ECM7108	Standard CW/CCW 2 Speeds Vari-speed	AC110/220	50/60	1300-1800	7	-40~+50	83	32.5	43.5
	Vari-speed	DC24	-	1300-1800	7	-40~+50			
ECM7112	Standard CW/CCW 2 Speeds Vari-speed	AC110/220	50/60	1300-1800	12	-40~+50	87	32.5	43.5
	Vari-speed	DC24	-	1300-1800	12	-40~+50			
ECM7120	Standard CW/CCW 2 Speeds Vari-speed	AC110/220	50/60	1300-1800	25	-40~+50	95	32.5	43.5
	Vari-speed	DC24	-	1300-1800	25	-40~+50			

**Grid**



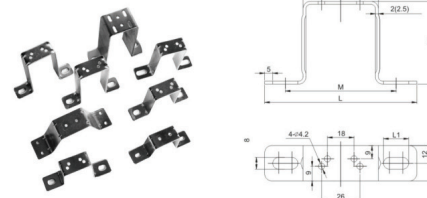
FANTYPE	C	C	F	H	L
40W	277	264	222	39	70
60W	327	314	272	49	96
75W	337	324	280	49	100
90W	377	364	319	49	120

**Flange**



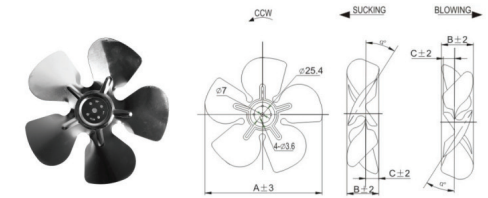
FANTYPE	ΦA	ΦB	C	ΦD	E
172	223	180	49	208	25
200	246	208	49	236	25
230	278	238	49	266	25
254	300	262	49	290	25
300	378	308	49	365	30

**Bracket**



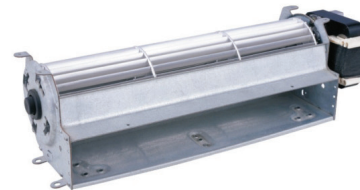
MODEL	H	L	L1	L2	M
H56	56	105	17	24	75
H72	72	105	13	24	75
H84	84	105	20	24	75
H84	84	166	18	25	126
H90	90	110	17	24	80
H110	110	106	14	42	83
H110	110	106	14	50	83

**FanBlade**



MODEL	YJF205		YJF310		YJF316		YJF318		YJF325		YJF334	
	FAN											
150	28											
170	28	31										
200	25	28	28									
230				22	22	25						
250					22	22	25					
300							19	19	22	25	25	28

**Cross Flow Fan (Low Noise)**



- Impeller Material: Aluminum Alloy
- Blades Quantity: 22/24
- Frame Material: Galvanized Metal Sheet
- Motor Type: Shaded Pole Motor
- Insulation Class: B/F/H
- Bearing: Ball Bearing / Sleeve Bearing
- Safety Approval: UL, CE, CCC, TUV
- Operating Temperature: -25°C~+60°C

Part No.	Voltage (VAC)	Diameter (mm)	Wheel Length (mm)	Power (w)	RPM	Air Flow (m³/h)	Noise (dBA)
BW-1	220	60	180	33	1800	150	34
BW-2	220	60	240	33	1700	170	37
BW-3	220	60	360	45	1450	250	42





**Axial Fan**

We can also supply other fan motors with different voltages and frequencies according to clients' requirement.

The insulation class of the R series axial fans is B or F.

CE, TUV, ERP certified.



with steel frame (optional)

Part No.	V/Hz	Power (w)	Current (A)	Air Volume (m <sup>3</sup> /h)	Noise (dBA)	Fan Size (mm)	Speed (r/min)	N.W. (kfs)
R09E-2030A-4M	220/50	22	0.11	385	50	200	1400	2
R09E-2530A-4M	220/50	50	0.23	880	55	250	1430	2.7
R09E-3030A-4M	220/50	80	0.4	1450	60	300	1380	3.2
R09E-3030A-4T	380/50	70	0.22	1450	60	300	1440	3.2
R11E-3530A-4T	380/50	150	0.45	2350	65	350	1380	4.6
R11E-3530A-4M	220/50	150	0.7	2350	65	350	1380	4.6
R11E-3530A-6M	220/50	75	0.4	1670	65	350	930	4.6
R11E-4030A-4T	380/50	200	0.6	3745	68	400	1380	5.2
R11E-4030A-4M	220/50	200	0.95	3754	68	400	1350	5.2
R11E-4030A-6M	220/50	120	0.55	2555	68	400	920	5.2
R11E-4530A-4T	380/50	250	0.55	4500	70	450	1380	6.8
R11E-4530A-4M	220/50	250	1.15	4500	70	450	1320	6.8
R11E-4530A-6M	220/50	95	0.46	3200	56	450	910	6.8
R13E-5030A-4T	380/50	380	0.75	6445	70	500	1320	9.8
R13E-5030A-4M	220/50	450	2.1	6445	70	500	1350	9.8
R13E-5030A-6M	220/50	175	0.8	4410	58	500	920	9.6
R13E-5625A-4T	380/50	600	1.2	8415	70	560	1350	11
R13E-5625A-6T	380/50	200	0.52	6355	60	560	900	10.8
R13E-5625A-6M	220/50	220	1.0	6355	60	560	880	10.8
R13E-6325A-6T	380/50	330	1.2	7960	68	630	930	15.5
R13E-6325A-6M	220/50	350	1.8	7960	68	630	920	15.5
R13E-7125A-6T	380/50	440	1.05	10165	68	710	810	19.5
R13E-8025A-6T	380/50	1100	2.4	21500	83	800	900	35

To be adjusted as per specific requirement.

**EC 250~500 External Rotor Axial Fan**

**Introduce**

1. Emphasizing on energy saving, environmental protection, and high efficiency, our company absorbed advanced technology in home and abroad to research and develop a new generation of EC series Fan motors that was based on our years-long experience manufacturing traditional AC series Fan Motors. The new product has improved working efficiency greatly and is ideal for air-conditioning, purification, and refrigeration industries.
2. The ambient temperature of the fan motor is -25°C ~ +60°C.

**Product Characteristic**

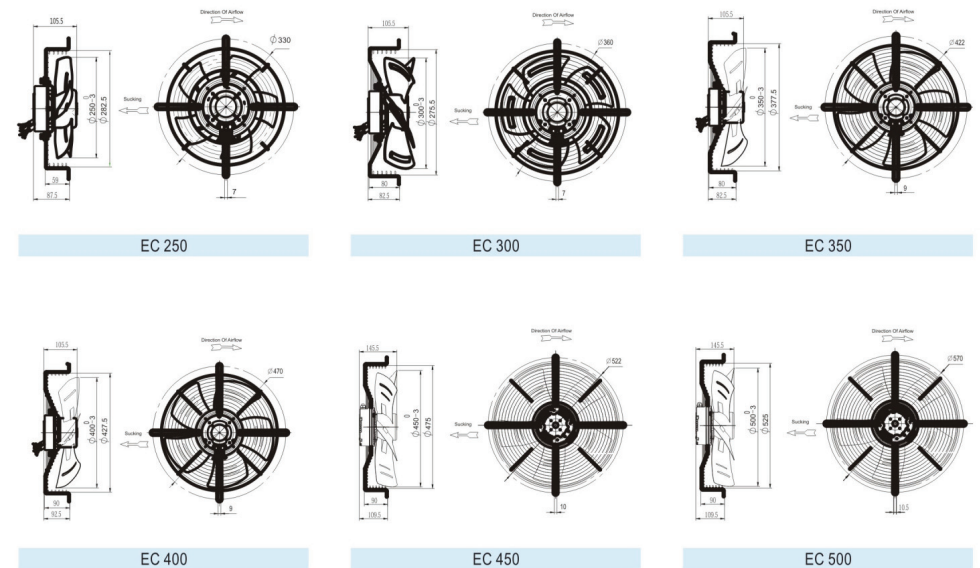
- Rotation: CW
- Type of Protection: Ip54
- Insulation Class: F
- Mode of Operation: S1
- Bearings: Maintenance-free ball bearings
- Perm. Amb. Temp.: -25°C - +60°C
- Operating Voltage: 200V-277V/1P
- Std. Control: 0-10V or PWM



**Technical Data**

Model	voltage (V)	Frequency (Hz)	Current (A)	Power Input (W)	Speed (r/min)	Air flow/max (m <sup>3</sup> /h)	Max. static Pressure (Pa)	N.W. (Kg)	Noise (dB)
BY2EC250/092/25-1GSE	220	50/60	109	174	2900	1840	180	2.5	70
BY2EC300/092/25-1GSE	220	50/60	0.83	127	1700	2140	110	2.8	72
BY2EC350/092/25-1GSE	220	50/60	1.17	184	1630	2930	100	3.2	65
BY2EC400/092/25-1GSE	220	50/60	1.13	178	1375	3430	90	3.7	65
BY2EC400/102/50-1GSE	220	50/60	2.4	480	1800	4800	110	5.2	80
BY2EC450/102/50-1GSE	220	50/60	2.33	190	1345	5686	100	6.8	70
BY2EC500/102/50-1GSE	220	50/60	0.77	471	1370	8000	150	15	73

**Size Indication**





## C Frame Shaded Pole Motor



SM102J      2J01289B      KM334      YJF607A-5C      SM672



SM998      MA-61103D-2Z      PSC4W(YZF3206)      YZF2261      D4612AAA21

Part No.	Voltage (V)	Frequency (Hz)	Current (A)	Input (W)	Shaft Size (Inch)	Rotation
SM102J	220	50/60	0.12	13	1/8"x1"	CW
2J01289B	220	50/60	0.085	8	-	CCW
KM334	220	50/60	0.18	15	3/16"x1/16"	CW
YJF607A-5C	220	50/60	0.065	7	1/8"x1-5/16"	CW/CCW
SM672	220	50/60	0.32	20	3/16"x1-7/16"	CW/CCW
SM998	240	50	0.2	18	1/8"x2"	CW
MA-61103D-2Z	220	50/60	0.06	6	-	CW
PSC4W	220	50/60	0.2	27	-	CCW
YZF2261	220	50	0.08	6.5	1/8"x1-5/16"	CW/CCW
DC D4612AAA21	12	-	0.233	3.3	-	CCW

## Axial Flow Draft Fan

- Operating temperature: -10°C to 70°C (Sleeve) -20°C to 80°C (Ball)
- Operating voltage: 110V ranged from 85V to 125V  
220V ranged from 190V to 245V
- Operating humidity: between 20% to 85%
- Insulation resistance: 10MQ at 500VDC
- Dielectric strength: 1 minute at 1500VAC/50-60Hz
- Current: <50mA



Q Type

Part No.	Bearing	Voltage (V)	Current (A)	Noise dB (A)	Power (W)	RPM	Airflow (CFM)
FC8025A2HSL	Sleeve	220	0.08/0.07	29/33	17.6/15.4	2100/2250	17/21
FC8025A2HBL	Ball	220	0.08/0.07	30/34	17.6/15.4	2200/2300	18/22
FC8038A2HSL	Sleeve	220	0.07/0.06	31/35	15.4/13.2	2200/2400	30/35
FC8038A2HBL	Ball	220	0.07/0.06	32/36	15.4/13.2	2200/2400	30/35
FC9225A2HSL	Sleeve	220	0.08/0.07	32/36	17.6/15.4	2000/2150	25/31
FC9225A2HBL	Ball	220	0.08/0.07	34/38	17.6/15.4	2050/2200	27/32
FC1025A2HSL	Sleeve	220	0.08/0.07	32/36	17.6/15.4	2000/2150	45/55
FC1025A2HBL	Ball	220	0.08/0.07	34/38	17.6/15.4	2050/2200	46/56
FC1225A2HSL	Sleeve	220	0.08/0.07	33/37	17.6/15.4	2000/2150	58/73
FC1225A2HBL	Ball	220	0.08/0.07	34/38	17.6/15.4	2050/2200	60/76
FC1238A2HSL	Sleeve	220	0.14/0.12	44/46	30.8/22.0	2600/3000	75/90
FC1238A2HBL	Ball	220	0.14/0.12	45/47	30.8/22.0	2600/3000	77/92



## 6 TEMPERATURE CONTROLLER & MULTIMETERS

.....  
**FavorCOOL<sup>®</sup>**

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Thermometer

Part No.	Diameter (mm)	Cap. Length (mm)	Measuring Range
60D1.5	60	1500	-40°C~+40°C
80D1.5	80	1500	
100D1.5	100	1500	



WT-2	TPM-10	WT-1	PT1005
-50°C~+300°C (-58°F~+572°F) Resolution: 0.1, >200°C: 1 Accuracy: ±1°C (-20°C~+80°C) ±5°C (other range)	-50°C~+70°C Resolution: 0.1°C Accuracy: ±1°C	-50°C~+300°C (-58°F~+572°F) Resolution: 0.1>200°C is 1 (>400°F is 1°F) Accuracy: (-20°C~+80°C) ±1°C	-40°C~+80°C -40°F~+160°F



DST-50	RT-200	ST50	RF221
-50°C~+150°C (-58°F~+302°F)	1m, capillary: -40°C~+40°C Accuracy: ±2°C L*W*H: 56*58*25mm	-40°C~+150°C or -40°C~+270°C, 2"(50mm)dial, 48" cable back-up lithium battery, solar powered	2-1/2", capillary: 48", -40°C~+15°C / -40°F~+60°F, stainless steel frame



TPM-900	DT-2	DT-3	BT-2
Power voltage: 220VAC Measuring range: -30°C~+110°C Product size: 60*25.7*32mm Screen size: 64*31mm	Measuring range: Temperature: -50°C~+70°C Humidity: 20%~99% Power: DC1.5V	Measuring range: In: -30°C~+50°C Out: -50°C~+70°C Temperature range: 20%~99% Power: DC1.5V	Indoor temp: -30°C~+50°C (-22°F~+122°F) Outdoor temp.: -50°C~+70°C (-58°F~+158°F) Humidity: 20%~99%

Room Thermostat



Part No.	Dimensions (mm)	Temperature Range	Current (A)	Voltage (V)	Frequency
T200	86x86x32	10°C~30°C	2	200+10%	50/60Hz
T201	86x86x32	10°C~30°C	6	200+10%	50/60Hz
T202	83.5x83.55x38	10°C~30°C	10	200+10%	50/60Hz
T-PIR1	111.5x74.4x22	16°C~30°C	-	Temperature Remote Controller	-
T-HVAC10	118x88x30	7°C~32°C	-	24V	50/60Hz

Microcomputer Temperature Controller



STC-200+	STC-8080H	STC-9200
<b>Technical parameter</b> • Power supply: 220VAC±10% (12VAC/DC, 24VDC optional) • Power consumption: <5W • Temperature measuring and controlling range: -50~+120°C • Display resolution: 0.1 1when ≥100°C • Accuracy: ±0.5°C from ~ 10 to 85°C; ±±2°C at others	<b>Technical parameter</b> • 1Power supply: 220VAC+10%/-15% 50/60Hz • Power consumption: <5W • Temperature measuring range: -50~+99°C • Temperature measuring range: -40~+50°C • Resolution: 1°C • Accuracy: ±1°C from -50 to 70°C; ±±2°C at others	<b>Technical parameter</b> • 1Power supply: 220VAC 50Hz • Power consumption: <5W • Ambient temperature: 0~+60°C • Relative humidity: 20%~85% (No condensate) • Accuracy: ±1°C
<b>Technical parameter</b> • 1Power supply: 220VAC+10%/-15% 50/60Hz • Power consumption: <5W • Temperature measuring range: -50~+99°C • Temperature measuring range: -40~+50°C • Resolution: 1°C • Accuracy: ±1°C from -50 to 70°C; ±±2°C at others	<b>Technical parameter</b> • 1Power supply: 220VAC 50Hz • Power consumption: <5W • Ambient temperature: 0~+60°C • Relative humidity: 20%~85% (No condensate) • Accuracy: ±1°C	
<b>Technical parameter</b> • 1Power supply: 220VAC 50Hz • Power consumption: <5W • Ambient temperature: 0~+60°C • Relative humidity: 20%~85% (No condensate) • Accuracy: ±1°C		



EK3010/3020/3030	ETC-961	ETC-974
<b>Technical parameter</b> • Measuring range: -40°C~+99°C • Controlling range: -40°C~+85°C • Temperature Resolution: 0.1°C/1°C • Accuracy: -30°C~+50°C, ±1°C; others, ±2°C • Power supply: 200VAC±10% 50Hz/60Hz • Mounting Size: 71mm * 29mm • Power: <5W	<b>Technical parameter</b> • Temperature controlling range: -30°C~+85°C • Product Size: 75mm x 34.5mm x 58mm • Mounting: 71mm x 29mm • Measuring range: NTC (-50°C~+120°C) • Control output: 10A/250VAC for compressor • Power supply: 220VAC±10%	<b>Technical parameter</b> • Temperature controlling range: -50°C~+99°C • Product Size: 75mm x 34.5mm x 58mm • Mounting: 71mm x 29mm • Measuring range: NTC (-50°C~+120°C) • Control output: 8A/250VAC for compressor • Power supply: 220VAC±10%
<b>Technical parameter</b> • Temperature controlling range: -30°C~+85°C • Product Size: 75mm x 34.5mm x 58mm • Mounting: 71mm x 29mm • Measuring range: NTC (-50°C~+120°C) • Control output: 10A/250VAC for compressor • Power supply: 220VAC±10%	<b>Technical parameter</b> • Temperature controlling range: -50°C~+99°C • Product Size: 75mm x 34.5mm x 58mm • Mounting: 71mm x 29mm • Measuring range: NTC (-50°C~+120°C) • Control output: 8A/250VAC for compressor • Power supply: 220VAC±10%	
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Temperature Controller FC-1000pro



- Plug and play design, easy to use;
- Dual relay output, be able to connect with refrigeration and heating equipment at the same time;
- Support reading with Centigrade or Fahrenheit unit;
- Maximum output load: 1000W (110V)/2000W (220V);
- Dual display window, be able to display measured temperature and set temperature at the same time;
- Temperature calibration;
- Compressor delay protection for refrigeration control;
- High and low temperature alarms are available;
- Over-temperature and sensor fault alarm;
- Heating/Cooling differential function could be set separately for refrigeration and heating to protect temperature controller from violent change.

