USA PARTS

HVAC & REFRIGERATION

AHR

CHICAGO

JAN 25-27 › 2027

PROUDLY DESIGNED IN THE USA

01

COOPPER TUBE & FITTING

QUALITY DELIVERED









ACR Soft Drawn Coil

50ft or 15m Pancake Coil



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

* To be adjusted as per specific requirement.

O.D. (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	15.88	0.89
3/4	0.035	19.05	0.89
7/8	0.045	22.23	1.41

Capillary Tube



3m



30m

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)

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.

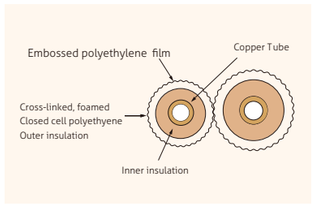
* To be adjusted as per specific requirement.

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	15.88	0.040	1.02	2.46
3/4	19.05	0.042	1.07	3.12
7/8	22.23	0.045	1.14	3.90
1-1/8	28.58	0.050	1.27	5.63
1-3/8	34.93	0.055	1.40	7.62
1-5/8	41.28	0.060	1.52	9.81
2-1/8	53.98	0.070	1.78	15.09
2-5/8	66.68	0.080	2.03	21.31
3-1/8	79.38	0.090	2.29	28.67
3-5/8	92.08	0.100	2.54	36.93
4-1/8	104.78	0.110	2.79	46.21

Polyethylene (PE) Insulated Double Coil

Insulation Technical Data

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



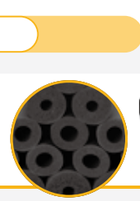


Part No.	Pair Coil Description Copper Tube Outside Diameter x Wall Thickness (mm)	Insulating Thickness (mm)	R-Value	Pair Coils Per Carton	Carton Dimensions (20m)	Carton Dimensions (30m)
FC-1438	6.35x0.80-9.53x0.80	8	0.26	1	57x57x18	67x67x17
FC-1412	6.35x0.80-12.70x0.80	8	0.26	1	61x61x19	69x69x18
FC-1458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

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

Rubber Insulation Tube

20' Load: 124CTNS
40' HQ Load: 311CTNS
Carton Size: 1890*340*400mm





Item		Unit	Performance Index	Iemplemented Standard
Surface Density		kg/m^3	≥60	GB/T6343
Burning Performance		-	meet requirement	GB/T2406
				GB/T8627
			Grade B	GB8624
			meet requirement	B1
Smoke Toxicity		-	ZA3	GB/T20285
Thermal Conductivity	-20°C	w/(m.k)	≤0.031	GT/T10294
	0°C		≤0.033	
	40°C		≤0.037	
Water Vapor Permeability Ivity	Water Vapor Permablity	g/(m.s.Pa)	≤1.96×10^{-11}	GB/T17146
	Moisture Resistance		≥10000	
Water Absorption in Vacuum		%	≤8	GB/T17794
(105°C+3°C, 7d) Dimension stability		%	≤10	GB/T8811
Reboundrate After Compression Comoression Rate 50%, 72h		%	≥70	GB/T16669
Aging Resistance		–	Slightly crumpling, no cracks, no pin holes, not deforming	GB/T16259
Temperature Range		°C	-40~105	GB/T17794

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

Insulation Sheet

L*W	Thickness 3/8" (pcs/ctn)	Thickness 1/ 2" (pcs/ctn)	Thickness 3/4" (pcs/ctn)	Thickness 1" (pcs/ctn)
36"x48"	26	20	14	10
1mx10m	1	1	1	1



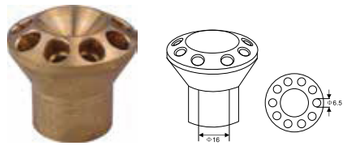
Distribute Tube for Mitsubishi Central Air-conditioner



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

FB Liquid Distributor



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

Distribute Tube for Toshiba Central Air-conditioner



RBM-BY303E

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

Distribute Tube for Dakin Central Air-conditioner

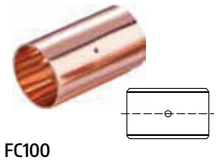


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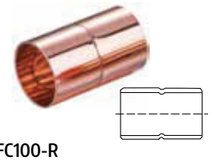
Part No.		A	B	C
11T	gas tube	19.05/15.88	15.88/12.7	15.88/12.7
	liquid tube	9.52	9.52/6.35	9.52/6.35
18T	gas tube	19.05/15.88	19.05/15.88/12.7	15.88/12.7
	liquid tube	9.52	9.52/6.35	9.52/6.35
22T	gas tube	19.05/15.88/12.7	15.88/12.7	15.88/12.7
	liquid tube	9.52	9.52/6.35	9.52/6.35
33T	gas tube	19.05/22.22	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

Copper Fitting

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



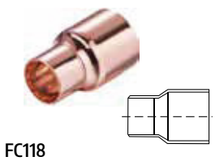
FC100
Coupling with Stop C×C



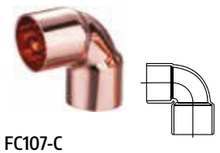
FC100-R
Coupling with Roll-Stop C×C



FC101-R
Reducing Coupling C×C



FC118
Fitting Reducing FTG×C.



FC107-C
90° Elbow-Short Radius C×C



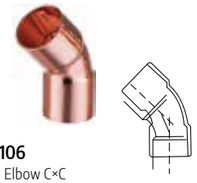
FC107-C-2
90° Elbow-Short Radius C×FTG.



