



**FavorCOOL<sup>®</sup>**

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**FavorCOOL<sup>®</sup>**

... Inspiration for better life ...



**2017 Collection**

[www.favorcool.com](http://www.favorcool.com)

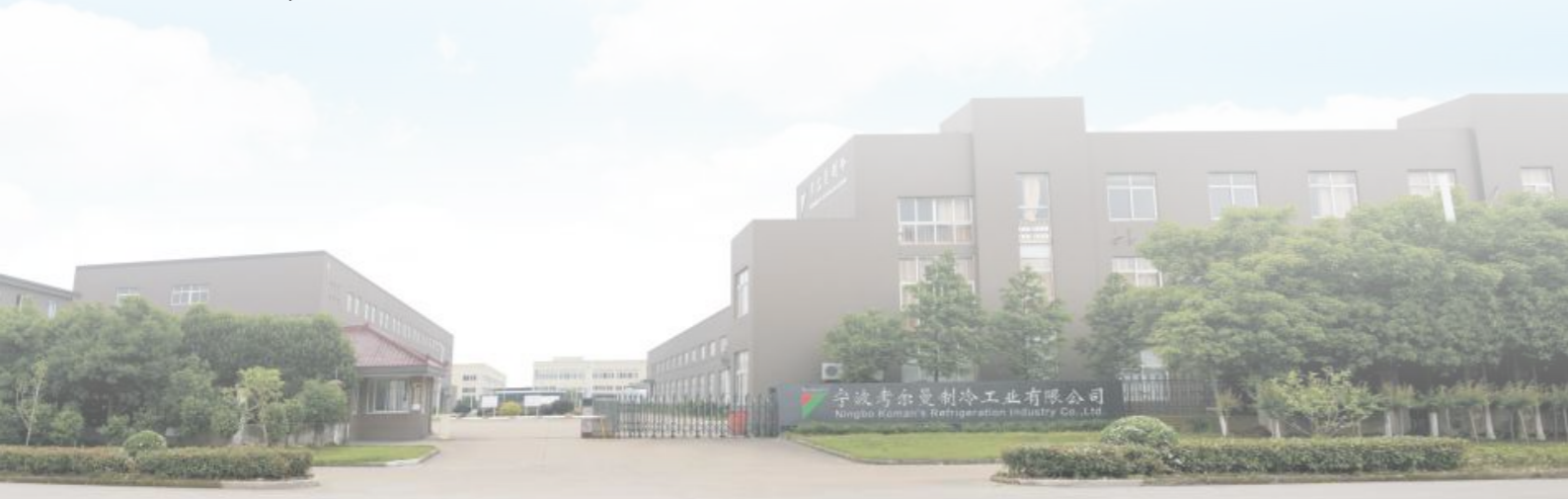


# THE BEST QUALITY

## HVAC/R PRODUCTS IN CHINA

Sino-Resource Group, founded in 1995, is the leading manufacturer and exporter in China for HVAC/R products. With more than 22 years of service to our customers and partners, we have expanded to cover a wide range of activities including trading, manufacturing, logistics and consulting-investment services. The Group consists of 13 wholly-owned companies and 6 joint-ventures.

Beginning in 1997, Sino Resource started to offer products under our own FavorCool® brand. With our exceptional quality, competitive pricing and attention to details, FavorCool® has grown to become a well known name in our industry. Our ever-expanding range of spare parts, equipment and engineering solutions for HVAC/R, will allow us to continue growing to exceed our customer's needs. Please contact our sales department for more information.



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Inspiration for better life



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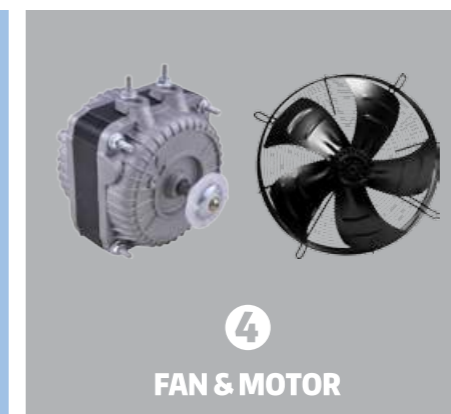
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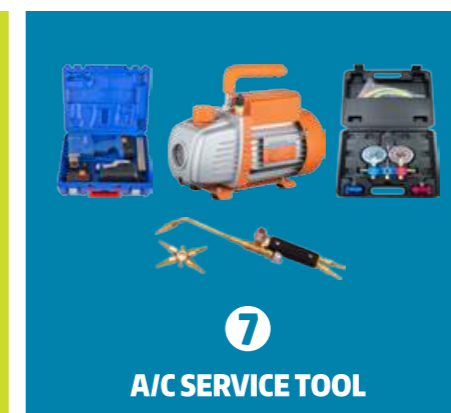
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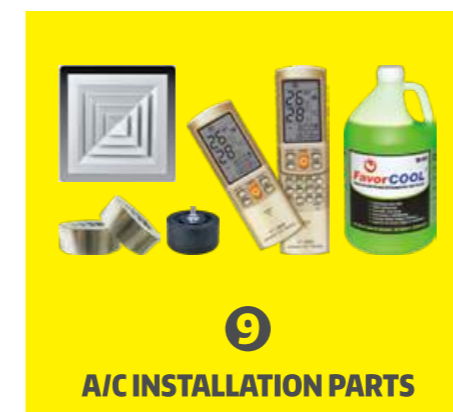
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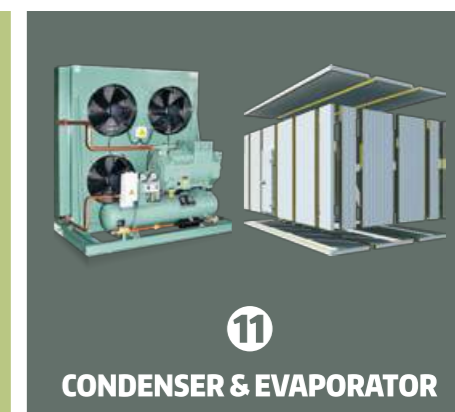
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# ① REFRIGERANT & CHEMICAL

.....  
**FavorCOOL<sup>®</sup>**

QUALITY DELIVERED



# HFO-1234YF



## QUALITY INDEX

- Purity(%): ≥99.9
- Water(ppm by weight): ≤10
- Acidity(ppm by weight as HCl): ≤1.0
- High boiling residue(% by volume): ≤0.01

## PHYSICAL AND CHEMICAL PROPERTIES

- Physical state: Liquefied gas
- Color: clear
- Odor: slight
- Boiling point / boiling range: -29.4°C
- Lower flammability limit(V): 6%
- Upper flammability limit(V): 12.3%
- Vapor pressure: 6,067 hPa at 21.1°C(70.0°F)
- 14,203 hPa at 54.4°C(129.9°F)
- Vapor density: 4(Air=1.0)
- Density: 1.1g/cm<sup>3</sup> at 25°C
- Water solubility: 198.2mg/l at 24°C
- Ignition temperature: 405°C
- Molecular weight: 114g/mol





# REFRIGERANT



## REFRIGERANTS ISO TANK



### HFO

Designation	Complete	Formula	CAS number	Main applications
HFO-1234yf	2,3,3,3-Tetrafluoroprop-1-ene	C3H2F4	754-12-1	Relacement for R134a in auto-mobile A/C
HFO-1234ze	trans-1,3,3,3-Tetrafluoroprop-1-ene	CF3CH=CHF	471-480-0	Replacement for R134a, R152a as propellant

### HFC

Designation	Complete	Formula	CAS number	Main applications
HFC-32	Difluoromethane	CH2F2	1975/10/5	Blend component for airconditioning equipment and commercial refrigeration
HFC-125	Pentafluoroethane	CHF2CF3	354-33-6	Blend component for airconditioning and commercial refrigeration firefighting agent
HFC-134a	1,1,1,2-Tetrafluoroethane	CH2FCF3	811-97-2	Blend component for mobile and strationary air conditioning, and for domestic refrigerators / freezers propellant for extruded polystyrene foams(XPS)
HFC-143a	1,1,1-Trifluoroethane	CF3CH3	420-46-2	Blend component for airconditioning equipment and commercial refrigeration
HFC-152a	1,1-Difluoroethane	CH3CHF2	75-37-6	Propellant for specialised industrial aerosols blowing agent component for extruded polystyrene foams(XPS)
HFC-227ea	1,1,1,2,3,3,3-Heptafluoropropane	CF3CHFCF3	431-89-0	Propellant for medical aerosols firefighting agent
HFC-236fa	1,1,1,3,3,3-Hexafluoropropane	CF3CH2CF3	290-39-1	Firefighting agent
HFC-245fa	1,1,1,3,3-Pentafluoropropane	CF3CH2CHF2	460-73-1	Foam blowing agent for polyurethane(PUR) foams
HFC-365mfc	1,1,1,3,3-Pentafluorobutane	CF3CH2CF2CH3	406-58-6	Foam blowing agent for polyurethane(PUR) and phenolic foams.blend component for solvents

### HCFC

Designation	Complete	Formula	CAS number	Main applications
HCFC-22	Chlorodifluoromethane	CHClF2	75-45-6	Refrigerant(pure or in blends for CFC drop-ins) Blowing agent component for polyurethane foams(PUR) and for extruded polystyrene foams(XPS)
HCFC-123	2,2-dichloro-1,1,1-trifluoroethane	CHCl2CF3	306-83-2	Refrigerant for large chillers firefighting agent
HCFC-124	1-chloro-1,2,2,2-tetrafluoroethane	CHClF-CF3	20837-89-0	Refrigerant in special applications Firefighting Agent
HCFC-141B	1,1-dichloro-1-fluoroethane,dichloro fluoroethane	CCL2FCH3	1717-00-6	Blowing agent for polyurethane foams(PUR) and for extruded polystyrene foams(XPS)
HCFC-142B	1-chloro-1,1-difluoroethane	CClF2CH3	75-68-3	Blowing agent component for polyurethane foams (PUR) and for extruded polystyrene foams (XPS)

### Mixed Refrigerant

Designation	Complete	Formula	CAS number	Main applications
R404A	Mixed Refrigerant	R125/R143/R134A	--	As the long-term substitute for the R22 and R502, R404A used in refrigerating systems of low & moderate temperature.
R406A	Mixed Refrigerant	R22/R142B/R600A	--	Susitute for R12 and R134a
R407C	Mixed Refrigerant	R125/R32/R134A	--	As the long-term substitute for R22, R407C used mainly in the air conditioner and non-centrifugal refrigerating systems.
R407F	Mixed Refrigerant	R125/R32/R134A	--	Substitute for R22, R404A and R507 in low and medium temperature refrigeration applications.
R408A	Mixed Refrigerant	R125/R143A/R22	--	As substitute for R22
R410A	Mixed Refrigerant	R125/R32	--	As the long-term substitute for R22, R410A used mainly in the conditioners and refrigerating systems.
R417A	Mixed Refrigerant	R125/R134A/R600	--	As substitute for R22
R422D	Mixed Refrigerant	R125/R134A/R600A	--	As substitute for R22
R426A	Mixed Refrigerant	R125/R134A/R600/R601A	--	Replacement for R12 in mobile air conditioning, but can also be used across the range of applications where R12 was commonly found.
R438A	Mixed Refrigerant	R32/R125/R134A/R600/R601A	--	Replace R-22 direct expansion systems in air conditioning (high-temperature) applications and medium- and low-temperature refrigeration applications.
R507	Mixed Refrigerant	R125/R143A	--	As the long-term substitute for R502, R507 used mainly in the low temperature refrigerating systems.

## 1230 Fire Extinguishing Agent

Koman's 1230 is a new clean fire extinguishing agent which is colorless, odorless, transparent and insulating liquid.

- 1230 is a liquid at room temperature with low tank pressure and convenience of transportaion;
- All the class-A, B, C fire can be extinguished without any corrosion to metal (carbon steel, CU, Mo, stainless steel), or any damage to electronic components and circuiy on account of its good insulation property;
- The fire extinguishing concentration is far below the harmful level, which ensures a big safely margin.

Performance	Dukare®1230	Halon1301	HFC-227ea	HFC-236fa
ODP	0	12.0	0	0
GWP, CO2=1, ITH	1	6900	3800	9400
Atmospheric Lifetime	0.014	65	36.5	226.0
SNAP (Y/N)	Y	N	Y	N
Minimum Extinguishing Concentration (% v/v)	4.0-6.0	5.0	8.0	6.3
NOAEL (% v/v)	10	5.0	9.0	10
LOAEL (% v/v)	10	7.5	10.5	15

AS an excelent substitute of Halon and HFCs, Koman's 1230 is far beyong other agents in safety, efficiency an environmental performance.



## Easy-Flush Clean Agent

Easy-Flush is a flushing solvent for air conditioning and refrigeration systems, refrigerant conversions and compressor burnouts. Easy-Flush is compatible with all refrigerants and compressor oils. Easy-Flush is the answer for technicians who need a professional quality flushing solvent as well as the components to match.

- Flushing and cleaning solvent for Refrigeration Systems and A/C;
- High prefor mance, Fast-drying and Residue Free Cleaner;
- Non Flamable and non Ozone Depleting solvent;
- CFC, HCFC and HFC'S Compatible;
- Electric and Circuit Board Cleaner.

- Content : 99.9% Methylene chloride
- CAS #: 75-09-2
- Chemical Formula : C-H2-Cl2



5kgs

1kg





# Refrigeration Oil



## Synthetical Oil POE Series

Item	Test Way	S-22	S-32	S-68	S-100	S-170	S-220	S-320
Density 15°C g/cm³	ASTM D 1250	0.928	0.940	0.951	0.956	0.958	0.960	0.970
Color ASTM	ASTM D 1500	L0.5	L0.5	L0.5	L0.5	L0.5	L0.5	L0.5
Viscosity 40°C mm²/s	ASTM D 445	10.1	15.0	22.5	32.3	44.8	66.6	99.2
Viscosity 100°C mm²/s	ASTM D 445	2.50	3.22	4.14	5.14	6.90	8.22	10.2
Flash Point COC °C	ASTM D 92	182	196	212	230	240	254	254
Pour Point °C	ASTM D 97	-50	-50	-50	-35	-35	-40	-40
Acid ua/ue mgKOH/g	ASTM D 974	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Moisture PPM	ASTM E 1064	<50	<50	<50	<50	<50	<50	<50

## Synthetical Oil PAG Series

Item	Test Way	PAG 56	PAG100
Density 15°C g/cm³	ASTM D 1298	1.015	1.048
Color Hazen	ASTM D 1209	L0.5	L0.5
Viscosity 40°C mm²/s	ASTM D 445	56.4	94.8
Viscosity 100°C mm²/s	ASTM D 445	10.6	19.2
Flash Point COC °C	ASTM D 92	234	246
Pour Point °C	ASTM D 97	-40	-42.5
Acid ua/ue mgKOH/g	ASTM D 974	0.4	0.4
Moisture %	ASTM E 1064	50	50

## Mineral Oil GS Series

Item	Test Way	3GS	4GS	5GS
Density 15°C g/cm³	ASTM D 1298	0.909	0.915	0.921
Color Hazen	ASTM D 1500	L0.5	L1.0	L1.0
Viscosity 40°C mm²/s	ASTM D 445	29.5	54.9	94.6
Viscosity 100°C mm²/s	ASTM D 445	4.31	5.97	7.78
Flash Point COC °C	ASTM D 92	178	188	208
Pour Point °C	ASTM D 97	-40	-35	-27.5
Acid ua/ue mgKOH/g	ASTM D 974	0.01	0.01	0.01
Aniline Point °C	ASTM D 611	75.4	79.8	80.4
Moisture %	ASTM D 4298	20	20	20
Floc Point °C	ANSI/ASHRAE 86	-55	-46	-35

# Vacuum Pump Oil














Vacuum pumps can be operated with oil listed below; using different oils affect all specified ultimate vacuum and cold starting.

Part No.	Viscosity (40°C), mm²/s	Viscosity Index ≥	Flash Point °C ≥	Pour Point °C ≥
46	41.4-50.6	101	230	-10
68	61.2-74.8	101	240	-10
100	90-110	105	250	-10

250ML

# Recommendation list

Refrigeration equipment	Refrigerant	Type of Compressor	Recommendation
Refrigerator 	R600a, R290	Reciprocating Rotary	LUBIL 1GS-3GS LUBIL 3GS
	R-502	Rotary	LUBIL 3GS
	R-134a	High-efficiency Standard	LUBIL S-10, S-15 LUBIL S-22, S-32
Air conditioner 	R-22	Reciprocating Standard	LUBIL 3GS LUBIL 4GS
	R-407C	Rotary	LUBIL S-68
	R-410A	Rotary	LUBIL S-68
Central air-conditioner 	R-22, R-502	Reciprocating	LUBIL 3GS
		Rotary	LUBIL 4GS (5GS)
		Centrifugal	LUBIL 4GS
Cold room 	R-123	Scroll (high pressure)	LUBIL 4GS
		Scroll (high pressure)	LUBIL 3GS
Freeze unit 	--	Evaporate temperature above -40°C: 4GS, Evaporate temperature below -40°C: 3GS	
		Above -29°C	LUBIL 4GS
Condenser unit 	R-717 (NH3)	Below -29°C	LUBIL 3GS
		Reciprocating	LUBIL S-32
		Rotary	LUBIL S-68
Cooling show case 	R-22	-40	LUBIL S-68
		Reciprocating	LUBIL 3GS, 4GS
		Rotary	LUBIL 4GS
Car air conditioner 	R-1234f	Reciprocating	LUBIL 3GS, 4GS
		Rotary	LUBIL 4GS
Refrigerator car Refrigerator ship 	R-134a, R-404A R-407C, R-410A	Reciprocating	LUBIL 3GS, 4GS
		Rotary	LUBIL 4GS
Refrigerator car Refrigerator ship 	R-22	Reciprocating	LUBIL 3GS-5GS
		Rotary	LUBIL S-32
Refrigerator car Refrigerator ship 	R-134a, R-404A R-407C, R-410A	Reciprocating	LUBIL S-32
		Rotary	LUBIL S-68

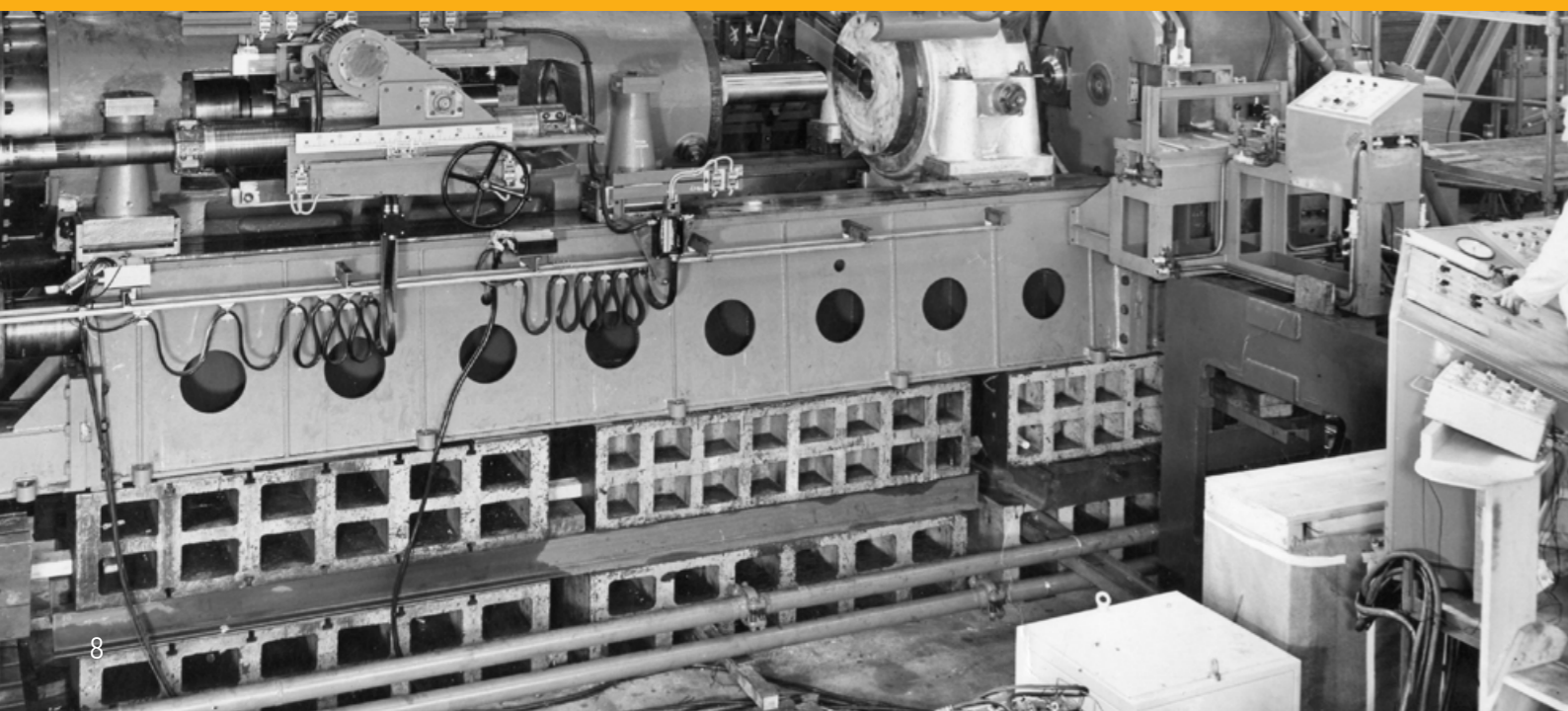


# 2 COPPER TUBE & FITTING

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## FavorCOOL®

QUALITY DELIVERED



Size: 1/4"-5 1/8"

Coupling with Stop C×C



Coupling with Roll-Stop C×C



Reducing Coupling C×C



Fitting Reducing C×FTG.



90° Elbow-Short Radius C×C



90° Elbow-Short Radius C×FTG.



90° Elbow-Long Radius C×C



90° Elbow-Long Radius C×FTG.



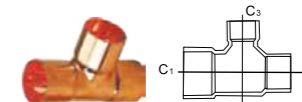
45° Elbow C×C



45° Elbow C×FTG.



Tee C×C×C



Cap (Tube End)



Return Bend C×C



Suction Line(P-Trap) C×C



Male Adapter M×C



Female Adapter F×C





## 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

## 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. (inch)	Thickness* (inch)	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.

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)

## Thermoplastic Capillary Hoses



- Tee fitting with side nut 1/4" SAE  
TPC-204
- Tee nipple  
TPC-104
- Tee female nipple  
TPC-203
- Insert with depressor  
TPC-102
- 90° female fitting 1/4" SAE  
TPC-202
- 1/4" Copper gasket  
TPC-401
- Straight fitting  
TPC-101
- Nut  
TPC-201
- Brass Sleeve  
TPC-107
- Alum Sleeve  
TPC-107
- Crimper  
TPC-CM
- Cutter  
TPC-CT

### References for application scenarios



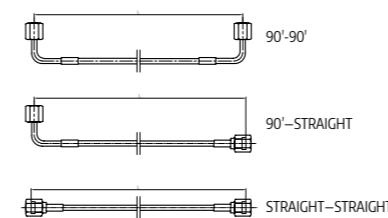
Connection with pressure gauge, control units and oil return pipe.

### 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.

Hose Part Number	Inner Diameter	Outer Diameter	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

### Hose Assembly Overall Length (mm)



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

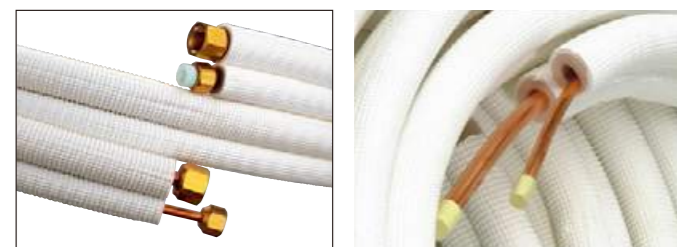
Assemble one hose and check that the average diameter of the crimped sleeve is 7.1mm (just one of the four diameters can be maximum 7.3mm). If not, regulate the cam till the obtained crimped sleeve is perfect on the basis of the above mentioned measures.

## Assembly Instructions

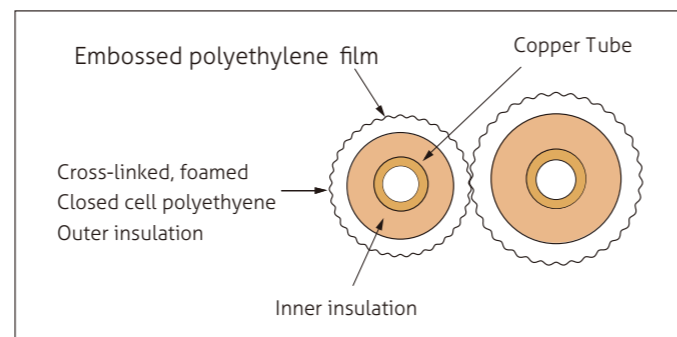
1. Cut the hose using proper shears, automatic or manual cutters. The cut must be perfectly square and smooth.
2. Insert the sleeve on the hose with the groove towards the hose side to be assembled.
3. Insert the nut onto the hose.
4. Push the insert inside the hose.
5. Make the nut slide onto the external part of the insert (flare) and push the sleeve till it covers the bottom of the free insert.
6. Assemble the hose by positioning manual pliers on the sleeve covering its whole surface. Crimp till hand pliers open automatically. A second crimping is useful to obtain a safer assembling.



### Insulated Double Coil



### Three-layer Insulation



Pair Coil Description		Insulating Thickness (mm)	Pair Coils Per Carton	Carton Dimensions	
Copper Tube Outside Diameter x Wall Thickness (inch)	(mm)			(20m)	(30m)
1/4-3/8	6.35x0.80-9.53x0.80	8	1	57x57x18	67x67x17
1/4-1/2	6.35x0.80-12.70x0.80	8	1	61x61x19	69x69x18
1/4-5/8	6.35x0.80-15.88x1.00	8	1	72x72x20	83x83x22
3/8-1/2	9.53x0.80-12.70x0.80	8	1	61x61x19	72x72x19
3/8-5/8	9.53x0.80-15.88x1.00	8	1	72x72x20	83x83x22
3/8-3/4	9.53x0.80-19.05x1.00	8	1	75x75x22	87x87x22
1/2-3/4	12.70x0.80-19.05x1.00	8	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 per specific requirement.