Thermostat Guard



Part No.	Dimensions (mm)	White-rogers	Mars
BTG-EK	125x120x75	F29-0025	70201
BTG-RK	180x110x95	F29-0143	70210
BTG-K	151x140x85	F29-0227	70205
BTG-DK	225x145x75	F29-0231	70217
BTG-UK2	230x130x105	F29-0198	70220



### DR-400 Temperature Data Logger

DR-400 is widely used for the storage and transportation of foodstuff, medicine, fresh and live goods, or be used in any place where need temperature supervising.

**Feature:**

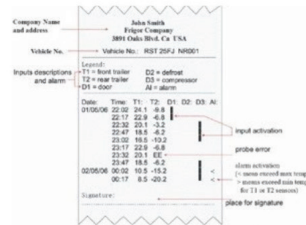
LCD with backlight display, Two NTC probes (PT1000 optional), Waterproof panel (IP65), Large data recording capacity, high accuracy Password protection, Data reservation automatically after power off.

**Technical Parameter:**

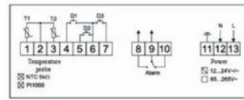
- **Temperature range:** NTC: -40°C~+120°C, PT1000: -200°C~+650°C
- **Display:** LCD, two lines, backlight adjustable
- **Input:** Two NTC probes (PT1000 optional), Three-digit input (NO or NC)
- **Recording channel:** Two (one optional) channels
- **Accuracy:** NTC: +/-0.5°C (-40°C~+80°C); 1°C (other range)  
PT1000: +/-0.3°C (-50°C~+200°C); 1°C (other range)
- **Memory capacity:** 13000 points (MAX)
- **Recording cycle:** 1 Min. to 999 Min (adjustable)
- **Recording:** 0.1°C
- **Printing output:** Mini thermal printer, printer paper wide is 57mm,40 characters each line
- **Relay output capacity:** SPDT 10A 250V
- **Power:** 12~24VDC (85~265Vac optional)
- **Operation temperature Range:** -20°C~+50°C



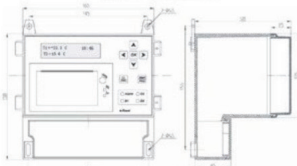
DR-400



Printing Report Example



Wire diagram



Installing Size

### RC-11 Single-use PDF Temperature Data logger

RC-11 temperature data logger is mainly used for monitoring and logging temperature in storage and shipment of food and pharmaceuticals, such as cooler boxes, refrigerated trucks, containers, etc.

- **Temperature measuring range:** -30°C-70°C Resolution: 0.1°C
- **Alarm threshold:** default(customizable)
- **Storage temperature:** -30°C-70°C
- **Data interface:** USB2.0
- **Temperature accuracy:** 0.5°C/0.9H(-20°C-40°C); 1°C/1.8H(others)
- **Report type:** PDF format
- **Sensor type:** internal NTC
- **Battery:** built-in CR2450 wide temperature lithium battery
- **Memory capacity:** 32000 points(MAX)
- **Battery life:** 2 years (stored and used under normal temperature environment)
- **Log cycle:** 120 days(customizable)
- **Protection grade:** IP67
- **Size:** 80mm(L)x48mm(W)x5.8mm(H)
- **Alarm type:** single or cumulative
- **Weight:** approx.15g



RC-11



### Electric Control Box



ECB-1000	ECB-1000Q	ECB-5080
<b>Specification:</b> Product size: 250x190x139mm	<b>Features:</b> • Big display area shows all necessary information	<b>Specification:</b> • Product size: 300x420x150mm
<b>Technical parameters:</b> • Compressor working time when sensor error: 0~99 minutes • Compressor end time when sensor error: 0~99 minutes • Cooling relay output: 10A/220VAC • Heating relay output: 10A/220VAC • Alarm output when Sensor error or exceeding temperature limits: LED flashes • Temperature measuring range:-50~+90°C • Return difference: 1~15°C • Exceeding temperature limit alarm value: 1~15°C • Accuracy of temp. measuring and controlling: ±1°C • Resolution:0.1 • Compressor delay time: 0~9 minutes(Adjustable)	<b>Technical parameters:</b> • Power Supply: 220VAC±10%, 50/60Hz • Power Consumption: Less than 5W • Temperature Measuring Range:-45°C~99°C • Accuracy:±1°C • Temperature Controlling Range:40°C~90°C • Resolution: 0.1°C/1°C OR 1°F • Relay Capacity of Compressor: • Max. capacity for compressor:3HP • Max. capacity for fan: 500W • Max. capacity for light:300W • Defrost: 8A/220VAC • Alarm: 5A/220VAC • Work Temperature: -5°C~60°C • Sensor Type: NTC(10K/25C, B-3435K)	<b>Technical Parameters:</b> • Power supply: Three-phase five-wire(or three-phase four-wire), 380VAC ±10%, 50Hz • Temperature measuring and controlling range:-50~+50°C • Accuracy:±1°C • Resolution:0.1 • Compressor start-up delay protection time:0~120 minutes(Adjustable) • Max. capacity of controlling the compressor, defroster, fan(KW):11

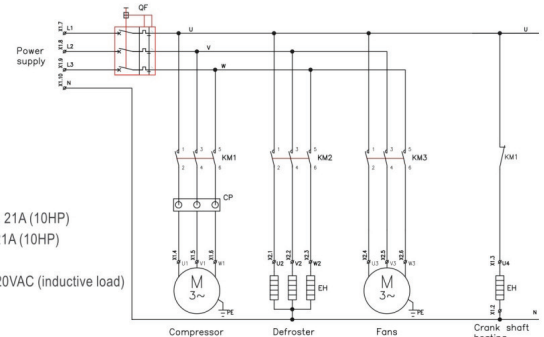
### Electric Control Box ECB-2000 series

Part No.	Power (HP)	Compressor	Defrosting	Fan
ECB2010	5	√		
	10	√		
ECB2020	5	√	√	
	10	√	√	
ECB2030	5	√	√	√
	10	√	√	√



**Technical parameters**

- Power supply: three-phase-four-wire 380VAC±10%/50Hz
- Temperature measuring range: -45°C~100°C
- Temperature accuracy:±1°C
- Temperature control range:-40°C~85°C
- Temperature resolution: 0.1°C
- Current measuring range: 0~80A
- Current measuring accuracy: ±2A (0~30A), ±3% (within the nominal range of mutual inductor)
- Current display resolution: 0.1A
- The maximum continuous output current of compressor loop: 10A (5HP), 21A (10HP)
- The maximum continuous output current of defrosting loop: 10A (5HP), 21A (10HP)
- The maximum continuous output current of fan loop: 5A
- The maximum continuous output current of cold storage light loop: 5A/220VAC (inductive load)
- Ambient temperature: 0°C~40°C
- Sensor: NTC (thermistor) (10kΩ/25°C, B value 3435K)
- Communication interface: RS485







# 7 SERVICE TOOL

**FavorCOOL<sup>®</sup>**

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## Vacuum Pump



Part No.	Capacity at 220V/50Hz	Capacity at 110V/60Hz	Ultimate Vacuum		Motor Power (hp)	Motor Speed (rpm)	Intake Fitting (inch)
			Partial Pressure	Total Pressure			
VP-0.5A	1 CFM, 28 L/min	1.2 CFM, 34 L/min	2 Pa	150 micron	1/6	1440	1/4" SAE
VP-1A	2 CFM, 57 L/min	2.4 CFM, 68 L/min	2 Pa	150 micron	1/4	1440	1/4" SAE
VP-1.5A	3 CFM, 85 L/min	3.6 CFM, 102 L/min	2 Pa	150 micron	1/4	1440	1/4" SAE
VP-2A	4 CFM, 113 L/min	4.8 CFM, 136 L/min	2 Pa	150 micron	1/3	1440	1/4" SAE
VP-3A	6 CFM, 170 L/min	7.2 CFM, 204 L/min	2 Pa	150 micron	1/2	1440	1/4" SAE
VP-4A	8 CFM, 226 L/min	9.6 CFM, 272 L/min	2 Pa	150 micron	3/4	1440	1/4" SAE

Part No.	Capacity at 220V/50Hz	Capacity at 110V/60Hz	Ultimate Vacuum		Motor Power (hp)	Motor Speed (rpm)	Intake Fitting (inch)
			Partial Pressure	Total Pressure			
2VP-0.5C	1 CFM, 28 L/min	1.2 CFM, 34 L/min	2x10 <sup>-3</sup> Pa	15 micron	1/4	1440	1/4" SAE
2VP-1C	2 CFM, 57 L/min	2.4 CFM, 68 L/min	2x10 <sup>-3</sup> Pa	15 micron	1/3	1440	1/4" SAE
2VP-2C	4 CFM, 113 L/min	4.8 CFM, 136 L/min	2x10 <sup>-3</sup> Pa	15 micron	1/2	1440	1/4" SAE
2VP-3C	6 CFM, 170 L/min	7.2 CFM, 204 L/min	2x10 <sup>-3</sup> Pa	15 micron	3/4	1440	1/4" SAE
2VP-4C	8 CFM, 226 L/min	9.6 CFM, 272 L/min	2x10 <sup>-3</sup> Pa	15 micron	3/4	1440	1/4" SAE

\* Intake Fitting Can Select: 1/4 SEAA1/2A CME or 3/8SAE.

## Super Vacuum Pump



Part No.	Capacity at 220V/50Hz	Capacity at 110V/60Hz	Ultimate Vacuum		Motor Power (hp)	Motor Speed (rpm)	Intake Fitting (inch)
			Partial Pressure	Total Pressure			
VP115	1.5 CFM, 42 L/min	1.8 CFM, 51 L/min	2 Pa	150 micron	1/3	1440	1/4" SAE
VP125	2.8 CFM, 79 L/min	3.4 CFM, 96 L/min	2 Pa	150 micron	1/3	1440	1/4" SAE
VP130	3.0 CFM, 85 L/min	3.6 CFM, 102 L/min	2 Pa	150 micron	2/5	2880	1/4" SAE
VP145	4.5 CFM, 127 L/min	5.4 CFM, 153 L/min	2 Pa	150 micron	1/2	2880	1/4" SAE
VP165	6.5 CFM, 184 L/min	7.8 CFM, 221 L/min	2 Pa	150 micron	3/4	2880	1/4" SAE
VP185	8.0 CFM, 226 L/min	9.6 CFM, 272 L/min	2 Pa	150 micron	3/4	2880	1/4" SAE
VP1100	10.0 CFM, 283 L/min	12 CFM, 340 L/min	2 Pa	150 micron	3/4	2880	1/4" SAE

Part No.	Capacity at 220V/50Hz	Capacity at 110V/60Hz	Ultimate Vacuum		Motor Power (hp)	Motor Speed (rpm)	Intake Fitting (inch)
			Partial Pressure	Total Pressure			
VP215	1.5 CFM, 42 L/min	1.8 CFM, 51 L/min	2x10 <sup>-3</sup> Pa	15 micron	1/2	1440	1/4" SAE
VP230	3.0 CFM, 85 L/min	3.6 CFM, 102 L/min	2x10 <sup>-3</sup> Pa	15 micron	3/4	2880	1/4" SAE
VP245	4.5 CFM, 127 L/min	5.4 CFM, 153 L/min	2x10 <sup>-3</sup> Pa	15 micron	4/5	2880	1/4" SAE
VP265	6.5 CFM, 184 L/min	7.8 CFM, 221 L/min	2x10 <sup>-3</sup> Pa	15 micron	1	2880	1/4" SAE
VP285	8.0 CFM, 226 L/min	9.6 CFM, 272 L/min	2x10 <sup>-3</sup> Pa	15 micron	1	2880	1/4" SAE
VP2100	10.0 CFM, 283 L/min	12 CFM, 340 L/min	2x10 <sup>-3</sup> Pa	15 micron	1	2880	1/4" SAE

## R32, 1234yf Vacuum Pump

Explosion-proof, High power brushless motor



Part No.	Capacity at 220V/50Hz	Capacity at 110V/60Hz	Ultimate Vacuum		Motor Power (hp)	Motor Speed (rpm)	Intake Fitting (inch)
			Partial Pressure	Total Pressure			
VPG165(SG)	6.5 CFM, 184 L/min	7.8 CFM, 221 L/min	2 Pa	150 micron	3/4	2880	1/4" SAE
VPG180(SG)	8.0 CFM, 226 L/min	9.6 CFM, 272 L/min	2 Pa	150 micron	4/5	2880	1/4" SAE
VPG1100(SG)	10.0 CFM, 283 L/min	12 CFM, 340 L/min	2 Pa	150 micron	1	2880	1/4" SAE
VPG265(SG)	6.5 CFM, 184 L/min	7.8 CFM, 221 L/min	2x10 <sup>-3</sup> Pa	15 micron	4/5	2880	1/4" SAE
VPG280(SG)	8.0 CFM, 226 L/min	9.6 CFM, 272 L/min	2x10 <sup>-3</sup> Pa	15 micron	1	2880	1/4" SAE
VPG2100(SG)	10.0 CFM, 283 L/min	12 CFM, 340 L/min	2x10 <sup>-3</sup> Pa	15 micron	1	2880	1/4" SAE

## Power Supply Plugs



A01 Europe Plug    A02 Europe Plug    A03 Europe Plug    A04 Europe Plug    A05 American Plug    A06 Taiwan Plug    A07 Australia Plug    A08 Europe Plug



Refrigerant Recovery Unit



220V/50Hz, 1/2HP AC, 10A, oil-less, Air-cooled, 2 Piston style

Part No.: RR-229					
Refrigerant gas	category I	R12 R134A R401C R406A R500			
	category II	R22 R401A R401B R402B R407C R407D R408A R409A R411A R411B R412A R502 R509			
	category III	R402A R404A R407A R407B R410A R507			
Recovery rate (kg/min)		category IV	category V	category VI	
	Gas	0.5kg/min	0.6kg/min	0.6kg/min	
	Liquid	3.0kg/min	4.0kg/min	4.0kg/min	
Push/Pull	8.0kg/min	8.5kg/min	10.0kg/min		



10A, oil-less, Air-cooled, 4 Piston style

Part No.: RR-230					
Refrigerant gas	category I	R12 R134A R401C R406A R500			
	category II	R22 R401A R401B R402B R407C R407D R408A R409A R411A R411B R412A R502 R509			
	category III	R402A R404A R407A R407B R410A R507			
Recovery rate (kg/min)		category IV	category V	category VI	
	Gas	0.26kg/min	0.28kg/min	0.26kg/min	
	Liquid	1.8kg/min	1.9kg/min	2.0kg/min	
Push/Pull	9.28kg/min	6.2kg/min	6.4kg/min		



6A, oil-less, Air-cooled, 2 Piston style

Part No.: WK-520					
Refrigerant gas	category I	R12 R134A R401C R406A R500			
	category II	R22 R401A R401B R402B R407C R407D R408A R409A R411A R411B R412A R502 R509			
	category III	R402A R404A R407A R407B R410A R507			
Recovery rate (kg/min)		category IV	category V	category VI	
	Gas	0.46kg/min	0.50kg/min	0.52kg/min	
	Liquid	3.14kg/min	3.62kg/min	3.7kg/min	
Push/Pull	9.28kg/min	11.04kg/min	12.44kg/min		



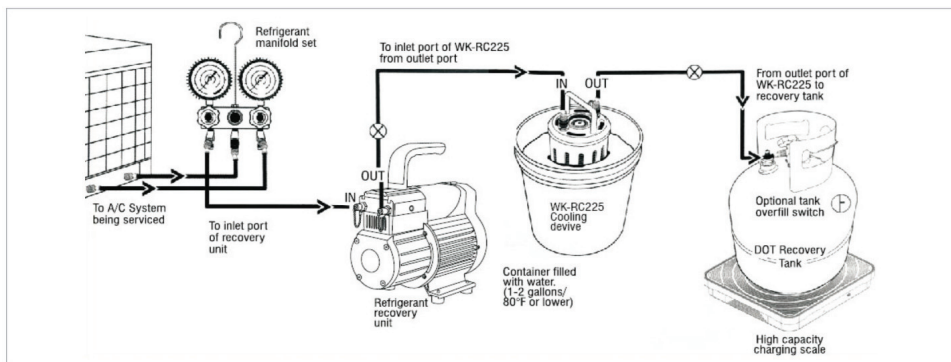
WK-225



Refrigerant cooling device WK-RC225

Recovery Machine

Part No.: WK-225				
Part No.	Push/Pull	Liquid	Vapor	High Temp Vapor (°104F)
Recovery rate		kg/min		
R22	14.3	4.02	0.271	0.39
R134a	11.64	3.54	0.228	N/A
R407C	13.22	4.31	0.243	N/A
E410A	14.38	5.42	0.319	0.37



Manifold



Part No.	Description
FC-136G	aluminium body, sight glass, 2 gauges, 336RYB hose.
FC-R136G	aluminium body, sight glass, 2 gauges, with rubber boots, 336RYB hose.
FC-N136G	aluminium body, sight glass, 2 gauges, with rubber boots, 336RYB hose.
FC-436G	aluminium body, sight glass, 2 gauges, 336RYB hose.
FC-536G	brass body, sight glass, 2 gauges, 336RYB hose.
FC-636G	brass body, 2 gauges, 336RYB hose.

Digital Manifolds



FC-DM01

**Feature:**  
 Applied CFCs, HCFCs, HFCs refrigerant.  
 Accurate superheat and sub-cooling temperature display.  
**High side pressure display range:** 0psig to 725 psig.  
**Low side pressure display range:** 0psig to 435 psig.  
**Vacuum display range:** 29.2 in. Hg to 0 in.Hg.  
**Temperature display range:** -40°F to 203°F (-40°C to 95°C).

Description
2Valve Digital manifolds + 3 pcs of charge hose. Working pressure, 800PSI, Burst. 4000PSI + 1pc of 9V Battery + 2pcs of temperature sensor + 1 pc of vacuum sensor + 1pc of suitcase.

R1234YF Manifolds



FC60-1234MK

**Feature:**  
 High quality aluminum alloy valve body.  
 Gentle and comfortable design hard knob structure.  
 Prevalent streamline design pressure gauge.  
 Durable product quality.

Description
Manifold Gauge Set Aluminum Valve Body Connection:M12-1.5 60" charging hose. 800-4000PSI

Refrigerant Charging Scale



Part No.	RCS-7040	RCS-N9030 with auto-charge	LMC-100	LMC-300 with auto-charge
Capacity	100KGS/220LB	100KGS/220LB	70KGS/154LB	100KGS/220LB
Accuracy	±0.5% of reading ±1 least	±0.5% of reading ±1 least	±0.05% rdg+10g	±0.05% rdg+10g
Resolution	±5g/0.010 LB/0.25 OZ	±0.25 OZ/5G	±0.25 OZ/5G	±0.125 OZ/2.5G
Platform size	223mm x 223mm	223mm x 223mm	230mm x 230mm	271mm x 271mm x 74mm
Power	5 x 1.5V alkaline battery(7.5VDC)	5 x 1.5V alkaline battery(7.5VDC)	5 AAA batteries	5 AAA batteries
Battery life	30 hours continuous use	60 hours continuous use	60 hours continuous use	60 hours continuous use



Charging Hose



336RYB



M-336RYB



E-336RYB

Part No.	Size	Connection	Description
336RYB-B	3-36"	1/4" SAE	
360RYB-B	3-60"	1/4" SAE	600-3000psi, for R22, R134a, R404a, R407c, R507
372RYB-B	3-72"	1/4" SAE	
M-336RYB-B	3-36"	1/4" SAE	600-3000psi, for R22, R134a, R404a, R407c, R507, with ball valves in the middle of hose.
M-360RYB-B	3-60"	1/4" SAE	
M-372RYB-B	3-72"	1/4" SAE	
E-336RYB-B	3-36"	1/4" SAE	600-3000psi, for R22, R134a, R404a, R407c, R507, with ball valves in the end of hose.
E-360RYB-B	3-60"	1/4" SAE	
E-372RYB-B	3-72"	1/4" SAE	

Part No.	Size	Connection	Description
336RYB-C	3-36"	1/4" or 5/16" SAE	
360RYB-C	3-60"	1/4" or 5/16" SAE	800-4000psi, for R32, R410a
372RYB-C	3-72"	1/4" or 5/16" SAE	
M-336RYB-C	3-36"	1/4" or 5/16" SAE	800-4000psi, for R32, R410a with ball valves in the middle of hose.
M-360RYB-C	3-60"	1/4" or 5/16" SAE	
M-372RYB-C	3-72"	1/4" or 5/16" SAE	
E-336RYB-C	3-36"	1/4" or 5/16" SAE	800-4000psi, for R32, R410a with ball valves in the end of hose.
E-360RYB-C	3-60"	1/4" or 5/16" SAE	
E-372RYB-C	3-72"	1/4" or 5/16" SAE	

\* 1/2" ACME or other connection size available upon customer requirements

Color-coded Pressure and Compound Gauge



Part No.	Description
RG-250	Blue compound 30" -0-250 PSI, class 2.5, connection, bottom 1/8" NPT, 2-3/4" dia
RG-500	Red pressure 0-500PSI, class 2.5, connection bottom 1/8" NPT, 2-3/4" dia
250-GF	Compound filled glycerine 30" -0-250 PSI class 1.6, connection back 1/4" SAE, 2-3/4" dia, stainless steel frame
500-GF	Pressure filled glycerine 0-500 PSI, class 1.6, connection back 1/4" SAE, 2-3/4" dia, stainless steel frame
250B-GF	Compound filled glycerine 0-250 PSI, class 1.6, connection bottom 1/8" NPT, 2-3/4" dia, stainless steel frame
500B-GF	Pressure filled glycerine 0-500PSI, class 1.6, connection bottom 1/8"NPT, 2-3/4" dia, stainless frame
PG-30L	R22, R290, R32, R404A, R407C, R134A, R410A... Build-in 78 refrigerants 1/8NPT, 0-500psi, Mpa, kPa, bar, psi, kgf/cm <sup>2</sup> , mmHg
PG-30H	R22, R290, R32, R404A, R407C, R134A, R410A... Build-in 78 refrigerants 1/8NPT, 0-800psi, Mpa, kPa, bar, psi, kgf/cm <sup>2</sup> , mmHg

Automotive Quick coupler



Part No.	Description
QC-12	1/4" SAE
QC-15	1/4" SAE
QC-L	Connection: 14mm 1/4" male nut
QC-H	Connection: 14mm 1/4" male nut
QC-LA	1/4" SAE
QC-HA	1/4" SAE
QL-1234 / QH-1234	Connection: M12*1.5 1/4" male nut Application: R1234fy

New Quick Coupler: Direct Plug-In, Self-hermetic



Part No.	Description
QX-12	1/4" SAE
QX-15	1/4" SAE
QX-L	Connection: 14mm 1/4" male nut
QX-H	Connection: 14mm 1/4" male nut
QX-LA	1/4" SAE
QX-HA	1/4" SAE
QXL-1234 / QXH-1234	Connection: M12*1.5 1/4" male nut Application: R1234fy

Hose-seal, Gasket & Core Kit

CH-236



Part No.	QTY	Description
CH-9520C	10	Valve Cores
CH-9800	10	R134 Valve Cores
CH-L08	5	8mm Low Side
CH-VO66	5	For peugeot/Volvo
CH-H10	5	10mm High Side
CH-GMH	5	For GM High
CH-1213P	1	Valve Core remover

CH-237



Part No.	QTY	Description
CH-1213AL	1	Valve Core remover
CH-9520C	10	Valve Core
CH-9800	10	R134 Valve Core
OR9134-4	10	R410 5/16" SAE Hose Gasket
OR501-3	30	R12 1/4" SAE Hose Gasket
OGB79583	10	1/4" SAE Depressor

CH-238



Part No.	QTY	Description
ORQCL-3	10	for QC-L
ORQCH-3	10	for QC-H
ORQC-3	10	for QC-12L
ORQC-4	10	for QC-12H
OR340-2	10	for QC-340
OR146	10	for QC-146 CA-04x06 CA-04x08
ORVCR	10	for VCR-04
OR501-3	15	for R12 1/4" SAE Hose Gasket
OR9134-4	10	for R10 5/16" SAE Hose Gasket
OR501-3H	15	for R134 1/4" SAE Hose Gasket

CH-239



Part No.	QTY	Description
CH-1213AL	1	Valve Core remover
CH-9523C	10	Valve Core
OGB79583P1	10	1/4" SAE Depressor
OR9134-4	10	R410 5/16" SAE Hose Gasket
OR501-3	30	R12 1/4" SAE Hose Gasket
OGB79583	10	1/4" SAE Depressor

Dye and Oil Injector



FC-UV01L



FC-UV02L

Valve core tool



VC15

Oil Charging pump



PCO-1



PCO-2



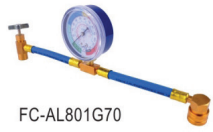
PCO-4



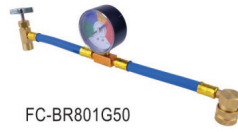
VC183



Automotive Refrigerant Charging Tools



FC-AL801G70



FC-BR801G50



FC-BR801G70

Automotive Adapter Kit

Part No.	Description
FC-01A (CH-135)	Complete kit: red hose, blue hoses & 3pcs 90 adapter
FC-01B (CH-138)	Complete Kit: red hoses, blue hoses & 3pcs 90 adapter & 3pcs connectors



FC-01A (CH-135)

FC-01B (CH-138)

Single Gauge Valve



FC-466G



FC-467G



FC-468G

Part No.	Description
FC-466G	Charging and testing unit
FC-467G	Aluminium body
FC-468G	Aluminium body with sight glass



FC-470



FC-471L



FC-471H

Part No.	Description
FC-470	Aluminium body with sight glass, low pressure gauge
FC-471L	Aluminium body, low pressure gauge
FC-471H	Aluminium body, high pressure gauge

Can Tap Valve



Part No.	Description
FC-334	Refrigerant can tap valve, 1/4" SAE outlet valve bottom and female thread with 1/2"-16UNF SAE can thread.
FC-335	Refrigerant can tap valve, 1/4" SAE outlet valve bottom and female thread fitted with 1/4" SAE can thread.
FC-336	Refrigerant can tap valve, 1/4" SAE outlet valve bottom and female thread fitted with 7/16"-27UNF can thread.
FC-337	Refrigerant can tap valve, 1/4" SAE outlet valve bottom and female thread fitted with 7/16"-27UNF can thread.
FC-338	Refrigerant can tap valve, 1/4" SAE outlet valve bottom and female thread fitted with 12mmx1.25 can thread.
FC-339	Refrigerant can tap valve, 1/4" SAE outlet valve bottom and female thread fitted with 14mmx1.25 can thread.
FC-340	Refrigerant can tap valve for both R12 & R134a.
FC-1020	Support 1 kg GAS can, 1/4" SAE - Mx1/4" SAE-F.

Quick Coupler



WX-02 Connection 1/4"  
Rotate Quick Coupler

Ball valve for charging-hose



Part No.	Description
BC-01	1/4" M*5/16"F
BC-02	5/16" M*1/4"F
BC-03	1/4" M*1/4"F

Piercing Valve



Part No.	Tubing Size O.D.
PV-1	1/4", 5/16", 3/8"
PV-341	3/16"-3/8"

Refrigerant Gas Leak Detector

R1234yf  
R290  
R600a  
R32



LD-200

- LD-200 Leak Detector offers the greatest sensitivity and fastest response of refrigerante leaks.
- Refrigerant: CFC, HCFC, HFC, HC, HFO etc.
- Sensitivity: 3g (0.1 Oz)/year
- Power supply: Rechargeable Lithium battery 3000mAh
- Warm-up time: 30s
- Response time: < 3s
- Certificate & Approval: CE Rohs, SAF J2791, SAF J2913

CO2



LD-C02

- LD-C02 is the most technologically advanced of its kind. The fully automatic LD-C02 low power requirements, small size and high sensitivity 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, CO2
- Sensitivity: 400-4000ppm
- Power supply: Rechargeable Lithium battery 3000mAh
- Warm-up time: 30s
- Response time: < 3s
- Certificate & Approval: CE Rohs, SAE J2791, SAE J2913



HLD-101

- Detects all halogenated refrigerants
- Detect once power on, no need manual-adjustment
- Vari-speed sensitivity adjustment
- Enter into the best state of detecting automatically while adjusting the sensitivity.
- Tricolor battery voltage indication
- Equipped with quality sensor, high sensitivity, 6gr/yr
- Inner precise IC with ultra-low consume circuit design, more stable, longer battery time.



HLD-102

Dimensions	17CMx8CMx3.8CM
Batteries	2x1.5V AA
Battery Life	Alkaline Batteries (3VDC) 40hours
Sensitivity	<3G/year (0.1 oz/yr)
Sensor Lifetime	Approx. 30hours
Operation Temperature	+32--+122°F(0--+50°C)
Warm up time	<2 SEC
Response time	Instantaneous
Reset time	Instantaneous
Probe Length	12" (30cm)



HLD-201

Dimensions	22.9CMx6.5CMx6.5CM
Batteries	2x1.5V AA
Battery Life	Alkaline Batteries (3VDC) 40hours
Sensitivity	<3G/year (0.1 oz/yr)
Sensor Lifetime	Approx. 30hours
Operation Temperature	+32--+122°F(0--+50°C)
Warm up time	<10 SEC
Response time	Instantaneous
Reset time	Instantaneous
Probe Length	14" (33.5cm)



HLD-202

Dimensions	22.9CMx6.5CMx6.5CM
Batteries	2x1.5V AA
Battery Life	Alkaline Batteries (3VDC) 40hours
Sensitivity	<3G/year (0.1 oz/yr)
Sensor Lifetime	Approx. 30hours
Operation Temperature	+32--+122°F(0--+50°C)
Warm up time	<10 SEC
Response time	Instantaneous
Reset time	Instantaneous
Probe Length	14" (33.5cm)

Clamp Meter



FC-2017



UT-202



FC-266



FC-260D

Part No.	AC Current	AC Voltage	Resistance
FC-2017	200/600A ±(2.0%rdg+5dgt)	200/600A ±(1.5%rdg+5dgt)	200Ω ±(1.5%rdg+5dgt)
UT-202	2/20/200/400A ±(2.0%rdg+5dgt)	2/20/200/600V ±(1.5%rdg+5dgt)	200/2K/20K/2M/20M ±(1.0%rdg+3dgt)
FC-266	200/1000A ±(2.0%rdg+5dgt)	750V ±(1.0%rdg+5dgt)	200/20KΩ ±(1.0%rdg+2dgt)
FC-260D	200/1000A ±(2.0%rdg+5dgt)	200/750V ±(1.0%rdg+5dgt)	200/2K/20K/2M/20MΩ ±(1.0%rdg+3dgt)



Digital Multimeter



UT-33D



UT-139C



FC-2010



FC-838



FC-830L

Part No.	DC Current	AC Voltage	Resistance	DC Voltage
UT-33D	2m/20m/200m/10A	200/200V	200/2000/20k/200k/20M/200M	0.2/2/20/200/500V
UT139C	600μA/6000μA/60mA/600mA/6A/10A	6V/60V/600V	600Ω/6KΩ/60KΩ/600KΩ/6MΩ/60MΩ	600mV/6V/60V/600V
FC-2010	2m/20m/200m/10A	200/600V	200/2000/20k/200k/2M/200M	200m/2/20/200/600V
FC-838	2000u/20m/200m/10A	200/750V	200/2000/20k/2000k	200m/2000m/20/200/1000V
FC-830L	2m/20m/200m/10A	200/750V	200/2000/20k/200k/2000k	200m/2/20/200/600V



UT-300A Infrared Thermometer

Temperature Range: -18C~280°C  
Repeat precision: ±0.5°C  
Resolution: 0.1°C  
Distance to spot size: 10:1  
Response Time: 500mS  
Emissivity: 0.95



AM-4836V

Range: 0.4~45.0 ±(2%n+0.1m/s)  
Operating Temperature: 0~60°C  
Function: Auto power-off, Data hold, wind sleep, units Switch, Auto Record time setup, Low Battery Display, Display Backlight



UT-391 Distance meter

Accuracy: ±2mm  
Measuring Distance(m): 0.05~60m  
Unit: m/in/ft  
Laser Class: 620~680nm, <1mw  
Multiple Lines Display: 3 lines  
Auto Power Off: around 3 minutes



KS-7115 Capacitance testers

Display: 19 Power: 9Vx1(6F22)  
Test pen: Part No: Ks-3008  
Weight: Aprox. 315g including battery  
Dimension: 170(L)x80(W)x50(H)mm  
Standard Quantity Per Carton: 40PCS  
Standard Carton Measurement: 540x375x240mm  
Standard Carton Gross Weight: 18Kg

Mini Series

Mini Infrared Thermometer



UT300S

Temperature: -32°C~400°C

Mini Temperature & Humidity Meter



UT333

Humidity: 0~99%RH  
Temperature: -10~60°C

Mini Sound Meter



UT353

Noise: 30~130dB

Mini Anemometer



UT363

Wind Speed: 0~30m/s



FC-VG89

Digital programmable Vacuum Meter

Part No.	FC-VG89
Vacuum range	1000pa~0.01pa (7500~0.075Microns)
Operating Temperature range	-40°C~45°C
Battery model	4 x 1.5V batteries
Battery life	300 hours of using
Vacuum meter units	pa, mBar, mmHg, mTorr, inHg, Micron

Tubing Tool Kit

\* Please order according to packing condition



12 PCS/CTN  
CT-275L



10 PCS/CTN  
CT-278L



10 PCS/CTN  
CT-808FT-L



5 PCS/CTN  
CT-400A-L



10 PCS/CTN  
WK-809AM

Part No.	Description	CapaCity
CT-275L	Flaring & swaging tool kit	1/8", 3/16", 1/4", 5/16", 1/2", 5/8", & 3/4" O.D. tubing and 5 swaging adaptors which cover 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", & 3/4" O.D.
CT-278L	CT-275 & CT274 & CT-122	see above
CT-808FT-L	flaring tool and CT-532 & CT-207	3/16", 1/4", 5/16", 3/8", 1/2", 5/8", & 3/4" O.D. tubing and 5mm, 6mm, 8mm, 10mm, 12mm, 16mm & 19mm O.D. tubing
CT-400A-L	Hydraulic expander & flaring tools	3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" & 7/8" O.D. tubing
WK-809AM	Flaring Tool	For inch and metric: 6mm, 1/4", 5/16"(8mm), 3/8", 10mm, 12mm, 1/2", 5/8"(16mm) & 3/4" (19mm) O.D.