### Insulation Tube



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	12	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" x 48"	26	20	14	10
1m x 10m	1	1	1	1

# 3 COMPRESSOR

FavorCOOL<sup>®</sup>

QUALITY DELIVERED







R134a 220V / 50Hz

HERMETIC COMPRESSOR FOR REFRIGERATOR

Part No.	Displ. (m <sup>3</sup> /h)	Power (HP)	Motor Type	Cooling Capacity (w)	Input Power without RC (w)	COP		Voltage	
						Discharge	Frequency		
GQR60AA	6.0	1/6	RSIR	140	116	1.21	220V/50Hz		
GQR70AA	6.6	1/5	RSIR	165	136	1.21	220V/50Hz		
GQR80AA	8.1	1/4	RSIR	198	166	1.19	220V/50Hz		
GQR90AA	9.1	1/4	RSIR	220	184	1.19	220V/50Hz		
GQY99AA	9.9	1/4	RSIR/RSCR	270	203	1.33	220V/50Hz		
GPY12AF	11.8	1/3	CSIR	325	244	1.33	220V/50Hz		
GPY16AF	16.2	3/8	CSIR	380	292	1.30	220V/50Hz		
GQR60TG	6.0	1/5	CSIR	520	260	2.00	220V/50Hz		
				600	290	2.10	220V/60Hz		
GQR80TG	8.1	1/4	CSIR	730	340	2.15	220V/50Hz		
				800	380	2.10	220V/60Hz		
GQR90TG	9.1	1/4	CSIR	830	370	2.24	220V/50Hz		
				920	436	2.24	220V/60Hz		
GP12TG	11.8	3/8	CSIR	1140	520	2.19	220V/50Hz		



CMA Series



NS/NSA Series



MS/MSA Series

R600a 220V~240V / 50Hz

HERMETIC COMPRESSOR FOR REFRIGERATOR

Part No.	ASHRAE (Eva/Cond +-23.3°C/54.4°C)								
	PTC/ *M~RSCR, *G~RSIR						e-PTC/RSCR		
	Cooling Capacity			Power	COP	EER	Power	COP	EER
	(kcal/hr)	(w/he)	(Btu/hr)	(w)	(w/w)	(Btu/w.hr)	(w)	(w/w)	(Btu/w.h)
CMA057NAEM	84	98	335	51.20	1.91	6.53	49.7	1.97	6.73
CMA062NAEM	96	112	382	58.40	1.92	6.55	56.9	1.97	6.72
CMA069NAEM	103	120	410	62.50	1.92	6.56	61.0	1.97	6.72
CMA075NAEM	120	139	475	72.10	1.93	6.58	70.6	1.97	6.72
CMA082NAEM	129	151	514	78.00	1.93	6.59	76.5	1.97	6.72
CMA089NAEM	139	162	553	83.70	1.94	6.61	82.2	1.97	6.73
CMA098NAEM	155	180	615	94.8	1.90	6.48	93.3	1.93	6.59
CMA0110NAEM	167	194	662	106.40	1.82	6.23	104.9	1.85	6.31
**CMA121NBEM	187	218	744	119.30	1.83	6.24	117.8	1.85	6.32
CMA057NHEM	84	98	335	54.40	1.80	6.15			
CMA062NHEM	97	113	386	61.10	1.85	6.31			
CMA069NHEM	103	120	410	65.00	1.84	6.28			
CMA075NHEM	120	139	475	75.00	1.85	6.33			
CMA082NHEM	127	148	504	80.00	1.84	6.29			
CMA089NHEM	138	161	548	87.00	1.84	6.30			
CMA098NHEM	156	181	618	99.30	1.82	6.22	97.8	1.85	6.32
CMA082NJEG	127	148	505	89.70	1.65	5.63			
CMA089NJEG	138	160	546	97.60	1.64	5.60			
CMA098NJEG	155	180	615	112.50	1.60	5.46			
CMA098NJEM	152	177	604	108.00	1.64	5.60			

R134a 220V~240V / 50Hz

LBP HERMETIC COMPRESSOR FOR REFRIGERATOR

Part No.	Application	Series	Dis cc	Cooling Capacity			Power (w)	COP (w/w)	EER (Btu/w.h)
				(kcal/hr)	(w/he)	(Btu/hr)			
NS24LAEG	LBP	NS	2.4	38	44	151	76	0.58	1.99
NS24LBEG	LBP	NS	2.4	36	42	143	64	0.65	2.23
NS30LAEG	LBP	NS	3.0	54	63	214	84	0.78	2.65
NS36LAEG	LBP	NS	3.6	66	77	262	89	0.86	2.94
MSA30LAEG	LBP	MSA	3.0	67	78	266	80	0.97	3.30
MSA43LBEG	LBP	MSA	4.3	100	116	397	106	1.11	3.78
MSA43LAEM	LBP	MSA	4.3	100	116	397	94	1.23	4.20
MA98LAEM	LBP	MA	9.8	240	279	953	183	1.52	5.20
MA53LHEM	LBP	MA	5.3	129	150	512	106	1.42	4.83
MA57LHEM	LBP	MA	5.7	138	160	548	113	1.42	4.85
MA62LHEM	LBP	MA	6.2	150	174	596	137	1.27	4.35
MA69LHEM	LBP	MA	6.9	172	200	683	146	1.38	4.70

OEM BRAND



R134a 220V / 50Hz

L/MBP HERMETIC COMPRESSOR FOR REFRIGERATOR

Part No.	Displ. (cm <sup>3</sup> )	Power HP	Motor Type	Cooling	Capacity (W)/54.4/130 F Condensing Temp										COP/W/W		Input Power (W)	
					-35°C	-30°C	-25°C	-23.3°C	-20°C	-15°C	-10°C	-6.7°C	-5°C	0°C	-23.3°C	-6.7°C	-23.3°C	-6.7°C
QD30H	3.0	1/10	RSIR	S	35	49	63	70	90	112	152	170	188	210	0.85	1.9	82	89
QD35H	3.5	1/8	RSIR	S	40	56	72	80	105	128	176	220	242	275	0.9	1.98	89	111
QD43H	4.3	1/7	RSIR	S	47	65	83	110	121	149	216	270	297	338	0.95	2.01	116	134
QD52H	5.5	1/7	RSIR	S	70	95	123	136	177	218	280	350	385	438	1.15	2.01	118	174
QD59H	6.2	1/6	RSIR	S	85	115	149	165	215	265	312	390	430	488	1.2	2	138	195
QD65H	6.6	1/5	RSIR	S	95	129	167	185	241	297	350	430	473	538	1.25	2.02	148	193
QD75H	7.6	1/5+	RSIR	S/F	105	147	190	210	273	337	387	495	545	618	1.25	2.1	168	236
QD91H	8.8	1/5+	RSIR	S/F	115	160	207	230	300	368	425	530	583	655	1.37	2.12	168	250
QD110H	10.6	1/4+	RSIR	F	135	189	243	285	370	456	520	650	715	813	1.41	2.12	202	307
QD120H	11.6	1/3	RSIR	F	165	231	297	330	430	528	576	720	792	900	1.41	2.12	234	340
QD128H	12.3	3/8	RSIR	F	180	252	324	360	468	576	740	925	1018	1156	1.31	2	275	463
QD142H	13.5	3/8+	CSIR	F	195	273	351	390	507	624	800	1000	1100	1250	1.3	2	300	500
QD158H	15.3	3/8+	CSIR	F	215	300	387	430	560	690	890	1120	1230	1400	1.3	2	331	560
QD168H	16.3	1/2	CSIR	F	230	322	415	460	598	736	976	1220	1340	1530	1.3	2	354	610



R22 220~240V/50Hz/1PH

Rotary compressor for air-conditioner

Part No.	Number of cylinders	Displ. M1	Capacity		Power(W)	COP(W/W)	Capacitor(uf/V)
			Btu/h	W			
QX-A104L190	Single	10.40	5903	1730	577	3.00	35µF/450V
QX-B161CO30A	Single	16.10	9207	2700	830	3.25	25µF/450V
QX-C214E030g	Single	21.10	11867	3480	1070	3.25	35µF/450V
QX-D273F050	Single	27.30	15601	4575	1452	3.15	45µF/450V
QX-D305F050	Single	30.70	17903	5250	1590	3.30	50µF/450V
QXS-F415N050	Twin	41.50	24482	7180	2208	3.25	50µF/450V
QX-34F050gA	Single	33.69	19846	5820	1848	3.15	55µF/450V
QXS-F428N050	Twin	42.80	25200	7390	2346	3.15	50µF/450V

R410A 220~240V/Hz/1PH

Rotary compressor for air-conditioner

Part No.	Number of cylinders	Displ. M1	Capacity		Power(W)	COP(W/W)	Capacitor(uf/V)
			Btu/h	W			
QXA-F20F090	Single	20.00	16709	4900	1580	3.10	50µF/450V
QXA-F22F090	Single	22.00	18278	5360	1729	3.10	50µF/450V
QXA-F24F050	Single	24.00	20460	6000	1935	3.10	60µF/450V
QXAS-F265F050	Twin	26.50	22320	6546	2112	3.10	50µF/450V
QXAS-F278N050	Twin	27.80	23415	6867	2215	3.10	50µF/450V
QXAS-F325N050	Twin	32.50	27374	8028	2589	3.10	50µF/450V
QXA-A071L130B	Single	7.10	5664	1660	615	2.70	25µF/450V
QXA-A088L190	Single	8.80	7270	2130	790	2.70	35µF/450V
QXA-B109uB030	Single	10.97	8832	2590	863	3.00	30µF/450V
QXA-C145B030	Single	14.50	12106	3550	1240	2.86	35µF/450V



Rotary compressor for air-conditioner

Motor TFD	Norminal power (Hp)	Displ.(m <sup>3</sup> /h)	Capacitor (Single Phase Select)
220V/240V 50Hz 208V/230V 60Hz 115V 60Hz	R-22, R-410a, R-407C, R-290, R-32	4900BTU ~ 28000BTU	T1, T3
220V/240V 50Hz 208V/230V 60Hz	R-134a, R-22, R-410a, R-290	3800BTU ~ 37000BTU	T1, T3



Rotary compressor for air-conditioner

Motor TFD	Norminal power (Hp)	Displ.(m <sup>3</sup> /h)	Capacitor (Single Phase Select)
220V/240V 50Hz 380V 50Hz 208V/230V 60Hz 115V 60Hz	R-22, R-410a, R-290, R-32	4700BTU ~ 28000BTU	T1, T3





**Copeland® ZB Series Scroll Compressor**

Part No.	Motor TFD	Nominal power (Hp)	Displ. (m³/h)	Current		Capacitor (Single Phase Select)	Connction tube (inch)		Oil charge (L)
				(RLA) TFD	(A) PF		Discharge	Suction	
ZB15KQ / ZB15KQE	PFJ/TFD	2	5.9	4.3	11.4	40 µ F/370V	1/2	3/4	1.18
ZB19KQ / ZB19KQE	PFJ/TFD	2.5	6.8	4.3	12.9	45 µ F/370V	1/2	3/4	1.45
ZB21KQ / ZB21KQE	PFJ/TFD	3	8.6	5.7	16.4	50 µ F/370V	1/2	3/4	1.45
ZB26KQ / ZB26KQE	PFJ/TFD	3.5	9.9	7.1	18.9	60 µ F/370V	1/2	3/4	1.45
ZB29KQ / ZB29KQE	TFD	4	11.4	7.9	19.3	60 µ F/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 Scroll Compressor**

Part No.	Nominal Power (HP)	Nominal Capacity		Input power (W)	Current (A)	Displ (cm³/rev)	Weight (kg)	Height (mm)	Noisse (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	118,000	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 Code	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
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**

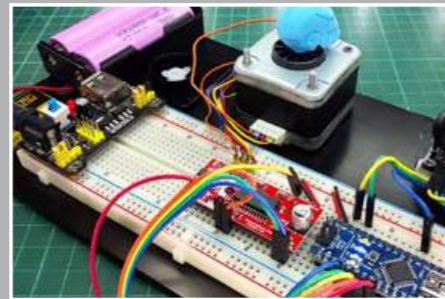
Part No.	HP	(W)		(W)	(A)		(Btu/Wh)	(cc/Rev.)	(l)
		W	Btu/h		COP	EER			
MLZ015	2	3,300	11,300	1.75	1.89	6.45	33.8	5.9	1.1
MLZ019	2.5	4,500	15,400	2.16	2.06	7.03	43.5	7.6	1.1
MLZ021	3	4,700	16,000	2.27	2.08	7.10	46.2	8.0	1.1
MLZ026	3.5	5,800	19,800	2.9	2.00	6.83	57.1	9.9	1.1
MLZ030	4	7,100	24,200	3.35	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



# ④ FAN & MOTOR

.....  
**FavorCOOL<sup>®</sup>**

QUALITY DELIVERED



YJF Series Condenser Fan Motor



YJFN Series Condenser Fan Motor



EBM 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	220/230	1300/1550	CW or CCW
YJF310	YJFN310	EBM310	10	110V or 220V	50/60	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



Grid



Flange



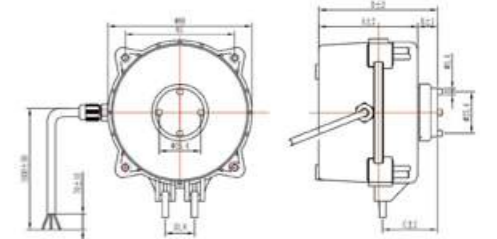
Fan Blade



Bracket

## EC Motor

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



EC



Part No.	Voltage	Frequency	Input	Current	Speed	Air Volume	Fan Blade	License
GE7108	220-240	50/60	4.5	0.04	1300	420	Φ170/28°	VDE CE UL
GE7112	220-240	50/60	9.5	0.08	1300	660	Φ230/28°	VDE CE UL

## Cross Flow Fan (Low Noise)



Part No.	Voltage (VAC)	Diameter (mm)	Power (w)	RPM	Air Flow (m <sup>3</sup> /h)	Wheel Length (mm)
BW-1	220	60	33	1800	150	180
BW-2	220	60	33	1700	170	240
BW-3	220	60	45	1450	250	360



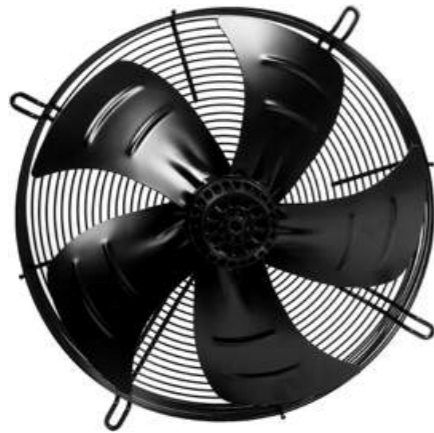


## Axial Fan

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.(kgs)
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.



Part No.	Voltage (V)	Frequency (Hz)	Current (A)	Input (W)	Shaft Size (Inch)	Rotation
SM102J	220	50/60	0.12	13	1/8" x 1"	CW
2J01289B	220	50/60	0.085	8	--	CCW
KM334	220	50/60	0.18	15	3/16" x 1/16"	CW
YJF607A-5C	220	50/60	0.065	7	1/8" x 1-5/16"	CW/CCW
SM672	220	50/60	0.32	20	3/16" x 1-7/16"	CW/CCW
SM998	240	50	0.2	18	1/8" x 2"	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" x 1-5/16"	CW/CCW
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: 10MΩ 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



# 5 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

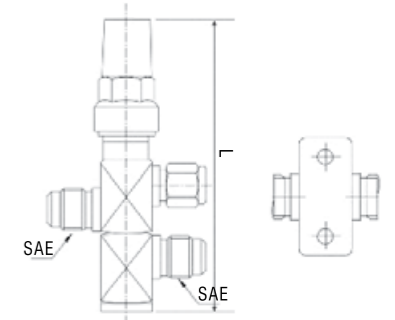


Part No.	Tube	Thread
V01	3/8"	1" x 14
V02	1-1/8"	1-3/4" x 12
V03	1-3/8"	1-3/4" x 12
V04	3/4"	1-1/4" x 12
V05	7/8"	1-1/4" x 12
V06	1/2"	1" x 14
V07	7/8"	1-3/4" x 12
V08	5/8"	1" x 14
V09	5/8"	1-1/4" x 12



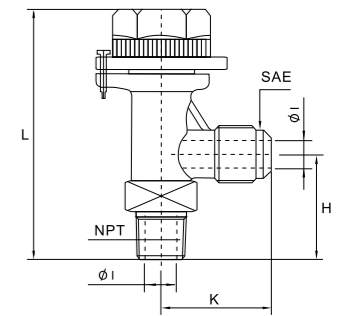
Part No.	Tube	Thread
VS01	3/8"	1" x 14
VS02	1-1/8"	1-3/4" x 12
VS03	1-3/8"	1-3/4" x 12
VS04	3/4"	1-1/4" x 12
VS05	7/8"	1-1/4" x 12
VS06	1/2"	1" x 14
VS07	7/8"	1-3/4" x 12
VS08	5/8"	1" x 14
VS09	5/8"	1-1/4" x 12

## Vertical Valves With Bracket



Part No.	SAE		L (mm)	Valve body
	inch	mm		
TBVF1	1/4"	6	110	20
TBVF2	3/8"	10	110	20
TBVF3	1/2"	12	110	20
TBVF4	5/8"	16	110	20
TBVF5	3/4"	19	153	30
TBVF6	7/8"	22	153	30

## Safety Valves



Part No.	SAE Flare	NPT	H (mm)	K (mm)	l (mm)	L (mm)
SV1	1/4"	1/4"	33.5	32	7	81
SV2	1/2"	1/4"	33.5	32	7	81
SV3	3/8"	3/8"	32.5	35	7	81.5
SV4	1/2"	3/8"	32.5	35	7	81.5
SV5	5/8"	1/2"	36.5	41	9.5	90

## Bi-directional Ball Valves



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

## Split A/C Valves



Part No.	Tube	Connection Thread
FC-602	1/4"	7/16"-20UNF
FC-603	3/8"	5/8"-18UNF
FC-604	1/2"	3/4"-16UNF
FC-605	5/8"	7/8"-14UNF
FC-606	3/4"	1-1/16"-14UNF

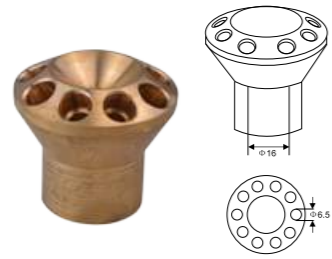


Quick Coupler



WX-02 Connection 1/4"

FB Liquid Distributor



Part No.	Inlet (mm)	Outlet (mm)	Hole Quantity
FB - 16 x 6.35/3	Ø16	Ø6.35	3
FB - 16 x 6.35/4	Ø16	Ø6.35	4
FB - 16 x 6.35/5	Ø16	Ø6.35	5
FB - 16 x 6.35/6	Ø16	Ø6.35	6
FB - 16 x 6.35/7	Ø16	Ø6.35	7
FB - 16 x 6.35/8	Ø16	Ø6.35	8
FB - 16 x 6.35/9	Ø16	Ø6.35	9
FB - 16 x 6.35/10	Ø16	Ø6.35	10
FB - 16 x 6.35/12	Ø16	Ø6.35	12

\* To be adjusted as per specific requirement.

Thermostat Expansion Valves (Danfoss Type)



Flare x Flare Connection Without Orifice

Refrigerant	Part No.	Pressure Equalization	Capillary Tybe (m)	Connection		Danfoss Code
				Inlet x Outlet		N Series (-40~+10°C)
				inch*inch	mm*mm	Without MOP
R22	TX2	int.	1.5	3/8 x 1/2	10 x 12	068Z3206
	TEX2	ext.		3/8 x 1/2	10 x 12	068Z3209
R407C	TZ2	int.	1.5	3/8 x 1/2	10 x 12	068Z3496
	TEZ2	ext.		3/8 x 1/2	10 x 12	068Z3501
R134A	TN2	int.	1.5	3/8 x 1/2	10 x 12	068Z3346
	TEN2	ext.		3/8 x 1/2	10 x 12	068Z3348
R404A/R507	TS2	int.	1.5	3/8 x 1/2	10 x 12	068Z3400
	TES2	ext.		3/8 x 1/2	10 x 12	068Z3403

Orifice: - 40 ~ + 40°C



Orifice Number	Nominal Capacity (TR)				Nominal Capacity (KW)				Danfoss Code
	R22	R407C	E134A	R404A/R507	R22	R407C	R134A	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

Refrigerant Cylinder Valve



Part.No	Working pressure(mpa)	Nominal Path (mm)	Outlet thread	Inlet thread	Safety device (mpa)
QF-13Y	3.2	4	G7/16 (1/4 SAE)	PZ27.8	39-4.5
QF-13E	3.2	4	G7/16 (1/4 SAE)	PZ19.2	39-4.5
QF-13D	3.2	8	G5/8	PZ27.8	3.9-4.5
QF-07	3.2	4	G7/16 (1/4 SAE)	PZ27.8	3.9-4.5

4-Way Reversing valves



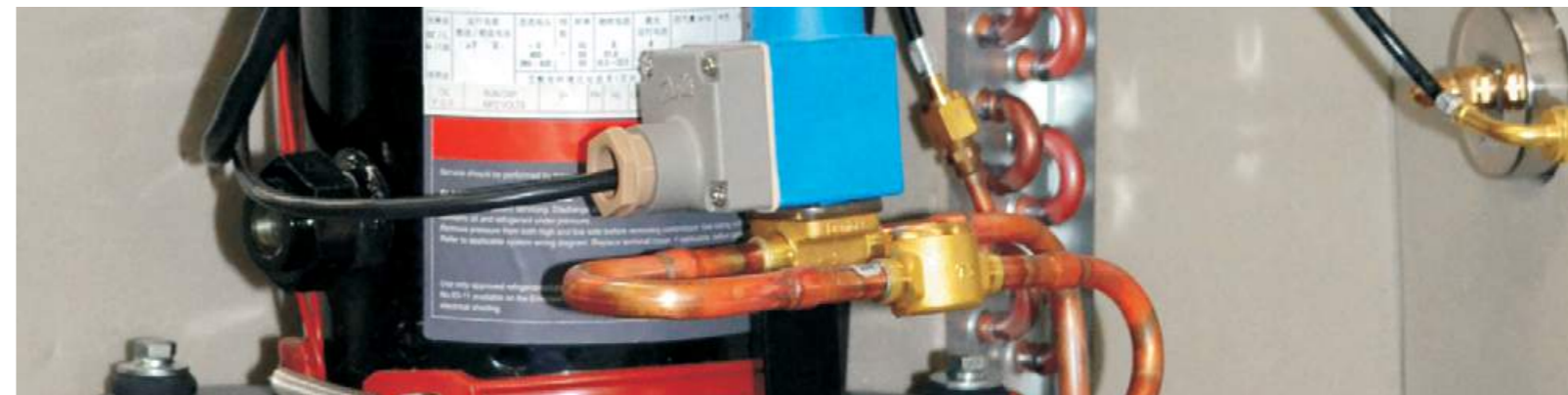
DSF-9 SW-01 DSF-20

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-45	Discharge:7/8", Suction:1-1/8"
SW-01	Coil: 220V, 50Hz/60Hz, 6W/5W

Solenoid Valves (Danfoss Type)



Part No.	Coil	Connection		Connection		
		inch	mm	Flare inch/mm	ODF inch	mm
EVR3	a.c/d.c	1/4	6	032F8107	032F1206	032F1207
		3/8	10	032F8116	032F1204	032F1208
EVR6	a.c/d.c	3/8	10	032F8072	032F1212	032F1213
		1/2	12	032F8079	032F1209	032F1236
EVR10	a.c/d.c	1/2	12	032F8095	032F1217	032F1218
		5/8	16	032F8098	032F1214	032F1214
EVR15	a.c/d.c	5/8	16	032F8101	032F1228	032F1228
		7/8	22	--	032F1225	032F1225
EVR20	a.c	7/8	22	--	032F1240	032F1240
		1-1/8	28	--	032F1244	032F1208
EVR22	a.c	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 Valve (Castel Type)



Flare

Soldering

This product could be applied to R410a system.

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	18	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

Brass Fittings



Short Nut

Part No.	
SN-04 1/4"	SN-08 1/2"
SN-05 5/8"	SN-10 5/8"
SN-06 3/8"	SN-12 3/4"



Forged Brass Nut

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



Union

Part No.	
U-04 1/4"	U-08 1/2"
U-05 5/16"	U-10 5/8"
U-06 3/8"	U-12 3/4"



Union Tee

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



90°Elbow(SAE\*SAE)

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



Adapter for R410A

Part No.	Description
FC-00A	1/4" M*5/16"F with depressor and valve core
FC-00B	5/16" M*1/4"F with depressor and valve core



Reducing Union (SAE\*SAE)

Part No.	Description
RU-06x04	RU-10x08
RU-08x04	RU-12x08
RU-10x04	RU-12x10
RU-10x06	



Adapter for R410A

Part No.	Description
AD78	1/4"SAE Female x 1/2"-20UNF(5/16" SAE) male with depressor and valve core
AD87	1/2"-20UNF(5/16" SAE) Female x 1/4" SAE male with depressor and valve core



Male Connector (SAE\*NPT)

Part No.	Description
MC-04x02	MC-06x08
MC-04x04	MC-08x04
MC-04x06	MC-08x06
MC-04x08	MC-08x08
MC-06x04	MC-10x08
MC-06x06	



Reducer (Solder)

Part No.	Description
SR-04x04	SR-08x10
SR-04x06	SR-08x12
SR-04x08	SR-10x08
SR-06x06	SR-10x10
SR-06x08	SR-10x12
SR-06x10	

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

Multi-step Solder Union



Part No.	Description
CT-7000	For 3/16", 1/4", 5/16", 3/8" or 1/2" tube

Adapter for R1234yf



Part No.	Description
FR-04x08L	1/4" SAE female x W21.8-14 LH male
FR-08Lx04	W21.8-14LH female x 1/4" SAE male



Capillary Tube with Nuts



Access Valves

Part No.	Connection (ODF)
HT-03A	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-06A	Completed with valve core, valve core remover & tube 3/8" O.D.
HT-04B	Completed with valve core, quick seal cap & tube 1/4" O.D.
CTN-90	Capillary tube 1/8"x90cm with two nuts
CTN-100	Capillary tube 1/8"x100cm with two nuts
CTN-150	Capillary tube 1/8"x150cm with two nuts

Copper Spun Filter Drier

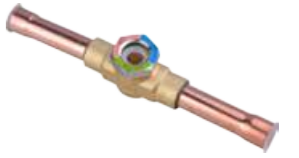


Part No.	Molecular Sieve	Dia.	Inlet	Outlet	Description
XS110	10g	5/8"	1/4"	1/4"	Copper shells and end tubes
XS115	15g	3/4"	1/4"	1/4"	Copper shells and end tubes
XS120	20g	3/4"	1/4"	1/4"	Copper shells and end tubes
XS210	10g	5/8"	1/4"	1/4" or capillary	Plastic cap covered ends
XS215	15g	3/4"	1/4"	1/4" or capillary	Plastic cap covered ends
XS220	20g	3/4"	1/4"	1/4" or capillary	Plastic cap covered ends
XS225	25g	1"	1/4"	1/4" or capillary	Plastic cap covered ends
XS230	30g	1"	1/4"	1/4" or capillary	Plastic cap covered ends
XS320	20g	1"	1/4", 1/4"	1/4"	Double inlet, fused ends
XS420	20g	1"	1/4", 1/4"SAE	1/4"	charging drier

Sight Glass



Part No.	Description
FC-04CF	1/4" x 1/4" Flare with two nuts
FC-06CF	3/8" x 3/8" Flare with two nuts
FC-08CF	1/2" x 1/2" Flare with two nuts
FC-10CF	5/8" x 5/8" 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 (Danfoss Type)



Part No.	Connection	Size		Danfoss Code
		inch*inch	mm*mm	
SGN 6	Flare M*M	1/4" x 1/4"	6 x 6	014-0161
SGN 10	Flare M*M	3/8" x 3/8"	10 x 10	014-0162
SGN 12	Flare M*M	1/2" x 1/2"	12 x 12	014-0163
SGN 16	Flare M*M	5/8" x 5/8"	16 x 16	014-0165
SGN 19	Flare M*M	3/4" x 3/4"	19 x 19	014-0166



Part No.	Connection	Size		Danfoss Code
		inch*inch	mm*mm	
SGN 6	Flare F*M	1/4" x 1/4"	6 x 6	014-0171
SGN 10	Flare F*M	3/8" x 3/8"	10 x 10	014-0172
SGN 12	Flare F*M	1/2" x 1/2"	12 x 12	014-0173
SGN 16	Flare F*M	5/8" x 5/8"	16 x 16	014-0174
SGN 19	Flare F*M	3/4" x 3/4"	19 x 19	014-0175

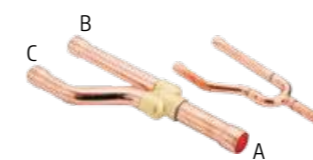


Part No.	Connection	Size		Danfoss Code
		inch*inch	mm*mm	
SGN 6s	Solder ODF x ODF	1/4" x 1/4"	--	014-0181
SGN 10s	Solder ODF x ODF	3/8" x 3/8"	--	014-0182
SGN 12s	Solder ODF x ODF	1/2" x 1/2"	--	014-0183
SGN 16s	Solder ODF x ODF	5/8" x 5/8"	16 x 16	014-0184
SGN 19s	Solder ODF x ODF	3/4" x 3/4"	19 x 19	014-0185
SGN 22s	Solder ODF x ODF	7/8" x 7/8"	22 x 22	014-0186



Part No.	Connection	Size		Danfoss Code
		inch*inch	mm*mm	
SGN 6fs	Solder ODF x SAE	1/4" x 1/4"	--	--
SGN 10fs	Solder ODF x SAE	3/8" x 3/8"	--	--
SGN 12fs	Solder ODF x SAE	1/2" x 1/2"	--	--
SGN 16fs	Solder ODF x SAE	5/8" x 5/8"	3/4"	--
SGN 19fs	Solder ODF x SAE	3/4" x 3/4"	3/4"	--
SGN 22fs	Solder ODF x SAE	7/8" x 7/8"	3/4"	--

Distribute Tube for Toshiba Central Air-conditioner



RBM-BY303E

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



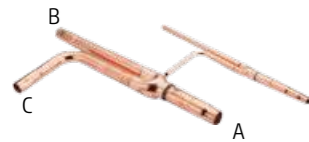
### Distribute Tube for Dakin Central Air-conditioner



KHR26M22T

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



DIS-2A

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

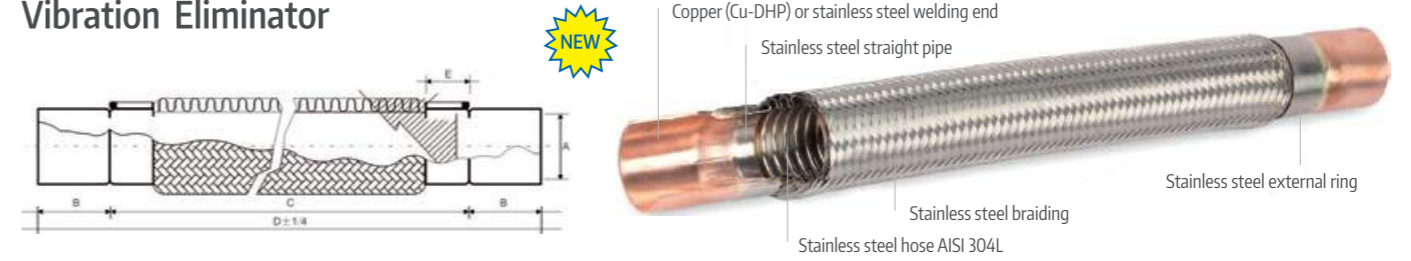
### Magnetic check Valve

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



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 (±6) mm	E (±1.5) 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

### Motorized Valve

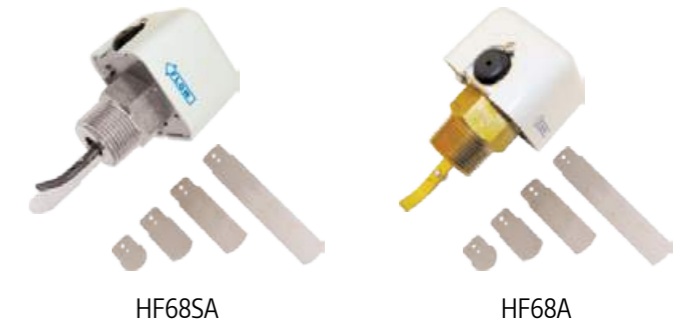


Part No.	Description	Connect thread (NPT)	Kv (Cv)	Differential shut-off pressure (Mpa)
MV-E01A-12	2-Way, Erie C type	1/2"	2.2(2.5)	0.20
MV-E01B-12	3-Way, Erie C type	1/2"	2.6(3.0)	0.20
MV-E01A-58	2-Way, Erie C type	5/8"	3.0(3.5)	0.18
MV-E01B-58	3-Way, Erie C type	5/8"	3.4(4.0)	0.18
MV-E01A-34	2-Way, Erie C type	3/4"	3.0(3.5)	0.18
MV-E01B-34	3-Way, Erie C type	3/4"	3.4(4.0)	0.18
MV-E01A-1	2-Way, Erie C type	1"	6.9(8.0)	0.15
MV-E01B-1	3-Way, Erie C type	1"	6.5(7.5)	0.15

### Flow Switch

#### Nomenclature

HF68 S A 15 1  
 Connection size: 1", 3/4", 1/2"  
 Current: 5A, 10A, 15A  
 Body size A: 61x64x48mm B: 52x52x48mm  
 Material S:304 Stainless Blank: Brass  
 Series number



Part No.	Current		Voltage	Connection Size			Folw capacity	Material	
	10A	15A		1"	3/4"	1/2"		18-2000L/S	SS316
HF68A-15-1	--	√	√	√	--	--	√	--	√
HF68A-15-3/4	--	√	√	--	√	--	√	--	√
HF68A-15-1/2	--	√	√	--	--	√	√	--	√
HF68B-10-1	√	--	√	√	--	--	√	--	√
HF68B-10-3/4	√	--	√	--	√	--	√	--	√
HF68B-10-1/2	√	--	√	--	--	√	√	--	√
HF68SA-15-1	--	√	√	√	--	--	√	√	--
HF68SB-10-3/4	√	--	√	--	√	--	√	√	--
HF68SB-10-1/2	√	--	√	--	--	√	√	√	--