5 PCS/CTN  
CT-100



5 PCS/CTN  
CT-300



5 PCS/CTN  
CT-999



10 PCS/CTN  
CT-519FT-L



10 PCS/CTN  
CT-808AM-L

Part No.	Description	CapaCity
CT-100A	Tubing tool kit	Expander heads: 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", FC-312 & FC-208
CT-100M	Tubing tool kit	Expander heads: 10, 12, 16, 19, 22, 25, 28mm, FC-312 & FC-208
CT-300A	Tubing tool kit	Expander heads: 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", FC-312 & FC-208
CT-300M	Tubing tool kit	Expander heads: 10mm, 12mm, 16mm, 19mm, 22mm, 25mm, 28mm, FC-312 & FC-208
CT-999	Bender kit	Expander heads: 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" & 7/8" O.D.
CT-519FT-L	Tubing tool kit	For 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", O.D. Tubing and 6mm, 8mm, 10mm, 12mm, 16mm, 19mm, O.D.
CT-808AM-L	45 Eccentric Cone Type Flaring Tools	For inch: 1/4", 5/16", 3/8", 1/2", 5/8", & 3/4" O.D. Tubing (6mm, 8mm, 12mm, 16mm & 19mm, O.D. Tubing

Flaring & Swaging Tools



40 PCS/CTN  
CT-193



50 PCS/CTN  
CT-94



50 PCS/CTN  
CT-95



28 PCS/CTN  
CT-195



30 PCS/CTN  
CT-525F



24 PCS/CTN  
CT-622

Part No.	Description	CapaCity
CT-193	Set of swaging punches	1/4", 5/16", 3/8", 1/2" & 5/8"
CT-94	3-in-1 swaging punch	1/2", 5/8" & 7/8"
CT-95	5-in-1 swaging punch	1/4", 5/16", 3/8", 1/2" & 5/8"
CT-195	Flaring tool	3/16", 1/4", 5/16", 3/8", 7/16", 1/2" & 5/8" O.D. Tubing
CT-525F	Flaring tool	5-16mm or 3/16"- 5/8" O.D. Tubing
CT-622	Tube expander	6mm, 8mm, 9mm, 10mm, 12mm, 14", 5/16", 3/8", 1/2", 5/8", 3/4" & 7/8" O.D.



**Tube Cutter** \* Please order according to packing condition

220 PCS/CTN	100 PCS/CTN	72 PCS/CTN	56 PCS/CTN	42 PCS/CTN					
Part No.	Description	Part No.	Description	Part No.	Description	Part No.	Description	Part No.	Description
CT-127	For 1/8"-5/8" O.D	CT-174	For 3/8"-1-1/8" O.D	CT-274	For 1/8"-1-1/8" O.D	CT-312	For 1/4"-1-5/8" O.D	CT-107	For 1/4"-2" O.D

**Tube Cutter (Roller Type)** \* Please order according to packing condition

120 PCS/CTN	78 PCS/CTN	32 PCS/CTN	32 PCS/CTN	15 PCS/CTN					
Part No.	Description	Part No.	Description	Part No.	Description	Part No.	Description	Part No.	Description
CT-319	For 1/8"-3/4" O.D	CT-428	For 3/16"-1-1/8" O.D	CT-532	For 3/16"-1-1/4" O.D	CT-650	For 1/4"-2" O.D	CT-670	For 1/4"-2-3/4" O.D

**Lever Type Tube Bender**

\* Please order according to packing condition

CT-N368-180      CT-364M

Part No.	Qty/Ctn	O.D.Tubing	Description
CT-364A-06	24 PCS/CTN	3/8"	Bend radius 23mm
CT-364A-08	12 PCS/CTN	1/2"	Bend radius 35.8mm
CT-364A-10	6 PCS/CTN	5/8"	Bend radius 54.4mm
CT-364A-12	6 PCS/CTN	3/4"	Bend radius 75.3mm
CT-364A-14	6 PCS/CTN	7/8"	Bend radius 82.1mm
CT-364M-08	12 PCS/CTN	12mm	Bend radius 35.8mm
CT-364M-10	6 PCS/CTN	16mm	Bend radius 54.4mm
CT-364M-12	6 PCS/CTN	19mm	Bend radius 75.3mm
CT-364M-14	6 PCS/CTN	22mm	Bend radius 82.1mm
CT-N368-180	40 PCS/CTN	1/4", 5/16" & 3/8"	3-in-1 180° Bend radius 24mm

**Tube Bender**

CT-102

Part No.	O.D. Tubing	Description
CT-102-04	1/4"	Spring bender, length 10"
CT-102-05	5/16"	Spring bender, length 10"
CT-102-06	3/8"	Spring bender, length 10"
CT-102-08	1/2"	Spring bender, length 12"
CT-102-10	5/8"	Spring bender, length 14"
CT-102-12	3/4"	Spring bender, length 14"

**Other Tubing Tools**

Part No.	Description
PTC-01	Capillary tube cutter for 1mm-3mm O.D.
PTC-02	Cutter for all sizes of capillary tube without collapsing or swaging the tubes
CT-207	Handy deburrer, Blade can be sevelled.
CT-208	Inner-outer reamer, plastic body, 3/16" to 1/2"
CT-351	Fin straightener; 8, 9, 10, 12, 14 & 15 spacing per inch
CT-352	Steel fin straightener

**Other Tubing Tools**

CT-201B	CT-122	CT-123	CT-501	CT-502	CT-503
Part No.	Description	Part No.	Description	Part No.	Description
CT-201B	7" Pinch-off-plier	CT-122	1/4", 3/8", 3/16" & 5/16" square ratchet wrench	CT-501	32mm Inspect Mirror Lngth: 127-500mm
CT-123	1/4", 3/16" square & 9/16", 1/2" hex ratchet wrench	CT-502	50mm Inspect Mirror Lngth: 200-410mm	CT-503	Pick up tool Lngth: 126-637mm

**Electric Cordless Flaring Tool**

CT-E806AM-L  
5 PCS/CTN

Part No.	Description
WK-E806AM+WK-532 +CT-207+Spare battery+Charger(9.6V) +2 Steel bar	For inch: 1/4", 5/16", 3/8", 1/2", 5/8" & 3/4" O.D. Tubing 6mm, 8mm, 10mm, 12mm, 16mm & 19mm O.D. Tubing Packed in hand carrying plastic case.

**Technical Parameter**

Part No.	Description
WK-E806AM+WK-532 +CT-207+Spare battery+Charger(9.6V) +2 Steel bar	For inch: 1/4", 5/16", 3/8", 1/2", 5/8" & 3/4" O.D. Tubing 6mm, 8mm, 10mm, 12mm, 16mm & 19mm O.D. Tubing Packed in hand carrying plastic case.

**Tee-Extractor Sets**

CT-T800  
5 PCS/CTN

Extractor Heads Size							
10mm	12mm	16mm	19mm	22mm	25mm	28mm	32mm
3/8"	1/2"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"

**Hydraulic Hose Compressing Tools**

Heavy Duty Compressing Tools  
Fast & Convenient

CT-700  
5 PCS/CTN

Part No.	Description
CT-700	CT-700+7PCS Includes tablet compressing #6, #8, #10, #12, #5SRB, #8SRB, #10SRB, #12SRB O.D. Tubing Packed in hand carrying plastic case.

**Technical Parameter**

Part No.	Description
CT-700	CT-700+7PCS Includes tablet compressing #6, #8, #10, #12, #5SRB, #8SRB, #10SRB, #12SRB O.D. Tubing Packed in hand carrying plastic case.

**Capillary Tube Cleaner**

CTC-20

**Description:**  
CTC-20 is a portable, self contained hydraulic power unit with auxiliary equipment especially adapted to cleaning refrigeration capillary tubes. A 0-20 MPa gauge shows pressure build-up if cap tube is restricted and also shows when chaser has passed through the tube. A trigger operated gauge shutoff is provided so the gauge will not be damaged if pressures greater than 25MPa are desired.





# 8 WELDING TOOL

**FavorCOOL<sup>®</sup>**

QUALITY DELIVERED



## Welding Gas



Part No.	Description
MAPP	CGA600 connection, 16 oz/cylinder



Part No.	Description
Propane	CGA600 connection, 14 oz/cylinder



Part No.	Description
Oxygen	CGA600 connection, 1.4 oz/cylinder

## Welding Torch \* Please order according to packing condition



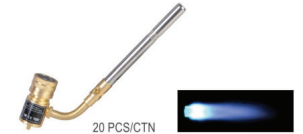
20 PCS/CTN  
**T-AM**

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Adjustable Flame
- Self-ignition
- Mini torch



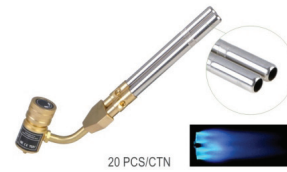
20 PCS/CTN  
**T-A**

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Adjustable Flame
- Self-ignition
- 360° swivel tube



20 PCS/CTN  
**T-B**

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Adjustable Flame
- 360° swivel tube



20 PCS/CTN  
**T-2B**

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Adjustable Flame
- 360° swivel tube
- Double tube flame, welded large copper tube.



20 PCS/CTN  
**T-3B**

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Adjustable Flame
- 360° swivel tube
- Triple tube flame, welded large copper tube.



10 PCS/CTN  
**T-CA**

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Adjustable Flame.
- Self-ignition.
- 1.5 meters hose.



10 PCS/CTN  
**T-C2A-2F**

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Adjustable Flame.
- Self-ignition.
- 1.5 meters hose.
- Switch to control single tube flame or double tube flame.
- 2 in 1 torch for 6-16mm(single flame) and 16-28mm(dual flame).



15 PCS/CTN  
**T-CD**

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Adjustable Flame.
- 1.5 meters hose.
- For welding large copper tube up to 38mm.



## Tool kit



HCW-1411

- Content:**
- 1 pc empty cylinder 2L for Oxygen
  - 1 pc Mapp gas (optional)
  - 1 pc of Oxygen Regulator
  - 1 pc of Fuel gas Regulator
  - 1 pc 2L of Oxygen Empty Regulator



- 1 pc of Welding Torch
- 1 set of 1.5m Twin hose
- 2pcs of Welding Nozzle
- 1 pc of Sparker
- 1 pc Plastic Case



HCW-1704

- Content:**
- 1. Oxygen cylinder-4L
  - 2. Oxygen switch
  - 3. Oxygen pressure reducer
  - 4. Oxygen pressure gauge
  - 5. Oxygen crossover
  - 6. Fuel Ges cylinder-4L
  - 7. Fuel-gas pressure reducer
  - 8. Welding Torch
  - 9. Oxygen hose (red)
  - 10. Oxygen hose (black)
  - 11. Fuel-gas crossover

HCW-11

- Content:**
- 1. Oxygen cylinder -2L
  - 2. Fuel Gas Cylinder-0.6L with connection ZG1/4"-19
  - 3. Inner Diameter of connection hose - 4mm
  - 4. with Anti-backfire device
  - 5. Torch for welding purpose
  - 6. Plastic Case



HCW-111

- Content:**
- 1. Oxygen cylinder -2L
  - 2. Fuel Gas Cylinder-0.6L with connection ZG1/4"-19
  - 3. Inner Diameter of connection hose - 4mm
  - 4. with Anti-backfire device
  - 5. Torch for welding purpose
  - 6. Alum-Alloy case

HCW-22

- Content:**
- 1. Oxygen cylinder -2L
  - 2. Fuel Gas Cylinder-0.6L
  - 3. Inner Diameter of connection hose - 4mm
  - 4. with Anti-backfire device
  - 5. Torch for welding & cutting purpose
  - 6. Plastic Case



HCW-122

- Content:**
- 1. Oxygen cylinder -2L
  - 2. Fuel Gas Cylinder-0.6L
  - 3. Inner Diameter of connection hose - 4mm
  - 4. with Anti-backfire device
  - 5. Torch for welding & cutting purpose
  - 6. Alum-Alloy case

## Welding Torch \* Please order according to packing condition



**H01-6A**  
French Type Welding Torch  
20 PCS/CTN



**H01-6B**  
French Type Welding Torch  
20 PCS/CTN



**H01-6C**  
French Type Welding Torch  
20 PCS/CTN



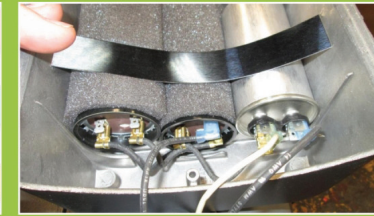
**H01-6F**  
French Type Welding Torch  
20 PCS/CTN



**H02-6**  
Switzerland Type Welding Torch  
20 PCS/CTN



**H01-6**  
Japanese Type Welding Torch  
20 PCS/CTN



# 9 ELECTRICAL PARTS

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**FavorCOOL<sup>®</sup>**

QUALITY DELIVERED





**BC Series Run Capacitors (CBB65)**

Available Round or Oval  
The widest selection of ratings  
Non-PCB capacitors

**Specifications**

Part No.	3(μF)~80(μF)	
Reference Standard	GB/T 3667.1-2005, IEC 60252-1, UL810	
Climatic Category	40/70/21	
Capacitance Tolerance	±5%, ±10%, ±15%	
Dissipation Factor	≤0.002(100Hz, C≤10μF) ≤0.006(100Hz, C≤33μF) ≤0.008(100Hz, C>33μF)	
Insulation Resistance (IR×CN)	≥3000MΩ	
Voltage Proof	Between Terminals	2Un(2s)
	Between Terminals And Case	2000V(60s)
Rated Voltage (UN)	250/300/400/450/500/560V	
Rated Frequency (fN)	50/60Hz	
Class of Operation	Class C ( 3000h )	



Class of Safety Protection	S1(P1)
Flame Retardant Grade	UL94V-0
Leading-out Structure	Terminal or Wire
Safety Approvals	CQC, TÜV, UL
Inductance	16-60μH
Storage Temperature	-40°C~70°C
Capacitance Range (CN)	1μF~110μF
Maximum Permissible Operating Voltage	1.1U <sub>n</sub>

**CBB61 Series Run Capacitors**

Capacitor for motor From 1μF~10μF  
Voltage 250V or 450V/feature



**Specifications**

Reference Standard	GB/T 3667.1-2005, IEC 60252-1	
Climatic Category	40/70/21	
Capacitance Tolerance	±5%, ±10%, ±15%	
Dissipation Factor	≤0.002(100Hz, 20°C)	
Insulation Resistance (IR×CN)	≥3000MΩ	
Voltage Proof	Between Terminals	2Un(2s)
	Between Terminals And Case	2000V(60s)

Rated Voltage (UN)	450/500V
Rated Frequency (fN)	50/60Hz
Class of Operation	Class C ( 3000h )
Class of Safety Protection	S0(P0)
Flame Retardant Grade	UL94V-0
Leading-out Structure	Terminal or Wire
Safety Approvals	CQC, TÜV
Storage Temperature	-40°C~70°C
Capacitance Range (CN)	0.5μF~35μF
Maximum Permissible Operating Voltage	1.1U <sub>n</sub>

**CBB Series Run Capacitors (CBB60)**

**Specifications**

Part No.	4(μF)~30(μF)	
Reference Standard	GB/T 3667.1-2005, IEC 60252-1, UL810	
Climatic Category	40/70/21, 40/85/21	
Capacitance Tolerance	±5%, ±10%, ±15%	
Dissipation Factor	≤0.002(100Hz, C≤10μF) ≤0.006(100Hz, C≤35μF) ≤0.008(100Hz, C>35μF)	
Insulation Resistance (IR×CN)	≥3000MΩ	
Voltage Proof	Between Terminals	2Un(2s)
	Between Terminals And Case	2000V(60s)
Rated Voltage (UN)	250/300/400/450/500/560V	
Rated Frequency (fN)	50/60Hz	
Class of Operation	Class C ( 3000h ), Class B ( 10000h )	
Class of Safety Protection	S0(P0)	
Flame Retardant Grade	UL94V-0	



Leading-out Structure	Terminal or Wire
Safety Approvals	CQC, TÜV, CUL
Inductance	10-60μH
Storage Temperature	-40°C~70°C, -40°C~85°C
Capacitance Range (CN)	1μF~110μF
Maximum Permissible Operating Voltage	1.1U <sub>n</sub>

**MS Series Start Capacitors (CD60)**



**Feature**

- Plastic Case, Moisture and Oil Resistant
- Voltage from 110 VAC-330 VAC
- SEA-1 Meets EIA Type 1 Specifications
- SEA-2 Meets EIA Type 2 Specifications
- UL Recognized Capacitors

**Specifications**

Operating Temperature	-45°C~+65°C
Voltage Range	110-330VAC
Capacitance Range	21-1800μF
Capacitance Tolerance	-0%~+20%
Operating Frequency	50-60Hz
Case Size	8 Standard Sizes from 1.437" x 2.750" - 2.562" x 4.365"
Termination	1/4" Quick Disconnect Terminals (Std.)
Meets Requirements of EIA-463-A	SEA-1 Meets Type 1, Heavy Duty, Specifications SEA-2 Meets Type 2, Standard Duty, Specifications