### Pressure Controller

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



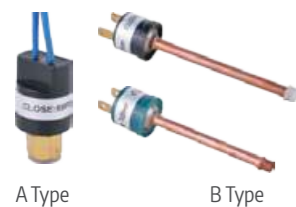
Part No.	Low Pressure (MPa)	High Pressure (MPa)	Differential (MPa)		Reset		Max. work pressure	
	Adjust range	Adjust range	L.P.	H.P.	L.P.	H.P.	L.P.	H.P.
HLP110	0.1-1.0	--	0.1-0.3	--	Auto	--	1.7	--
HLP506	-0.05-0.6	--	0.1-0.4	--	Auto	--	1.7	--
HLP506M	-0.05-0.6	--	≤0.2 fixed		Manual	--	1.7	--
HLP520	--	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 (Danfoss Type)



Pressure	Part No.	Danfoss Code			Low Pressure (LP)		Reset		Reset		Contact system
		1/4in 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



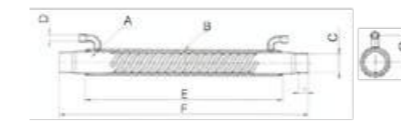
Part No.	Application	Setting P.S.L		Setting Tolerance
		OFF°C	Close	
LPS0520	Low Pressure Automatic Reset	5	20	+/-5
LPS1020	Low Pressure Automatic Reset	10	20	+/-5
LPS2550	Low Pressure Automatic Reset	25	50	+/-5
HPS200150	High Pressure Automatic Reset	200	150	+/-15
HPS250150	High Pressure Automatic Reset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

### 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.

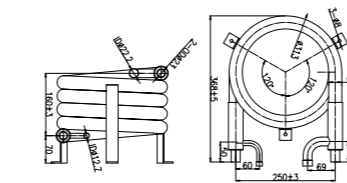
Refrigerants	Working temperature	Max Working pressure	Max. Testing pressure
CFCs, HCFCs, HFCs, HCs	-60C-120°C	21.5bar	28bar



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

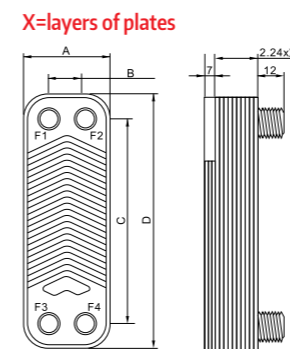


### Coaxial Coils Heat Exchanger



Part No.	Heating Capacity (kw)	Copper Tube Connection				Dimensions		
		Refrigerant		Water		Length (mm)	Height (mm)	Width (mm)
		Inlet-outlet Diameter(mm)	Thickness (mm)	Inlet-outlet Diameter(mm)	Thickness (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	1.1-0.76	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				
Typ 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



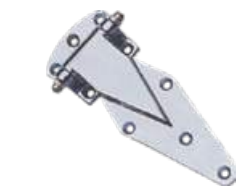
FC-201



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 100mm, 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



# 6 ELECTRICAL PARTS

.....  
**FavorCOOL<sup>®</sup>**

QUALITY DELIVERED



## BC Series run capacitors (CBB65)

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

Part No.	Capacity (µf) Voltage 370V	Part No.	Capacity (µf) Voltage 440V
BC315/5	15+5	BC315/5	15+5
BC315/10	15+10	BC315/10	15+10
BC3175/5	17.5+5	BC3175/5	17.5+5
BC320/5	20+5	BC320/5	20+5
BC320/15	20+15	BC320/15	20+15
BC325/5	25+5	BC325/5	25+5
BC325/7.5	25+7.5	BC325/7.5	25+7.5
BC330/5	30+5	BC330/5	30+5
BC330/7.5	30+7.5	BC330/7.5	30+7.5
BC330/10	30+10	BC330/10	30+10
BC335/5	35+5	BC335/5	35+5
BC335/7.5	35+7.5	BC335/7.5	35+7.5
BC335/10	35+10	BC335/10	35+10
BC340/5	40+5	BC340/5	40+5
BC340/7.5	40+7.5	BC340/7.5	40+7.5
BC345/5	45+5	BC345/5	45+5



Part No.	Capacity (µf) Voltage 370V	Part No.	Capacity (µf) Voltage 440V
BC310	10	BC310	10
BC3125	12.5	BC3125	12.5
BC315	15	BC315	15
BC3175	17.5	BC3175	17.5
BC320	20	BC320	20
BC325	25	BC325	25
BC330	30	BC330	30
BC335	35	BC335	35
BC340	40	BC340	40
BC345	45	BC345	45

## CBB61 Series Run Capacitors

### Feature

Capacitor for fan motor From 1µF~6µF  
Voltage 250V or 450V



## MS Series Start Capacitors (CD60)

### Feature

Round Bakelite or plastic case

Capacity (µf) Voltage 250V	Capacity (µf) Voltage 250V	Capacity (µf) Voltage 250V
88-108	108-130	72-86
124-149	130-156	88-108
145-175	145-175	108-130
161-193	161-193	124-149
189-227	189-227	130-156
216-259	216-259	145-175
233-280	233-280	161-193
243-292	243-292	189-227
270-324	270-324	
324-388	324-388	
340-408	340-408	
378-454	378-454	
400-480	400-480	



## CBB Series run Capacitors (CBB60)



Part No.	Capacity (µf) Voltage 250V	Part No.	Capacity (µf) Voltage 450V
CBB204	4	CBB204	4
CBB205	5	CBB205	5
CBB206	6	CBB206	6
CBB207	7	CBB207	7
CBB208	8	CBB208	8
CBB209	9	CBB209	9
CBB210	10	CBB210	10
CBB211	11	CBB211	11
CBB212	12	CBB212	12
CBB214	14	CBB214	14
CBB216	16	CBB216	16
CBB218	18	CBB218	18
CBB219	19	CBB219	19
CBB220	20	CBB220	20
CBB230	30	CBB230	30

### Two Pole Contactors



UL Certificate

Part No.	Coil Voltage 50/60Hz	Number of Poles	Full Load (A)
25 FLA-3 POLE			
QCA-252	24	2	25
QCB-252	120		
QCC-252	208/240		
30 FLA-3 POLE			
QCA-302	24	2	30
QCB-302	120		
QCC-302	208/240		
40 FLA-3 POLE			
QCA-402	24	2	40
QCB-402	120		
QCC-402	208/240		

### Defrost Timer



SB3.82

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. (DBZC)	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
TMDEX09TC1	12hr21min	10hr18min	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

### Three Pole Contactors



Part No.	Coil Voltage 50/60Hz	Number of Poles	Full Load (A)
30 FLA-3 POLE			
QCA-303	24	3	30
QCB-303	120		
QCC-303	208/240		
40 FLA-3 POLE			
QCA-403	24	3	40
QCB-403	120		
QCC-403	208/240		
50 FLA-3 POLE			
QCA-503	24	3	50
QCB-503	120		
QCC-503	208/240		
60 FLA-3 POLE			
QCA-603	24	3	60
QCB-603	120		
QCC-603	208/240		
75 FLA-3 POLE			
QCA-753	24	3	75
QCB-753	120		
QCC-753	208/240		

### Defrost Timer



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	28min	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-820/821 110V	9hr36min	8hr	28min	21min
TMDC-825 110V	9hr36min	8hr	30min	25min
TMDC-832 110V	9hr36min	8hr	38min	32min
TMDC-1021	10hr	8hr19min	31min	17min50s
TMDC-1021 110V	12hr	10hr	25min	21min
TMDC-1440	14hr24min	12hr	40min	33min



Part No. (DBZC)	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

### PW (Danfoss type) Series Relay Protector



Part No.	Pick-up Current (A)	Drop-out Current (A)	Overload Current (A)
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



### PP1100 series Relay Protector

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.	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

### RP Series Push - on Type Relay



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

### 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



### 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 Rrsistancr (Ω)
IC-1	110	5±20%
IC-2	220	22±20%
IC-3	220	22±20%
IC-4	220	22±20%

### 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

### Time Delay



QD-068

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)



### Protection Relay



XJ3-G

### SPP Starter Pow-R-Pak

Part No.	Voltage (V)	Increased Torque
SPP	115-230	210 Once Inches

Type	XJ3-G
Protection function	Phase-failure-sequence error & Three phase voltage unbalance ≥8%~13%
Operating voltage	AC 380V 50Hz, Allowable fluctuating
Contact number	1 normally open & 1 normally close
Contact capacity	5A 230VAC cos φ =1
Phase-failure and phase-sequence protection	Reacting time ≤2s
Electrical life	1x10 <sup>5</sup>
Mechanical life	1x10 <sup>6</sup>
Ambient temperature	-5°C~40°C
Ambient humidity	-5°C~40°C
Installation mode	Equipment type or Track type

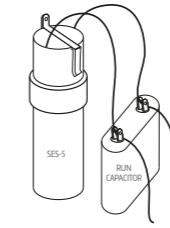
### PTK-2 Overload Protector

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

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)



SPP-5/6/8

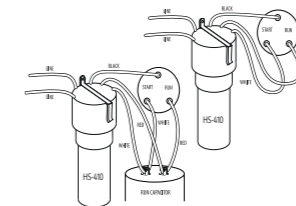


### Super Starters

SPP-5		SPP-6		SPP-8	
BRAND	REFERENCE PART NO.	BRAND	REFERENCE PART NO.	BRAND	REFERENCE PART NO.
MARS	32701	MARS	32702	KICKSTART	T05
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	115
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



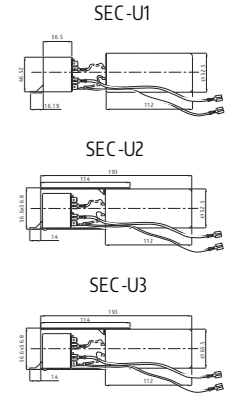
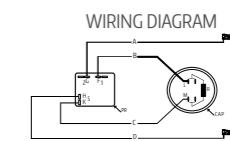
SEC-U1/U2/U3



- 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

### Voltage Guard



A/C Guard



AVS 15A



AVS 30A

Part No.	A/C Guard	AVS 15A	AVS 30A
Nominal Voltage	203V	230V	110V 220V
Watts	--	3600	3300 7200
Frequency	50/60Hz	50/60Hz	50/60Hz
Load Current	20A	15A	30A
Inrush Current (20ms)	70A	110A	110A
Max. Consumption	100mA	110mA	110ms
Wait Time	4mins	15s-3mins	10s-10mins plus manual
Over-Voltage Disconnect	--	265V	230V-300V plus off
Over-Voltage Reconnect	--	263V	2V Below HVD Setting
Under-Voltage Disconnect	--	185V	150V-230V
Under-Voltage Reconnect	--	190V	5V above LVD Setting
Max. Supply	--	320V	160V 320V
Spike/Surge Protection	160J	160J	80J 160J
Spike/Surge Discharge Amps	6500A(8/20us)	6500A(8/20us)	6500A(8/20us)
Spike/Surge Response Time	10ns	10ns	10ns
Response Time (Over Voltage)	20ms	20ms	20ms
Response Time (Under Voltage)	1s	1s	Adjustable 0.5-10s
Brown-Out Response Time	20ms	20ms	20ms

**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-P110=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**



Electrolux 1452994    ST-3 13/-4    LG 6615JB2005V    Samsung Thermostat    Electrolux Fuse 811944701    Samsung Fuse DA47-00138F



Electrolux Sensor 1437528    Samsung Thermostat DA47-10150E    LG 6615JB2002A    LG 6615JB2002T    LG 4781JR2004A/6615JB2005A    LG 6615JB2003J    Samsung Sensor DA32-00006W



Whirlpool 2612679    Toshiba Defrost Thermostat    PST-3 Fuse 72 degC    Sanyo Sensor&Fuse    ML-B07 type    ML-B15 type    ML-B06 type

**Quartz Glass Tube Heater**



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

**Application:**

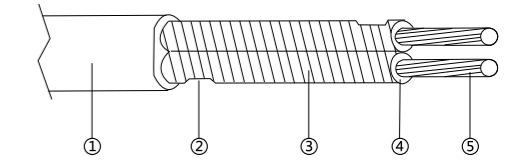
To heat the floor of building, Cooling house and warehouse. To melt snow and frost in slope, Trough and roof. To prevent frost and to preserve heat of petroleum pipeline and other devices.

**Constant Power Parallel Heating Cable (AKO-5234)**



**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 bend radius	at-25C	20mm
Standard reel length		100~150m

**Drainpipe Anti-freezing Heating Cable**

- Waterproof
- Double insulation
- Molded terminations
- Extremely flexible



Part No.	Cold tail (m)	HEATING CABLE (M)	Total length (m)	Output Power (w)
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



# 7 A/C SERVICE TOOL

.....  
**FavorCOOL<sup>®</sup>**

QUALITY DELIVERED



## Tubing Tool Kit



CT-275L



CT-278L



CT-808FT-L



CT-400A-L



CT-E806AM-L

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	Eccentric cone type 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
CT-E806AM-L	Eccentric Cordless Flaring Tool	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



CT-100



CT-300



CT-999



CT-519FT-L



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



CT-193



CT-94



CT-95



CT-195



CT-525F



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, 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" & 7/8" O.D.



### Tube Cutter



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)



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

### Tube Bender



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"



Part No.	O.D.Tubing	Description
CT-364A-06	3/8"	Bend radius 15/16"
CT-364A-08	1/2"	Bend radius 1-1/2"
CT-364A-10	5/8"	Bend radius 2-1/4"
CT-364A-12	3/4"	Bend radius 3"
CT-364A-14	7/8"	Bend radius 3-1/4"
CT-364M-08	12mm	Bend radius 35.8mm
CT-364M-10	16mm	Bend radius 54.4mm
CT-364M-12	19mm	Bend radius 75.3mm
CT-364M-14	22mm	Bend radius 82.1mm
CT-268-180	1/4" & 5/16"	2-in-1 180°, Bend radius 11/16"
CT-N368-180	1/4", 5/16" & 3/8"	3-in-1 180°, Bend radius 15/16"

### Lever Type Tube Bender



Part No.	O.D.Tubing	Description
CT-N364A-06	3/8"	Bend radius 15/16"
CT-N364A-08	1/2"	Bend radius 1-1/2"
CT-N364A-10	5/8"	Bend radius 2-1/4"
CT-N364A-12	3/4"	Bend radius 3"
CT-N364A-14	7/8"	Bend radius 3-1/4"
CT-N364M-08	12mm	Bend radius 35.8mm
CT-N364M-10	16mm	Bend radius 54.4mm
CT-N364M-12	19mm	Bend radius 75.3mm
CT-N364M-14	22mm	Bend radius 82.1mm

### 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 seivelled.
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
CB-4100	Inner and outer copper cleaning brush, for 1/2", 3/4" fitting 13mm, 19mm pipe



Part No.	Description
CT-201	7" Pinch-off plier
CT-122	1/4", 3/8", 3/16" & 5/16" square ratchet wrench
CT-123	1/4", 3/16" square & 9/16", 1/2" hex ratchet wrench



Part No.	Description	Description
CT-501	32mm Inspect Mirror	Lrngth: 127-500mm
CT-502	50mm Inspect Mirror	Lrngth: 200-410mm
CT-503	Pick up tool	Lrngth: 126-637mm

### Air Conditioner Spanner



### Pressure Testing Pumps



### Capillary Tube Cleaner



**Description:**  
Cap-Check is a portable, self contained hydraulic power unit with auxiliary equipment especially adapted to cleaning refrigeration capillary tubes. A 0-25 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.

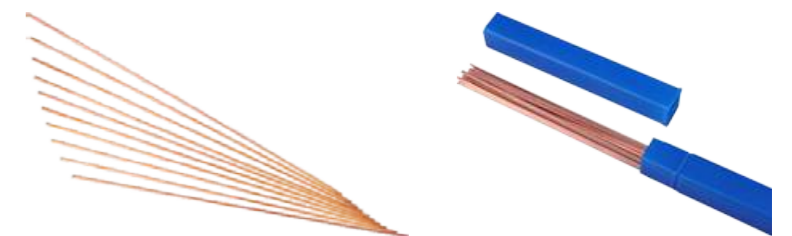
### Welding Gas



Part No.	Description	Part No.	Description	Part No.	Description
MAPP	CGA600 connection, 16 oz./cylinder	Propane	CGA600 connection, 14 Oz/cylinder	Oxygen	CGA600 connectio, 1.4 oz/cylinder

### Welding Rods

**Rod Size:**  
1.32 x 3.2 x 500mm (flat)  
3 x 3 x 500mm (square)  
2 x 2 x 500mm (square)  
2.0-3.0 x 500 (round)



### Phosphorus-containing Brazing Alloys (Cu-p)

Brazing Alloy	Ag	Chemical Composition (%)			Melting Range (°C)		Equivalent Specifications		
		Cu	P	Solidus	Liquidus	AWS A5.8	DIN8513	BS1845	
HP-02	--	Ren	6.8-7.5	710	800	BCuP-2	L-CuP7	CP3	



### Welding Torch



Part No.	Description	Part No.	Description	Part No.	Description
T-A	CGA600 connection, for MAPP and propane gas	T-B	CGA600 connection, single flame	T-2B	CGA600 connection, twin flame



Part No.	Description	Part No.	Description	Part No.	Description
T-3B	CGA600 connection, triple flame	T-CA	CGA600 connection, with 1.5m-2m hose	MRS-9001F	CGA600 connection, Snake torch



**H01-2**  
Micro Welding Torch

**H01-6C**  
French Type Welding Torch



**H01-6B**  
French Type Welding Torch

**H02-6**  
Switzerland Type Welding Torch



**Adaptor T-CGA**  
NEW  
CGA600 (1"-20UNEF)  
(7/16)"-28UNF  
T-CGA



**T-MTH**  
NEW



**T-D**  
CGA600 connection, quick self-lighting

**H01-6**  
Japanese Type Welding Torch

### Welding 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  
 1pc Plastic Case



**HCW-1509**  
NEW

oxygen cylinder 1L, M10x1  
 mapp: 1L, CGA600 (optional)  
 Oxygen pressure reducer: adjustable, with a tank of gas pressure indicator, with the tempering valve  
 MAPP pressure reducer: adjustable, with output gas pressure indicator, with the tempering valve  
 Light oxygen welding torch: with two welding nozzle, welding nozzle air outlet diameter is 0.65 MM, with tempering valve, hose length is 1.5 M  
 Welding flame temperature: flame can be adjustable, temperature ≥ 2200  
 Aluminum alloy box packaging

### Vacuum Pump



**Black**

\*115V/60Hz and 220V/60Hz are available

Part No.	Voltage(V/Hz)	Capacity(CFM)	Motor Power(hp)	Motor Speed(rpm)	Intake Fitting(inch)
VP-0.5A	220V/50Hz	1	1/6	1440	1/4" SEA
VP-1	220V/50Hz	2	1/4	1440	1/4" SEA
VP-1S(4.0Kgs)	220V/50Hz	2	1/4	1440	1/4" SEA
VP-1.5A	220V/50Hz	3	1/4	1440	1/4" SEA
VP-2A	220V/50Hz	4	1/3	1440	1/4" SEA
VP-3A	220V/50Hz	6	1/2	1440	1/4" SEA
VP-4A	220V/50Hz	8	3/4	1440	1/4" SEA



**Orange**  
NEW

Part No.	Voltage(V/Hz)	Capacity(CFM)	Motor Power(hp)	Motor Speed(rpm)	Intake Fitting(inch)
2VP-0.5C	220V/50Hz	1	1/4	1440	1/4" SEA
2VP-1C	220V/50Hz	2	1/3	1440	1/4" SEA
2VP-2C	220V/50Hz	4	1/2	1440	1/4" SEA
2VP-3C	220V/50Hz	6	3/4	1440	1/4" SEA
2VP-4C	220V/50Hz	8	3/4	1440	1/4" SEA

\* Intake Fitting Can Select: 1/4 SEA- 1/2ACME or 3/8SAE.

### Super Vacuum Pump



Part No.	Voltage(V/Hz)	Capacity(CFM)	Motor Power(hp)	Motor Speed(rpm)	Intake Fitting(inch)
VP115	220V/50Hz	1.5	1/3	1440	1/4" SEA
VP125	220V/50Hz	2.8	1/3	1440	1/4" SEA
VP130	220V/50Hz	3.0	2/5	2880	1/4" SEA
VP145	220V/50Hz	4.5	1/2	2880	1/4" SEA
VP165	220V/50Hz	6.5	3/4	2880	1/4" SEA
VP185	220V/50Hz	8.0	3/4	2880	1/4" SEA
VP1100	220V/50Hz	10.0	3/4	2880	1/4" SEA


Part No.	Voltage(V/Hz)	Capacity(CFM)	Motor Power(hp)	Motor Speed(rpm)	Intake Fitting(inch)
VP215	220V/50Hz	1.5	1/2	1440	1/4" SEA
VP230	220V/50Hz	3.0	3/4	2880	1/4" SEA
VP245	220V/50Hz	4.5	4/5	2880	1/4" SEA
VP265	220V/50Hz	6.5	1	2880	1/4" SEA
VP285	220V/50Hz	8	1	2880	1/4" SEA
VP2100	220V/50Hz	10	1	2880	1/4" SEA

### Accessories



Item	Description	Item	Description	Item	Description	Item	Description	Item	Description
P1	Φ63 Vacuum Gauge	P2	Φ80 Vacuum Gauge	P3	Φ50 Vacuum Gauge	P4	Small Solenoid Valve	P5	Big Solenoid Valve

### 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		



220V/50Hz, 1HP AC,  
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		



220V/50Hz, 1HP AC,  
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		

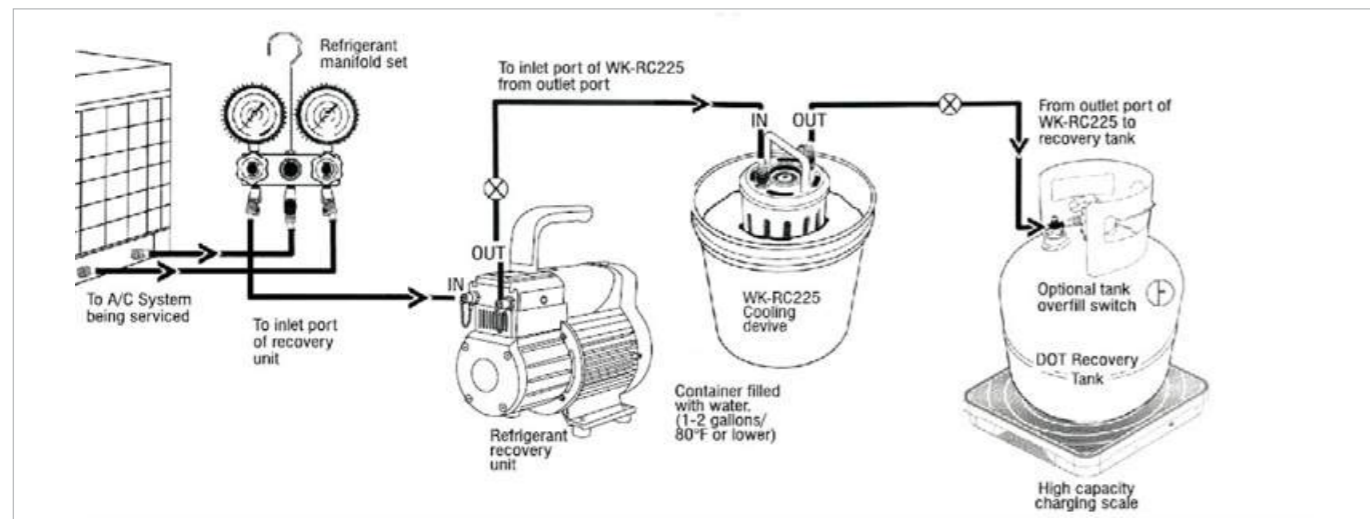


Refrigerant cooling device

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



FC-136G



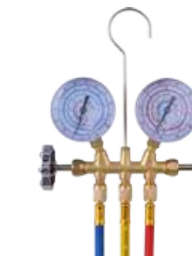
FC-R136G



FC-436G



FC-536G



FC-636G

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-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.



FC-DM01

**Feature:**  
Applied CFCs, HCFCs, HFCs refrigerant.  
Accurate superheat and sub-cooling temperature display.  
**High side pressure display range:** 0 psig 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.



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



RCS-7020



RCS-N9030  
with auto-charge



LMC-200



LMC-300  
with auto-charge

Part No.	RCS-7020	RCS-N9030	LMC-200	LMC-300
Capacity	100KGS/220LB	100KGS/220LB	100KGS/220LB	100KGS/220LB
Accuracy	±0.5% of reading ±1 least	±0.5% of reading ±1 least	±0.05% rdg+10g	±0.05% rdg+10g
Resolution	0.5 OZ/10G	0.25 OZ/10G	0.125 OZ/5G	0.125 OZ/5G
Platform size	223mm x 223mm	223mm x 223mm	271mm x 271mm x 74mm	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	600-3000Psi	800-4000Psi	Connection
336RYB	3-36"	336RYB-B	336RYB-C	1/4" SAE
336RYB	3-60"	336RYB-B	336RYB-C	1/4" SAE
336RYB	3-72"	372RYB-B	372RYB-C	1/4" SAE
M-336RYB	3-36"	M-336RYB-B	M-336RYB-C	1/4" SAE
M-336RYB	3-60"	M-360RYB-B	M-360RYB-C	1/4" SAE
M-336RYB	3-72"	M-372RYB-B	M-372RYB-C	1/4" SAE
E-336RYB	3-36"	E-336RYB-B	E-336RYB-C	1/4" SAE
E-336RYB	3-60"	E-360RYB-B	E-360RYB-C	1/4" SAE
E-336RYB	3-72"	E-372RYB-B	E-372RYB-C	1/4" SAE

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

### Color-coded Pressure and Compound Gauge



RG-250



RG-500



250-GF



500-GF



250B-GF



500B-GF

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 1/8NPT, 2-3/4" dia, stainless frame

### Automotive Quick coupler



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

### 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



### 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



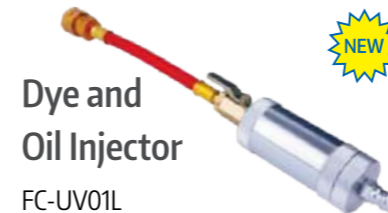
FC-6044



### A/C Flush Kit (FC-6044)

#### Description:

The A/C Flush Kit is used to remove contaminants, moisture and acid from the evaporator and condenser. It is designed to work with any A/C flush solvent that can be mixed with pressurized air. Simply add up to 18 oz. of solvent to the reusable canister. With the use of pressurized shop air, reverse flush the evaporator and condenser, removing all the contaminants, moisture and acid during retrofitting or replacement.



### Dye and Oil Injector

FC-UV01L

### Oil Charging pump

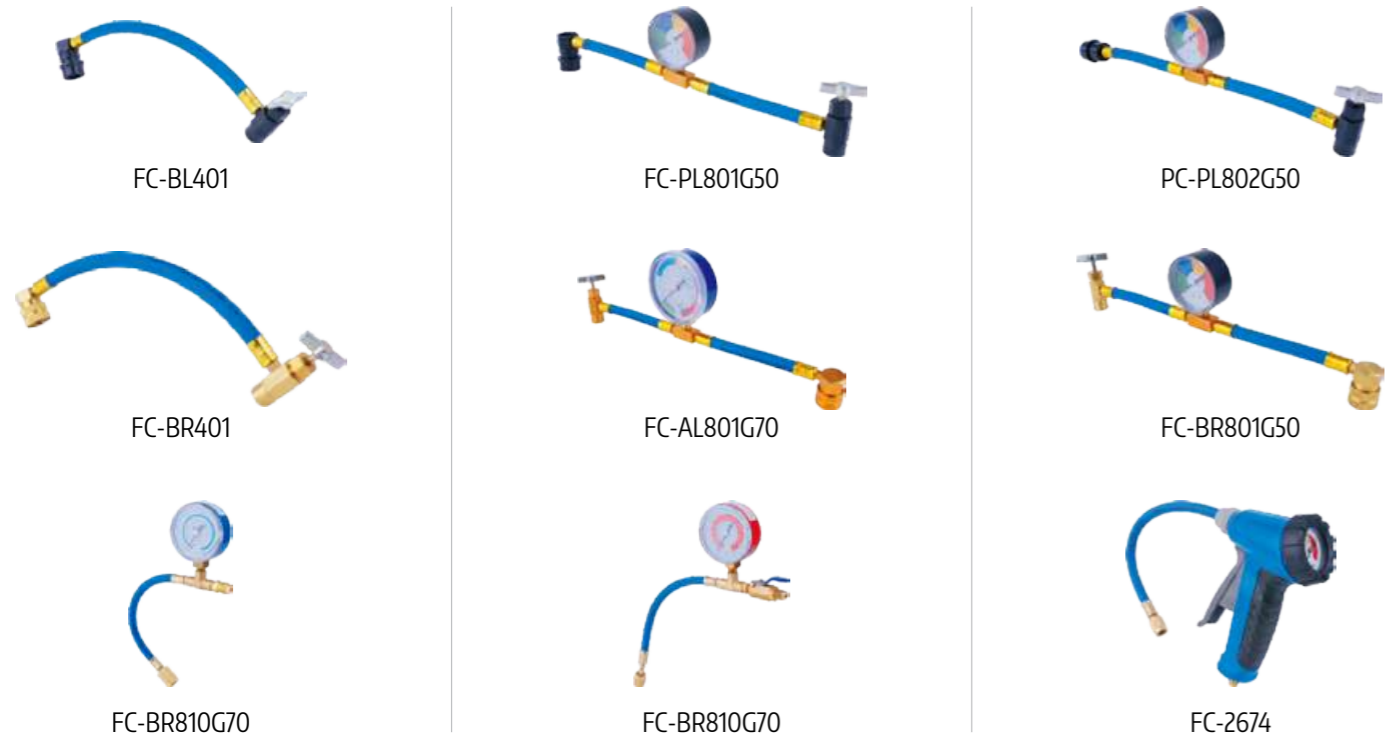


PCO-1

PCO-2

PCO-4

### Automotive Refrigerant Charging Tools



### Can Tap Valve



Part No.	Description
FC-334	Refrigerant can tap valve, 1/4" SAE outlet valve bottom and female thread fitted 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 12mm*1.25 can thread.
FC-339	Refrigerant can tap valve, 1/4" SAE outlet valve bottom and female thread fitted with 14mm*1.25 can thread.
FC-340	Refrigerant can tap valve for both R12 & R134a.

### Single Gauge Valve



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

### Piercing Valve



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

## 8 TEMPERATURE CONTROLLER & MULTIMETERS

.....  
**FavorCOOL<sup>®</sup>**

QUALITY DELIVERED





Thermometer

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



WT-2	TPM-10	DST-50	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~+150°C (-58°F~+302°F)	-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~+160°F



RT-200	RT-300	ST-100	ST50	RF221
1m, capillary: -40°C~+40°C Accuracy: ±2°C L*W*H: 56*58*25mm	-40°C~+40°C Accuracy: ±2°C stainless steel frame	LCD Display, solar power supply Resolution: 0.1°C Product Size: 62*29.5*10.5mm	-40°C~+150°C or -40~+270°C, 2"(50mm)dial, 48" cable back-up lithium battery, solar powered	2-1/2", capillary: 48", -40°C~+60°C/-40°C~+15°C, stainless steel frame



TPM-900	DTH-106	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	0°C~+50°C (32°F~+120°F) Accuracy: ±1°C (±1.8°F)	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	86 x 86 x 32	10°C~30°C	2	200+10%	50/60Hz
T201	86 x 86 x 32	10°C~30°C	6	200+10%	50/60Hz
T202	83.5 x 83.5 x 38	10°C~30°C	10	200+10%	50/60Hz
T300	70 x 115 x 32	50F~90F, 10°C~32°C	--	--	--
T-PIR1	111.5 x 74.4 x 22	16°C~30°C		Temperature Remote Controller	
T-HVAC10	118 x 88 x 30	7°C~32°C	--	24V	50/60Hz

Microcomputer Temperature Controller



STC-200+	STC-8080H	STC-9200
<b>Technical parameter</b> <ul style="list-style-type: none"> <li>Power supply: 220VAC±10% (12VAC/DC, 24VDC optional)</li> <li>Power consumption: &lt;5W</li> <li>Temperature measuring and controlling range: -50~+120°C</li> <li>Display resolution: 0.1 when ≥100°C</li> <li>Accuracy: ±0.5°C from ~10 to 85°C; &lt;±2°C at others</li> </ul>	<b>Technical parameter</b> <ul style="list-style-type: none"> <li>Power supply: 220VAC+10%/ -15% 50/60Hz</li> <li>Power consumption: &lt;5W</li> <li>Temperature measuring range: -50~+99°C</li> <li>Temperature measuring range: -40~+50°C</li> <li>Resolution: 1°C</li> <li>Accuracy: ±1°C from -50 to 70°C; &lt;±2°C at others</li> </ul>	<b>Technical parameter</b> <ul style="list-style-type: none"> <li>Power supply: 220VAC 50Hz</li> <li>Power consumption: &lt;5W</li> <li>Ambient temperature: 0~+60°C</li> <li>Relative humidity: 20%~85% (No condensate)</li> <li>Accuracy: ±1°C</li> </ul>



ESC-02CX	ETC-100+	EK3010/3020/3030
<b>Technical parameter</b> <ul style="list-style-type: none"> <li>Measuring range: -50°C~+99°C</li> <li>Temperature Resolution: 1°C</li> <li>Measurement Accuracy: -40°C~+50°C, ±1°C; others, ±2°C</li> <li>Power supply: 220VAC±10% 50Hz/60Hz</li> <li>Mounting Size: 71mm*29mm</li> <li>Power: &lt;3W</li> </ul>	<b>Technical parameter</b> <ul style="list-style-type: none"> <li>Power supply: 220VAC±220VAC+10%/ -15%, 50Hz/60Hz</li> <li>Resolution: 10%RH</li> <li>Accuracy: ±(5%RH+0.5digit) at 25°C±(6%RH+0.5digit) at 0%RH-59%RH±(8%RH+0.5digit) at others, when +10°C~+40°C</li> <li>Relay output contact capacity: 10A/220VAC</li> </ul>	<b>Technical parameter</b> <ul style="list-style-type: none"> <li>Measuring range: -40°C~+99°C</li> <li>Controlling range: -40°C~+85°C</li> <li>Temperature Resolution: 0.1°C/1°C</li> <li>Accuracy: -30°C~+50°C, ±1°C; others, ±2°C</li> <li>Power supply: 200VAC±10% 50Hz/60Hz</li> <li>Mounting Size: 71mm * 29mm</li> <li>Power: &lt;5W</li> </ul>



ETC-902	ETC-961	ETC-974
<b>Technical parameter</b> <ul style="list-style-type: none"> <li>Temperature controlling range: -50°C~+99°C</li> <li>Product Size: 75x34.5x58mm</li> <li>Mounting: 71mm x 29mm</li> <li>Measuring range: NTC(-50°C~+120°C)</li> <li>Control output: 8A/250VAC for compressor</li> <li>Power supply: 220VAC±10%</li> </ul>	<b>Technical parameter</b> <ul style="list-style-type: none"> <li>Temperature controlling range: -30°C~+85°C</li> <li>Product Size: 75mm x 34.5mm x 58mm</li> <li>Mounting: 71mm x 29mm</li> <li>Measuring range: NTC(-50°C~+120°C)</li> <li>Control output: 10A/250VAC for compressor</li> <li>Power supply: 220VAC±10%</li> </ul>	<b>Technical parameter</b> <ul style="list-style-type: none"> <li>Temperature controlling range: -50°C~+99°C</li> <li>Product Size: 75mm x 34.5mm x 58mm</li> <li>Mounting: 71mm x 29mm</li> <li>Measuring range: NTC(-50°C~+120°C)</li> <li>Control output: 8A/250VAC for compressor</li> <li>Power supply: 220VAC±10%</li> </ul>

Thermostat Guard



Part No.	Dimensions (mm)	White-rodders	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

### Refrigerant Gas Leak Detector



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, hig sensitivity, 6gr/yr	
• Inner precise IC with ultra-low consume circuit design, more stable, longer battery time.	

LD-100	
Sensor Type	Semi-conductive sensor
Minimum Sensitivity	3g/yr
Warm up time	<60S
Response time	<3S
Detecting gas	R32, R600A
Display method	Hightlight LED display
Battery	Three 1.5V AA High-energy

CLD-100	
Dimension	53*50*175mm
Detecting gas	All Halogenated Refrigerants
Minimum Sensitivity	5g/yr
Warm up time	6s
Response time	2-10s
Power supply	4 AAA batteries (6VDC)
Weight	150g



HLD-102	
Dimensions	17CM*6CM*3.8CM
Batteries	2*1.5V'AA' Alkaline Batteries (3VDC)
Battery Life	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
Respinse time	Instantaneous
Reset time	Instantaneous
Probe Length	12"(30cm)

HLD-201	
Dimensions	22.9CM*6.5CM*6.5CM
Batteries	2*1.5V'AA' Alkaline Batteries (3VDC)
Battery Life	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
Respinse time	Instantaneous
Reset time	Instantaneous
Probe Length	14"(33.5cm)

HLD-202	
Dimensions	22.9CM*6.5CM*6.5CM
Batteries	2*1.5V'AA' Alkaline Batteries (3VDC)
Battery Life	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
Respinse time	Instantaneous
Reset time	Instantaneous
Probe Length	14"(33.5cm)

### Clamp Meter



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

### Electric Control Box



ECB-1000	
<b>Specification:</b>	
• Product size: 250x190x139mm	
<b>Technical parameters:</b>	
• Comperssor working time when sensor error: 0~99 minutes	
• Comperssor 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)	

ECB-1000Q	
<b>Features:</b>	
• Big display area shows all necessary information	
<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 Comperssor:	
• Max. capacity for comperssor: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)	

ECB-5080	
<b>Spercification:</b>	
• Product size: 300x420x150mm	
<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	√	√	√

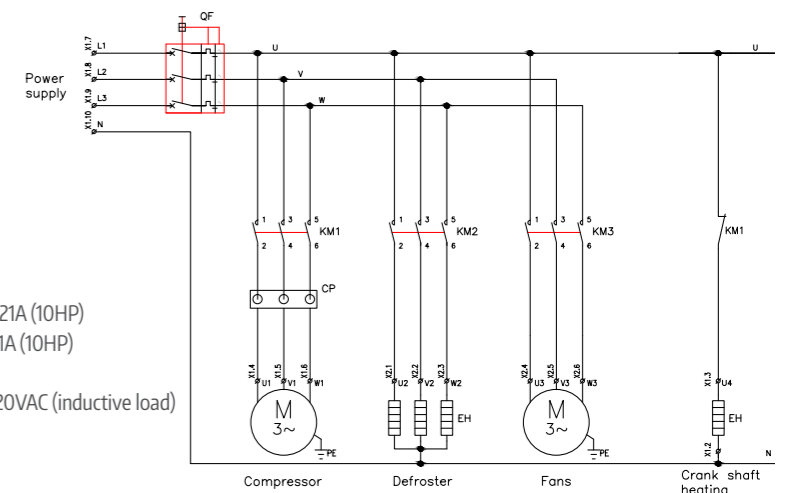


ECB2010/2020

ECB2030

#### 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





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



UT-361 Temperature/Vane Anemometer

Range: 2-10m/s(±3%+5) 10-30m/s(±3%+8)  
Operating Temperature: 0~40°C(32°F~104°F)  
Function: Auto power-off, Data hold, wind sleep, units Switch, Auto Record time setup, Low Battery Display, Display Backlight  
Sleep mode: Around 10 minutes



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: Approx. 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-VG88

Digital programmable Vacuum Meter

Part No.	FC-VG88
Vacuum range	0~15000Microns(0~2000pa)
Operating Temperature range	-40°C~45°C
Battery model	5 x 1.5V battery
Battery life	300 hours of using
Vacuum meter units	pa, mBar, mmHg, Torr, mTorr, Microns
Vacuum meter indicate	Real-time vacuum pressure test and percentage indicate

9 A/C INSTALLATION PARTS

FavorCOOL®

QUALITY DELIVERED





### Condensate Water Pump



PC-1218



PC-1028

Part No.	PC-1218	PC-1028
Voltage	230V, 50/60Hz or 115V/60Hz	230V, 50/60Hz or 115V/60Hz
Suction lift	Max.2m(6.5ft)	Max.2m(6.5ft)
Discharge head	Max.12m	Max.12m
Flow rate	Max.12L/H(3.2GPH)	Max.12L/H(3.2GPH)
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(6.5ft)	Max.2m(6.5ft)
Discharge head	Max.8m/H(26ft)	Max.10m(33ft)
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	16W	3W



Part No.	PC-24B	PC-40B
Voltage	100~230V, 50/60Hz	100~230V, 50/60Hz
Suction lift	Max.2m(6.5ft)	Max.2m(6.5ft)
Discharge head	Max.10m(33ft)	Max.10m(33ft)
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(9.8ft)	Max.5m(16.4ft)
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



PC-320A



PC-125A

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(13ft)
Flow rate	FMax.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

### 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



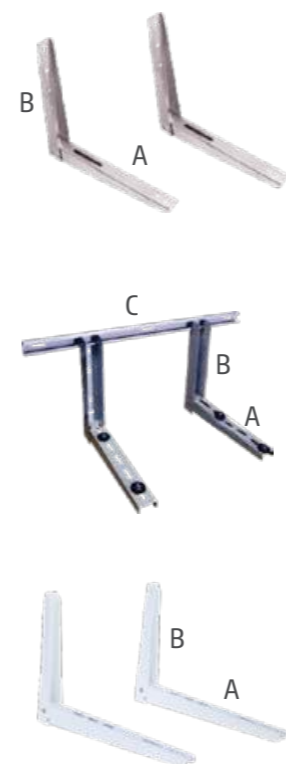
Part No.	PC-200A
Voltage	220V/50-60Hz
Power	23W
Flow rate	1.5L/min
Connection	25mm
Max Lift	200cm

### Power Washer

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



### Bracket for A/C Outdoor Unit



**Remark:**

We can manufacture brackets according to customer's special requirement, for example: different material, different size, thickness, color, surface treatment, price can be very competitive

Part No.	A(mm)	B(mm)	Packing	1*20"
B-400	450	350	506*62*68-2.16KG	6000Pcs
B-500	550	450	620*90*70-2.85KG	6000Pcs

\*\*Stainless Steel, Galvanized Steel

Part No.	A(mm)	B(mm)	C(mm)	Packing	1*20"
C-3011	380	400	700	705*75*90-3.3KG	4000Pcs
C-3012	480	400	700	705*75*90-3.6KG	4000Pcs
C-3013	620	420	1000	1005*75*90-5.9KG	3000Pcs

\*\*Steel

Part No.	A(mm)	B(mm)	Packing	1*20"
D-3011	450	400	480*80*55-2.78KG	5500Pcs
D-3012	500	400	530*80*55-2.9KG	5500Pcs
D-3013	550	400	580*80*55-3.4KG	5000Pcs
D-3014	650	460	680*80*55-3.46KG	5000Pcs

\*\*Steel



Plastic A/C Brackets



Part No.	A(mm)	B(mm)	C(mm)	D(mm)	Application
WTG118-A	390	115	73	82	7000-12000BTU
WTG118-B	490	115	73	82	12000-24000BTU
WTG118-C	450	115	73	82	12000-24000BTU

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



\*For specific size, please contact with our sales.



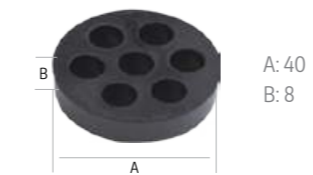
Rubber Anti Vibration A/C Brackets



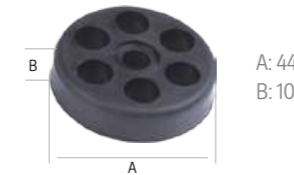
Part No.	Size(mm)	Material	N.W.(kg)	G.W.(kg)
AVB-250	250x160x95	Rubber, Alum Alloy	2.3	2.6
AVB-450	450x160x95	Rubber, Alum Alloy	4.5	4.8
AVB-600	600x160x95	Rubber, Alum Alloy	6.2	6.5
AVB-1000	1000x160x95	Rubber, Alum Alloy	10	10.3

Accessory include:

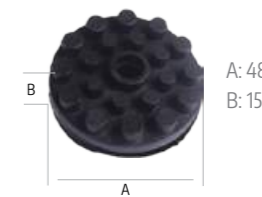
- 2 pcs fixed screw rod.
- 2 pcs washer.
- 2 pcs nut.



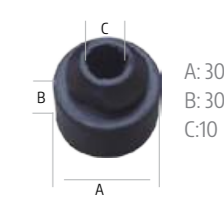
WTG004-A



WTG004-B



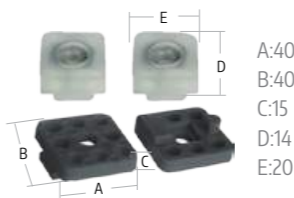
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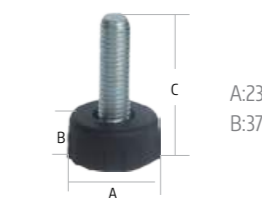
WTG117-A



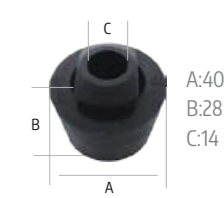
WTG008-A



WTG008-A

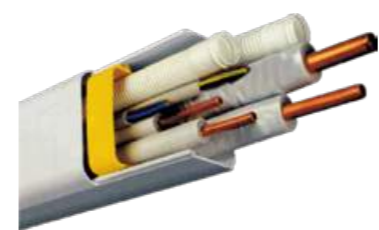


WTG009-A



WTG117-B

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

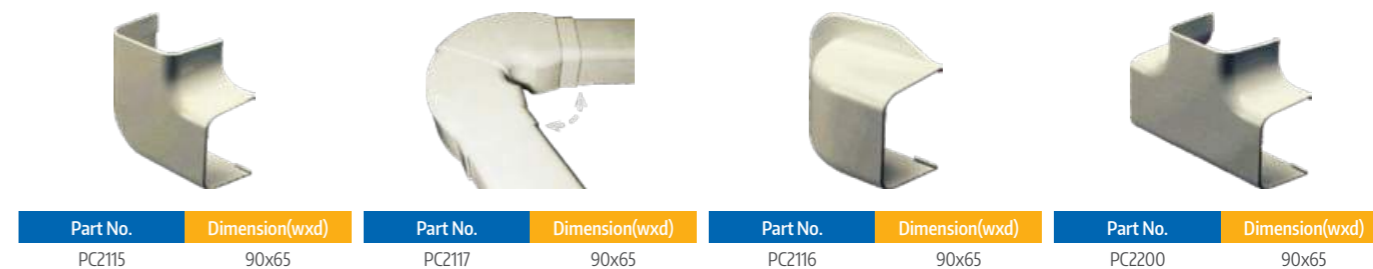
Flexible Joint

- Used in difficult line 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

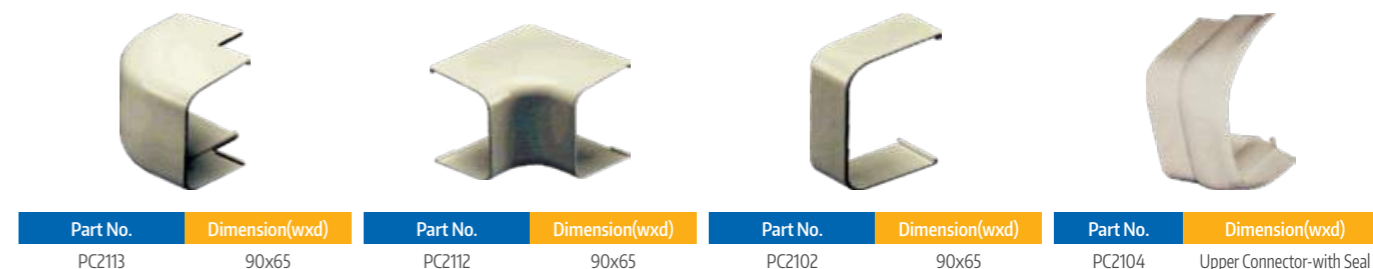


Part No.	Dimension(wxd)
PC2001	90x65x2mt

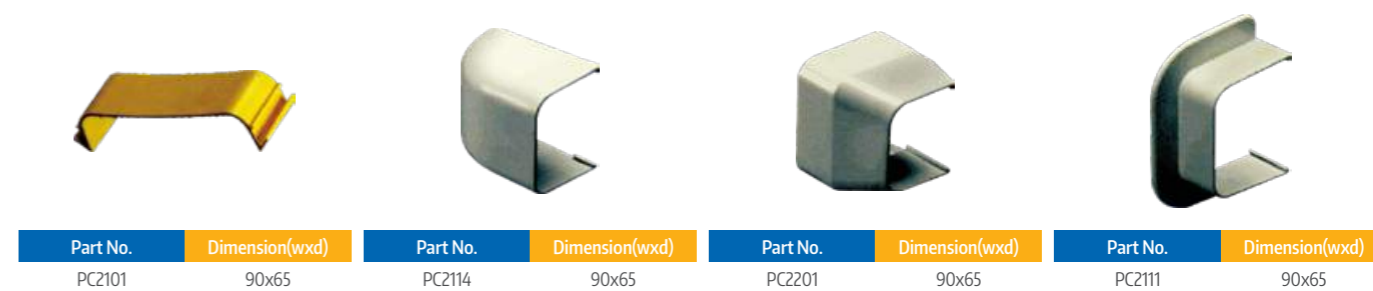
Part No.	Dimension(wxd)
PC2202	90x65x500mm



Part No.	Dimension(wxd)	Part No.	Dimension(wxd)	Part No.	Dimension(wxd)	Part No.	Dimension(wxd)
PC2115	90x65	PC2117	90x65	PC2116	90x65	PC2200	90x65



Part No.	Dimension(wxd)	Part No.	Dimension(wxd)	Part No.	Dimension(wxd)	Part No.	Dimension(wxd)
PC2113	90x65	PC2112	90x65	PC2102	90x65	PC2104	Upper Connector-with Seal



Part No.	Dimension(wxd)	Part No.	Dimension(wxd)	Part No.	Dimension(wxd)	Part No.	Dimension(wxd)
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)

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



QD80

- For Inverter A/C Controller
- Available for most Inverter A/C produced before 2008
- Imported model, good quality



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-line Sleep
- Time Defrost
- Compressor 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.



ZL-U11A

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

## 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, JIINDA, ALPIN, JOHNSON, 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-Dot1(2000 in 1)



KT-528(1028 in 1)



KT-N898



KT-N828(2000 in 1)



KT-N858(2000 in 1)



KT-B03(2000 in 1)



KT-1000(1000 in 1)



KT-9018E(4000 in 1)



SPEAKER(2000 in 1)



KT-G1  
(Remote controller + Thermometer + Hydrometer + Clock)



e-Remote



### Aluminum Foil Adhesive Tape

By roll, 27m lengths 20 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

### Air Conditioner Drain Pipe

Diameter(mm)	Length(mm)
16	50
20	50

### Insulation Tape with Self-adhesive

1By roll, 30ft(9.14m)lengths 30rolls per 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 fatgue Inhibitors
- Non-Acid
- Good for all metal, copper & aluminium



### 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

### PVC Air Conditioner Insulation Tape

Part No.	Size
PVC1	0.13mmx48mmx15m
PVC2	0.13mmx48mmx18m

### Cork Tape

Black rubber, air conditioner heat preservation tape.

Thickness(mm)	Width(mm)	Length(inch/mm)
3	25	30/9140
3	50	30/9140
5	50	30/9140

Suitable temperature: -20°F to 360°F  
Nature: Pull strength 13kg/cm<sup>2</sup>, extension rate 800%, good recovery nature after comperss.

### Air Curtain

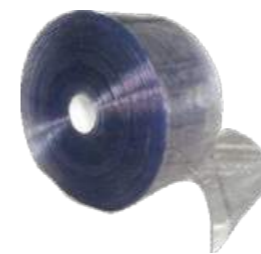


Part No.	Size(mm)	Volt./Freq	Motor power (W)		Air volume(m <sup>3</sup> /h)		Air speed(m/s)	Noise(dB)		N.W(kg)
			Hi	Lo	Hi	Lo		Hi	Lo	
FM-3509	900x230x215	220V/50Hz	230	200	1100	600	13-16	52	49	13
FM-3510	1000x230x215	220V/50Hz	250	220	1200	900	13-16	25	49	13.5
FM-3512	1200x230x215	220V/50Hz	290	260	1500	1200	13-16	53	50	15.5
FM-3515	1500x230x215	220V/50Hz	380	350	1900	1500	13-16	55	53	20
FM-3518	1800x230x215	220V/50Hz	450	420	2280	1800	13-16	57	54	23.5
FM-4009	900x230x215	220V/50Hz	300	270	1400	1000	16-20	57	54	13
FM-4010	1000x230x215	220V/50Hz	320	290	1550	1100	16-20	57	54	13.5
FM-4012	1200x230x215	220V/50Hz	400	370	1900	1500	16-20	58	55	13.5
FM-4015	1500x230x215	220V/50Hz	500	470	2300	1900	16-20	61	58	20



Part No.	Size(mm)	Volt./Freq	Motor power (W)		Air volume(m <sup>3</sup> /h)		Air speed(m/s)	Noise(dB)		N.W(kg)
			Hi	Lo	Hi	Lo		Hi	Lo	
FM-1209T/Y5G	900x190x220	220V/50HZ	160	110	1400	1100	9-11	57	55	10
FM-1210T/Y5G	1000x190x220	220V/50HZ	180	130	1600	1300	9-11	58	56	11
FM-1212T/Y5G	1200x190x220	220V/50HZ	200	150	1900	1600	9-11	58	56	12.5
FM-1215T/Y5G	1500x190x220	220V/50HZ	230	180	2500	2000	9-11	59	57	15.5
FM-1218T/Y5G	1800x190x220	220V/50HZ	300	250	3200	2600	9-11	60	58	18

### 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 colour(clear), opaque (black only)

Width: 200mm, 300mm, 1200mm(black only)

Thickness: 2mm, 3mm

Length: Standard length is 50m per roll, but we can offer cut to size if required. We can even supply mounting hardware.

### Barcket for PVC Strip Door

Material: Stainless steel or steel

Length: 1 Meter

Thickness: 1mm

Plate Length: 150mm, 200mm



### Square Air Diffuser

Part No.: SDA | Material: Aluminium



Overall Size (mm)	Neck Size (mm)
295*295	150*150
370*370	225*225
445*445	300*300
520*520	375*375
595*595	450*450

### Round Air Diffuser

Part No.: RDA | Material: Aluminium



Neck Size (mm)
150
200
250
300
350

### Swirl Air Diffuser

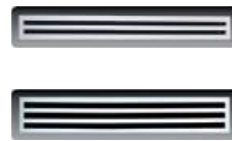
Part No.: SDS | Material: Steel



Overall Size (mm)
595*595
610*610

### Linear Slot Diffuser

Part No.: LSD | Material: Aluminium



Overall Size (mm)	Neck Size (mm)	Slot
77*1000	113*964	2
77*1500	113*1464	2
77*2000	113*1964	2
132*1000	156*964	3
132*1500	156*1464	3

### Single Deflection Grille

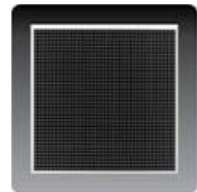
Part No.: SDG | Material: Aluminium



Overall Size (mm)	Neck Size (mm)
200*300	148*248
300*400	248*348
400*500	348*448
500*600	448*548
600*700	548*648

### Eggcrate Grille

Part No.: EG | Material: Aluminium



Blades degree	Neck Size (mm)
EGO	595*595
EG45	595*595

### Ball Spout

Part No.: BSA | Material: Aluminium



Neck Size (mm)
150
200
250
315
400

### Disc Valve

Part No.: BSS | Material: Aluminium



Neck Size (mm)
100
125
150
160
200

### Pipe Clamp

DF-1006



Use Area	Bandwidth(mm)	Package Size(cm)	pcs/ctn	Weight(kgs)
8-12mm	9	40x27x10	1000	10
10-16mm	9	40x27x13	1000	10.5
12-22mm	9	40x27x14	1000	11
16-27mm	9	40x27x17	1000	11.7
23-35mm	9	40x27x21	1000	12.6
30-45mm	9	40x27x25	1000	13.7
30-45mm	9	40x27x29	1000	14.4
32-50mm	9	40x27x21	500	7.6
40-60mm	9	40x27x26	500	8.3
50-70mm	9	55x27x31	500	9
60-80mm	9	55x27x36	500	9.8
70-90mm	9	55x26x31	500	10.5
80-100mm	9	55x26x34	500	10.8
90-110mm	9	55x26x37	500	11.5
100-120mm	9	55x26x20	250	6.3
110-120mm	9	55x26x22	250	6.6
120-140mm	9	55x26x24	250	7
130-150mm	9	55x26x26	250	7.5
140-160mm	9	55x26x26	250	8

### Spiral Clamp

DF-1002



American fastener Bandwidth: 12.7mm

Part No.	Specification	Use Area	Bandwidth(mm)	Package Size(mm)	pcs/ctn	Weight(kgs)
#16	1-1/2"	21-38mm	12.7	50x30x24	1000	21
#20	1-3/4"	21-44mm	12.7	50x30x17	500	11
#24	2"	27-51mm	12.7	50x30x21	500	11.5
#28	2-1/4"	33-57mm	12.7	50x30x24	500	1
#32	2-1/2"	40-63mm	12.7	50x30x27	500	12.5
#36	2-3/4"	46-70mm	12.7	50x30x31	500	13
#40	3"	52-76mm	12.7	50x30x34	500	14
#44	3-1/4"	59-82mm	12.7	50x30x37	500	14.5
#48	3-1/2"	65-89mm	12.7	50x30x41	500	15
#52	3-3/4"	72-95mm	12.7	50x30x44	500	15.5
#56	4"	78-101mm	12.7	50x30x47	500	16
#60	4-1/4"	84-108mm	12.7	50x30x50	500	16.5
#64	4-1/2"	91-114mm	12.7	50x30x26	250	8.7
#68	4-3/4"	95-120mm	12.7	50x30x30	250	9.1
#72	5"	105-127mm	12.7	50x30x34	250	9.5
#80	5-1/4"	110-134mm	12.7	50x30x40	250	10.3
#88	5-1/2"	118-140mm	12.7	50x30x46	250	11.1
#92	6"	130-152mm	12.7	50x30x50	250	11.8
#96	6-1/2"	143-165mm	12.7	50x30x50	250	11.8
#100	7"	146-171mm	12.7	50x40x42	250	12.6
#104	7"	155-178mm	12.7	50x40x42	250	12.6

### DF-3001



Heavy Pipe Clamps M10 With Epdm Rubber

Part No.	No.	Size(mm)	Inch	Reference	No.	Size(mm)	Inch
109015	15	12-16	--	109125	125	125-130	--
109018	18	15-19	3/8"	109133	133	132-137	--
109022	22	20-25	1/2"	109140	140	138-142	5"
109028	28	26-30	3/4"	109150	150	148-152	--
109035	35	32-36	1"	190160	160	159-166	6"
109040	40	38-43	1-1/4"	109200	200	200-212	--
109048	48	47-51	1-1/2"	109220	220	215-226	--
109054	54	53-58	--	109250	250	248-252	--
109060	60	60-64	2"	109315	315	312-318	--
109070	70	68-72	--	109355	355	352-358	--
109075	75	75-80	2-1/2"	109400	400	395-405	--
109083	83	81-86	--	109450	450	446-456	--
109090	90	87-92	3"	109500	500	496-506	--
1090100	100	99-105	3-1/2"	109560	560	556-566	--
1090110	110	107-112	--	109630	630	626-636	--
1090115	115	113-118	4"				

### Coloured Cable Ties (Material: Nylon 66)



Part No.	L (mm)	W (mm)	Bundle Diameter E (mm)	Min. Loop	Tensile Strength	Packing
QLS-3 x 60	60	2.5	2-11	18	8	100PCS & 100PCS
QLS-3 x 100	100	2.5	2-22	18	8	100PCS & 100PCS
QLS-3 x 200	200	2.5	3-50	18	8	100PCS & 500PCS
QLS-4 x 150	150	3.5	3-35	40	18	100PCS & 500PCS
QLS-4 x 200	200	3.5	3-50	40	18	100PCS & 500PCS
QLS-4 x 300	300	3.5	3-80	40	18	100PCS & 500PCS
QLS-5 x 200	200	4.8	3-50	50	22	100PCS & 500PCS
QLS-5 x 300	300	4.8	3-80	50	22	100PCS / 250PCS
QLS-5 x 400	400	4.8	3-105	50	22	100PCS & 250PCS
QLS-5 x 500	500	4.8	3-150	50	22	100PCS & 250PCS
QLS-8 x 150	150	7.8	4-35	120	55	100PCS & 500PCS
QLS-8 x 200	200	7.8	4-50	120	55	100PCS & 500PCS
QLS-8 x 300	400	7.8	4-80	120	55	100PCS & 250PCS
QLS-8 x 400	400	7.8	4-102	120	55	100PCS & 250PCS
QLS-8 x 500	500	7.8	4-150	120	55	100PCS & 250PCS
QLS-10 x 500	500	9	8-50	175	80	100PCS & 250PCS
QLS-12 x 650	650	12	15-190	250	114	100PCS



### Aluminium Flexible Duct



ALU+

Duct Material	Aluminium/Polyester
Standard Length	10m
Compressed Length	0.4m/0.6m
Diameter Range	76mm/1200mm
Temperature Range	-30/+140
Maximum Air Velocity	30m/Sec(5906ft/min)
Max. Positive Working Pressure	2500pa
Packing	Individual Carton

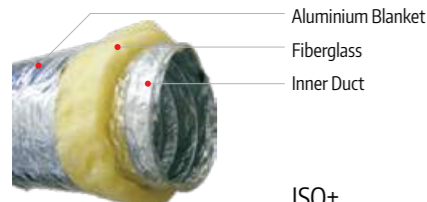
### Combined Flexible Duct



COMBI+

Duct Material	Aluminium/Polyester/PVC
Standard Length	10m
Compressed Length	0.4m/0.6m
Diameter Range	76mm/1200mm
Temperature Range	-30/+140
Maximum Air Velocity	30m/Sec(5906ft/min)
Max. Positive Working Pressure	3000pa
Packing	Individual Carton

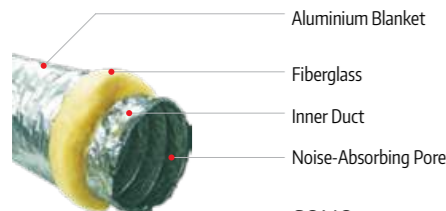
### Insulated Flexible Duct



ISO+

Outer Jacket	Aluminium/Polyester
Standard Fiberglass Color	Yellow
Fiberglass Density	16/m <sup>3</sup>
Fiberglass Thickness	25mm
Standard Length	10m
Compressed Length	1m/1.2m
Diameter Range	76mm/1200mm
Temperature Range	-30/+140
Maximum Air Velocity	30m/Sec(5906ft/min)
Max. Positive Working Pressure	2000pa
Packing	Individual Carton

### Silent Insulated Flexible Duct



SONO+

Outer Jacket	Aluminium/Polyester
Standard Fiberglass Color	Yellow
Fiberglass Density	16/m <sup>3</sup>
Fiberglass Thickness	25mm
Standard Length	10m
Compressed Length	1m/1.2m
Diameter Range	76mm/1200mm
Temperature Range	-30/+140
Maximum Air Velocity	30m/Sec(5906ft/min)
Max. Positive Working Pressure	2000pa
Packing	Individual Carton

### Semirigid Flexible Duct



SEMI+

Duct Material	Aluminium
Thickness of Aluminium	0.08mm
Standard Length	3m
Compressed Length	1m
Diameter Range	75mm/600mm
Temperature Range	-30/+250
Maximum Air Velocity	25m/Sec(4922ft/min)
Max. Positive Working Pressure	2000pa
Packing	Individual Carton

### PET Flexible Duct

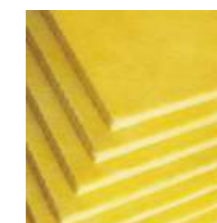


Duct Material	Polyester
Standard Length	10m
Compressed Length	0.1m/0.15m
Diameter Range	76mm/1200mm
Temperature Range	-40/120
Maximum Air Velocity	30m/Sec(5906ft/min)
Max. Positive Working Pressure	3000pa
Packing	Individual Carton



#### MAT+

- Common Centrifugal Glass Wool**
- It is widely applied for the application of the heat insulation and noise absorbing for building construction.
  - Different colors get different prices.
  - Density: 10, 12, 14, 16, 20, 24, 32kg/m<sup>3</sup>



#### BOARD+

- Common Centrifugal Glass Wool Boards**
- It is widely applied for the application of the heat insulation and noise absorbing for building construction.
  - Density: 24, 28, 32, 36, 40, 44, 48, 60, 64, 80, 96kg/m<sup>3</sup>.
  - Thickness: 15~75mm.
  - Length: 1200mm, 2400mm.
  - Width: 600mm, 1200mm.