**Super Starters**



SPP-5 / 6 / 8

SPP-5		SPP-6		SPP-8	
BRAND	REFERENCE PART NO.	BRAND	REFERENCE PART NO.	BRAND	REFERENCE PART NO.
MARS	32701	MARS	32702	KICKSTART	TO5
ROBERTSHAW	600-052	ROBERTSHAW	600-057	SUPCO	SPP8
SUPCO	SPP5	SUPCO	SPP6	A-1	WSX-1
GEMLINE	HS600	GEMLINE	HS650		



HS-210 / 410 / 810

Item ID	Compressor Sizes	Volts
HS210	1/2 HP	220
HS410	1/4 and 1/3 HP	115
HS810	1/12 thru 1/5 HP	115

Part No.	Mars	Gemline	Robertshaw	Supco
SEC410	1/12 THRU 1/5	115	600-410	RCO410
SEC810	1/12 THRU 1/5	115	600-810	RCO810

**Potential Relay and Start Capacitor**

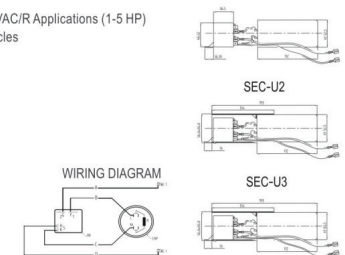


SEC-U1 / U2 / U3

- Covering applications from 1 to 5 ton units
- For Single Phase 208V, 230V, and 265V HVAC/R Applications (1-5 HP)
- Component rated life expectancy of 50k cycles
- Instant Restarts
- UL/CSA and CE recognized
- 2 Wire non-polarized system
- OEM versions available on request

**General Specifications:**

- Extends life of compressor
- Protect internal components
- Start A/C in 30-50% less time
- For Scroll/Reciprocating 208-240V Only
- Capacitor Size: 88-108MFD



	SEC-U1	SEC-U2	SEC-U3
Capacitance	108-130MFD	189-227MFD	270-324MFD
VAC	330	330	330
Frequency	50/60Hz	50/60Hz	50/60Hz
Dimensions	52.37mm*111.12mm	52.37mm*111.12mm	65.5mm*111.12mm



Starting Control Box

Feature

- Insulation Voltage Ui: 600V
- Operating Voltage Ue: AC 400V
- Rated Current: Ie=16A Heat Current: Ith=50A
- Working frequency: 50/60Hz
- Mechanical life > 1,000,000 times
- Electricity life > 1,000,000 times
- Protection Grade: IP00



Product Description:

STARTING CONTROL BOX FOR SINGLE-PHASE MOTOR HD I-4GD- 150330-035450 is mainly used for starting of single-phase motor (compressor), suitable for AC 50/60 HZ, voltage to 400 V control circuit and the power line with the rated current to 16 A. Start the single-phase motor (compressor) by starting capacitor. Can be used for air conditioning, refrigerator, household appliances, pumps and other industrial equipments etc.

H	D	1	-	9C	D	100250	040450
SHARE Electric	CONTROL BOX	Type	"Y": Individual Box Pack "F": Factory Bulk Pack	"Y" OPERATING CHARACTERISTICS REFER TO ACTION PARAMETER TABLE OF SER3800 RELAYS	TERMINAL	STARTING CAPACITOR Capacity: 100µF Voltage: 250V	STARTING CAPACITOR Capacity: 40µF Voltage: 450V

Two Pole Contactors



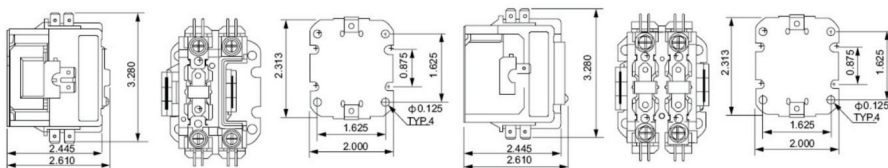
Products Details

Model	QCA-302	QCB-302	QCC-302	QCA-402	QCB-402	QCC-402
FIL	30	30	30	40	40	40
Poles	2	2	2	2	2	2
Resistive Amps	40	40	40	50	50	50
Coil Voltage	24	120	240	24	120	240
Hertz	50/60	50/60	50/60	50/60	50/60	50/60
Locked Rotor AMPS 240/480/600	180/150/120	180/150/120	180/150/120	240/200/160	240/200/160	240/200/160

Electrical Contact Ratings: 20A-90A electrical coil ratings: 24-600V life rating, 100,000 & 250,000 cycle options.  
Options: 1, 2, 3, 4 pole fits 24, 120 240 and 480 VAC coils wide range of electrical ratings screw, box or pressure plate connections NEMA mounting base. NO/NC end switch kits.  
Terminations: #10-32 screw - 20, 25 & 30 FLA Models, Box Lug - 40, 50, 60, 75 & 90 FLA Models  
Temperature Range: -40°F to + 150°F / -40°C to +65°C

Outline Dimensions: 1.5 & 3 pole (shown in inches)

XKJL 1-2P-30A-24V



1.5 & 2 pole (shown in inches)

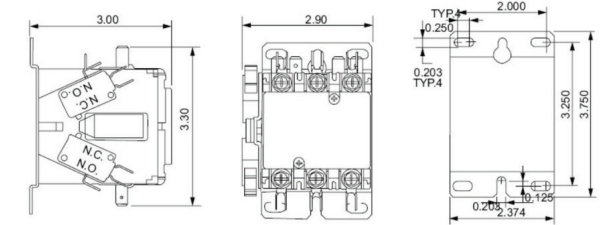
Three Pole Contactors



1-3P-30A-24V

1-3P-40A-240V

Outline Dimensions: 20-40FLA, 3 pole (shown in inches)



20-40 FLA 3-pole

Products Details

Model	QCA-303	QCB-303	QCC-303	QCA-403	QCB-403	QCC-403
FIL	30	30	30	40	40	40
Poles	3	3	3	3	3	3
Resistive Amps	40	40	40	50	50	50
Coil Voltage	24	120	240	24	120	240
Hertz	50/60	50/60	50/60	50/60	50/60	50/60
Locked Rotor AMPS 240/480/600	180/150/120	180/150/120	180/150/120	240/200/160	240/200/160	240/200/160

Electrical Contact Ratings: 20A-90A electrical coil ratings: 24-600V life rating, 100,000 & 250,000 cycle options.  
Options: 1, 2, 3, 4 pole fits 24, 120 240 and 480 VAC coils wide range of electrical ratings screw, box or pressure plate connections NEMA mounting base. NO/NC end switch kits.  
Terminations: #10-32 screw - 20, 25 & 30 FLA Models, Box Lug - 40, 50, 60, 75 & 90 FLA Models  
Temperature Range: -40°F to + 150°F / -40°C to +65°C

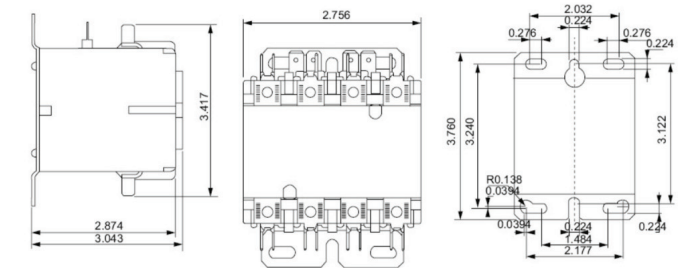
Four Pole Contactors



1-4P-30A

Outline Dimensions: 25-40FLA, 4 pole (shown in inches)

XKJL 1-4P-30A-24V



25-40 FLA 4-pole

Products Details

Model	QCA-304	QCB-304	QCC-304	QCA-404	QCB-404	QCC-404
FIL	30	30	30	40	40	40
Poles	4	4	4	4	4	4
Resistive Amps	40	40	40	50	50	50
Coil Voltage	24	120	240	24	120	240
Hertz	50/60	50/60	50/60	50/60	50/60	50/60
Locked Rotor AMPS 240/480/600	180/150/120	180/150/120	180/150/120	240/200/160	240/200/160	240/200/160

Electrical Contact Ratings: 20A-90A electrical coil ratings: 24-600V life rating, 100,000 & 250,000 cycle options.  
Options: 1, 2, 3, 4 pole fits 24, 120 240 and 480 VAC coils wide range of electrical ratings screw, box or pressure plate connections NEMA mounting base. NO/NC end switch kits.  
Terminations: #10-32 screw - 20, 25 & 30 FLA Models, Box Lug - 40, 50, 60, 75 & 90 FLA Models  
Temperature Range: -40°F to + 150°F / -40°C to +65°C



Transformer



Partial Listing Of Available 20 Va & 40 Va (compact)

Primary-Secondary Voltage	20 VA Wire Lead	40 VA Wire Lead	20 VA Quick Connect	40 VA Quick Connect
120 - 24	01C0AA01	01A0AA01	01C0BB09	01A0BB09
240 - 24	02C0AA01	02A0AA01	02C0BB09	02A0BB09
277 - 24	03C0AA01	03A0AA01	03C0BB09	03A0BB09
480 - 24	04C0AA01	04A0AA01	04C0BB09	04A0BB09
208/240-24	09C0AA01	09A0AA01	09C0BB09	09A0BB09

Primary Lead Features

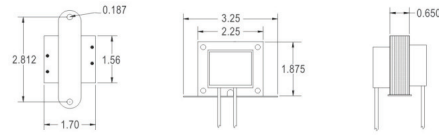
Voltage	Common	120	208	240	277	480	575
Color	Black	White	Red	Orange	Brown	Black/Red	Grey
Lead Length	12"	12"	12"	12"	12"	12"	12"
Strip Length	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"

Secondary Lead Features

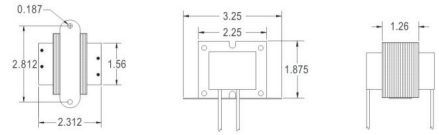
Voltage	Common	24
Color	Black	Yellow
Lead Length	12"	12"
Strip Length	1/2"	1/2"

\* Custom Length, Color And Terminations Are Available.

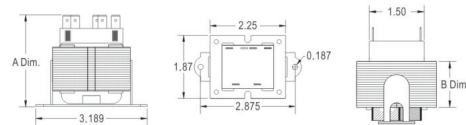
20 VA Wire Lead Models (inches)



40 VA (COMPACT) Wire Lead Models (inches)



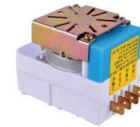
20 VA & 40 VA (COMPACT) Quik Connect Models (inches)



Defrost Timer



Part No.	SB3.82
Defrost circle / Day	1-12times Adjustment
Defrost period	2-60min Adjustment
Added Feature	3.5min+2.5sec Fan Delay
Cont Art. Voltage	16A SPDT: 220V-50Hz



Part No. (TD)	Working Cycle Time		Defrost Time	
	50Hz	60Hz	50Hz	60Hz
TD-20C 200-240V	8hr±10min	6hr40min±10min	7min±2min	5min50s±2min
TD-20L 110-120V	8hr±10min	6hr40min±10min	7min±2min	5min50s±2min
TD-20C SA 200-240V	8hr±10min	6hr40min±10min	14min24s±2min	12min±2min



Part No. (DBZ)	Working Cycle Time		Defrost Time	
	50Hz	60Hz	50Hz	60Hz
TMDE-625	6hr	5hr	25min	20min49s
TMDE-706	7hr54min	6hr35min	7min	5min50s
TMDE-802	8hr46min	7hr18min	2min24s	2min
TMDE-807	8hr1min	6hr40min	7min3s	5min53s
TMDE-814	8hr1min	6hr40min	14min	11min40s
TMDE-816	8hr1min	6hr40min	16min	13min20s
TMDE-912	9hr40min	8hr03min	12min	10min
TMDEX09UM1	12hr06min	10hr05min	10min48s	9min36s



Part No. (DBZA)	Working Cycle Time		Defrost Time	
	50Hz	60Hz	50Hz	60Hz
TMDF-603	7hr12min	6hrmin	4min	3min19s
TMDF-702	8hr48min	7hr20min	2min24s	2min30s
TMDF-704	8hr48min	7hr20min	4min50s	4min2s
TMDF-706	8hr1min	6hr40min	7min3s	5min53s
TMDF-X04	10hr	8hr19min	4min20s	3min36s
TMDF-Y06	13hr6min	10hr55min	7min12s	6min



Part No. (DBZC)	Working Cycle Time		Defrost Time	
	50Hz	60Hz	50Hz	60Hz
TMDC-621	6hr	5hr	21min	17min30s
TMDC-625	6hr	5hr	25min	21min
TMDC-625 110V	7hr12min	6hr	30min	25min
TMDC-807	8hr	6hr40min	7min	5min50s
TMDC-820	8hr	6hr40min	20min	16min40s
TMDC-824	8hr	6hr40min	24min	20min
TMDC-830	8hr	6hr40min	30min	25min
TMDC-832	8hr	6hr40min	32min	26min
TMDC-825 110V	9hr36min	8hr	30min	25min
TMDC-832 110V	9hr36min	8hr	38min	32min



Part No. (DBZD)	Working Cycle Time		Defrost Time	
	50Hz	60Hz	50Hz	60Hz
TMDJ625ZF1 220V	6hr	5hr	25min	20min
TMDJ621ZN9 110V	7hr12min	6hr	25min	20min
TMDJ625RN9 110V	7hr12min	6hr	30min	25min
TMDJ702AC1 220V	8hr	6hr40min	2min24s	2min
TMDJX35RB9 110V	12hr	10hr	42min	35min
TMDJY26RC1 220V	14hr25min	12hr50min	31min12s	26min
TMDJ-2045	20min	16hr40s	45s	38s

Potential Relay Cross Reference

Part No.	Mars No.	G.E. Groups No.	WR/RBM No.	Techmesh No.
QRP-63	19002	2J, 2K, 2L, 2M, 7J, 7K, 7L, 7M, 7N, 8M, 8N	90-1, 90-17, 90-21, 90-63	82777
QRP-64	19003	3A, 3B, 3AV, 3AU, 4A, 4B, 6A, 6B, 6AB, 10A, 10B, 10AV, 10AV	90-4, 90-8, 90-11, 90-14, 90-22, 90-64	82783
QRP-65	19004	3P, 3R, 3AP, 5P, 5R, 5S, 5T, 22S	90-3, 90-7, 90-40, 90-65	82778
QRP-66	19005	3U, 3V, 3AT, 6U, 6V, 6W	90-13, 90-27, 90-66	-
QRP-67	19006	3C, 3D, 3AA, 4C, 4D, 4BK, 6C, 6D, 6AA, 10C, 10D, 26A, 26B, 26C, 26D	90-9, 90-6, 90-15, 90-19, 90-25, 90-67	82785
QRP-68	19007	3E, 3F, 3AB, 3AC, 4E, 4F, 4G, 6E, 6F, 6G, 10H, 10AB, 10AC, 26E, 26F, 26G, 26H, 27E, 27G	90-9, 90-12, 90-16, 90-20, 90-23, 90-68	82787
QRP-69	19008	3S, 3T, 10S, 10T, 25S, 25T, 10AS	90-10, 90-18, 90-24, 90-26, 90-41	82779

4TM Overload protector

IC-3	Power	Voltage (V)
	1/8HP	220V/110V
	1/6HP	220V/110V
	1/5HP	220V/110V
	1/4HP	220V/110V
	1/3HP	220V/110V
	1/2HP	220V/110V

PTK-2 Overload Protector

PTK-2	Power	Voltage (V)
	1/8HP	220V
	1/6HP	220V
	1/5HP	220V
	1/4HP	220V
	1/3HP	220V
	1/2HP	220V

Time Delay

QD-068 Delay On Make
18-240VAC/VDC
1.5Amp
15Amp.inrush
SPST.N.O
Adjustable delays from 0.03 to 10min (1.8 to 600 seconds)

QD-072 Delay On Break
18-240VAC/VDC
1.5Amp
15Amp.inrush
SPST.N.O
Knob-adjustable delays from 0.03 to 10min (1.8 to 600 seconds)



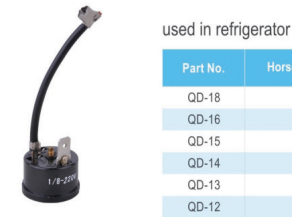
**PW Series Relay Protector**

Part No.	Pick-up Current (A)	Drop-out Current (A)	Horsepower (hp)
PW4.5A	3	2.5	6.5
PW5.5A	3.7	3	7.8

Part No.	Pick-up Current (A)	Drop-out Current (A)	Horsepower (hp)
PW-S1	4.25	3.35	1/5
PW-S2	4.75	3.75	1/4
PW-S3	5.3	4.25	1/3

Part No.	Resistance (Ω)	Voltage (V)	Current (A)
PP1100-1	5	110	4
PP1100-2	22	220	6

**QD Series Thermoprotector**



used in refrigerator

Part No.	Horsepower (hp)	Operating Temp. (°C)	Overload Current (A)
QD-18	1/8	110±5	5.6
QD-16	1/6	110±5	6.0
QD-15	1/5	115±5	7.2
QD-14	1/4	115±5	9.0
QD-13	1/3	120±5	11.0
QD-12	1/2	120±5	13.0

**MZ Series PTC Starting Relay With One, Two and Three Heads**

Part No.	Resistance at 25°C (Ω)	Voltage (V)	Recovery Times (S)	Current (A)	Power (W)
MZ-12	12	> 450	< 80	6	6
MZ-15	15	> 600	< 80	7	7
MZ-22	22	> 600	< 80	7	7
MZ-33	33	> 600	< 80	6	6
MZ-47	47	> 600	< 80	8	8
MZ-100	100	> 600	< 80	3	3