### Clamp Band

#### PRODUCT DESCRIPTION

- Comes with a handy plastic container having 30m strip inside and with multi clamp, you may cut it to any size fitting different size flexible ducts.
- Band: 9mm width, 0.6mm thickness width rounded edges and smooth underside of banding prevent any risk of damage of the duct of pipe being clamped.

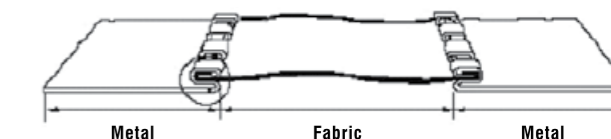
### Flexible Duct Connector

#### PRODUCT DESCRIPTION

Flexible duct connector is formed through fold repression by using fire-resistant fabric and punching sheet. With this technic, the gas tightness is good, the punching sheet is easy to be shaped, and the installation is convenient. It can replace the old common canvas to save time. You can bend the galvanized sheet into whatever shape you need, and then use the tapping screw or the self-plugging rivet to tight it. Another installation method is spot welding processing.

Part No.	Fabric	Metal
35mm	60mm	35mm
45mm	60mm	45mm
45mm	70mm	45mm
45mm	75mm	45mm
70mm	100mm	70mm

#### Flexible connector size



- Polyester Fire-resistant Fabric Duct Connector Model:Fc1**
- Steel: Galvanized, 0.4mm thick
  - Fabric: Fire-resistant polyester coated PVC
  - Color: Black
  - Temperature Range: -30 Deg.C~+120 Deg.c
  - Tensile Strength (N): 3000x2090
  - Anti-rips intensity (N): 288.5x246.6
  - Length per Roll: 25m, 30m, 45m, 50m,



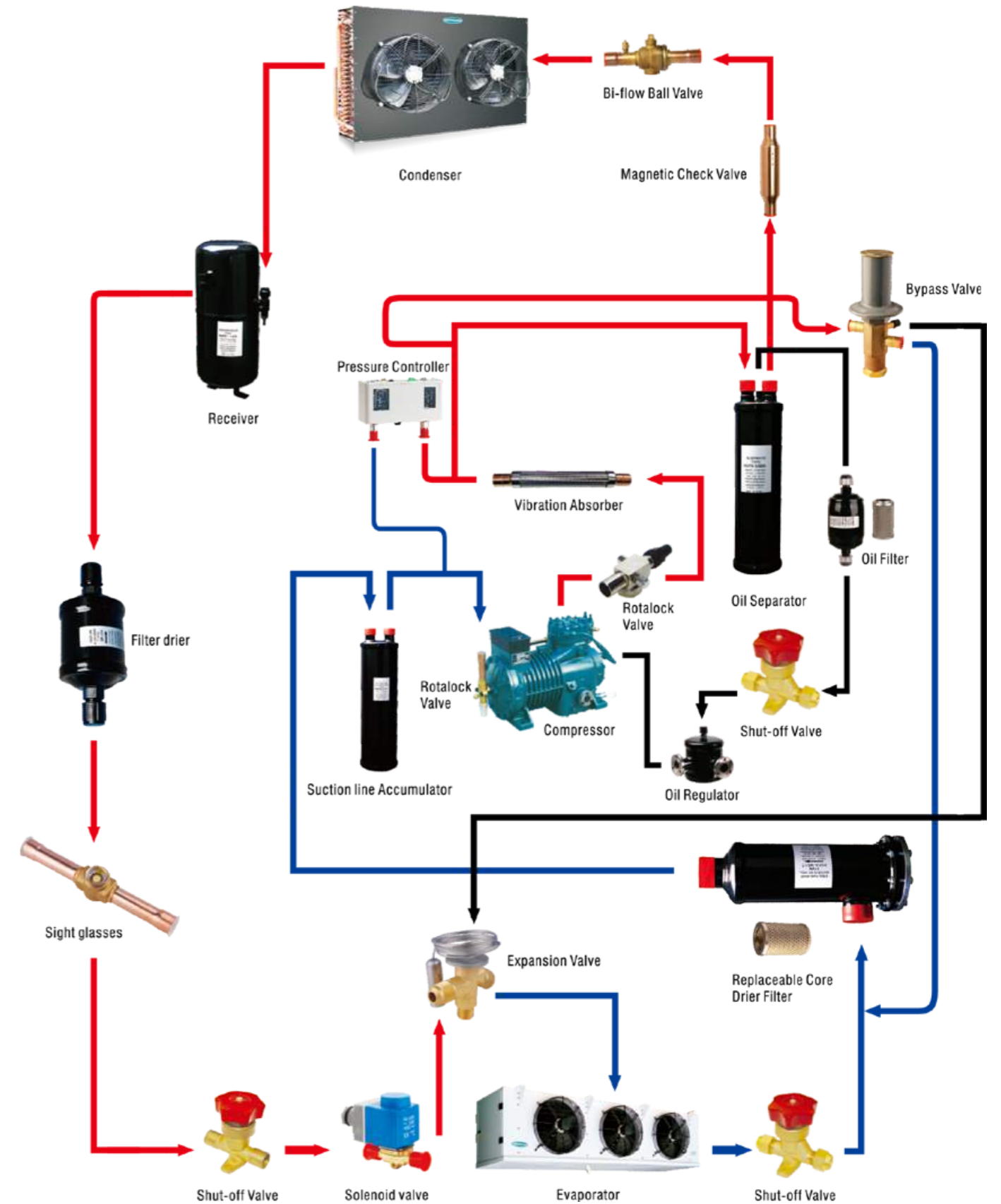
- Polyester Fire-resistant Fabric Duct Connector Model:Fc2**
- Steel: Galvanized, 0.4mm thick
  - Fabric: Fire-resistant fiberglass coated silicone
  - Color: Black
  - Temperature Range: -30 Deg.C~+280 Deg.c
  - Tensile Strength (N): 3000x1860
  - Anti-rips intensity (N): 253.6x180.5
  - Length per Roll: 25m, 30m, 45m, 50m,

# 10 REFRIGERATION SPARE PARTS

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



# SCHEMATIC OF REFRIGERATION SYSTEM





### SRK Liquid Line Filter Drier(Solid Core)



Alco type

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.

#### Feature

- 100% molecular sieve core; • 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.

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)



Danfoss type

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.

#### Feature

- High ability to remove pollutants such as moisture and acid; • 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.

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)



Alco type

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	10	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(Compact Beads)



Danfoss type

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 an non-oil consuming additive compatible with R22.

**Feature**

- Additives consuming no oil;
- Joint type: ODF or SAE;
- Corrosive resistance mold;
- Max working pressure: 4.7MPa/680Psig.

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		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:**

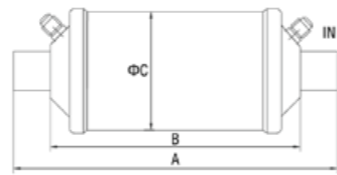
Refrigerant quantity capacity: evaporating temperature=-15°C, liquid temperature=30°C, drop pressure ΔP=0.07bar.



## Suction Line Filter

### Features:

- 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.

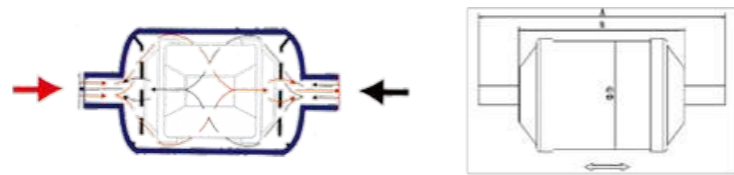


Part No.	Connrction Size(inch)	A(inch)	B(inch)	ØC(inch)
SSR-283-T	3/8	5.59	4.40	3.5
SSR-284-T	1/2	5.69	4.43	3.5
SSR-285-T	5/8	6.38	4.92	3.5
SSR-286-T	3/4	7.75	6.18	3.5
SSR-287-T	7/8	7.87	6.22	3.5
SSR-289-T	1-1/8	8.25	6.60	3.5
SSR-2811-T	1-3/8	10.81	8.84	3.5
SSR-2813-T	1-5/8	10.50	8.50	3.5

## Bi-flow Filter Drier (Solid Core)



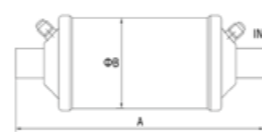
100% molecular sieve core



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)

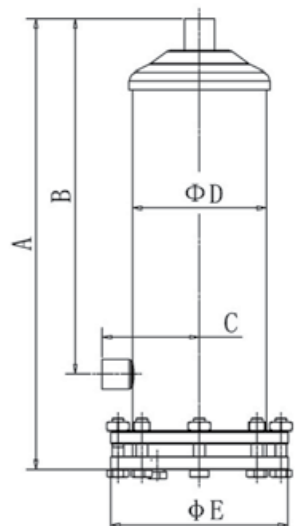
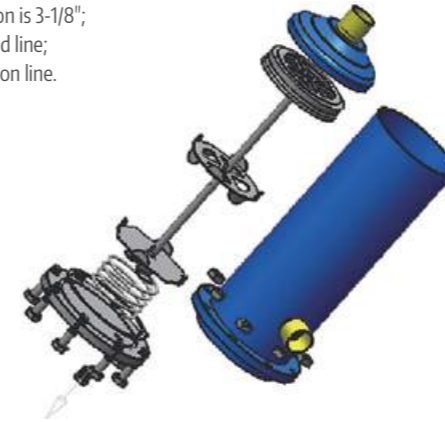
- Used on the suction pipeline of refrigeration and air-conditioning.
- 48% alumina, 47% molecule and 5% carbon filter core.
- It can absorb the acid and water in the system very efficiency and also can absorb injurant that burnt by the compressor.



Part No.	Connection Size(inch)	A(mm)(±2)	ØB(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

## Demountable Filter Drier Shell

- 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	
			Commerial Refrigeration and low-temperature equipment	404A/502 & 507	System of replace or Assemble in the spot	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

# Demountable Filter Drier Shell

- 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
			Commerial Refrigeration and low-temperature equipment	12/134a	22	404A/502 & 507	System of replace or Assemble in the spot					
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



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
HR-100	--	H-100	100% Molecular Sieve, High Water Removal	2.09	4.80	6.50
X-48	48F	F-48R	Filter for Suction Line, Reverse Flow	0.79	3.74	5.51
X-100	--	F-100R	Filter for Suction Line, Reverse Flow	1.10	4.69	6.54
SF-48	--	--	Stainless Steel Filter for Suction Line, Could be Used Repeatedly After Cleaning	0.79	3.74	5.51
SF-100	--	--	Stainless Steel Filter for Suction Line, Could be Used Repeatedly After Cleaning	1.10	4.69	6.54
CU-48	--	--	Stainless Steel Filter for Oil System	0.79	3.74	5.51
CU-100	--	--	Stainless Steel Filter for Oil System	1.10	4.69	6.54

# RSPQ Duplex Accumulator



Character: \* Suitable for all kinds of refrigeration condensing units.  
\* 100\*prevent liquid-strike to compressor.

### 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)	H (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	



### 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

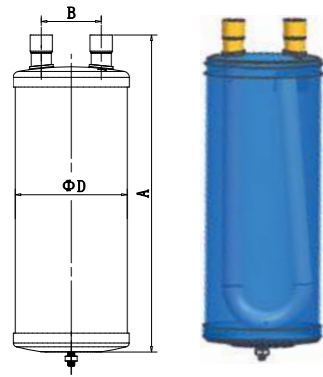
Part No.	Connection size (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)
RSPQ-4409SC-1	28	140	342	430	388	42	170	10	140
RSPQ-7611SC-1	35	165	366	455	462	48	177	10	165
RSPQ-9013SC-1	42	180	407	495	487	52	190	10	180
RSPQ-18017SC-1	54	219	452	539	592	60	215	10	190
RSPQ-21017SC-1	54	273	442	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



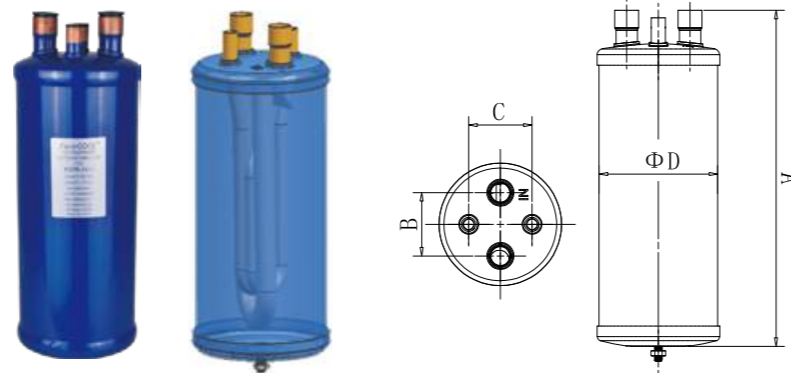
In circulatory system, the refrigerant must be convert became gas before returning to compressor. So it has to separate gas and liquid before the refrigerant enters into the compressor. And let the gas refrigerant enters into the compressor will not cause strike. The liquid refrigerant evaporate slowly in the vessel, then enter the compessor 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)@-18°C 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 Accumulators with Heat Exchanger

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)@-18°C 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

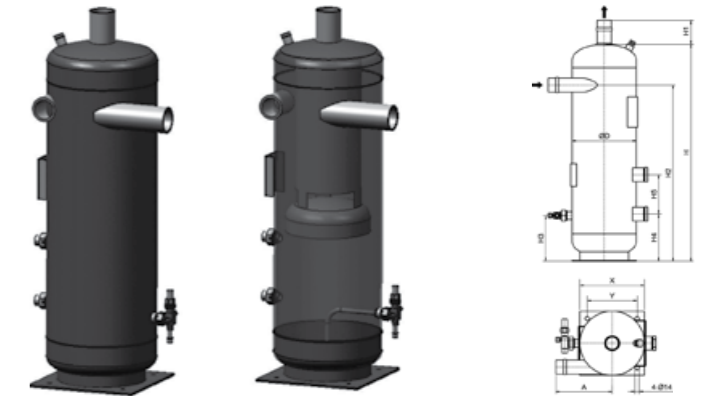
## Demountable Oil Separators



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.	JointSize (Inch)	ØD (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	135	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

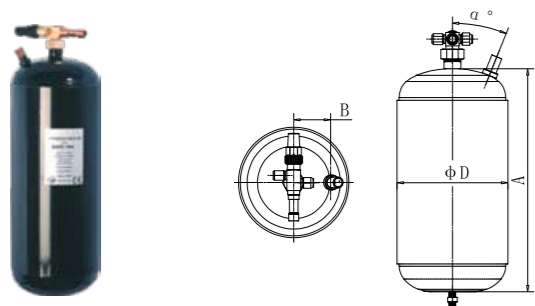
## Oil Filter

G series oil filter can filtrate 99% of 3 microm 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

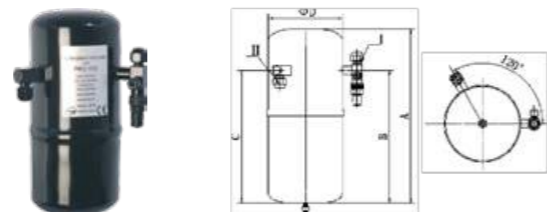
Vertical Receiver



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°

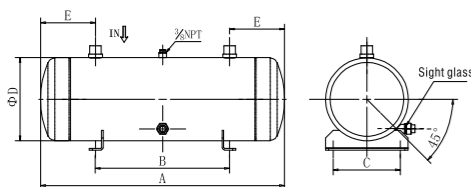


Part No.	Volume(L)	ODF	A(mm)	B(mm)	D(mm)
RSPC-101J	1.0	3/8	200	132	89
RSPC-102J	2.9	3/8	258	181	127
RSPC-103J	3.2	3/8	290	203	127
RSPC-104J	6.2	1/2	348	257	165
RSPC-105J	7.5	5/8	414	320	165
RSPC-106J	11.2	3/4	600	495	165
RSPC-107J	13.2	7/8	700	585	165



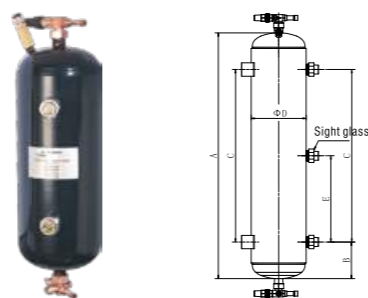
Part No.	Volume(L)	SAE	A(mm)	B(mm)	C(mm)	D(mm)
RSPC-101	1.1	1/4, 3/8	218	136	136	89
RSPC-102	2.9	3/8, 3/8	245	160	160	130
RSPC-103	3.5	3/8, 3/8	298	208	208	130
RSPC-104	6.0	1/2, 1/2	360	275	275	152
RSPC-105	9.6	5/8, 5/8	412	275	322	180

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

# 11 CONDENSER & EVAPORATOR

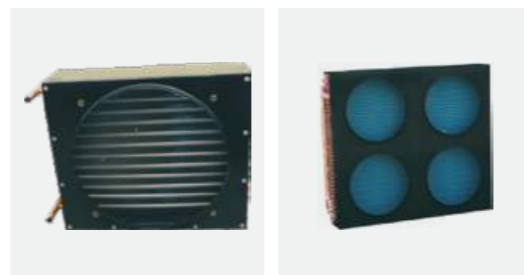
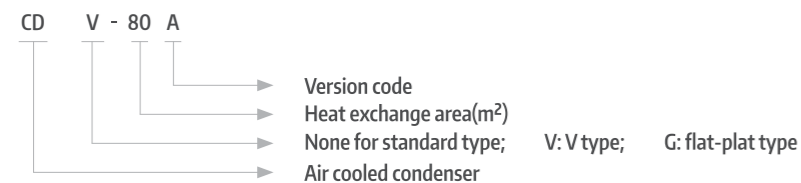
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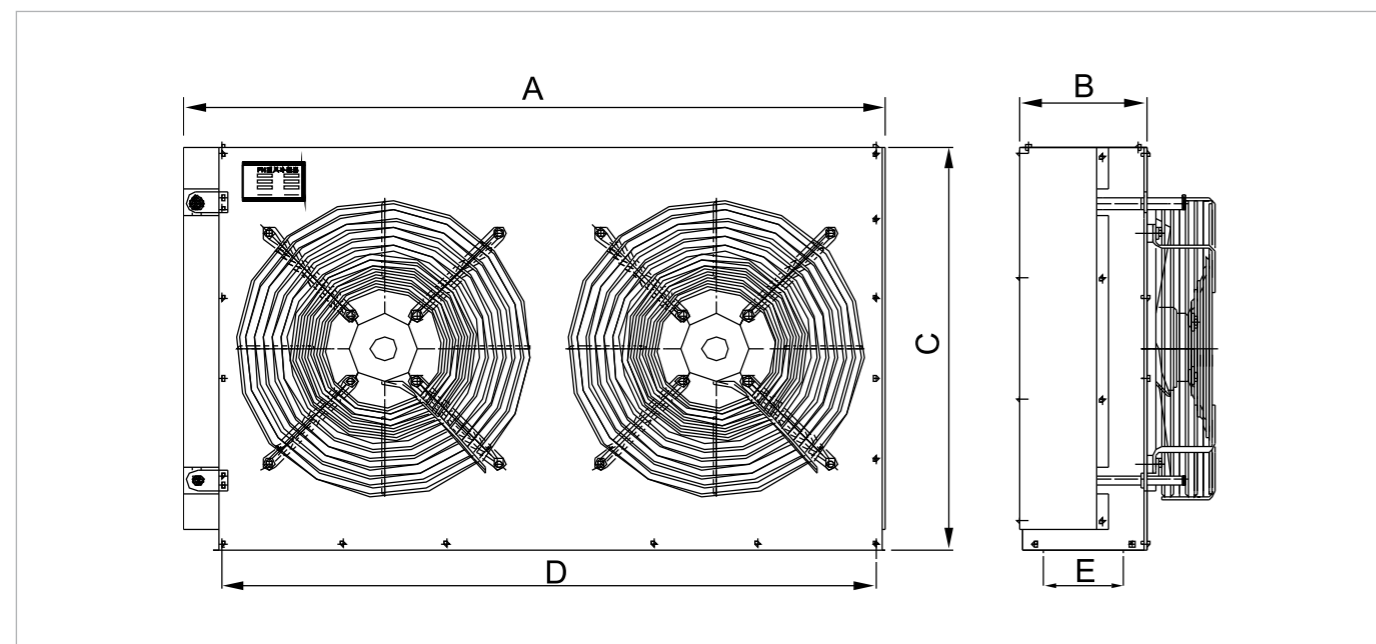
# AIR COOLED CONDENSER

## Nomenclature



## Product Description

With so many years experience of finned pack heat exchanger designing and manufacturing, We provide the CD series air cooled condensers for all kinds of refrigeration system. The optimal geometry and fins ripple make the condenser low flow drop, low airflow resistance, and low noise. All of our products have been tested at 2.8MPa for the air leakage. R22, R134a, R404 & R407C could run on these units.



## CD Series Standard Condenser

Part No.	Capacity(KW)	Coil Surface(m <sup>2</sup> )	Fan motor				Connection pipe(mm)		Overall size(mm)
			Input(W)	Dia(mm)	Air flow(m <sup>3</sup> /h)	Voltage(V)	Inlet	outlet	AxBxC
CD-2	0.6	2	1x35	200	410	220	Ø10	Ø10	320x100x230
CD-3.4	1.0	3.4	1x35	200	410	220	Ø12	Ø12	320x100x230
CD-4.4	1.3	4.4	1x60	250	750	220	Ø12	Ø12	370x100x280
CD-5.4	1.6	5.4	1x75	300	1350	220	Ø12	Ø12	440x100x330
CD-7.0	2.0	7.0	1x90	300	1350	220	Ø12	Ø12	440x135x330
CD-8.4	2.3	8.4	1x150	350	3100	380	Ø16	Ø12	500x130x430
CD-11.5	3.5	11.5	1x150	350	3100	380	Ø16	Ø12	480x180x430
CD-15	4.4	15	1x150	350	3100	380	Ø16	Ø12	550x180x480
CD-18	5.2	18	1x180	400	4500	380	Ø19	Ø16	590x180x530
CD-22	6.4	22	1x180	400	4500	380	Ø19	Ø16	590x180x530
CD-25	8.1	25	1x180	400	4500	380	Ø19	Ø16	720x180x580
CD-21	6.1	21	2x90	300	2700	220	Ø16	Ø12	840x180x430
CD-28	8.2	28	2x150	350	6200	380	Ø19	Ø16	900x180x430
CD-33	11.2	33	2x150	350	6200	380	Ø19	Ø16	900x200x480
CD-36	12.6	36	2x180	400	9000	380	Ø19	Ø16	1015x180x580
CD-43	14.8	43	2x180	400	9000	380	Ø22	Ø16	1015x180x680
CD-48	17.5	48	2x180	400	9000	380	Ø22	Ø16	1250x200x630
CD-55	19.2	55	2x180	400	9000	380	Ø22	Ø19	1240x200x730
CD-70	20.5	70	4x150	350	10360	380	Ø28	Ø19	1230x200x830
CD-80	24.4	80	4x150	350	10360	380	Ø28	Ø19	1240x200x930
CD-100	29.6	100	4x180	400	18000	380	Ø28	Ø22	1240x200x1130
CD-130	38.2	130	4x180	400	18000	380	Ø28	Ø22	1250x200x1380
CD-150	47.2	150	4x180	400	18000	380	Ø28	Ø22	1250x250x1380
CD-180	54	180	4x180	400	18000	380	Ø35	Ø22	1250x250x1380

## CDV Series Condenser

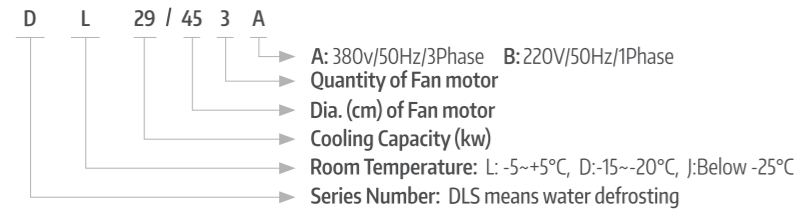
Part No.	Capacity(KW)	Coil Surface(m <sup>2</sup> )	Fan motor				Connection pipe(mm)		Overall size(mm)
			Input(W)	Dia(mm)	Air flow(m <sup>3</sup> /h)	Voltage(V)	Inlet	outlet	AxBxC
CDV-72	21.5	72	1x600	550	7950	380	2xØ22	2xØ16	940x980x880
CDV-111	33.5	111	2x600	550	16200	380	2xØ22	2xØ16	1540x980x960
CDV-158	47.5	158	2x600	550	16200	380	2xØ22	2xØ16	1540x980x960
CDV-180	54	180	2x780	600	20700	380	2xØ28	2xØ22	1840x980x1100
CDV-219	65	219	2x780	600	20700	380	2xØ28	2xØ22	1840x980x1100
CDV-270	81	270	3x800	630	34800	380	2xØ28	2xØ22	2640x1030x1100
CDV-328	99	328	3x800	630	34800	380	2xØ28	2xØ22	2640x1030x1100
CDV-383	115	383	3x800	630	34800	380	2xØ28	2xØ22	3040x1030x1100
CDV-455	137	455	4x800	630	44000	380	2xØ35	2xØ28	3240x1050x1200
CDV-570	171	570	4x800	630	44000	380	2xØ35	2xØ28	3240x1200x1200

## CDG Series Condenser

Part No.	Capacity(KW)	Coil Surface(m <sup>2</sup> )	Fan motor				Connection pipe(mm)		Overall size(mm)
			Input(W)	Dia(mm)	Air flow(m <sup>3</sup> /h)	Voltage(V)	Inlet	outlet	AxBxC
CDG-200	66	200	1x1800	800	18660	380	42	35	1600x1220x1340
CDG-300	109	300	2x1800	800	39000	380	42	35	2900x1220x1340
CDG-400	132	400	2x1800	800	37320	380	54	42	2900x1220x1340
CDG-500	165	500	3x1800	800	28500	380	54	42	4200x1220x1340
CDG-600	198	600	3x1800	800	55980	380	54	42	4200x1220x1340
CDG-800	264	800	4x1800	800	74640	380	67	54	5500x1220x1340
CDG-1000	330	1000	6x1800	800	115070	380	2x67	2x54	4200x2220x1340
CDG-1200	396	1200	6x1800	800	109620	380	2x67	2x54	4200x2220x1340

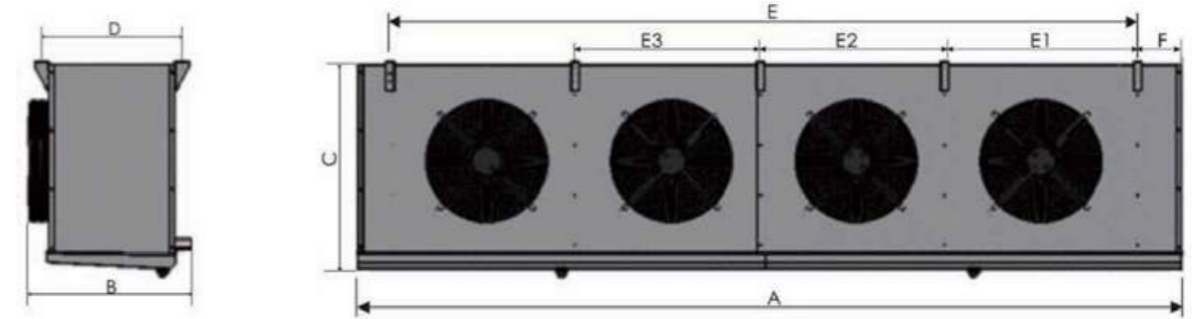
# AIR COOLERS (EVAPORATORS)

## Nomenclature



## PRODUCT DESCRIPTION

- Power painting steel body
- Water defrosting is optional
- Defrosting with stainless steel electric heater
- Double layer drain plates keep the condensate water from frozen



## DL Series Chiller Room Air Cooler (fin space 4.5 mm)

Part No.	Capacity (KW) DT=7K, Te=-7C		Air Flow (m³/h)	Air Throw (m)	Input (KW)	Defrost Heater		Size(mm)								Pipe dia.		Drainage	Net weight	
	R22	R404A				coil (kw)	water (kw)	A	B	C	D	E	E1	E2	E3	F	Liquid (mm)			Gas (mm)
DL2.2/311A	2.2	2.3	1500	9	90	1	0.5	642	445	465	364	440	-	-	-	105	Ø12.7	Ø12.7	1"	23.7
DL3.5/311A	3.5	3.7	1500	9	90	1.5	0.5	642	445	465	364	440	-	-	-	105	Ø12.7	Ø19	1"	26.5
DL4.7/312A	4.7	4.9	3000	9	180	2.7	0.9	1092	445	465	364	860	-	-	-	120	Ø12.7	Ø22	1"	41
DL6/312A	6	6.3	3000	9	180	3.6	0.9	1108	455	465	384	860	-	-	-	120	Ø12.7	Ø22	1"	44
DL9/352A	9	9.5	4500	10	280	3.6	1.2	1408	455	465	384	1160	-	-	-	135	Ø16	Ø22	1"	52
DL12.5/402A	12.5	13.1	7000	12	390	4.8	1.2	1488	555	565	484	1240	-	-	-	135	Ø16	Ø22	1.5"	72
DL14.5/402A	14.5	15.2	7000	12	390	6	1.2	1488	555	565	484	1240	-	-	-	135	Ø16	Ø28	1.5"	81
DL17/402A	17	17.9	7000	12	390	6	1.2	1680	555	665	484	1360	-	-	-	160	Ø16	Ø28	1.5"	80
DL25/502A	25	26.3	12000	15	1000	10	4	2121	595	665	502	1801	-	-	-	160	Ø22	Ø35	1.5"	113
DL29/453A	29	30.5	13500	14	840	10	4	2695	595	665	502	2374	818	778	-	160	Ø22	Ø35	2"	141
DL36.5/503A	36.5	38.3	18000	15	1500	10	4	2695	595	765	502	2374	818	778	-	160	Ø22	Ø42	2"	159
DL42/503A	42	44.1	18000	15	1500	12	4	2890	595	765	502	2560	880	840	-	160	Ø22	Ø42	2"	176
DL49/503A	49	51.5	18000	15	1500	12	4	2890	675	765	582	2560	880	840	-	160	Ø22	Ø54	2"	190
DL59/504A	59	62.0	24000	15	2000	15.6	5.2	3778	685	865	582	3440	970	925	935	170	Ø22	Ø54	2-2"	277
DL70/554A	70	73.5	30000	18	3000	15.6	5.2	3978	685	975	582	3440	970	925	935	240	Ø22	Ø54	2-2"	312
DL84/554A	84	88.2	30000	18	3000	23.4	5.2	3978	785	975	682	3600	930	885	895	240	Ø28	Ø54	2-2"	373
DL103/604A	103	108.2	42000	18	3400	26	5.2	3978	785	975	682	3600	930	885	895	240	Ø28	Ø60	2-2"	442
DL112/634A	112	117.6	46000	18	3520	31.2	5.2	3988	785	1075	682	3620	950	890	890	250	Ø35	Ø60	2-2"	487
DL122/634A	122	128.1	46000	20	3520	33.8	5.2	3988	785	1175	682	3620	950	890	890	250	Ø35	Ø60	2-2"	516

## DD Series Freezer Room Air Cooler (fin space 6.0 mm)

Part No.	Capacity (KE) DT=7K, Te=-7C		Air Flow (m³/h)	Air Throw (m)	Input (KW)	Defrost Heater		Size(mm)								Pipe dia.		Drainage	Net weight	
	R22	R404A				coil (kw)	water (kw)	A	B	C	D	E	E1	E2	E3	F	Liquid (mm)			Gas (mm)
DD1.4/311A	1.4	1.5	1500	9	90	1	0.5	642	445	465	364	440	-	-	-	105	Ø12.7	Ø12.7	1"	23.5
DD2.3/311A	2.3	2.4	1500	9	90	1.5	0.5	642	445	465	364	440	-	-	-	105	Ø12.7	Ø19	1"	26
DD3/312A	3	3.2	3000	9	180	2.7	0.9	1092	445	465	364	860	-	-	-	120	Ø12.7	Ø22	1"	40
DD4.5/312A	4.5	4.7	3000	9	180	3.6	0.9	1108	455	465	384	860	-	-	-	120	Ø12.7	Ø22	1"	43
DD6/352A	6	6.3	4500	10	280	3.6	1.2	1408	455	465	384	1160	-	-	-	135	Ø16	Ø22	1"	51
DD7.5/402A	7.5	7.9	7000	12	390	4.8	1.2	1488	555	565	484	1240	-	-	-	135	Ø16	Ø22	1.5"	70.5
DD9/402A	9	9.5	7000	12	390	6	1.2	1488	555	665	484	1240	-	-	-	135	Ø16	Ø28	1.5"	80
DD11/402A	11	11.6	7000	12	390	6	1.2	1680	555	665	484	1360	-	-	-	160	Ø16	Ø28	1.5"	77.5
DD15.5/502A	15.5	16.3	12000	15	1000	10	4	2121	595	665	502	1801	-	-	-	160	Ø22	Ø35	1.5"	110
DD19/453A	19	20	13500	14	840	10	4	2695	595	665	502	2374	818	778	-	160	Ø22	Ø35	2"	138
DD24/503A	24	25.2	18000	15	1500	10	4	2695	595	765	502	2374	818	778	-	160	Ø22	Ø42	2"	156
DD29/503A	29	30.5	18000	15	1500	12	4	2890	595	765	502	2560	880	840	-	160	Ø22	Ø42	2"	172
DD32/503A	32	33.6	18000	15	1500	12	4	2890	675	765	582	2560	880	840	-	160	Ø22	Ø54	2"	186
DD38/504A	38	39.9	24000	15	2000	15.6	5.2	3778	685	865	582	3440	970	925	935	170	Ø22	Ø54	2-2"	272
DD47/554A	47	49.4	30000	18	3000	15.6	5.2	3978	685	975	582	3440	970	925	935	240	Ø22	Ø54	2-2"	305
DD58/554A	58	60.9	30000	18	3000	23.4	5.2	3978	785	975	682	3600	930	885	895	240	Ø28	Ø54	2-2"	364
DD72/604A	72	75.6	42000	18	3400	26	5.2	3978	785	975	682	3600	930	885	895	240	Ø28	Ø60	2-2"	432
DD79/634A	79	83	46000	18	3520	31.2	5.2	3988	785	1075	682	3620	950	890	890	250	Ø35	Ø60	2-2"	476
DD88/634A	88	92.4	46000	20	3520	33.8	5.2	3988	785	1175	682	3620	950	890	890	250	Ø35	Ø60	2-2"	505

## DJ Series Blast Freezer Air Cooler (fin space 9.0 mm)

Part No.	Capacity (KE) DT=7K, Te=-7C		Air Flow (m³/h)	Air Throw (m)	Input (KW)	Defrost Heater		Size(mm)								Pipe dia.		Drainage	Net weight	
	R22	R404A				coil (kw)	water (kw)	A	B	C	D	E	E1	E2	E3	F	Liquid (mm)			Gas (mm)
DJ1.7/311A	1.7	1.8	1500	9	90	1.5	0.5	642	445	465	364	440	-	-	-	105	Ø12.7	Ø19	1"	26
DJ2.2/312A	2.2	2.3	3000	9	180	2.7	0.9	1092	445	465	364	860	-	-	-	120	Ø12.7	Ø22	1"	40
DJ2.7/312A	2.7	2.8	3000	9	180	3.6	0.9	1108	455	465	384	860	-	-	-	120	Ø12.7	Ø22	1"	43
DJ4.2/352A	4.2	4.4	4500	10	280	3.6	1.2	1408	455	465	384	1160	-	-	-	135	Ø16	Ø22	1"	51
DJ5.6/402A	5.6	5.9	7000	12	390	4.8	1.2	1488	555	565	484	1240	-	-	-	135	Ø16	Ø22	1.5"	70
DJ6.8/402A	6.8	7.1	7000	12	390	6	1.2	1488	555	665	484	1240	-	-	-	135	Ø16	Ø28	1.5"	79.5
DJ7.8/402A	7.8	8.2	7000	12	390	6	1.2	1680	555	665	484	1360	-	-	-	160	Ø16	Ø28	1.5"	77
DJ11.5/502A	11.5	12.1	12000	15	1000	10	4	2121	595	665	502	1801	-	-	-	160	Ø22	Ø35	1.5"	109
DJ14/453A	14	14.7	13500	14	840	10	4	2695	595	665	502	2374	818	778	-	160	Ø22	Ø35	2"	137
DJ17/503A	17	17.9	18000	15	1500	10	4	2695	595	765	502	2374	818	778	-	160	Ø22	Ø42	2"	155
DJ20/503A	20	21	18000	15	1500	12	4	2890	595	765	502	2560	880	840	-	160	Ø22	Ø42	2"	171
DJ23/503A	23	24.2	18000	15	1500	12	4	2890	675	765	582	2560	880	840	-	160	Ø22	Ø54	2"	184
DJ26/504A	26	27.3	24000	15	2000	15.6	5.2	3778	685	865	582	3440	970	925	935	170	Ø22	Ø54	2-2"	270
DJ31/554A	31	32.6	30000	18	3000	15.6	5.2	3978	685	975	582	3440	970	925	935	240	Ø22	Ø54	2-2"	303
DJ40/554A	40	42	30000	18	3000	23.4	5.2	3978	785	975	682	3600	930	885	895	240	Ø28	Ø54	2-2"	361
DJ49/604A	49	51.5	42000	18	3400	26	5.2	3978	785	975	682	3600	930	885	895	240	Ø28	Ø60	2-2"	428
DJ53.6/634A	53.6	56	46000	18	3520	31.2	5.2	3988	785	1075	682	3620	950	890	890	250	Ø35	Ø60	2-2"	471
DJ58/634A	58	61	46000	20	3520	33.8	5.2	3988	785	1175	682	3620	950	890	890	250	Ø35	Ø60	2-2"	500



## DUAL DISCHARGE EVAPORATOR

### Nomenclature

DHF - D 80

Heat transfer area m<sup>2</sup>  
Temperature L:-5~+5°C, D:-15~-20°C  
Series code



### Product Description

With the gentle wind discharged from each side, DHF range of dual discharge air cooler is good for applications of food process workshop. According to the different room temperature we have L group for 0°C and D for -18°C. All the products are anti-rusty, corrosion proof, and high reliability.

### Fin space:4.0mm

Part No.	Capacity(KW)	Coil Surface(m <sup>2</sup> )	Tube cubage(L)	Fan motor				Connection pipe(mm)	
				Air Flow(m <sup>3</sup> /h)	Dia(mm)	Input(W)	Voltage(V)	Input(KW)	Voltage(V)
DHF-L23C	5.5	22.8	2.5	4000	400	1x250	380	0.8	220
DHF-L30C	7.3	30.4	3.4	4000	400	1x250	380	1.2	220
DHF-L42C	10.1	42.0	4.4	8000	400	2x250	380	1.4	220
DHF-L56C	13.5	56.1	5.9	8000	400	2x250	380	1.6	220
DHF-L70C	16.8	70.0	7.2	12000	400	3x250	380	2.4	220
DHF-L88C	21.0	87.6	8.9	12000	400	3x250	380	3.6	220
DHF-L117C	28.0	116.8	11.7	16000	400	4x250	380	4.8	220
DHF-L140C	33.6	140.2	14.0	16000	400	4x250	380	6.4	220

Capacity test condition: cold room temperature: 2°C, DT:8K

### Fin space:6.0mm

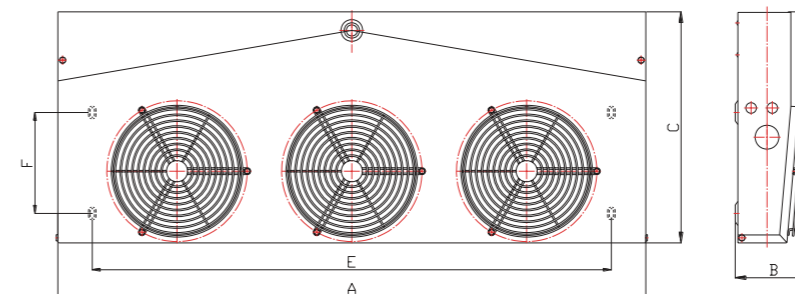
Part No.	Capacity(KW)	Coil Surface(m <sup>2</sup> )	Tube cubage(L)	Fan motor				Connection pipe(mm)	
				Air Flow(m <sup>3</sup> /h)	Dia(mm)	Input(W)	Voltage(V)	Input(KW)	Voltage(V)
DHF-D16A	3.1	15.6	2.5	4000	400	1x250	380	1.6	220
DHF-D21A	4.1	20.8	3.4	4000	400	1x250	380	1.8	220
DHF-D29A	5.8	28.8	4.4	8000	400	2x250	380	2.8	220
DHF-D38A	7.7	38.4	5.9	8000	400	2x250	380	3.2	220
DHF-D48A	9.6	48.0	7.2	12000	400	3x250	380	3.6	220
DHF-D60A	12.0	60.0	9.5	12000	400	3x250	380	4.8	220
DHF-D80A	16.0	80.0	10.6	16000	400	4x250	380	6.4	220
DHF-D96A	19.2	96.0	14.0	16000	400	4x250	380	8.0	220

Capacity test condition: cold room temperature: 2°C, DT:8K

### Fin space:6.0mm

Part No.	Overall size (mm)			Top install size (mm)						Connect pipe (mm)		Drainage pipe dia.
	A	B	C	D	E	E1	E2	E3	F	Inlet	outlet	
DHF-D16A DHF-L23A	906	1042	390	990	690	--	--	--	110	Ø12	Ø22	2x1"
DHF-D21A DHF-L30A	906	1162	390	1110	690	--	--	--	110	Ø12	Ø22	2x1"
DHF-D29A DHF-L42A	1256	1162	390	1110	1040	--	--	--	110	Ø16	Ø28	2x1"
DHF-D38A DHF-L56A	1256	1162	390	1110	1040	--	--	--	110	Ø16	Ø35	2x1"
DHF-D48A DHF-L70A	1756	1162	402	1110	1540	500	500	--	110	Ø16	Ø35	2x1"
DHF-D60A DHF-L88A	1756	1162	402	1110	1540	500	500	--	110	Ø16	Ø35	2x1"
DHF-D80A DHF-L117A	2255	1162	477	1110	1540	500	500	500	110	Ø22	Ø42	2x1"
DHF-D96A DHF-L140A	2255	1162	477	1110	1540	500	500	500	110	Ø22	Ø42	2x1"

## EV SERIES FREEZER AIR COOLER



### MAIN COMPONENTS

- Magnalium body
- Two type of fin space(4.5mm/9.0mm)
- Ceiling mounted.

### PRODUCT DESCRIPTION

EV series freezer air cooler is a cooling equipment, which is applicable to Freon refrigerator, suitable for 0~8°C.

Part No.	Capacity (KW)	Coil Surface (m <sup>2</sup> )	Tube cubage (L)	Fan motor				Defrosting (W)	Pipe dia (mm)		Overall and installing size (mm)					
				Air Flow(m <sup>3</sup> /h)	Dia(mm)	Input(W)	Voltage(V)		In	Out	A	B	C	E	F	
EV-40	0.3	1.4	0.33	410	200	1x40	220	300	9.52	9.52	410	152	435	280	190	
EV-60	0.4	2.3	0.48	410	200	1x40	220	300	9.52	9.52	410	152	435	280	190	
EV-100	0.63	2.4	0.54	820	200	2x40	220	500	9.52	9.52	610	152	435	480	190	
EV-130	0.85	3.8	0.8	820	200	2x40	220	500	9.52	9.52	610	152	435	480	190	
EV-180	1.28	4.8	1.07	1230	200	3x40	220	1000	12	16	1110	152	435	980	190	
EV-290	1.76	7.7	1.61	1230	200	3x40	220	1000	12	16	1110	152	435	980	190	
EV-380	2.2	9.4	1.96	1640	200	4x40	220	1000	12.7	16	1380	152	435	1245	190	

## RB SERIES FREEZER AIR COOLER

### MAIN COMPONENTS

- Anodized Aluminum body.
- Ceiling mounted.

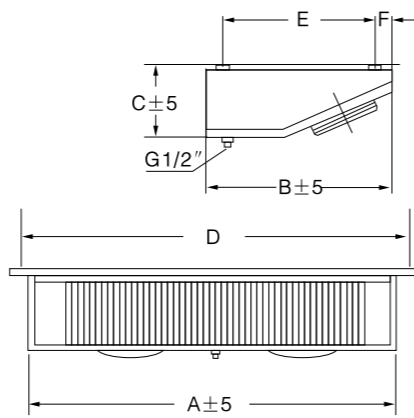
### PRODUCT DESCRIPTION

RB series air cooler are of the products specially designed for the beverage cooler and display showcase which widely used for the supermarkets. It is applicable to Freon refrigerator, suitable for 0~8°C.



Part No.	Colling Capacity (W)	Coil Surface(m <sup>2</sup> )	Qty.(pc)	Dia.(mm)	Fan motor				Defrosting heater		Liquid (mm)	Gas pipe (mm)	Length (mm)
					Air Flow(m <sup>3</sup> /h)	Power(w)	Volage(v)	Rpm	Power(w)	Volage(v)			
ZL-400	540	3	1	200	480	35	220	1300	750	220	12	16	496
RB-420	630	3.5	1	200	480	35	220	1300	800	220	12	16	596
RB-480	720	4	1	200	480	35	220	1300	880	220	12	16	650
RB-600	900	5	2	200	2x480	2x35	220	1300	1020	220	12	16	760
RB-840	1300	7.2	2	200	2x480	2x35	220	1300	1350	220	12	16	1016
RB-1050	1620	9	3	200	2x480	2x35	220	1300	1600	220	12	16	1210

## DE SERIES MIDDLE FREEZING AIR COOLER



### Product Description

DE series air cooler can be used as evaporator in a small-size refrigerator. It can form complete set with opened compressor, semi hermetic compressor or hermetic compressor, DE series air cooler has three different sizes in one, two or three fans. It transmits heat quickly, lowers temperature of the refrigerator sharply and make the cold air in the refrigerator well-distributed, can be manufactured according to customer's special requirement.

### DE series air cooler parameter list

Part No.	Capacity(W)	Coil Surface(m <sup>2</sup> )	Connect pipe(mm)		Fan Motor						Defrost heater 220V/50Hz(W)	
			Inlet	outlet	Diameter (mm)	Air Flow (m <sup>3</sup> /h)	Air throw(m)	RPM	Voltage (V)	Qty		Power (W)
DE-0.45/2.5	450	2.5	12	16	200	480	4	1300	220~240	1	1x40	500
DE-0.9/5.0	900	5.0	12	16	200	2x480	4	1300	220~240	2	2x40	1000
DE-1.35/7.5	1350	7.5	12	16	200	3x480	4	1300	220~240	3	3x40	1500
DE-1.8/10	1800	10	12	16	200	4x480	4	1300	220~240	4	4x40	1800

If the technical changes, please refer to manual attached. No other notice would be given.

### DE series mounting dimension

Part No.	Refrigerator internal volume(m <sup>3</sup> )	Refrigerator temperature(°C)	Refrigerator unit power(HP)	Power supply(V)	Installation dimension(mm)						Note
					A	B	C	D	E	F	
DE-0.45/2.5	0.3~0.4	0~-10	1/3	220	435	390	150	265	505	525	The factory can specially design and process for the user.
DE-0.9/5.0	0.5	-20 0~+5 0~20	1 1/2 3/4	220	745	390	150	265	815	835	
DE-1.35/7.5	1.0	-20 0~+5 0	1 1 3/4	220	1055	390	150	265	1125	1145	
DE-1.8/10	1.5	-20 0~+5 0	2 1.5 1	220	1365	390	150	265	1435	1455	

### Customized Condenser & Evaporator

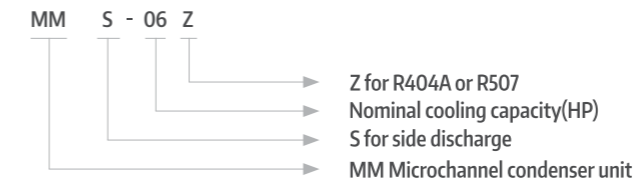


## DANFOSS® SCROLL CONDENSING UNIT

With microchannel condenser



### Nomenclature



### PRODUCT DESCRIPTION

- Danfoss scroll compressor
- High efficiency microchannel condenser
- Low noise & High efficient Axial fan motor
- Original Danfoss refrigeration components
- Extraordinary cost-effectiveness performance



Danfoss® Authorized OEM Model



Model	MMS-02Z	MMS-30Z	MMS-04Z	MMS-05Z	MMS-06Z	MMS-07Z	MMS-08Z	MMS-09Z	MMS-10Z	MMS-15Z
Temperature(°C)	-18°C~5°C									
Refrigerant	R404A									
Power supply	380/3P/50Hz									
Compressor model	MLZ015T4	MLZ021T4	MLZ030T4	MLZ038T4	MLZ045T4	MLZ048T4	MLZ058T4	MLZ066T4	MLZ076T4	MLZ116
Condenser motor	Fan Qty	1xØ450	1xØ450	1xØ450	1xØ450	2xØ450	2xØ450	2xØ450	2xØ450	2xØ500
	Air Flow (m <sup>3</sup> /h)	4500	4500	4500	4500	7490	7490	9000	9000	12890
Eavp-0°C	Cooling capacity (W)	4560	6231	9439	11495	13386	14899	18810	21240	35270
	Input(KW)	1.95	2.5	3.6	4.3	5.1	5.57	5.96	6.76	12.81
Eavp-10°C	Cooling capacity (W)	3130	4324	6556	7943	9541	10323	12870	14850	23760
	Input(KW)	1.85	2.46	3.5	4.21	5.02	5.48	5.96	6.56	11.58
Eavp-15°C	Cooling capacity (W)	2538	3705	5382	6394	7932	8601	10440	12240	19240
	Input(KW)	1.82	2.45	3.45	4.18	4.95	5.42	5.96	6.56	11.08
Eavp-20°C	Cooling capacity (W)	1995	3040	4512	5367	6370	6975	8370	10080	15410
	Input(KW)	1.8	2.42	3.4	4.15	4.9	5.35	5.96	6.46	10.65
Eavp-25°C	Cooling capacity (W)	1581	2500	3657	4230	5320	5605	6840	8100	12200
	Input(KW)	1.75	2.4	3.37	4.1	4.87	5.3	5.86	6.46	10.27
Pipe	Gas (inch)	5/8	5/8	3/4	3/4	3/4	3/4	1-1/8	1-1/8	1-5/8
	Liquid (inch)	3/8	3/8	3/8	3/8	1/2	1/2	1/2	1/2	3/4
Condenser capacity	9KW	9KW	11KW	11KW	17KW	17KW	20KW	23KW	23KW	45KW
Receiver capacity	2L	2.2L	3L	3L	4L	5L	6L	6L	6L	12L
Danfoss filter drier	DML083	DML084	DML804	DML084	DML084	DML084	DML165	DML165	DML165	DML167
Danfoss Solenoid valve	CSV3	CSV6	CSV6	CSV6	CSV6	CSV6	CSV10	CSV10	CSV10	CSV15
Danfoss HP/LP	KP15	KP15	KP15	KP15	KP15	KP15	KP15	KP15	KP15	KP15
Overall Dimension (mm)	1300x560x690			1300x560x990			1300x560x1190			1300x560x1290



# DANFOSS® SCROLL CONDENSING UNIT

### Standard Features:

- Danfoss Scroll Compressor
- Condenser
- Fan Motor
- Liquid Receiver
- Filter Drier
- Solenoid Valve
- Pressure Control
- Pressure Gauge
- Rotalock Valve
- Junction Box



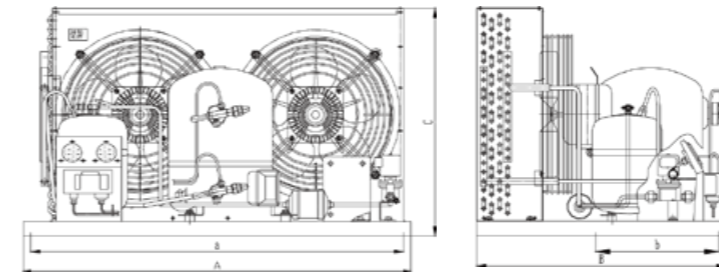
## Medium & High Temperature Condensing Unit

Part No.	CD-15/MLM015	CD-22/MLM021	CD-33/MLM030	CD-43/ZMLM038	CD-48/MLM045	CD-55/MLM048	CD-63/MLM058	CD-70/MLM066	CD-80/MLM076		
Refrigerant	R22										
Condenser fan motor	1x350	1x400	2x350	2x400	2x400	2x400	2x400	4x350	4x350		
Cooling capacity & Input	Eavp-10°C	Cap(W)	6000	8200	12700	14900	18000	19500	23200	26800	
		Input(KW)	1.4	1.9	2.8	3.4	3.8	4.1	4.85	5.5	6.3
	Eavp-20°C	Cap(W)	4200	5800	8800	10400	12300	13500	15900	18300	21300
		Input(KW)	1.35	1.86	2.7	3.2	3.75	4.05	4.7	5.4	6.2
Eavp-25°C	Cap(W)	3500	4800	7200	8500	9900	11100	13000	14900	17400	
	Input(KW)	1.31	1.8	2.68	3.1	3.71	4	4.62	5.3	6.05	
Pipe	Suction pipe (mm)	19	19	19	22	22	22	28	35	35	
	Liquid pipe (mm)	12	12	12	12	12	19	22	22	22	
Overall Size	L(mm)	780	780	1010	1120	1380	1380	1380	1380	1380	
	W(mm)	700	730	780	780	830	830	830	830	830	
	H(mm)	750	780	720	880	860	910	980	980	1150	
Mounting Size (AxB)(mm)	700x620	700x650	930x700	1030x700	1280x780	1280x720	1280x720	1280x720	1280x720		

Part No.	CD-15/MLZ015	CD-22/MLZ021	CD-33/MLZ030	CD-43/ZMLZ038	CD-48/MLZ045	CD-55/MLZ048	CD-63/MLZ058	CD-70/MLZ066	CD-80/MLZ076		
Refrigerant	R404A										
Condenser fan motor	1x350	1x400	2x350	2x400	2x400	2x400	2x400	4x350	4x350		
Cooling capacity & Input	Eavp-10°C	Cap(W)	3700	5100	7700	9200	11100	12100	14300	19100	
		Input(KW)	1.5	2	3	3.6	4.3	4.6	5.8	6.2	7.1
	Eavp-20°C	Cap(W)	2400	3500	5200	6200	7500	10000	9300	11200	13100
		Input(KW)	1.6	1.9	3	3.5	4.2	4.5	5.6	6.1	7
Eavp-25°C	Cap(W)	1900	2800	4200	5000	6100	6600	7600	9000	10600	
	Input(KW)	1.62	1.85	2.9	3.45	4.1	4.48	5.5	6	6.9	
Pipe	Suction pipe (mm)	19	19	19	22	22	22	28	35	35	
	Liquid pipe (mm)	12	12	12	12	12	19	22	22	22	
Overall Size	L(mm)	780	780	1010	1120	1380	1380	1380	1380	1380	
	W(mm)	700	730	780	780	830	830	830	830	830	
	H(mm)	750	780	720	880	860	910	980	980	1150	
Mounting Size (AxB)(mm)	700x620	700x650	930x700	1030x700	1280x780	1280x720	1280x720	1280x720	1280x720		

Cooling capacity under standard condensing temp. at 45°C

# MANEUROP® MGM SERIES CONDENSING UNIT



### PRODUCT DESCRIPTION

- With Maneurop hermetic compressor
- Copper and fin condensers, high efficiency and long life
- Axial fan motor, low noise, and high efficient
- High quality refrigeration components



## Medium & High Temperature Condensing Unit

Part No.	HGM28	HGM36	HGM40	HGM50	HGM64	HGM80	HGM100	HGM125	HGM160		
Compressor	MTZ38	MTZ36	MTZ40	MTZ50	MTZ64	MTZ80	MTZ100	MTZ125	MTZ160		
Temperature(°C)	-5°C~+5°C										
Refrigerant	R404A										
Power supply	380/3Ph/50Hz										
Condenser	Fan Qty	1	2	2	2	2	2	4	4		
	Fan Voltag(V)	380V/50Hz									
	Fan Cap.(W)	180	280	280	360	360	360	500	720	720	
Capacity & input	Eavp-15°C	Cap(W)	5644	7400	8294	10226	13094	16641	19709	25248	31897
		Input(KW)	2.31	3.0	3.44	4.15	5.3	6.88	7.7	9.83	13.0
	Eavp-20°C	Cap(W)	4447	5930	6704	7999	10419	13361	15698	20078	25642
		Input(KW)	2.14	2.8	3.21	3.9	4.94	6.38	7.27	9.16	12.1
Eavp-25°C	Cap(W)	3427	4670	5.33	6152	8132	10524	12279	15708	20305	
	Input(KW)	2.0	2.56	2.95	3.61	4.54	5.85	6.76	8.5	11.1	
Pipe	Suction dia (mm)	12	16	22	22	22	28	28	28	28	
	Liquid dia (mm)	10	10	12	12	12	16	16	16	16	
Overall dimension	A(mm)	680	960	960	1060	1300	1300	1300	1300	1300	
	B(mm)	610	680	680	680	750	800	850	850	850	
	C(mm)	570	470	520	730	770	970	1170	1420	1520	