**ICA Series Relay-overload Combination**

Part No.	Voltage (V)	Frequency (Hz)	Horsepower (hp)
ICA-13	120	50/60	1/4, 1/3
ICA-15	120	50/60	1/8, 1/5
ICA-23	240	50/60	1/4, 1/3
ICA-25	240	220	1/8, 1/5

**IC Series Solid State Relay**



Part No.	Voltage (V)	OTC Resistance (Ω)
IC-1	110	5±20%
IC-2	240	22±20%
IC-3	240	22±20%
IC-4	110	22±20%

**RP Series Push-on Type Relay**



Part No.	Pick-up Current (A)	Drop-out Current (A)	Horsepower (hp)
RP18	3.15	2.5	1/8
RP16	3.75	3	1/6
RP15	4.75	3.75	1/5
RP14	5.35	4.25	1/4
RP13	6	5.2	1/3
RP12	8.4	7	1/2

**ICG Series Relay**



Part No.	Voltage (V)	Horsepower (hp)
ICG-1	115	1/12 thru 1/2
ICG-220	230	1/12 thru 1/3

**Cold Room & Refrigerator LED lights**

**Description**

- Voltage: 220V/110V/36V
- Power: 8W
- Frequency: 50Hz/60Hz
- Temperature: 6000-6500K
- Display: more than 70
- Light flux: 800LM
- Protection level: IP68
- Used in < 4M height coldroom
- Operating temperature: -20° to 40°
- Service lifetime: 10000 hours

**Description**

- Voltage: 220V/110V
- Power: 20W
- Frequency: 50Hz/60Hz
- Temperature: 6000-6500K
- Display: above 70
- Light flux: 2000LM
- Protection level: IP68
- Used in < 4M height coldroom
- Operating temperature: -20° to 40°
- Service lifetime: 10000 hours

**Description**

- Voltage: 220V/110V
- Power: 36W
- Frequency: 50Hz/60Hz
- Temperature: 6000-6500K
- Display: above 70
- Light flux: 3600LM
- Protection level: IP65
- Used in < 4M height coldroom
- Operating temperature: -20° to 40°
- Service lifetime: 10000 hours

**Description**

- Voltage: 220V/36V
- Power: 15W
- Frequency: 50Hz
- Temperature: 6000-6500K
- Display: above 70
- Light flux: 3000LM
- Protection level: IP65
- Used in < 5M height coldroom
- Operating temperature: -20° to 40°
- Service lifetime: 10000 hours

**Description**

- Voltage: 220V/110V
- Power: 30W
- Frequency: 50Hz/60Hz
- Temperature: 2700-7000K
- Display: 70 or more
- Light flux: 3000LM
- Protection level: IP65
- Super bright 5-6m 30 square or so
- Operating temperature: -20° to 40°
- Service lifetime: 10000 hours

**Description**

- Voltage: 220V/110V
- Power: 50W
- Frequency: 50Hz/60Hz
- Temperature: 2700-7000K
- Display: 70 or more
- Light flux: 5000LM
- Protection level: IP65
- Super bright 6-7m 40 square or so
- Operating temperature: -20° to 40°
- Service lifetime: 10000 hours

**Description**

- Voltage: 220V/110V
- Power: 100W
- Frequency: 50Hz/60Hz
- Temperature: 2700-7000K
- Display: 70 or more
- Light flux: 10000LM
- Protection level: IP65
- 10meters below 50 square or so
- Operating temperature: -20° to 40°
- Service lifetime: 10000 hours

**Description**

- Voltage: 220V/110V
- Power: 200W
- Frequency: 50Hz/60Hz
- Temperature: 2700-7000K
- Display: 70 or more
- Light flux: 20000LM
- Protection level: IP65
- 15meters below 50 square or so
- Operating temperature: -20° to 40°
- Service lifetime: 10000 hours

**Description**

- Voltage: 220V/110V
- Power: 55W
- Frequency: 50Hz/60Hz
- Temperature: 2800-6800K
- Display: 70 or more
- Light flux: 6000LM
- Protection level: IP65
- 5meters below 120-40 square or so
- Operating temperature: -20° to 40°
- Service lifetime: 10000 hours

**Description**

- Voltage: 220V
- Power: 16W
- Frequency: 50Hz/60Hz
- Temperature: 2800-6800K
- Display: 70 or more
- Light flux: 1600LM
- Protection level: IP65
- 4meters below 15-20 square or so
- Operating temperature: -20° to 40°
- Service lifetime: 10000 hours

Mini strip type

U groove type

U type

**Lamp for refrigerator**

LED-E14  
6500k cold 220V/50Hz



TAM Series Thermostat



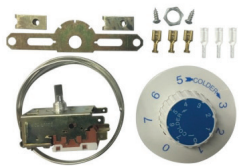
Part No.	Temperature Range
TAM112-0.8M	-7°C/-4°C
TAM113-1.3M	-10°C/+10°C
TAM113-2.0M	-10°C/+10°C
TAM125-2.5M	-20°C/-27°C
TAM125-2.3M	-20°C/-27°C
TAM133-1.3M	-35°C/-10°C
TAM135-2.5M	-15°C/-26°C
TAM145-1.3M	-27°C/-20°C
TAM145-2.0M	-16°C/-13°C

007B Series Thermostat



Part No.	Temperature		Capillary Tube (mm)
	Cold	Warm	
077B7001	-25	2	1300
077B7002	-21	0	1300
077B7003	-27.5	3.5	1600
077B7004	-11	3.5	1500
077B7005	-32.5	-7.5	2300
077B7006	-34.5	-10	2300
077B7007	-35.5	-10	2300
077B7008	-8.5	11.5	2000

K Series Thermostat



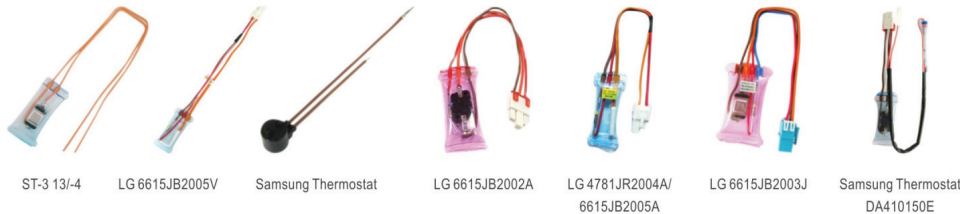
Part No.	Warm		Cold		Capillary Tube (mm)
	ON (°C)	OFF (°C)	ON (°C)	OFF (°C)	
K50-P1110=VC1	2	-	-14.5	-23	1200
K59-L1102	3.5	-12	3.5	-22	1200
K50-P1125	8.5	-	-9.5	-18	1200
K50-P1126	-9.5	-	-18	-24.5	1200
K50-P1127	12.5	-	5	1.5	1200
K50-P1117=VF3	-7	-12	-22	-30	1200
K50-P1118=VB7	13	8	1.8	-3.3	1200
K54-P1102=VS5	-11.5	-16	-20	-26	1200
K60-P1013=VP4	-4	-11	-15	-24	1200

Thermostat



Part No.	Operating Temperature						Capillary (mm)
	Warm		Normal		Cold		
	ON (°C)	OFF (°C)	ON (°C)	OFF (°C)	ON (°C)	OFF (°C)	
A2000	-	(+35)	-	0±3	-	(-35)	120
F2000	-	(+35)	-	0±3	-	(-35)	1750

Defrost/Icemaker Thermostat



ML-B06 type



ML and SL Series Defrost/Icemaker Thermostat

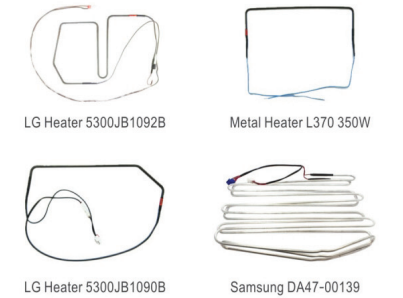
ML Series Part No.	SL Series Part No.	°DIFF	OPEN°F	CLOSE°F
ML37		10	37	47
ML45	SL45	20	45	25
ML50	SL50	20	50	30
ML55	SL55	20	55	35
ML60	SL60	20	60	40
ML70	SL70	20	70	50
ML80	SL80	50	80	30
ML90	SL90	55	90	35

Glass Tube Heater



Size	Voltage	Power
10"	220V	120W
12"	220V	130W
14"	220V	150W
16"	220V	160W
18"	220V	160W
20"	220V	180W

Defrost Heater



Constant Power Parallel Heating Cable (AKO-5234)

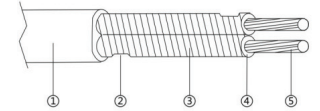


Application:

To heat the floor of building, Cooling house and warehouse. To melt snow and frost in slope, Trough and roof. To prevent frost and to preserve heat of petroleum pipeline and other devices.

Product structure picture

- ① Silicone insulating layer.
- ② Conductor connecting point.
- ③ Resistance wire.
- ④ Silicone insulating layer.
- ⑤ Copper conductor.



Power output	at230V	40W/m
Max. exposure temp. power on		55°C
Max. exposure temp. power off		70°C
Maximum circuit length		60m
Heating zone length		500m
Tinned copper conductors		2 x 0.75mm <sup>2</sup>
Heating conductor element		Nickel-chrome
Insulation material		Silicone rubber
Electric strength	Test voltage	1500V~
Loading tolerance		±7%
Outer dimensions	nominal	8 x 5 ±0.5mm
Minimum bendradius	at-25C	20mm
Standard reel length		110~150mm

Drainpipe Anti-freezing Heating Cable

- Waterproof
- Double insulation
- Molded terminations
- Extremely flexible



Part No.	Cold tall (m)	Heating Cable (m)	Total length (m)	Output Power (m)
CSC-1.0	1	1	2	40
CSC-1.5	1	1.5	2.5	60
CSC-2.0	1	2	3	80
CSC-3.0	1	3	4	120
CSC-4.0	1	4	5	160
CSC-5.0	1	5	6	200
CSC-6.0	1	6	7	240
CSC-7.0	1	7	8	280

Heating Strip for Crankcase of Compressor



Rated voltage	Heater district/length	Power
110~240V	357/395mm	20W
110~240V	462/500mm	35W
110~240V	537/575mm	55W
110~240V	657/695mm	75W
110~240V	726/800mm	90W
110~240V	912/950mm	90W





# 10 A/C & INSTALLATION PARTS

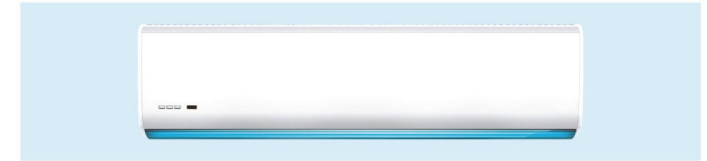
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**FavorCOOL<sup>®</sup>**

QUALITY DELIVERED



## ST Air Curtain

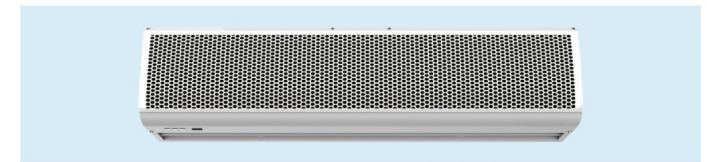


### Technical Specifications

(Mounting height: 2.5~3.2M)

Model	Unit (mm)	Voltage (v~)	Frequency (Hz)	Air Velocity (m/s)		Air Volume (m <sup>3</sup> /h)		Noise (dB)		Power (W)		Net Weight (kg)	Unit Size (mm)
				H	L	H	L	H	L	H	L		
FM-3209-UY	900	220-240	50	14.5	11.5	950	750	≤51	≤48	200	10	12	900x198x215
FM-3210-UY	1000	220-240	50	14.5	11.5	1050	850	≤51	≤48	210	180	12.5	1000x198x215
FM-3212-UY	1200	220-240	50	14.5	11.5	1350	1050	≤52	≤49	260	230	14.5	1200x198x215
FM-3215-UY	1500	220-240	50	14.5	11.5	1700	1350	≤54	≤52	330	300	18	1500x198x215
FM-3218-UY	1800	220-240	50	14.5	11.5	2050	1600	≤56	≤53	390	360	21.5	1800x198x215
FM-3220-UY	2000	220-240	50	14.5	11.5	2250	1750	≤57	≤55	400	370	24	2000x198x215

## T2 Air Curtain



### Technical Specifications

(Mounting height: 2.5~3M)

Model	Voltage (v~)	Frequency (Hz)	Air Velocity (m/s)		Air Volume (m <sup>3</sup> /h)		Noise (dB)	Power (W)	Net Weight (kg)	Unit Size (mm)
			H	L	H	L				
FM-3209H/Y	220-240	50	11	9	1400	1100	≤57	≤160	8.5	900x185x187
FM-3210H/Y	220-240	50	11	9	1600	1300	≤58	≤180	9	1000x185x187
FM-3212H/Y	220-240	50	11	9	1900	1600	≤58	≤200	10	1200x185x187
FM-3215H/Y	220-240	50	11	9	2500	2000	≤59	≤230	11.5	1500x185x187
FM-3218H/Y	220-240	50	11	9	3200	2600	≤60	≤300	13	1800x185x187
FM-3220H/Y	220-240	50	11	9	3600	2900	≤60	≤350	14	2000x185x187

## Titan 5 Series Air Curtain



### Technical Specifications

(Mounting height: 2.5~3.2M)

Model	Unit (mm)	Voltage (v~)	Frequency (Hz)	Air Velocity (m/s)	Air Volume (m <sup>3</sup> /h)	Noise (dB)	Power (W)	Net Weight (kg)	Unit Size (mm)
FM-1209T2	900	220	50	11	1400	≤57	160	10.5	900x190x205
FM-1212T2	1200	220	50	11	1900	≤58	200	13	1200x190x205
FM-1215T2	1500	220	50	11	2500	≤59	230	16	1500x190x205
FM-1218T2	1800	220	50	11	3200	≤60	300	18.5	1800x190x205
FM-1209T2/Y	900	220	50	11	1400	≤57	160	10.5	900x190x205
FM-1212T2/Y	1200	220	50	11	1900	≤58	200	13	1200x190x205
FM-1215T2/Y	1500	220	50	11	2500	≤59	230	16	1500x190x205
FM-1218T2/Y	1800	220	50	11	3200	≤60	300	18.5	1800x190x205



## Flexible Strip Door



**Description:**  
Our PVC strip door designed to help save energy and reduce dust and noise. Available as complete strip door with mounting hardware, bulk rolls, or individual replacement strips. Available in different color.

**Width:** 200mm, 300mm, 1200mm(black only)  
**Thickness:** 2mm, 3mm  
**Length:** 50 meters in roll  
**Temperature Range:** For shopping mall use (-20°C~+60°C)  
For cold room use (-40°C~+60°C)

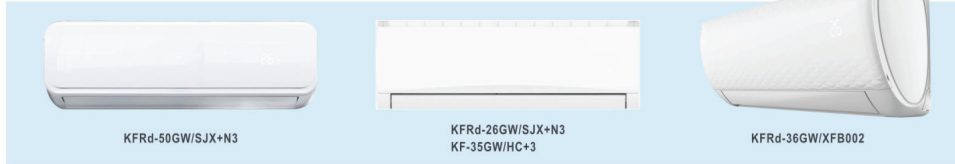


## Barcket for PVC Strip Door

**Material:** Stainless steel or steel  
**Length:** 1 Meter, 1.5 Meter, 2 Meter  
**Thickness:** 1mm.....  
**Plate Length:** 150mm, 200mm



## Split A/C



Model	Refrigerant	COP	Cooling			Heating			Noise		Air volume Indoor	Dimension Indoor unit (mm)	Suitable Area (mm)
			Capacity (Btu)	Capacity (w)	Input power (w)	Capacity (Btu)	Capacity (w)	Input power (w)	Heater power (w)	Indoor unit (dBA)			
KFRd-26GW/SJX+N3	R22	3.28	9000	2600	793	9000	2860	813	750	28-42	50	745×250×190	9~13
KF-35GW/HC+3	R22	3.27	12000	3600	1100	12000	3960	1060	1000	28-42	50	790×265×196	12~17
KFRd-36GW/XFB002	R22	3.27	12000	3600	1100	12000	3960	1200	1080	20-41	51	830×301×205	16~23
KFRd-50GW/SJX+N3	R22	3.12	18000	5000	1603	18000	5500	1650	1100	41-46	55	960×300×215	21~31

## Floor-standing A/C



KFRd-51LW/JNX+N2  
KFRd-72LW/JNX+N2  
KFRd-51LW/SJX+N3  
KFRd-72LW/SJX+N3

Model	Refrigerant	COP	Cooling		Heating		
			Capacity (w)	Input power (w)	Capacity (w)	Input power (w)	Heater power (w)
KFRd-51LW/JNX+N2	R22	3.18	5100	1605	5720	1610	1800
KFRd-72LW/JNX+N2	R22	3.08	7200	2340	8100	2350	2500

Model	Noise		Air volume Indoor	Dimension Indoor unit (mm)	Suitable Area (mm)
	Indoor unit (dBA)	Outdoor unit (dBA)			
KFRd-51LW/JNX+N2	32-43	54	1000	508×325×1800	23-34
KFRd-72LW/JNX+N2	38-46	55	1200	508×325×1800	32-50

Model	Refrigerant	COP	Cooling		Heating		
			Capacity (w)	Input power (w)	Capacity (w)	Input power (w)	Heater power (w)
KFRd-51LW/SJX+N3	R22	3.12	5100	1635	5610	1603	2100
KFRd-72LW/SJX+N3	R22	3.03	7200	2375	7900	2460	2500

Model	Noise		Air volume Indoor	Dimension Indoor unit (mm)	Suitable Area (mm)
	Indoor unit (dBA)	Outdoor unit (dBA)			
KFRd-51LW/SJX+N3	43	54	1000	480×300×1710	23-34
KFRd-72LW/SJX+N3	46	57	1200	520×325×1790	32-50

## Fan Coil Unit Ultra Wall Mount Type



- Digital display panel
- Remote controller
- Water valve is optional to built-in the FCU body

Model		FP-34BM-DV	FP-51BM-DV	FP-68BM-DV	FP-85BM-DV	FP-102BM-DV	FP-136BM-DV		
Power supply		220V, 50Hz, 1Ph							
Air volume	H M L	m/h	340	510	680	850	1020	1360	
			260	380	515	650	765	1010	
			180	260	340	430	520	700	
Cooling capacity	TH	H	W	1800	2500	4000	4500	5700	7200
			BTU/h	6142	8400	13648	15354	19300	24566
	TH	M	W	1476	2000	3200	3690	4600	5904
			BTU/h	1098	1500	2400	2745	3500	4392
	TH	L	W	2700	3700	5900	6750	8500	10800
			BTU/h	2146	2900	4700	5366	6800	8586
Heating capacity	H	W	1512	2100	3300	3780	4800	6048	
			M	2146	2900	4700	5366	6800	8586
			L	2700	3700	5900	6750	8500	10800
Power input	High speed	W	35	40	75	90	125	130	
Waterflow volume		m/h	0.31	0.42	0.71	0.77	0.98	0.93	
Pressure dropping			kPa	11	13	17	18	23	23.5
Coil	Type		Hydrophilic aluminum fin to wear copper tube						
Max. working pressure			Mpa	1.6	1.6	1.6	1.6	1.6	1.6
Condensing water pipe			mm	Φ16	Φ16	Φ16	Φ16	Φ16	Φ16

## Fan Coil Unit Ultra Thin Vertical Type (2 Tube System)



Ultra thin design the width of the body is only 130mm;



Using the cross flow fan, optimization of pipeline design. Strong wind and quiet running.