Part No.	MGM28	MGM36	MGM50	MGM64	MGM80	MGM100	MGM125	MGM160		
Compressor	MTZ28	MTZ36	MTZ50	MTZ64	MTZ80	MTZ100	MTZ125	MTZ160		
Temperature(°C)	-5°C~+20°C									
Refrigerant	R404A									
Power supply	380/3Ph/50Hz									
Condenser	Fan Qty	1	2	2	2	2	2	4		
	Fan Voltag(V)	380V/50Hz								
	Fan Cap.(W)	150	200	300	400	400	400	500	800	
Capacity & input	Eavp-15°C	Cap(W)	1846	2693	3419	4563	6010	6959	9057	12014
		Input(KW)	1.53	2.1	3.0	3.66	4.73	5.53	6.86	9.04
	Eavp-20°C	Cap(W)	1250	1934	2445	3204	4252	4932	6616	8872
		Input(KW)	1.3	1.8	2.61	3.21	4.17	4.8	6.0	7.96
Eavp-25°C	Cap(W)	759	1300	1676	2076	2772	3242	4660	6275	
	Input(KW)	1.05	1.5	2.3	2.8	3.7	4.0	5.2	6.8	
Pipe	Suction dia (mm)	12	16	22	22	28	28	28	28	
	Liquid dia (mm)	10	10	12	12	16	16	16	16	
Overall dimension	A(mm)	680	680	960	1060	1300	1300	1300	1300	
	B(mm)	610	610	680	680	750	800	850	850	
	C(mm)	520	520	520	670	670	770	970	1420	

Cooling capacity under standard condensing temp. at 45°C

# BITZER® CD SERIES CONDENSING UNIT



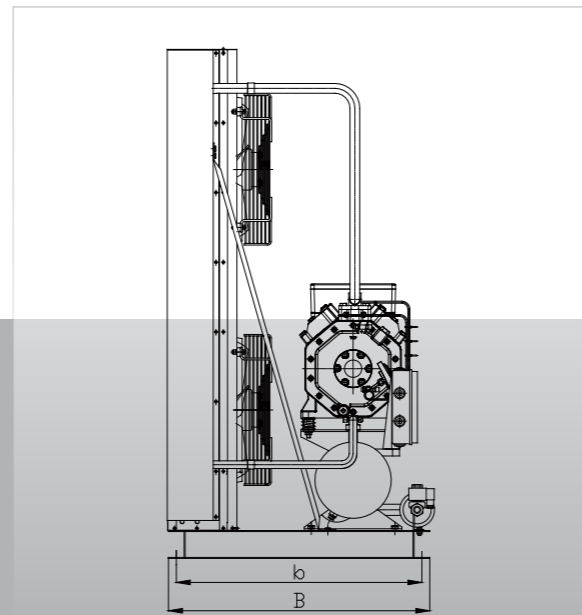
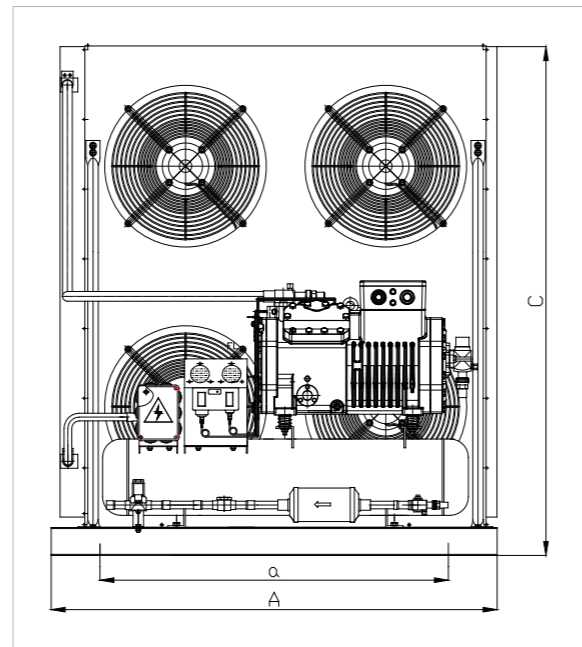
### Nomenclature

CD-18 / 2GES-2Y

- Compressor model
- Condenser model: CD means air-cooled  
FWS means water-cooled

### PRODUCT DESCRIPTION

- Semi-Hermetic Bitzer compressor;
- Copper tube & aluminum fin type heat exchanger
- Or high efficient shell-tube water cooled condenser
- Low noise & high efficient Axial fan motor
- World famous brand refrigeration parts
- Water proof terminal box
- Use for widely application



## AIR COOLED MEDIUM & HIGH TEMPERATURE UNITS

Part No.	CD22/2GES-2Y	CD22/2FES-2Y	CD28/2EES-2Y	CD33/2DES-2Y	CD43/2CES-3Y	CD48/4FES-3Y	
Compressor	2GES-2Y	2FES-2Y	2EES-2Y	2DES-2Y	2CES-3Y	4FES-3Y	
Temperature(°C)	-10°C~+5°C						
Refrigerant	R404A/R507A						
Power supply	380V/3P/50Hz						
Condenser	Fan Qty	1	1	2	2	2	
	Fan Voltag(V)	380	380	380	380	380	
	Fan Cap.(W)	180x1	180x1	140x2	140x2	180x2	
Capacity & input	Eavp-5°C	Cap(W)	4150	5130	6640	7950	10640
		Input(KW)	1.94	2.41	2.79	3.41	4.16
	Eavp-10°C	Cap(W)	3400	4190	5430	6520	8070
		Input(KW)	1.81	2.25	2.56	3.13	3.84
	Eavp-15°C	Cap(W)	2740	3380	4380	5270	6550
		Input(KW)	1.66	2.06	2.31	2.84	3.50
Pipe	Suction dia (mm)	16	16	22	22	22	
	Liquid dia (mm)	10	10	12	12	12	
Overall dimension	A(mm)	620	620	960	960	1300	
	B(mm)	650	650	680	680	750	
	C(mm)	560	560	460	510	670	
Mounting Size (AxB)(mm)	1260x410	580x350	920x380	920x380	1020x380	1260x410	

Part No.	CD55/2EES-4Y	CD70A/2DES-5Y	CD80A/4CES-6Y	CD100/4TES-9Y	CD130/4PES-12Y	CD150/4NES-14Y	
Compressor	2EES-4Y	4DES-5Y	4DES-6Y	4TES-9Y	4PES-12Y	4NES-14Y	
Temperature(°C)	-10°C~+5°C						
Refrigerant	R404A/R507A						
Power supply	380V/3P/50Hz						
Condenser	Fan Qty	2	2	2	4	4	
	Fan Voltag(V)	380	380	380	380	380	
	Fan Cap.(W)	180x2	250x2	250x2	180x4	180x4	
Capacity & input	Eavp-5°C	Cap(W)	13530	16170	19600	24700	28300
		Input(KW)	5.76	6.80	8.13	10.18	11.29
	Eavp-10°C	Cap(W)	11070	13220	15990	20100	22800
		Input(KW)	5.34	6.30	7.51	9.28	10.27
	Eavp-15°C	Cap(W)	8960	10700	12890	16090	18130
		Input(KW)	4.87	5.75	6.82	8.32	9.17
Pipe	Suction dia (mm)	28	28	28	35	42	
	Liquid dia (mm)	12	16	16	16	22	
Overall dimension	A(mm)	1300	1300	1280	1280	13500	
	B(mm)	750	750	710	710	800	
	C(mm)	770	870	910	1210	1460	
Mounting Size (AxB)(mm)	1260x410	1260x410	1000x665	1000x665	1000x705	1000x755	

Remark: 1)Condensing temp.45°C; 2)Condenser will be separately installed for condensing units.>18Hp

Part No.	CDV180/4HE-18Y	CDV219/4GE-23Y	CDV270/6HE-28Y	CDV328/6GE-34Y	CDV383/6EF-44Y	
Compressor	4HE-18Y	4GE-23Y	6HE-28Y	6GE-34Y	6EF-44Y	
Temperature(°C)	-10°C~+5°C					
Refrigerant	R404A/R507A					
Power supply	380V/3P/50Hz					
Condenser	Fan Qty	2	2	3	3	
	Fan Voltag(V)	380	380	380	380	
	Fan Cap.(W)	800x2	800x2	800x3	800x3	
Capacity & input	Eavp-5°C	Cap(W)	45200	52200	64900	77000
		Input(KW)	18.39	22.0	27.0	32.7
	Eavp-10°C	Cap(W)	37100	43000	52100	63800
		Input(KW)	16.89	20.1	24.9	30.1
	Eavp-15°C	Cap(W)	30100	35100	41200	52300
		Input(KW)	15.3	18.21	22.6	27.4
Pipe	Suction dia (mm)	42	54	54	54	
	Liquid dia (mm)	22	22	28	28	
Overall dimension	A(mm)	1150	1150	1050	1050	
	B(mm)	570	570	600	600	
	C(mm)	860	852	910	910	
Mounting Size (AxB)(mm)	800x525	800x525	800x525	800x555	1000x600	
Condenser Size	A(mm)	1840	1840	2640	2640	
	B(mm)	980	950	1030	1030	
	C(mm)	1100	1100	1100	1100	

Remark: 1)Condensing temp.45°C; 2)Condenser will be separately installed for condensing units.>18Hp



# AIR COOLED LOW TEMPERATURE UNITS

Part No.	CD15/2FES-2Y	CD18/2EES-2Y	CD22/2DES-2Y	CD28/2CES-3Y	CD33/4FES-3Y	CD36/4EES-4Y	
Compressor	2FES-2Y	2EES-2Y	2DES-2Y	2CES-3Y	4FES-3Y	4EES-4Y	
Temperature(°C)	-15°C~-30°C						
Refrigerant	R404A/R507A						
Power supply	380V/3P/50Hz						
Condenser	Fan Qty	1	1	1	2	2	
	Fan Voltag(V)	380	380	380	380	380	
	Fan Cap.(W)	140	180	180	140x2	140x2	
Capacity & input	Eavp-25°C	Cap(W)	1820	2370	2870	3630	3890
		Input(KW)	1.64	1.75	2.21	2.76	3.06
	Eavp-30°C	Cap(W)	1330	1720	2110	2690	2910
		Input(KW)	1.42	1.53	1.89	2.39	2.66
	Eavp-35°C	Cap(W)	920	1200	1480	1920	2130
		Input(KW)	1.19	1.26	1.58	2.03	2.26
Eavp-40°C	Cap(W)	590	770	980	1300	1500	
	Input(KW)	0.97	1.01	1.27	1.67	1.88	
Pipe	Suction dia (mm)	16	22	22	22	22	
	Liquid dia (mm)	10	10	12	12	12	
Overall dimension	A(mm)	620	620	620	960	960	
	B(mm)	650	650	650	680	680	
	C(mm)	510	560	560	460	510	
Mounting Size (AxB)(mm)	580x350	580x350	580x350	920x380	920x380	1020x380	

Part No.	CD43/4DES-5Y	CD48/4CES-6Y	CD70A/4TES-9Y	CD80A/4PES-12Y	CD100/4NES-14Y		
Compressor	4DES-5Y	4CES-6Y	4TES-9Y	4PES-12Y	4NES-14Y		
Temperature(°C)	-15°C~-30°C						
Refrigerant	R404A/R507A						
Power supply	380V/3P/50Hz						
Condenser	Fan Qty	2	2	2	4		
	Fan Voltag(V)	380	380	380	380		
	Fan Cap.(W)	180x2	180x2	250x2	250x2	180x4	
Capacity & input	Eavp-25°C	Cap(W)	5900	7040	8620	9500	
		Input(KW)	4.55	5.36	6.35	6.88	8.58
	Eavp-30°C	Cap(W)	4400	5220	6310	6830	8550
		Input(KW)	3.94	4.61	5.38	5.74	7.24
	Eavp-35°C	Cap(W)	3200	3760	4460	4710	6030
		Input(KW)	3.34	3.89	4.46	4.64	5.94
Eavp-40°C	Cap(W)	2250	2610	3000	3060	4060	
	Input(KW)	2.76	3.2	3.61	3.62	4.72	
Pipe	Suction dia (mm)	28	28	35	35	35	
	Liquid dia (mm)	12	12	16	16	22	
Overall dimension	A(mm)	1060	1300	1280	1280	1280	
	B(mm)	680	750	710	710	750	
	C(mm)	720	670	910	910	1210	
Mounting Size (AxB)(mm)	800x525	1020x380	1260x410	1000x665	1000x665		

Part No.	CD130/4HE-18Y	CD150/4GE-23Y	CD180/6HE-28Y	CDV180/6GE-34Y	CDV219A/6FE-44Y	
Compressor	4HE-18Y	4GE-23Y	6HE-28Y	6GE-34Y	6FE-44Y	
Temperature(°C)	-15°C~-30°C					
Refrigerant	R404A/R507A					
Power supply	380V/3P/50Hz					
Condenser	Fan Qty	4	4	2	2	
	Fan Voltag(V)	380	380	380	380	
	Fan Cap.(W)	180x4	180x4	180x4	800x2	800x2
Capacity & input	Eavp-25°C	Cap(W)	16690	19670	24600	29700
		Input(KW)	12.0	14.27	17.69	21.8
	Eavp-30°C	Cap(W)	12450	14820	18340	22600
		Input(KW)	10.35	12.33	15.2	18.95
	Eavp-35°C	Cap(W)	9000	10870	13260	16680
		Input(KW)	8.75	10.46	12.75	16.19
Eavp-40°C	Cap(W)	6220	7690	9170	11910	
	Input(KW)	7.23	9.71	10.4	13.56	
Pipe	Suction dia (mm)	42	54	54	54	
	Liquid dia (mm)	22	22	22	22	
Overall dimension	A(mm)	1280	1350	1350	1150	
	B(mm)	800	850	850	570	
	C(mm)	1460	1410	1410	910	
Mounting Size (AxB)(mm)	800x525	1000x755	1000x805	1000x805	800x525	
Condenser Size	A(mm)	--	--	--	1840	
	B(mm)	--	--	--	980	
	C(mm)	--	--	--	1100	

Remark: 1)Condensing temp.45°C; 2)Condenser will be separately installed for condensing units.>18Hp

# COPELAND® CD SERIES CONDENSING UNIT

## Nomenclature

CD25 / ZB26KQ



## PRODUCT DESCRIPTION

- Copeland scroll Compressor
- Copper tube & aluminum fin type heat exchanger
- Low noise & high efficient Axial fan motor
- World famous brand refrigeration parts
- Use for widely application



## Medium & High Temperatre Unit

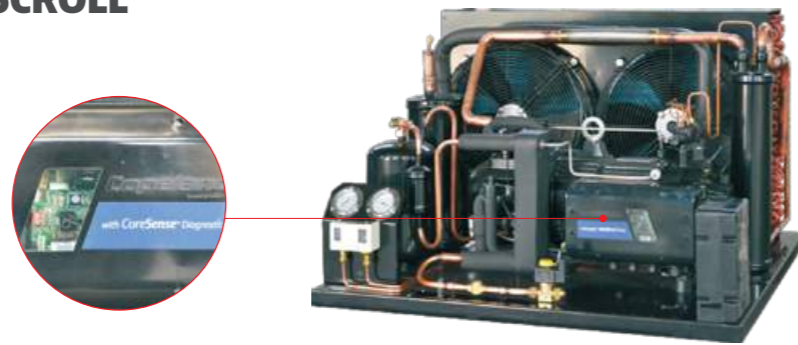
Part No.	CD15/ZB15KQ	CD18/ZB19KQ	CD22/ZB21KQ	CD25/ZB26KQ	CD33/ZB29KQ	CD43/ZB38KQ	CD48/ZB45KQ	CD55/ZB48KQ
Temperature(°C)	-5°C~+5°C							
Refrigerant	R22							
Power supply	380/3P/50Hz							
Condenser	Fan Qty	1	1	1	1	2	2	2
	Fan Voltag(V)	380	380	380	380	380	380	380
	Fan Cap.(W)	1x350	1x400	1x400	1x400	2x400	2x400	2x400
Capacity & input	Eavp-5°C	Cap(W)	3750	4600	5450	6410	7370	8690
		Input(KW)	1840	2170	2500	2840	3190	3900
	Eavp-7°C	Cap(W)	3450	4240	5040	5850	6670	7930
		Input(KW)	1850	2170	2490	2860	3160	3900
	Eavp-10°C	Cap(W)	3040	3740	4450	5210	5970	6880
		Input(KW)	1870	2170	2480	2860	3160	3890
Pipe	Suction dia (mm)	19	19	19	19	19	22	
	Liquid dia (mm)	12	12	12	12	12	12	
Overall dimension	L(mm)	780	780	780	880	1010	1120	
	W(mm)	700	730	730	780	780	780	
	H(mm)	750	780	780	800	720	880	

Part No.	CD15/ZB15KQE	CD18/ZB19KQE	CD22/ZB21KQE	CD25/ZB26KQE	CD33/ZB29KQE	CD43/ZB38KQE	CD48/ZB45KQE	CD55/ZB48KQE
Temperature(°C)	-20°C~-10°C							
Refrigerant	R404A							
Power supply	380/3P/50Hz							
Condenser	Fan Qty	1	1	1	1	2	2	
	Fan Voltag(V)	380	380	380	380	380	380	
	Fan Cap.(W)	1x350	1x400	1x400	1x400	2x350	2x400	
Capacity & input	Eavp-15°C	Cap(W)	2080	2640	3350	3640	4500	
		Input(KW)	2180	2330	2830	3380	3790	
	Eavp-20°C	Cap(W)	1560	2030	2650	3140	3550	
		Input(KW)	2260	2330	2070	3380	3810	
	Eavp-25°C	Cap(W)	1080	1510	2830	2640	2770	
		Input(KW)	2320	2330	19	3380	3820	
Pipe	Suction dia (mm)	19	19	12	19	19		
	Liquid dia (mm)	12	12	780	12	12		
Overall dimension	L(mm)	780	780	730	880	1010		
	W(mm)	700	730	780	780	780		
	H(mm)	750	780	780	800	720		

## COPELAND® SEMI HERMETIC SCROLL CONDENSING UNIT

### PRODUCT DESCRIPTION

- Super-Silent operation
- Running with no Vibration basically
- High efficient of low temperature



### Low Temperature Condensing Unit

Part No.	CD63/QF115AE	CD70/QF123AE	CD800/QF145AE	CD88/QF175AE	CD100/QF185AE	CD130/QF205AE
Compressor	QF115AE	QF215AE	QF145AE	QF175AE	QF185AE	QF205AE
Compressor nominal capacity	7.5HP	8.2HP	9HP	10HP	11.7HP	13.7HP
Refrigerant	R404A					
Condenser fan	2x 400	4x 350	4x 350	4x 350	4x 400	4x 400
Cooling Capacity	Evap-7°C Capacity(W)	14.8	16.8	18.7	22.8	23.2
	Evap-12°C Capacity(W)	12.5	14.3	15.9	19.2	19.8
	Evap-25°C Capacity(W)	8.2	9.4	10.2	11.1	12.4
	Evap-32°C Capacity(W)	6.1	7	7.8	8.1	9.3
Pipe	Liquid pipe(mm)	25	25	25	25	25
	Suction pipe(mm)	28	28	28	28	28
Overall Dimensions	L(mm)	1200	1370	1370	1200	1370
	W(mm)	1000	1000	1000	1000	1100
	H(mm)	850	1050	1150	1250	1350

## COPELAND® HERMETIC SCROLL CONDENSING UNIT

### PRODUCT DESCRIPTION

- Copeland scroll compressor;
- Copper tube & aluminum fin type heat exchanger;
- Low noise & high efficient Axial fan motor;
- World famous brand refrigeration parts;
- Use for widely application;



### Medium & High Temperature Condensing Unit

Part No.	SRG08MTY	SRG10MTY	SRG13MTY	SRG15MTY
Temperature(°C)	+10°C~-5°C			
Refrigerant	R404A			
Power supply	308V/50Hz			
Compressor	ZB58KQE	ZB76KQE	ZB95KQE	ZB114KQE
Condenser	Qty of fan	1	2	2
	Air Volume (m³/h)	1x8720	2x6570	2x6570
	Power of Fan (w)	1x600	2x450	2x450
Capacity & input	Evap+5°C	Cap(W)	19950	28300
		Input(KW)	7.67	9.55
	Evap-5°C	Cap(W)	14650	20700
		Input(KW)	7.06	8.84
	Evap-12°C	Cap(W)	11400	16150
		Input(KW)	6.69	8.41
Pipe	Suction dia (mm)	1/2"	5/8"	
	Liquid dia (mm)	1-1/8"	1-3/8"	
Overall dimension	L(mm)	850	1330	
	W(mm)	770	900	
	H(mm)	1000	900	

## DANFOSS® SRD SERIES CONDENSING UNIT



### Nomenclature

- SR D - 02 M Y
- Y: Refrigerant: Y for R404A, empty for R22
  - H: High temperature unit (10°C~0°C)
  - M: Middle temperature unit(0°C~15°C)
  - J: Low temperature unit(-15°C~35°C)
  - 02: Compressor nominal capacity: (HP)
  - D: Compressor: danfoss scroll compressor
  - SR: Series code



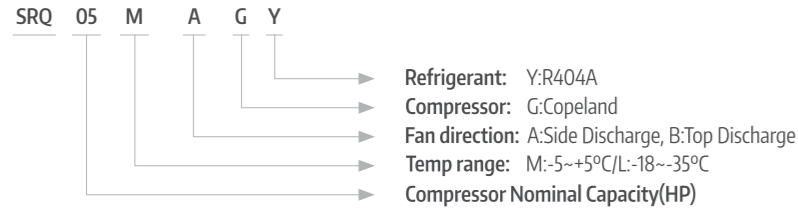
Part No.	Compressor Model	Refrigerant	Amb Temp (°C)	Capacity(watt)								
				Evaporating temperature (°C)								
				-25	-20	-15	-10	-5	0	5	7.2	10
SRD-02M	MLM015T4	R22	32	--	--	2779	3430	4038	4704	5416	5767	6213
			38	--	--	3222	3836	4410	5131	5466	5891	
			43	--	--	--	3635	4116	4846	5164	5569	
SRD-02MY	MLZ015T4	R404A	32	1905	2352	2876	3549	4178	4865	5743	5964	6430
			38	1515	2033	2623	3270	3894	4475	5207	5548	5979
			43	--	1750	2207	2702	3525	3992	4701	5008	5401
SRD-03M	MLM021T4	R22	32	--	--	4062	4828	5701	6665	7709	8214	8858
			38	--	--	4469	5398	6323	7328	7799	8447	
			43	--	--	--	5095	5979	6948	7383	7987	
SRD-03MY	MLZ021T4	R404A	32	3020	3593	4402	5192	6093	7087	8166	8689	9355
			38	3684	3265	3959	4783	5576	6463	7532	8009	8617
			43	--	2728	3491	4293	5095	5857	6798	7220	7757
SRD-04M	MLM030T4	R22	32	--	--	5826	7067	8430	9946	11498	12210	13117
			38	--	--	6651	7976	9407	10927	11627	12519	
			43	--	--	--	7521	8868	10357	11045	11920	
SRD-04MY	MLZ030T4	R404A	32	4417	5281	6030	7314	8725	10293	11899	12637	13575
			38	3798	4682	5666	6751	8095	9350	10794	11801	12706
			43	--	4350	5238	6132	7296	8502	9947	10714	11562
SRD-05M	MLM038T4	R22	32	--	--	6545	8118	9896	11759	13540	14347	15373
			38	--	--	7503	9292	10973	12923	13478	14438	
			43	--	--	--	8787	10286	12206	12907	13801	
SRD-05MY	MLZ038T4	R404A	32	5216	6200	7278	8905	10542	1270	14014	14849	15910
			38	4626	5600	6745	8115	9632	11338	13116	13881	14855
			43	--	5117	6200	7475	8715	10265	11936	12615	13482
SRD-06M	MLM045T4	R22	32	--	--	7849	9660	1161	13865	16201	17233	18548
			38	--	--	9032	11003	13033	15298	16303	17582	
			43	--	--	--	10443	12199	14495	15372	16615	
SRD-06MY	MLZ045T4	R404A	32	6176	7325	8859	10571	12465	14251	16866	17935	19295
			38	5697	6836	8131	9658	11265	13228	15527	16547	17845
			43	--	6206	7537	8717	10238	11932	14062	15009	16215

Note: Rated condition: 50Hz, Suction temperature: 20°C, The liquid is supercooled.



# COPELAND® SRQ SERIES CONDENSING UNIT

## Nomenclature



### PRODUCT DESCRIPTION

Copeland scroll compressor and electrical control inside;  
 All kinds of cold room control is available base on customer's requirement;  
 Condenser fan speed regulator(optional);  
 Real-time operating parameter shown in the control panel (optional)  
 With system alarm function (optional);

## Medium & High Temperature Condensing Unit (Refrigerant R404A)

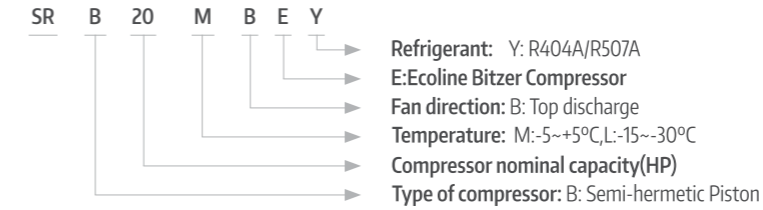
Part No.	SRQ02 MAGY	SRQ03 MAGY	SRQ04 MAGY	SRQ05 MAGY	SRQ06 MAGY	SRQ07 MAGY	SRQ08 MAGY	SRQ09 MAGY	SRQ10 MAGY	SRQ13 MAGY	SRQ15 MAGY		
Room Temperature(°C)	-15°C~+5°C												
Refrigerant	R404A												
Power supply	380V/3Ph/50Hz												
Compressor model	ZBK15QE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	ZB48KQE	ZB58KQE	ZB66KQE	ZB76KQE	ZB95KQE	ZB114KQE		
Fan Qty	1	1	1	2	2	2	1	1	1	2	2		
Fan Voltage(V)	220	220	220	220	220	220	380	380	380	380	380		
Fan Input(W)	120	120	120	120x2	120x2	120x2	550	550	550	460x2	460x2		
Capacity & input Pipe	Eavp-5°C	Cap(W)	3820	5740	7840	9720	11450	13270	15250	17150	20300	25000	29700
		Input(KW)	1760	2500	3320	4200	4790	5243	6320	7090	8200	10500	12650
	Eavp-10°C	Cap(W)	3070	4680	6370	7910	9310	11047	12350	14000	16600	20000	24000
		Input(KW)	1820	2510	3350	4200	4810	5265	6310	7080	8200	10500	12600
	Eavp-15°C	Cap(W)	2430	3780	5120	6380	7510	9114	9750	11300	13350	16000	18900
		Input(KW)	1880	2520	3370	4200	4820	5277	6310	7060	8100	10500	12650
Eavp-20°C	Cap(W)	1860	3010	4070	5090	6000	7442	7420	8990	10550	12200	14300	
	Input(KW)	1930	2520	3390	4190	4810	5280	6310	7030	8000	10600	12800	
Eavp-25°C	Cap(W)	1370	2370	3200	4010	4730	5200	5250	6950	8110	9000	10300	
	Input(KW)	1980	2520	3390	4180	4790	5900	6310	28	7930	10750	13100	
Pipe	Gas dia (mm)	19	19	19	19	19	19	28	16	28	28	28	
	Liquid dia (mm)	10	10	12	12	12	12	16	967	16	16	16	
Overall	L(mm)	1020	1020	1020	1020	1020	1020	967	825	967	1354	1354	
	W(mm)	420	420	420	420	420	420	825	1035	825	825	825	
	H(mm)	840	840	840	1240	1240	1240	1035	570x785	1035	1025	1025	
	Instal sizes (AxB)(mm)	580x380	580x380	580x380	580x380	580x380	580x380	570x785	580x380	570x785	900x785	900x785	

Remark: 1) Cooling capacity at condensing Temp. 45C  
 2) 220V/50Hz power is available for 2HP~4HP units.  
 3) The matched evaporators for these units should be equipped with 220V single phase fan motor.

# BITZER® SRB SERIES CONDENSING UNIT (V TYPE CONDENSER)



## Nomenclature



### PRODUCT DESCRIPTION

Widely application for all kinds of coldroom  
 System with alarm function  
 V type copper tube & aluminum fin heat exchanger  
 Low noise & high efficient axial fan motor  
 Condenser fan speed could be adjusted according to condensing temperature  
 Real-time system data could be recognized from the control panel screen  
 Including main control & temperature control

## Medium & High Temperature Condensing Unit

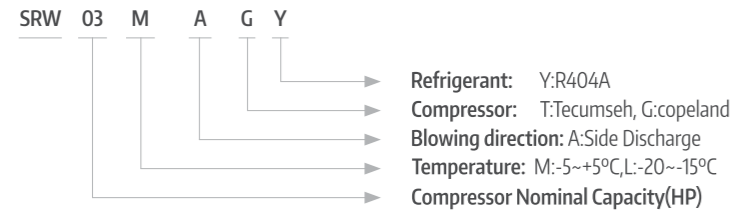
Part No.	SRB20MBEY	SRB25MBEY	SRB30MBEY	SRB35MBEY	SRB40MBEY	SRB50MBEY		
Temperature(°C)	+10°C~-10°C							
Refrigerant	R404A							
Power supply	380V/50Hz							
Compressor model	4NE-20Y	4HE-25Y	4GE-30Y	6HE-35Y	6GE-40Y	6FE-50Y		
Condenser	Qty of fan	2	2	2	3	3		
	Air Voltag (m³/h)	2x12200	2x15000	2x19000	3x13200	3x15000	3x19000	
	Power of Fan (W)	2x800	2x750	2x1100	3x550	3x750	3x1100	
Capacity & input	Eavp-0°C	Capacity(W)	41600	60900	65900	81600	85000	100300
		Input(KW)	18.05	22.3	26.9	34.4	38.6	45.4
	Eavp-20°C	Capacity(W)	36000	52200	57900	70800	76400	82280
		Input(KW)	15.85	20.6	25	31.8	38.3	42.4
Eavp-25°C	Capacity(W)	21700	30300	36100	43150	48200	41650	
	Input(KW)	12.15	15.85	18.85	25.2	27.5	31.4	
Pipe	Suction dia (mm)	3/4"	3/4"	3/4"	7/8"	7/8"	1-1/8"	
	Liquid dia (mm)	1-5/8"	2-1/8"	2-1/8"	2-1/8"	2-1/8"	2-5/8"	
Overall dimension	L(mm)	1750	1900	22500	2650	2950	3400	
	W(mm)	1000	1175	1175	1175	1175	1175	
	H(mm)	1900	1980	1980	1980	1980	1980	

## Low Temperature Condensing Unit

Part No.	SRB18LBEY	SRB23LBEY	SRB28LBEY	SRB34LBEY	SRB40MBEY		
Temperature(°C)	-10°C~-25°C						
Refrigerant	R404A						
Power supply	380V/50Hz						
Compressor model	4HE-18Y	4GE-23Y	6HE-28Y	6GE-34Y	6FE-44Y		
Condenser	Qty of fan	2	2	2	2		
	Air Voltag (m³/h)	2x8720	2x10820	2x10820	2x15000	2x19000	
	Power of Fan (W)	25300	2x780	2x780	2x750	2x1100	
Capacity & input	Eavp-0°C	Capacity(W)	16.7	28800	31600	41500	46300
		Input(KW)	13250	19.8	25.4	23.6	27.7
	Eavp-20°C	Capacity(W)	9.56	17200	22400	27000	30400
		Input(KW)	10350	12.8	14.05	18.5	21.2
Eavp-25°C	Capacity(W)	8.4	13600	18100	20900	23400	
	Input(KW)	5/8"	11.05	16.2	16.15	18.15	
Pipe	Suction dia (mm)	1-5/8"	3/4"	3/4"	7/8"	7/8"	
	Liquid dia (mm)	1430	2-1/8"	2-1/8"	2-1/8"	2-5/8"	
Overall dimension	L(mm)	1000	1470	1700	1900	2250	
	W(mm)	1080	1000	1000	1175	1175	
	H(mm)	1900	1180	1780	1980	1980	

# SRW SERIES CONDENSING UNIT

## Nomenclature



### PRODUCT DESCRIPTION

- Copeland or Tecumseh compressor inside;
- Danfoss pressure control, solenoid valve, filter drier, sight glass;
- Electric control box included, all parts inside use Schneider;
- Compact housing construction for easy installation;
- High efficient and low noise 6-pole condenser fan motor;
- Multi protection functions are available.

Electric control box included, all parts inside use Schneider.



## Copeland ZB Scroll Condensing Unit

Part No.	SRW02MAGY	SRW03MAGY	SRW04MAGY	SRW05MAGY	SRW06MAGY	SRW07MAGY	SRW08MAGY	
Room Temperature(°C)	+5°C~-15°C							
Refrigerant	R404A							
Power supply	380V/50Hz							
Comp	Scroll compressor							
	Type	ZB15KQE	ZB21KQE	ZB29KQE	ZB38KQE	ZB45KQE	ZB48KQE	
	Max current (A)	6.0	8.0	11.0	12.5	16.1	17.0	
Con fan	Fan number	1	1	2	2	2	2	
	Fan flow(m³/h)	3200	4600	6400	9200	9200	10580	
	Fan power(W)	100	160	100x2	160x2	160x2	230x2	
Capacity & Input Power	Eavp-0°C	Cap(W)	4760	7000	9480	11950	14000	15300
		Input(KW)	1720	2480	3300	4150	4700	5170
	Eavp-5°C	Cap(W)	3820	5740	7800	9830	11500	12550
		Input(KW)	1760	2500	3300	4200	4730	5210
	Eavp-10°C	Cap(W)	3080	4680	6360	8000	9380	10200
		Input(KW)	1820	2510	3330	4200	4750	5230
	Eavp-15°C	Cap(W)	2430	3780	5130	6480	7580	8180
		Input(KW)	1880	2510	3330	4210	4760	5240
	Eavp-20°C	Cap(W)	1870	3020	4100	5170	6050	6500
		Input(KW)	1930	2520	3340	4210	4770SAE	5240
	Pipe	Gas dia (inch)	3/4SAE	3/4SAE	7/8SAE	7/8SAE	7/8SAE	7/8ODF
		Liquid dia (inch)	3/8SAE	3/8SAE	1/2SAE	1/2SAE	1/2	5/8ODF

Cooling capacity at condensing temp 45°C

## Copeland ZSI Scroll Low Temperature Condensing Unit

Part No.	SRW02LAGY	SRW03LAGY	SRW04LAGY	SRW05LAGY	SRW06LAGY	SRW07LAGY		
Room Temperature	-18°C~-20°C							
Refrigerant	R404A							
Power supply	380V/3 Phase/50Hz							
Comp	Scroll compressor							
	Type	ZSI06KQE	ZSI09KQE	ZSI11KQE	ZSI15KQE	ZSI18KQE	ZSI21KQE	
	Max current (A)	5.7	6.7	7.5	11.9	13.7	14.6	
Con fan	Fan number	1	1	1	2	2	2	
	Fan flow(m³/h)	3200	3200	4600	6400	9200	9200	
	Fan power(W)	100	100	160	100x2	160x2	160x2	
Capacity & Input Power	Eavp-25°C	Cap(W)	2330	3270	4140	5930	7220	8050
		Input(KW)	1760	2260	2640	3580	4430	4890
	Eavp-30°C	Cap(W)	1870	2640	3350	4820	5900	6580
		Input(KW)	1730	2210	2580	3520	4290	4730
	Eavp-35°C	Cap(W)	1500	2070	2620	3780	4770	5340
		Input(KW)	1700	2120	2450	3500	4200	4600
Pipe	Gas dia (inch)	3/4SAE	3/4SAE	3/4SAE	7/8SAE	7/8SAE	7/8SAE	
	Liquid dia (inch)	3/8SAE	3/8SAE	3/8SAE	1/2SAE	1/2SAE	1/2SAE	

Cooling capacity at condensing temp 45°C

## Tecumseh Compressor High Temperature Condensing Unit

Part No.	SRW0.6MATY	SRW01MATY	SRW1.7MATY	SRW02MATY	SRW03MATY		
Room Temperature	-5°C~+5°C						
Refrigerant	R404A						
Power supply	220V/50Hz		380V/50Hz				
Comp	Hermetic compressor						
	Type	CAJ9480Z	CAJ9510Z	CAJ4519Z	CAJ4524Z	CAJ4531Z	
	Max current (A)	6.6	8.0	15.4	6.3	8.2	
Con fan	Fan number	1	1	1	1	1	
	Fan flow(m³/h)	1700	1700	1700	3200	3200	
	Fan power(W)	80	80	80	100	100	
Capacity & Input Power	Eavp0°C	Cap(W)	1874	2310	4070	4830	6143
		Input(KW)	820	980	1850	2090	2610
	Eavp-5°C	Cap(W)	1553	1924	3340	3890	4990
		Input(KW)	760	910	1720	1920	2385
	Eavp-10°C	Cap(W)	1266	1572	2700	3050	3970
		Input(KW)	700	840	1590	1740	2150
Pipe	Gas dia (inch)	1/2SAE	5/8SAE	5/8SAE	5/8SAE	7/8SAE	
	Liquid dia (inch)	3/8SAE	3/8SAE	3/8SAE	3/8SAE	3/8SAE	

condensing temp 45°C

## Tecumseh Compressor High Temperature Condensing Unit

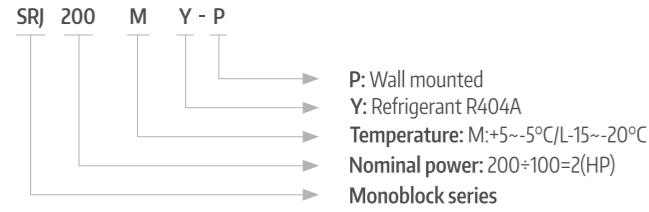
Part No.	SRW01LATY	SRW1.5LATY	SRW02LATY	SRW03LATY		
Room Temperature	-15°C~-20°C					
Refrigerant	R404A					
Power supply	220V/50Hz		380V/50Hz			
Comp	Hermetic compressor					
	Type	CAJ2446Z	CAJ2464Z	CAJ2480Z	CAJ2511Z	
	Max current (A)	7.9	10.0	4.8	5.0	
Con fan	Fan number	1	1	1	1	
	Fan flow(m³/h)	1700	1700	3200	4600	
	Fan power(W)	80	80	100	160	
Capacity & Input Power	Eavp-20°C	Cap(W)	1296	1673	2416	3348
		Input(KW)	950	1250	1837	2312
	Eavp-25°C	Cap(W)	1005	1300	1865	2518
		Input(KW)	837	1100	1585	1960
	Eavp-30°C	Cap(W)	755	990	1347	1817
		Input(KW)	723	955	1326	1635
Pipe	Gas dia (inch)	1/2SAE	5/8SAE	5/8SAE	5/8SAE	
	Liquid dia (inch)	3/8SAE	3/8SAE	3/8SAE	3/8SAE	

Cooling capacity at condensing temp 45°C



# WALL MOUNTED MONO-BLOCK UNIT

## Nomenclature



### PRODUCT DESCRIPTION

- With the compact body Monoblock unit is easy to be installed in the cold room;
- Maneurop compressor, Tecumseh compressor or other famous brand compressor inside;
- Top quality components equipped in the system to make sure the unit runs well all the time;
- Comprehensive protection devices offer the over loading, sub-heating, lack of phase, hi-low pressure protection etc.

## High Temperature Unit

Part No.	SRJ33MY-P	SRJ50MY-P	SRJ63MY-P	SRJ100MY-P	SRJ125MY-P	SRJ175MY-P	SRJ200MY-P	SRJ275MY-P	SRJ350MY-P
Cooling capacity(W)	530	810	1050	1560	2230	2950	3250	4400	5200
Input	0.68	0.85	1.1	1.3	1.75	2.52	2.61	3.33	4.2
Power Supply	220V/1ph/50Hz				380V/3ph/50Hz				
Temp(°C)	-5°C~+5°C								
Cond.fan(W)	1x75	1x75	1x75	1x80	1x80	1x155	1x155	2x80	2x80
Evap.fan(W)	1x75	1x75	1x75	1x80	1x80	1x155	1x155	2x80	2x80
Overall size(mm)	490x1000x730	490x1000x730	490x1000x730	620x1020x765	620x1020x765	800x1020x805	800x1020x805	1090x1020x805	1090x1020x805
Defrosting	Electric defrosting								
Throttle type	Expansion valve								
Refrigerant	R404A								

## Low Temperature Unit

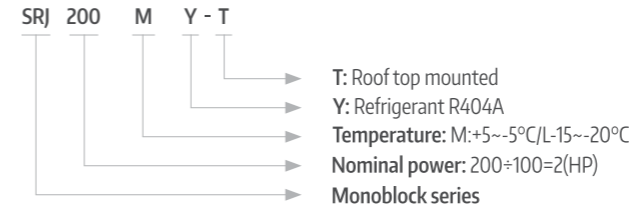
Part No.	SRJ50LY-P	SRJ63LY-P	SRJ100LY-P	SRJ150LY-P	SRJ200LY-P	SRJ300LY-P	SRJ400LY-P
Cooling capacity(W)	550	660	750	1050	1580	2060	3100
Input	0.63	0.71	1.04	1.35	2.01	2.63	3.26
Power Supply	220V/1ph/50Hz				380V/50Hz		
Temp(°C)	-18°C~-20°C						
Cond.fan(W)	1x75	1x75	1x80	1x80	1x155	1x155	2x80
Evap.fan(W)	1x75	1x75	1x80	1x80	1x155	1x155	2x80
Overall size(mm)	490x1050x730	490x1050x730	620x1070x765	620x1070x765	800x1070x805	800x1070x805	1090x1070x805
Defrosting	Electric defrosting						
Throttle type	Expansion valve						
Refrigerant	R404A						

### Remarks:

SRJ\*\*MY-P--Testing Evaporating temp: -7°C, Condensing temp: 45°C  
 SRJ\*\*LY-P--Evaporating temp: -25°C, Condensing temp: 45°C

# ROOF TOP MONO-BLOCK UNIT

## Nomenclature



### PRODUCT DESCRIPTION

Monoblock Unit is a completed refrigeration system which integrated Evaporator, Condenser, Compressor, and Electrical Control into a compact body. It was widely where the small cold room with the request room temperature +5~-5°C, and -15~-20°C was needed.

## High Temperature Unit

Part No.	SRJ50MY-T	SRJ63MY-T	SRJ100MY-T	SRJ125MY-T	SRJ175MY-T	SRJ275MY-T	SRJ350MY-T
Cooling capacity(W)	810	1050	1560	2230	2950	4400	5200
Input(KW)	0.85	1.1	1.3	1.75	2.52	3.33	4.2
Power Supply	220V/1ph/50Hz				380V/50Hz		
Temp(°C)	0°C~+5°C						
Cond.fan(W)	1x75	1x75	1x80	1x80	1x80	2x80	2x80
Evap.fan(W)	1x75	1x75	1x80	1x80	1x80	2x80	2x80
Overall size(mm)	580x1031x371	580x1031x371	760x1251x471	760x1251x471	760x1251x471	1140x1251x471	1140x1251x471
Defrost type	Hot gas						
Throttle type	Expansion valve						
Refrigerant	R404A						

## Low Temperature Unit

Part No.	SRJ50LY-T	SRJ63LY-T	SRJ100LY-T	SRJ150LY-T	SRJ200LY-T	SRJ300LY-T
Cooling capacity(W)	550	660	750	1050	1580	2060
Input(KW)	0.63	0.71	1.04	1.35	2.01	2.63
Power Supply	220V/1ph/50Hz			380V/50Hz		
Temp(°C)	-18°C~-20°C					
Cond.fan(W)	1x75	1x75	1x80	1x80	1x80	2x80
Evap.fan(W)	1x75	1x75	1x80	1x80	1x80	2x80
Overall size(mm)	580x1031x371	580x1031x371	760x1251x471	760x1251x471	760x1251x471	1140x1251x471
Defrost type	Hot gas					
Throttle type	Expansion valve					
Refrigerant	R404A					

### Remarks:

SRJ\*\*MY-P--Testing Evaporating temp: -7°C, Condensing temp: 45°C  
 SRJ\*\*LY-P--Evaporating temp: -25°C, Condensing temp: 45°C

# ICE FLAKE MACHINE



### PRODUCT DESCRIPTION

- Energy-efficient Micro-Channel condenser
- Flake ice temperature: -5~-8°C
- Flake ice clean & dry, ensure effect of food preservation
- Bitzer Compressor
- Flake ice thickness: 1.8~2.5mm
- Use for widely application

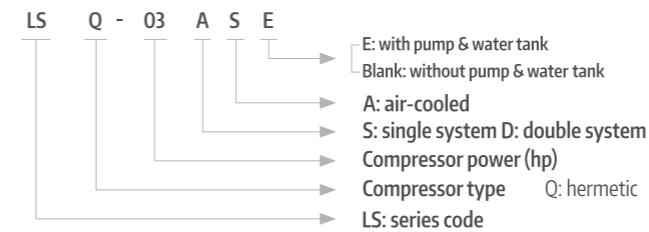
Part No.	GM-035K	GM-04K	GM-05K	GM-06K	GM-08K	GM-10K
Temperature	-20°C					
Refrigerant	R404A/R507A					
Power supply	380V/3P/50Hz					
Condenser	Air-cooled					
Ice cap.(kg/day)	350	400	500	600	800	1000
Storage cap.(kg)	200	300	300	300	300	300
Cooling cap.(kcal/h)	1961	2241	2801	3362	4482	5603
Power(kw)	2.4	2.4	2.4	2.9	3.4	4.0
Unit size(mm)	L (mm)	1142	1225	1225	1225	1225
	W (mm)	740	740	740	740	740
	H (mm)	724	724	724	724	724
Ice storage size(mm)	L (mm)	1050	1135	1135	1135	1135
	W (mm)	970	1030	1030	1030	1030
	H (mm)	900	1050	1050	1050	1050
Net weight(kg)	170	190	190	191	193	197

Part No.	GM-12K	GM-15K	GM-20K	GM-25K	GM-30K	
Temperature	-20°C					
Refrigerant	R404A/R507A					
Power supply	380V/3P/50Hz					
Condenser	Air-cooled					
Ice cap.(kg/day)	1200	1500	2000	2500	3000	
Storage cap.(kg)	400	400	500	500	1350	
Cooling cap.(kcal/h)	6724	8405	11206	13541	16810	
Power(kw)	4.8	6.2	7.7	8.8	11.2	
Unit size(mm)	L (mm)	1411	1410	1604	1610	1500
	W (mm)	980	980	1100	1100	1150
	H (mm)	920	946	1016	1246	1246
Ice storage size(mm)	L (mm)	1320	1320	1510	1510	1800
	W (mm)	980	980	1100	1100	1500
	H (mm)	1200	1200	1300	1300	1800
Net weight(kg)	302	322	397	491	585	

Standard condition: 1) Ambient temperature @25°C 2) Water temperature @16°C

# AIR-COOLED CHILLER

### Nomenclature



We design and build complete commercial and industrial chiller systems. Our air-cooled chillers are an effective all-in one package that is easy to install and easy to own.

Chillers cost less to purchase and install, and operate quietly and efficiently. We offers a variety of air-cooled chillers for a wide range process cooling applications, you can choose chilled water capacity and water discharge temperature, different refrigerant apply (R22,R404A, R407C, R134A). The chillers are available with or without pump tank.

For more information about our air-cooled chillers, please kindly contact us.



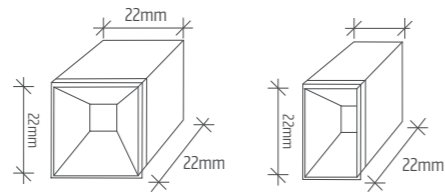
Specification	Part No.	LSQ Series									
		03ASE	05ASE	08ASE	10ASE	12ASE	15ASE	20ASE	25ADE	30ADE	30ADE
Capacity	kw	8.3	13.7	22.1	29.5	34.0	44.1	59.0	68.0	88.2	120
	10³kcal/h	7.1	11.8	19.0	25.4	29.2	37.9	50.7	58.5	75.9	103.2
Power (kw)		3.1	5.0	7.4	9.7	11.9	15.3	19.4	23.7	30.6	40.5
	Electric Current (A)	5.7	9.7	14.3	18.2	22.1	28.8	38.3	47.3	59.6	64.2
Compressor	Qty	1	1	1	1	1	1	2	2	2	2
	Power (kw)	2.55	3.96	6.11	8.06	9.9	12.39	16.1	19.8	24.8	34.10
Refrigerant	Current(A)	4.39	7.69	11.41	14.86	18.25	22.70	29.7	36.5	45.4	49.60
	Type	R22 (Optional: R134a, R404A, R407c)									
Fan	Control mode	Thermal expansion valve									
	Power (kw)	0.2	0.45	0.5	0.9	1.2	1.4	1.7	2.2	3.12	4.2
Pump	Current (A)	0.6	0.9	1.4	1.8	2.3	2.9	5.4	7.6	9.6	10.0
	Type	Centrifugal pump									
Condenser	Power (kw)	0.37	0.55	0.75	0.75	0.75	1.50	1.50	1.50	2.20	2.20
	Current (A)	0.75	1.1	1.5	1.5	1.5	3.2	3.2	3.20	4.6	4.6
Evaporator	Pressure head (mHO)	15	20	22	20	17	25	24	18	22	22
	Type	Copper tube & aluminum fin type heat exchanger									
Water tank	Liquid Pipe (mm)	DN25			DN40			DN50			DN65
	Water flow (L/min)	23.7	39.3	63.4	84.6	97.5	126.4	169.1	194.9	252.8	344.0
Overall size	Volume (L)	65	75	140	140	150	250	325	325	370	400
	Fill, discharge, overflow port	DN20									
Net weight (kg)	L (mm)	1060	1060	1520	1620	1720	1810	2020	2270	2300	2600
	W (mm)	770	770	850	850	900	975	1010	1150	1450	1600
	H (mm)	1340	1450	1550	1600	1600	1730	1950	1990	1750	1850
Net weight (kg)		220	236	320	372	435	610	750	850	950	1050

1. Designed condition: Chilled water in out 12/7°C, ambient temperature: 35C
2. Suitable chilled water temperature: 9~25C;
3. Power supply: 3PH-380V-50Hz, voltage allowance: ±10% voltage dif between the phase: 2%;
4. The date above is for R22, contact us for R134a, R407c and other refrigerant;
5. There may be change for improvement without notice, confirm always before you order.



# ICE MAKER

Widely used in coffee shop, KTV, hotels, bakeries, restaurants, cold drinking shop, fast food shop, laboratories, schools, and other places.



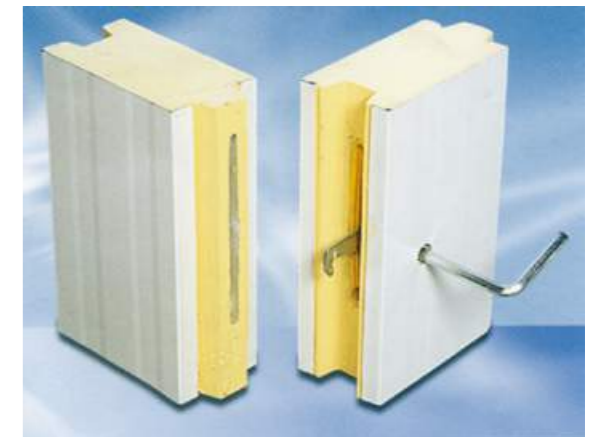
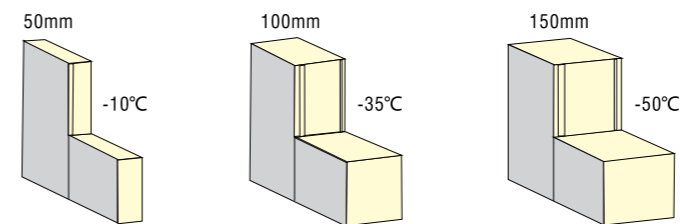
Part No.	Output Per Day	Storage Capacity	Dimensions (mm) (L*W*H)	Power	Condensation Way	Refrigerant
SD-50	23kg	5kg	440*360*450	220V 200W	air cooled	R134A
SD-65	30kg	13kg	430*580*800	220V 320W	air cooled	E22/R134A
SD-80	36kg	36kg	430*580*800	220V 380W	air cooled	R22/R134A
SD-100	45kg	25kg	530*580*830	220V 420W	air/Water cooled	R22/R134A
SD-120	55kg	25kg	530*580*830	220V 450W	air/Water cooled	R22/R134A
SD-150	68kg	25kg	530*580*830	220V 550W	air/Water cooled	R22/R134A
SD-200	90kg	45kg	680*680*980	220V 600W	air/Water cooled	R22/R134A
SD-250	115kg	45kg	680*680*980	220V 650W	air/Water cooled	R22/R134A
SD-330	150kg	50kg	680*680*1010	220V 700W	air/Water cooled	R22/R134A
SD-350	160kg	140kg	560*820*1500	220V 750W	air/Water cooled	R22/R400A
SD-400	181kg	150kg	560*820*1500	220V 850W	air/Water cooled	R22/R404A
SD-500	227kg	160kg	560*820*1740	220V 950W	air/Water cooled	R22/R404A
SD-600	270kg	170kg	560*820*1740	220V 1100W	air/Water cooled	R22/R404A
SD-700	318kg	280kg	560*820*1740	220V 1200W	air/Water cooled	R22/R404A
SD-800	363kg	200kg	560*820*1940	220V 1400W	air/Water cooled	R22/R404A
SD-1000	454kg	220kg	560*820*1940	220V 1600W	air/Water cooled	R22/R404A
SD-550	160kg	250kg	760*820*1700	220V 950W	air/Water cooled	R22/R400A
SD-650	181kg	295kg	760*820*1700	220V 1100W	air/Water cooled	R22/R404A
SD-750	227kg	341kg	760*820*1700	220V 1200W	air/Water cooled	R22/R404A
SD-850	270kg	386kg	760*820*1900	220V 1400W	air/Water cooled	R22/R404A
SD-1050	318kg	477kg	7560*820*1900	220V 1600W	air/Water cooled	R22/R404A
SD-1300	363kg	590kg	760*820*1940	220V 1800W	air/Water cooled	R22/R404A
SD-750 dual-head	680kg	300kg	760*820*2250	220V 2400W	air/Water cooled	R22/R404A
SD-1500	681kg	454kg	1220*930*1820	220V 2400W	air/Water cooled	R22/R404A
SD-2000	910kg	500kg	1220*930*2020	220V 3800W	air/Water cooled	R22/R404A
SD-4000	1820kg	500kg	1220*930*2750	220V 7600W	air/Water cooled	R22/R404A

# 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 panele are probided 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(mm)	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(mm)	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

### Cold Room & Refrigerator LED lights



LED-401

Description
<ul style="list-style-type: none"> <li>• Voltage:220V/110V/36V</li> <li>• Power:8W</li> <li>• Frequency:50Hz/60Hz</li> <li>• Temperature:6000-6500K</li> <li>• Display:more than 70</li> <li>• Light flux:800LM</li> <li>• Protection level:IP68</li> <li>• Used in &lt; 4M height coldroom</li> <li>• Operating temperature:-20° to 40°</li> <li>• Service lifetime:10000 hours</li> </ul>



LED-407

Description
<ul style="list-style-type: none"> <li>• Voltage:220V/110V</li> <li>• Power:20W</li> <li>• Frequency:50Hz/60Hz</li> <li>• Temperature:6000-6500K</li> <li>• Display:above 70</li> <li>• Light flux:2000LM</li> <li>• Protection level:IP68</li> <li>• Used in &lt; 4M height coldroom</li> <li>• Operating temperature:-20° to 40°</li> <li>• Service lifetime:10000 hours</li> </ul>



LED-420

Description
<ul style="list-style-type: none"> <li>• Voltage:220V/110V</li> <li>• Power:36W</li> <li>• Frequency:50Hz/60Hz</li> <li>• Temperature:6000-6500K</li> <li>• Display:above 70</li> <li>• Light flux:3600LM</li> <li>• Protection level:IP65</li> <li>• Used in &lt; 4M height coldroom</li> <li>• Operating temperature:-20° to 40°</li> <li>• Service lifetime:10000 hours</li> </ul>



LED-501

Description
<ul style="list-style-type: none"> <li>• Voltage:220V/36V</li> <li>• Power:15W</li> <li>• Frequency:50Hz</li> <li>• Temperature:6000-6500K</li> <li>• Display:above 70</li> <li>• Light flux:3000LM</li> <li>• Protection level:IP65</li> <li>• Used in &lt; 5M height coldroom</li> <li>• Operating temperature:-20° to 40°</li> <li>• Service lifetime:10000 hours</li> </ul>



LED-601

Description
<ul style="list-style-type: none"> <li>• Voltage:220V/110V</li> <li>• Power:30W</li> <li>• Frequency:50Hz /60Hz</li> <li>• Temperature:6000-6500K</li> <li>• Display:more than 70</li> <li>• Light flux:3000LM</li> <li>• Protection level:IP65</li> <li>• Used in 6M to 8M height coldroom</li> <li>• Operating temperature:-20° to 40°</li> <li>• Service lifetime:10000 hours</li> </ul>



LED-1102

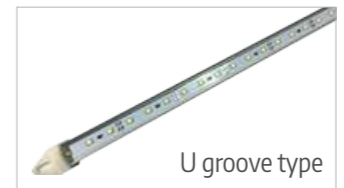
Description
<ul style="list-style-type: none"> <li>• Voltage:220V/110V</li> <li>• Power:100W</li> <li>• Frequency:50Hz</li> <li>• Temperature:6000-6500K</li> <li>• Display:more than 70</li> <li>• Light flux:9000LM</li> <li>• Protection level:IP65</li> <li>• Used in &lt; 8M height coldroom</li> <li>• Operating temperature:-20° to 40°</li> <li>• Service lifetime:10000 hours</li> </ul>



Mini strip type



Triangle strip type



U groove type



U type

\* we can supply different sizes according to your requirements

Mini Type No.	Length(cm)	Power Supply	Luminous Flux	Emitting Color	LED Type	LED Amount	Voltage(v)	Temperature Range
LED-3528-5009	50	2.4	160lm	Cold / Warm White	SMD3528	30 caps	DC12V	-30~60°C
LED-3528-1009	100	4.8	320lm	Cold / Warm White	SMD3528	60 caps	DC12V	-30~60°C
LED-3528-15009	150	7.2	450lm	Cold / Warm White	SMD3528	90 caps	DC12V	-30~60°C

Triangle Type No.	Length(cm)	Power Supply	Luminous Flux	Emitting Color	LED Type	LED Amount	Voltage(v)	Temperature Range
LED-3528-5010	50	2.4	140lm	Cold / Warm White	SMD3528	30 caps	DC12V	-30~60°C
LED-5050-5010	50	7.2	430lm	Cold / Warm White	SMD5050	30 caps	DC12V	-30~60°C
LED-3528-10010	100	4.8	280lm	Cold / Warm White	SMD3528	60 caps	DC12V	-30~60°C
LED-5050-10010	100	14.4	850lm	Cold / Warm White	SMD5050	60 caps	DC12V	-30~60°C
LED-3528-15010	150	7.2	430lm	Cold / Warm White	SMD3528	90 caps	DC12V	-30~60°C
LED-5050-15010	150	21.6	1250lm	Cold / Warm White	SMD5050	90 caps	DC12V	-30~60°C
LED-3528-15009	150	7.2	450lm	Cold / Warm White	SMD3528	90 caps	DC12V	-30~60°C

U Type No.	Length(cm)	Power Supply	Luminous Flux	Emitting Color	LED Type	LED Amount	Voltage(v)	Temperature Range
LED-3528-5011	50	2.4	140lm	Cold / Warm White	SMD3528	30 caps	DC12V	-30~60°C
LED-5050-5011	50	7.2	430lm	Cold / Warm White	SMD5050	30 caps	DC12V	-30~60°C
LED-3528-10011	100	4.8	280lm	Cold / Warm White	SMD3528	60 caps	DC12V	-30~60°C
LED-5050-10011	100	14.4	850lm	Cold / Warm White	SMD5050	60 caps	DC12V	-30~60°C
LED-3528-15011	150	7.2	430lm	Cold / Warm White	SMD3528	90 caps	DC12V	-30~60°C
LED-5050-15011	150	21.6	1250lm	Cold / Warm White	SMD5050	90 caps	DC12V	-30~60°C