Hidden intelligent LED temperature controller which is elegant appearance and easy to use.



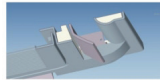
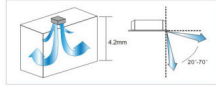
Model		FP-20CM	FP-30CM	FP-40CM	FP-50CM	FP-60CM		
Power supply		220V, 50Hz, 1Ph						
Air volume	H M L	m/h	200	300	400	500	600	
			150	220	300	380	450	
			110	160	230	290	340	
Static pressure	Pa		0	0	0	0		
Cooling capacity	TH	H	W	1000	1800	2400	3000	3600
			BTU/h	3412	6142	8189	10236	12283
	SH	H	W	713	1283	1711	2139	2567
			BTU/h	2433	4379	5839	7298	8758
	TH	M	W	800	1440	1920	2400	2880
			BTU/h	555	999	1330	1660	1990
TH	L	W	650	1170	1560	1950	2340	
		BTU/h	430	770	1025	1280	1535	
Heating capacity	H	W	1600	2900	3850	4800	5750	
			M	1280	2320	3080	3840	4600
			L	830	1510	2000	2500	2990
Noise	dB(A)		38	39	40	41	42	
Power input	High speed	W	15	18	20	26	32	
Waterflow volume		m/h	0.17	0.26	0.34	0.43	0.51	
Pressure dropping			kPa	4	6	8	10	12
Water tube connection (inlet)			ZG 1/2"	ZG 1/2"	ZG 1/2"	ZG 1/2"	ZG 1/2"	
Water tube connection (outlet)			ZG 1/2"	ZG 1/2"	ZG 1/2"	ZG 1/2"	ZG 1/2"	
Coil	Type		Hydrophilic aluminum fin to wear copper tube					
Max. working pressure			Mpa	1.6	1.6	1.6	1.6	
Condensing water pipe			mm	Φ21	Φ21	Φ21	Φ21	
Net dimension	L×W×H	mm	700×130×681	900×130×681	1100×130×681	1300×130×681	1500×130×681	
Net Weight			kg	14.5	18.5	21.5	24	27



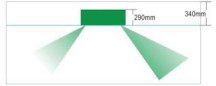
Fan Coil Unit 4-way Cassette (2 Tube System)



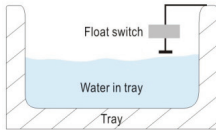
4-way air flowing, which can uniform temperature distribution in the room



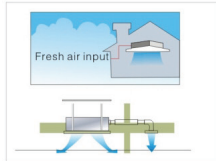
Remote controller is standard and wire controller is optional



Float switch inside to prevent from leaking

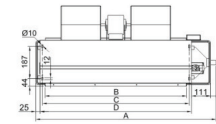
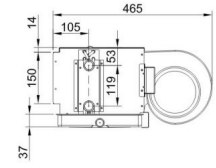
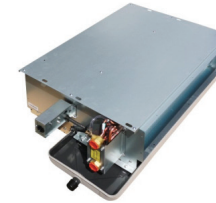


Fresh air can be input from outside



Model ( 2-tube system)			FP-34KM-(Q)M1	FP-51KM-(Q)M1	FP-68KM-(Q)M1	FP-85KM-(Q)M2	FP-102KM-(Q)M2		
Model of unit			FP-34KM-(Q)M1	FP-51KM-(Q)M1	FP-68KM-(Q)M1	FP-85KM-(Q)M2	FP-102KM-(Q)M2		
Panel Type			MB-SD11M1						
Power supply			220V, 50Hz, 1Ph						
Air volume	H	m <sup>3</sup> /h	380	550	680	880	1050		
	M		300	440	540	700	840		
	L		230	330	410	530	630		
Static pressure			Pa						
			0						
Cooling capacity	TH	H	W	2000	3000	3800	4900	5800	
			BTU/h	6824	10236	12966	16719	19790	
		SH	W	1400	2200	2850	3500	4250	
			BTU/h	4777	7506	9724	11942	14501	
		TH	M	W	1700	2550	3250	4150	4950
			SH	W	1150	1800	2350	2850	3500
	TH	L	W	1400	2050	2600	3400	4000	
			SH	W	950	1400	1850	2300	2800
	Heating capacity	H	W	3100	4700	5900	7600	9000	
		M	W	2650	4000	5000	6450	7650	
		L	W	2100	3150	3950	5100	6050	
	Noise			dB(A)					
High speed			38						
Power input			W						
High speed			40						
Waterflow volume			m <sup>3</sup> /h						
High speed			0.34						
Pressure dropping			kPa						
High speed			11						
Water tube connection (inlet)			ZG 3/4"						
Water tube connection (outlet)			ZG 3/4"						
Coil			Type						
			Hydrophilic aluminum fin to wear copper tube						
Max. working pressure			Mpa						
			1.6						
Condensing water pipe			mm						
			Φ26						
Net dimension			mm						
Drained by pump			L×W×H						
Panel			590×590×242						
Drained by panel			650×650×40						
Net Weight			kg						
Drained by pump			17						
Panel			2.2						

Model ( 2-tube system)			FP-136KM-(Q)M3	FP-170KM-(Q)M3	FP-204KM-(Q)M3	FP-238KM-(Q)M3	FP-272KM-(Q)M4		
Model of unit			FP-136KM-(Q)M3	FP-170KM-(Q)M3	FP-204KM-(Q)M3	FP-238KM-(Q)M3	FP-272KM-(Q)M4		
Panel Type			MB-SD11M3						
Power supply			220V, 50Hz, 1Ph						
Air volume	H	m <sup>3</sup> /h	1380	1750	2050	2200	2720		
	M		1100	1400	1640	1760	2040		
	L		830	1050	1230	1320	1360		
Static pressure			Pa						
			0						
Cooling capacity	TH	H	W	7500	9800	11000	12000	15000	
			BTU/h	25590	33438	37532	40944	51180	
		SH	W	5500	7150	8250	9100	11175	
			BTU/h	18766	24396	28149	31049	38129	
		TH	M	W	6400	8350	9350	10200	12450
			SH	W	4550	5950	6850	7650	9560
	TH	L	W	5200	6750	7600	8300	10300	
			SH	W	3600	4700	5450	6000	7400
	Heating capacity	H	W	11600	15200	17100	18600	2400	
		M	W	9850	12900	14550	15800	19900	
		L	W	7750	10200	11450	12450	15200	
	Noise			dB(A)					
High speed			46						
Power input			W						
High speed			130						
Waterflow volume			m <sup>3</sup> /h						
High speed			1.28						
Pressure dropping			kPa						
High speed			23						
Water tube connection (inlet)			ZG 3/4"						
Water tube connection (outlet)			ZG 3/4"						
Coil			Type						
			Hydrophilic aluminum fin to wear copper tube						
Max. working pressure			Mpa						
			1.6						
Condensing water pipe			mm						
			Φ26						
Net dimension			mm						
Drained by pump			L×W×H						
Panel			840×840×242						
Drained by panel			950×950×40						
Net Weight			kg						
Drained by pump			29						
Panel			5						



#	FP-34WA-B	FP-51WA-B	FP-68WA-B
A	624	814	864
B	400	590	640
C	430	620	670
D	456	646	696

#	FP-85WA-B	FP-102WA-B	FP-136WA-B
A	944	1044	1424
B	720	820	1200
C	750	850	1230
D	776	876	1256

#	FP-170WA-B	FP-204WA-B	FP-238WA-B
A	1474	1674	1824
B	1250	1450	1600
C	1280	1480	1630
D	1306	1506	1656

Fan Coil Unit Ceiling Conceal Ducted Type (2 Tube System)

Model ( 2-tube system)			FP-34WA-B	FP-51WA-B	FP-68WA-B	FP-85WA-B	FP-102WA-B		
Power supply			220V, 50Hz, 1Ph						
Air volume	H	m <sup>3</sup> /h	340	510	680	850	1020		
	M		270	380	515	660	765		
	L		190	260	340	430	530		
Static pressure			Pa						
			12(30.50)						
Cooling capacity	TH	H	W	2150	3200	4000	5000	5800	
			BTU/h	7335	10918	13648	17060	19789	
		SH	W	1530	2230	2850	3530	4230	
			BTU/h	5220	7608	9724	12044	14432	
		TH	M	W	1710	2510	3305	4090	4790
			SH	W	1210	1715	2320	2890	3345
	TH	L	W	1355	2000	2470	3000	3520	
			SH	W	980	1420	1735	2020	2500
	Heating capacity	H	W	3350	5050	6250	7900	9150	
		M	W	2850	3900	5100	6350	7400	
		L	W	2100	3100	3850	4850	5450	
	Noise			12Pa dB(A)					
High speed			37						
Power input			W						
High speed			39/42						
Waterflow volume			m <sup>3</sup> /h						
High speed			0.37						
Pressure dropping			kPa						
High speed			16						
Water tube connection (inlet)			ZG 3/4"						
Water tube connection (outlet)			ZG 3/4"						
Coil			Type						
			Hydrophilic aluminum fin to wear copper tube						
Max. working pressure			Mpa						
			1.6						
Condensation pipe size (diameter) mm			DN20 (External thread)						
Net dimension			mm						
L×W×H			624×465×235						
Net Weight			kg						
			11						

Model ( 2-tube system)			FP-136WA-B	FP-170WA-B	FP-204WA-B	FP-238WA-B		
Power supply			220V, 50Hz, 1Ph					
Air volume	H	m <sup>3</sup> /h	1360	1700	2040	2380		
	M		1040	1280	1550	1800		
	L		710	860	1050	1280		
Static pressure			Pa					
			12(30.50)					
Cooling capacity	TH	H	W	8000	9500	11300	12800	
			BTU/h	27296	32414	38555	43673	
		SH	W	5790	6850	8110	9140	
			BTU/h	19755	23372	27671	31185	
		TH	M	W	6660	7895	9153	10000
			SH	W	4715	5470	6340	7165
	TH	L	W	5150	5870	6820	7850	
			SH	W	3530	4075	4950	5580
	Heating capacity	H	W	12500	15100	17800	20100	
		M	W	10300	11950	14200	15500	
		L	W	8000	9100	10550	12150	
	Noise			12Pa dB(A)				
High speed			47					
Power input			W					
High speed			49/50					
Waterflow volume			m <sup>3</sup> /h					
High speed			1.37					
Pressure dropping			kPa					
High speed			27					
Water tube connection (inlet)			ZG 3/4"					
Water tube connection (outlet)			ZG 3/4"					
Coil			Type					
			Hydrophilic aluminum fin to wear copper tube					
Max. working pressure			Mpa					
			1.6					
Condensation pipe size (diameter) mm			DN20 (External thread)					
Net dimension			mm					
L×W×H			1424×465×235					
Net Weight			kg					
			26					



## Aluminum Foil Adhesive Tape

By roll, 27m lengths 24 rolls per carton.

Thickness(mm)	Width(mm)
0.03	45
0.03	50
0.04	45
0.04	50
0.05	45
0.05	50

\* To be adjusted as per specific requirement.

## PVC Air Conditioner Insulation Tape

Part No.	Size
PVC1	0.13mmx48mmx15m
PVC2	0.13mmx48mmx18m

## Insulation Tape with Self-adhesive

1By roll, 30ft(9.14m)lengths 30rolls carton.

Thickness(mm)	Width(mm)
3	25
3	50
5	50

## SB Series Cleaner

### SB-910

Recommended for Evaporator Coils, Air Filters and Mechanical Equipment Removes.

- Environmentally Safe
- Non-Caustic, Self-Rinsing
- USDA Authorized
- Contains Metal Fatigue Inhibitors
- Non-Acid, Non-Toxic
- Good for all Metal, Copper & Aluminium



### SB-920

Acid Condenser Cleaner & Brightener

SB-920 is the most powerful penetrating foaming acid coil cleaner on the market. SB-920 effortlessly pushes dirt, bugs, grease, oxides and other contamination off and through the coils and from all inaccessible area.

- Heavy Duty
- Cleans & Brightens Finned Air Coils
- Good for Copper, Aluminium and Brass



### SB-930

External Condenser Coil Cleaner and Brightener Recommended for evaporator and Condenser Coils, Air Filters and Mechanical Equipment. Removes Grease, Oxidation and Built-up Dirt

- Biodegradable
- Eliminate Dirt, Grease & Oxides
- USDA Authorized
- Contains Metal Fatigue Inhibitors
- Non-Acid
- Good for all metal, copper & aluminium



## Aluminum Reinforced Tape

By roll, 30m lengths 24 rolls per carton.

Thickness(mm)	Width(mm)
0.015	45
0.015	50
0.015	75
0.015	100

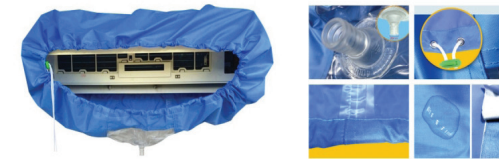
## PVC Electrical Insulation Tape

Part No.	Size
EIT-06	0.13mmx19mmx6yds
EIT-08	0.13mmx19mmx8yds
EIT-10	0.13mmx19mmx10yds
EIT-20	0.13mmx19mmx20yds
EIT-10M	0.13mmx19mmx10m
EIT-20M	0.13mmx19mmx20m

## Cloth Duct Tape

Thickness(mm)	Width(mm)	Length(m)
0.15	50	30
0.15	75	30
0.15	100	30

## Air Conditioning Cleaning Cover



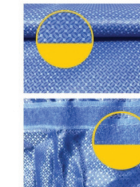
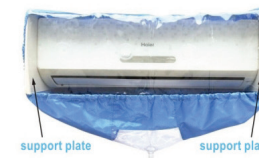
### Q-532

- **Medium:** size is suitable for circumference of less than 2.4 meters of air conditioning
- **Size:** FOR9000BTU,12000BTU,18000BTU A/C UNIT
- **Color:** BLUE

### Q-535

- **Large:** size is suitable for circumference of less than 3.2 meters of air conditioning
- **Size:** FOR18000BTU,24000BTU,36000BTU A/C UNIT
- **Color:** BLUE

## Support Plate Cleaning Cover



### Q-562

- **Medium:** Applicable to air conditioning length70-100CM
- **Color:** BLUE

### Q-565

- **Large:** Applicable to air conditioning length100-130CM
- **Color:** BLUE

## Ceiling Cleaning Cover



### Q-536

- The length of the four sides of the ceiling hood is 1.2m.
- **Color:** YELLOW



## Power Washer

Part No.	PCW-4
Voltage	220V/50-60Hz
Power	80W
Flow rate	4L/min
Working pressure	0.7-1MPa
Weight	5kgs





## Condensate Water Pump







Part No.	PC-24A
Voltage	100-230V, 50/60Hz
Discharge head	Max.10m (33ft)
Flow rate	Max.24L/H (6.2GPH)
Sound level	<16dB (A)
Tank capacity	200ml
Ambient temperature	0°C-50°C
Power consumption	3W
Current intensity	50mA








Condensate Water Pump

 <p>PC-1218</p>	Part No.	PC-1218	PC-1028
	Voltage	230V, 50/60Hz or 115V/60Hz	230V, 50/60Hz or 115V/60Hz
	Suction lift	Max.2m (6.5f)	Max.2m (6.5f)
	Discharge head	Max.12m	Max.12m
	Flow rate	Max.12L/H (3.2GPH)	Max.12L/H (3.2GPH)
 <p>PC-1028</p>	Sound level	<25dB (A)	<25dB (A)
	Tank capacity	35ml	35ml
	Mini splits up to	10KW (30,000BUT/H)	10KW (30,000BUT/H)
	Ambient temperature	0°C-50°C	0°C-50°C
	Power consumption	<16W	<16W

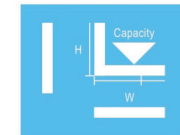
	Part No.	PC-12B	PC-36B
	Voltage	230V, 50/60Hz or 115V/60Hz	100-230V, 50/60Hz
	Suction lift	Max.2m (6.5f)	Max.2m (6.5f)
	Discharge head	Max.8m/H (26f)	Max.10m (33f)
	Flow rate	Max.12L/H (3.2GPH)	Max.36L/H (9.5GPH)
	Sound level	<19dB (A)	<21dB (A)
	Tank capacity	35ml	35ml
	Mini splits up to	8KW (30,000but/hr)	15KW (96,000but/hr)
	Ambient temperature	0°C-50°C	0°C-50°C
	Power consumption	18W	3W

	Part No.	PC-24B	PC-40B
	Voltage	100-230V, 50/60Hz	100-230V, 50/60Hz
	Suction lift	Max.2m (6.5f)	Max.2m (6.5f)
	Discharge head	Max.10m (33f)	Max.10m (33f)
	Flow rate	Max.24L/H (6.2GPH)	Max.40L/H (10.5GPH)
	Sound level	<19dB (A)	<21dB (A)
	Tank capacity	55ml	55ml
	Mini splits up to	8KW (30,000but/hr)	15KW (96,000but/hr)
	Ambient temperature	0°C-50°C	0°C-50°C
	Power consumption	3W	3W

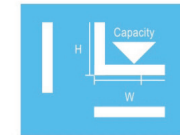
	Part No.	PC-30228	PC-50288
	Voltage	230V, 50/60Hz	230V, 50/60Hz
	Discharge head	Max.3m (9.8f)	Max.5m (16.4f)
	Flow rate	Max.15L/H (3.2GPH)	Max.50L/H (9.5GPH)
	Sound level	<45dB (A)	<55dB (A)
	Tank capacity	200ml	200ml
	Ambient temperature	0°C-50°C	0°C-50°C
	Power consumption	55W	58W
	Current intensity	50mA	50mA

 <p>PC-320A</p>	 <p>PC-125A</p>	Part No.	PC-320A	PC-125A
		Voltage	100-230V, 50/60Hz	230V, 50/60Hz or 115V/60Hz
		Suction lift	--	--
		Discharge head	Max.6m (20)	Max.4m (13f)
		Flow rate	Max.320L/H (85GPH)	Max.125L/H (33GPH)
	Sound level	<28dB (A)	<48dB (A)	
	Tank capacity	1.8L	1.8L	
	Ambient temperature	0°C-50°C	0°C-50°C	
	Power consumption	20W	60W	
	Current intensity	100mA	500mA	

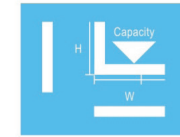
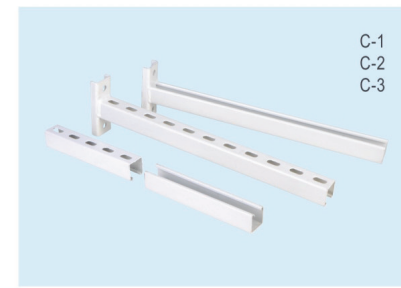
Bracket for A/C Outdoor Unit



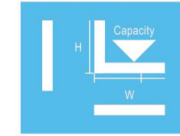
Model	H (mm)	W (mm)	Thickness (mm)	N.W. (kg)	G.W. (kg)	Capacity (kg)
A-1	365	400	1.8	2.2	2.7	150
A-2	365	450	1.8	2.5	3.0	180
A-3	400	500	2	3.0	3.5	200
A-4	450	550	2	3.4	3.9	250



Model	H (mm)	W (mm)	Thickness (mm)	N.W. (kg)	G.W. (kg)	Capacity (kg)
B-1	450	450	1.8	1.7	2.2	150
B-2	500	500	1.8	2.2	2.8	180
B-3	550	550	2	2.7	3.2	200
B-4	600	600	2	3.0	3.5	210



Model	H (mm)	W (mm)	Thickness (mm)	N.W. (kg)	G.W. (kg)	Capacity (kg)
C-1	200	400	1.8	2.5	3	150
C-2	250	550	1.8	3	3.5	180
C-3	350	650	2	3.5	4	200



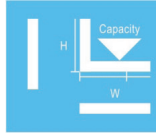
Model	H (mm)	W (mm)	Thickness (mm)	N.W. (kg)	G.W. (kg)	Capacity (kg)
G-1	365	420	1.8	1.8	2.3	150
G-2	400	450	1.8	2.2	2.7	180
G-3	400	550	1.8	2.9	3.4	200



Bracket for A/C Outdoor Unit



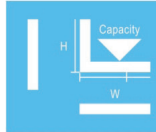
GL-1  
GL-2



Model	H (mm)	W (mm)	Thickness (mm)	Capacity (kg)	Applicable Scope
GL-1	400	450	1.5	200	7000Btu-18000Btu A/C
GL-2	400	550	1.8	250	7000Btu-36000Btu A/C



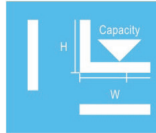
M-1  
M-2



Model	H (mm)	W (mm)	Thickness (mm)	Capacity (kg)	Applicable Scope
M-1	400	450	1.8	180	7000Btu-18000Btu A/C
M-2	400	550	1.8	180	7000Btu-36000Btu A/C



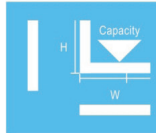
GM-1  
GM-2



Model	H (mm)	W (mm)	Thickness (mm)	Capacity (kg)	Applicable Scope
GM-1	400	450	1.5	150	7000Btu-18000Btu A/C
GM-2	400	550	1.8	180	7000Btu-36000Btu A/C

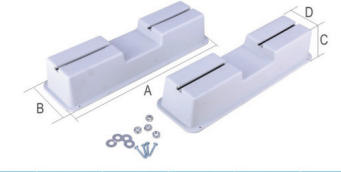


Z-1  
Z-2



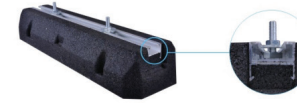
Model	H (mm)	W (mm)	Thickness (mm)	Capacity (kg)	Applicable Scope
Z-1	400	450	1.8	150	7000Btu-18000Btu A/C
Z-2	400	550	2.0	180	7000Btu-36000Btu A/C

Plastic A/C Brackets



Part No.	A (mm)	B(mm)	C(mm)	D(mm)	Application
WTG111-A	350	89	80	68	7000-12000BTU
WTG111-B	450	89	80	68	12000-24000BTU

Rubber Anti Vibration Mountings

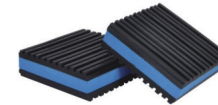


Accessory include:

- 2 pcs fixed screw rod.
- 2 pcs washer.
- 2 pcs nut.

Part No.	Size(mm)	Material	N.W.(kg)	G.W.(kg)
AVB-250	250x160x95	Rubber, Alum Alloy	2.3	2.6
AVB-450	450x160x95	Rubber, Alum Alloy	4.5	4.8
AVB-600	600x160x95	Rubber, Alum Alloy	6.2	6.5
AVB-1000	1000x160x95	Rubber, Alum Alloy	10	10.3

Anti-Vibration Pad



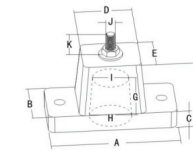
- The most effective vibration dampening pad available on the market.
- Designed to withstand 3.4 Bar.

Item Number	Item Description
MP-12E	Anti-Vibration Pad, 12in. x 12in. x 7/8in.
MP-18E	Anti-Vibration Pad, 18in. x 18in. x 7/8in.
MP-2E	Anti-Vibration Pad, 2in. x 2in. x 7/8in.
MP-3E	Anti-Vibration Pad, 3in. x 3in. x 7/8in.
MP-4E	Anti-Vibration Pad, 4in. x 4in. x 7/8in.
MP-6E	Anti-Vibration Pad, 6in. x 6in. x 7/8in.

Rubber Anti Vibration Mountings



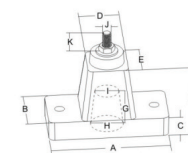
WTG002



Model	A	B	C	D	E	F	G	H	I	J	K	Applicable Scope
WTG002-A	107	48	15	48	38	58	36	35	30	8	20	7500Btu-2400Btu A/C
WTG002-B	112	50	17	53	43	60	40	36	30	8	20	7500Btu-2400Btu A/C
WTG002-C	110	48	17	50	38	121	90	35	26	8	20	7500Btu-2400Btu A/C
WTG002-D	100	45	13	48	38	53	40	36	30	8	20	7500Btu-2400Btu A/C
WTG002-E	92	42	14	41	37	52	36	35	30	8	20	7500Btu-2400Btu A/C



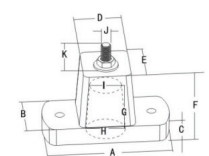
WTG001-A



Model	A	B	C	D	E	F	G	H	I	J	K	Applicable Scope
WTG001-A	110	50	17	37	66	35	30	22	8	20	7500Btu-2400Btu A/C	



WTG112-A



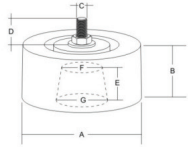
Model	A	B	C	D	E	F	G	H	I	J	K	Applicable Scope
WTG112-A	104	47	15	39	41	61	41	32	26	8	20	7500Btu-2400Btu A/C



Rubber Anti Vibration Mountings



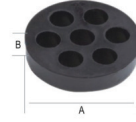
WTG005-A



Model	A	B	C	D	E	F	G	Applicable Scope
WTG005-AD	87	42	8	20	24	48	59	7500Btu-2400Btu A/C
WTG005-AX	87	42	8	20	25	36	38	7500Btu-2400Btu A/C
WTG005-B	97	60	10	30	33	50	60	7500Btu-2400Btu A/C

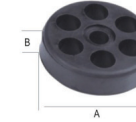


Rubber Anti Vibration Mountings



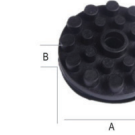
WTG004-A

A: 40  
B: 8



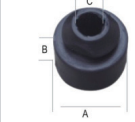
WTG004-B

A: 44  
B: 10



WTG004-C

A: 48  
B: 15



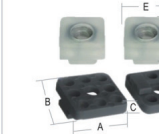
WTG117-A

A: 30  
B: 30  
C: 10



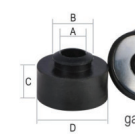
WTG009-A

A: 23  
B: 37



WTG008-A

A: 40  
B: 40  
C: 15  
D: 14  
E: 20



WTG117-C

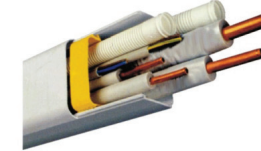
A: 9.5  
B: 15  
C: 12.5  
D: 27



WTG117-B

A: 40  
B: 28  
C: 14

Pipeline Conduit System



Ducting

- Air conditioning duct made of white rigid PVC.
- Stabilized against UV rays, shock proof & Fire proof.
- Comes in standard 2 meter lengths.
- Italian Style & quality, home owners like the look.
- Fast & simple to install.

Flexible Joint

- Used in difficult up installations.
- Made out of white rigid PVC and are suitable for duct size 90mmx65mm.
- Stabilized against UV rays, shock proof & Fire proof.
- Only available in 90mmx65mm dimensions.

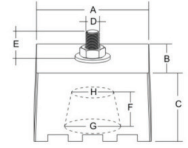


Part No.	Dimension(wxd)
PC2001	90x65x2mt

Part No.	Dimension(wxd)
PC2202	90x65x500mm



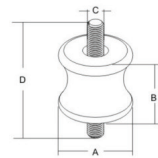
WTG006



Model	A	B	C	D	E	F	G	H	Applicable Scope
WTG006-A	80	80	25	8	20				7500Btu-2400Btu A/C
WTG006-B	80	80	50	8	20	25	40	30	7500Btu-2400Btu A/C
WTG006-C	100	100	80	10	30	40	50	40	7500Btu-2400Btu A/C



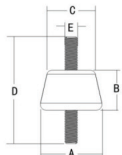
WTG113



Model	A	B	C	D	E	F	G	Applicable Scope
WTG113-A	30	30	8	70				7500Btu-2400Btu A/C
WTG113-A1	40	30	8	80				7500Btu-2400Btu A/C



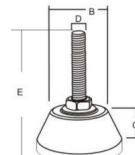
WTG-AG35 WTG-AG45



Model	A	B	C	D	E	F	G	Applicable Scope
WTG-AG35	37	24	28	62	8			7500Btu-2400Btu A/C
WTG-AG45	43	31	33	71	8			7500Btu-2400Btu A/C



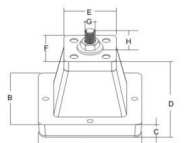
WTG-SG40 WTG-SG60



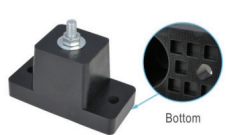
Model	A	B	C	D	E	F	G	Applicable Scope
WTG-SG40	40	33	22	8	60			7500Btu-2400Btu A/C
WTG-SG60	64	44	25	12	90			7500Btu-2400Btu A/C



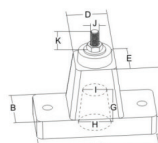
WTG124-A



Model	A	B	C	D	E	F	G	H	Applicable Scope
WTG124-A	100	100	16	72	51	51	10	20	7500Btu-2400Btu A/C



WTG112-A



Model	A	B	C	D	E	F	G	H	I	J	K	Applicable Scope
WTG112-A	98	47	16	47	41.5	56	35	36	30	8	20	7500Btu-2400Btu A/C

Part No.	Dimension(wxd)	Part No.	Dimension(wxd)	Part No.	Dimension(wxd)	Part No.	Dimension(wxd)
PC2115	90x65	PC2117	90x65	PC2116	90x65	PC2200	90x65
PC2113	90x65	PC2112	90x65	PC2102	90x65	PC2104	Upper Connector-with Seal
PC2101	90x65	PC2114	90x65	PC2201	90x65	PC2111	90x65



## Universal A/C Control System



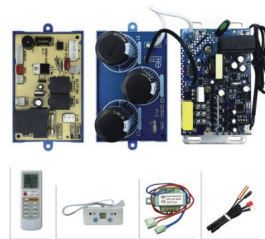
QD-U08C

- Auto-restart function.
- Sleep function.
- 5 working modes, timer on/off.
- Prevent cold breeze in heating mode.
- Accurate & stable auto fan.
- Colorful sensor socket, easy for connecting.
- Updated receiver show intuitional.
- Updated transformer, quick plug, easy for installation.
- Accurate & stable temperature control.
- Defrost automatically.
- 3 fan speed.



QD-U02B (SW)

- For AC inverter split air conditioners.
- Switch power series.
  - Same function with QD-U02B common model, and with the input voltage:
  - AC 100V-240V 50/60Hz



QD80C

- For both DC & AC inverter split air conditioners.
- Parts of control system:**
- Universal indoor board
  - Remote control
  - Universal outdoor inverter board
  - Electrolytic capacitor board.
- Service power: 1-1.5P  
**Maximum input voltage:** AC240V  
**Minimum input voltage:** AC180V  
**Maximum output current:** 11A  
**Maximum output frequency:** 100HZ

## A/C Remote Controller

Below Multi-Functional Remotes Apply to Various Air-Conditioner including:

mitsubishi, SHARP HITACHI, TOSHIBA, DAIKIN, SANYO, NEC, HAIER, NATIONAL, WHIRLPOOL, AUX, BOERKA, MIDEA, CHANGHONG, GREE, SAMSUNG, CARRIER, CHIGO, CHOFU, CONROWA, CORONA, DOCTOR, AUCMA, HYUNDAI, JDC, JINDA, ALPIN, JOHSON, KELOW, KLIMATAIR, KOLIN, KONKA.....etc.



KT-100A (100 in 1)



KT-109E (110 in 1)



KT-208 (208 in 1)



KT-508



KT-518



KT-e01 (2000 in 1)



KT-e02 (4000 in 1)



KT-e05 (4000 in 1)



KT-e08 (6000 in 1)



KT-528 (1028 in 1)



KT-N828 (2000 in 1)



KT-1000 (1000 in 1)



KT-9018E (4000 in 1)



KT-109U



KT-6018 (6000 in 1)



KT-3999 (4000 in 1)



QD-U12A

- LCD background light display panel.
- Auxiliary heating function.
- Anions fresh air function.
- Power protection.
- Other features same as QD-U10Q.



ZL-U02B

- 5 Working Mode.
- 3 Fan Speed.
- Accurate & Stable Temperature.
- Accurate & Stable Auto Fan.
- Timer In-line/Off -in Sleep.
- Time Defrost.
- Compersor protect timer for its run and stop.
- Prevent cold wind in heating mode.



ZL-U02C

- Economic model, 2 fan speed other function same as that of ZL-U02B, price is even low.
- There are some other processes for this model, the result is more easy installation, more safe.



ZL-U10A

- High quality, full function.
- It is suitable for both split and cabinet conditioner.
- In control and display panel, And the manipulation is so simple as that the baby and old man can control the conditioner without any difficulty.



ZL-U03A

- Compared with U02B, its defrosting function works when the temperature difference of the input and output air less than 16 Celsius.
- So it is more efficient in heating mode, and suitable for cold area.



QD61

- Manual control panel.
- LCD display panel, big and distinct character.
- Auxiliary electric heating.
- Outdoor fan controlled independent.
- Auto-restart function. (optional)