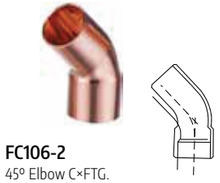
FC107-L
90° Elbow-Long Radius C×C



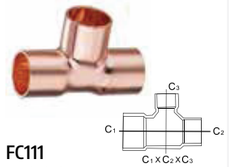
FC107-L-2
90° Elbow-Long Radius C×FTG.



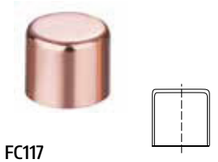
FC106
45° Elbow C×C



FC106-2
45° Elbow C×FTG.



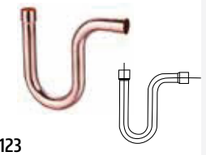
FC111
Tee C×C×C



FC117
Cap (Tube End)



FC138
Return Bend C×C



FC123
Suction Line(P-Trap) C×C



FC136
Cross Over Coupling C×C



FC137
Y Shape Tee



FC104
Male Adapter M×C



FC103
Female Adapter F×C



FC132
Copper Gasket



FC120
Tube Strap

Brass Fitting



Short Nut

Part No.	
SN-04 1/4"	SN-10 5/8"
SN-06 3/8"	SN-12 3/4"
SN-08 1/2"	SN-14 7/8"



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"	FN-14 7/8"



Union

Part No.	
U-04 1/4"	U-10 5/8"
U-06 3/8"	U-12 3/4"
U-08 1/2"	U-14 7/8"



Union Tee

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



Solder Union with Valve Core

Part No.	
U1-4A	1/4" SAE x 1/8" NPT
U1-4B	1/4" SAE x 1/4" NPT



Adapter for R410A

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



Adapter for R410A

Part No.	
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.	
MC-04x02	MC-06x08
MC-04x04	MC-08x04
MC-04x06	MC-08x06
MC-04x08	MC-10x06
MC-06x04	MC-10x08
MC-06x06	MC-10x10



Reducer (Solder)

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

Adapter for R1234yf



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

Capillary Tube with Nuts



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

Access Valves



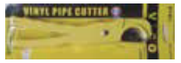
HT-04C HT-04A HT-04B CT-7000

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

Thermoplastic Capillary Hoses



Crimper **TPC-CM**



Cutter **TPC-CT**



TPC-100-B/U/R

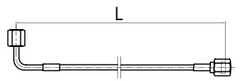
Hose Part Number	Inner Diametre	Outer Diametre	Tolerances	Min Bending Radius	Working Pressure	Working Temp	Weight
TPC-100-B	2.0 mm	5.9 mm	0.1 mm	10 mm	45 bar	-40ºC~130ºC	30 g/m
TPC-100-U	2.0 mm	5.9 mm	0.1 mm	10 mm	45 bar	-40ºC~130ºC	30 g/m
TPC-100-R	2.0 mm	5.9 mm	0.1 mm	10 mm	45 bar	-40ºC~130ºC	30 g/m

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

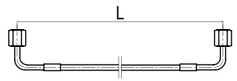
Hose Assembly Overall Length (mm)



STRAIGHT--STRAIGHT



90'--STRAIGHT



90'-90'

Instructions for Manual Assembling of Capillary Hose ID 2mm

Working Temperature: -40ºC+130ºC **Working Pressure:** 45 bar

Asssemble 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.

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.
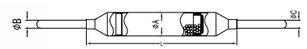
References for Application Scenario

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



Copper Spun Filter Drier

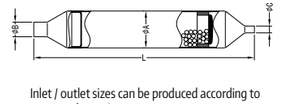




Welded Type

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



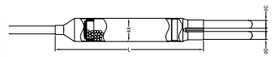


Commom Type (Big Cap)

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

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

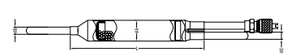




Welded type

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





Welded type

2 inlets (with access valve)+1 outlet

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

Sight Glass



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

Part No.	Descriprion
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

Part No.	Connection	Size		Code
		inch*inch	mm*mm	
SGN 6	Flare M*M	1/4"x1/4"	6x6	014-0161
SGN 10	Flare M*M	3/8"x3/8"	10x10	014-0162
SGN 12	Flare M*M	1/2"x1/2"	12x12	014-0163
SGN 16	Flare M*M	5/8"x5/8"	16x16	014-0164
SGN 19	Flare M*M	3/4"x3/4"	19x19	014-0166

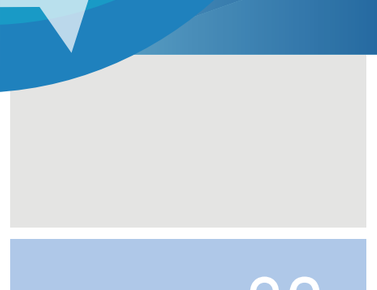
Part No.	Connection	Size		Code
		inch*inch	mm*mm	
SGN 6s	Solder ODFxODF	1/4"x1/4"	-	014-0181
SGN 10s	Solder ODFxODF	3/8"x3/8"	-	014-0182
SGN 12s	Solder ODFxODF	1/2"x1/2"	-	014-0183
SGN 16s	Solder ODFxODF	5/8"x5/8"	16x16	014-0184
SGN 19s	Solder ODFxODF	3/4"x3/4"	19x19	014-0185
SGN 22s	Solder ODFxODF	7/8"x7/8"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

Panasonic

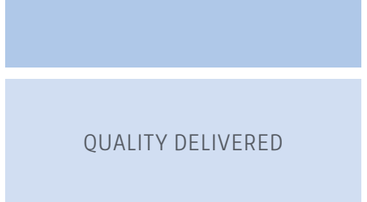
02

COMPRESSOR

QUALITY DELIVERED









LG LBP Hermetic Compressor for Refrigerator

R134a: 220V~240V/50Hz



Ref.	No.	Category	Model	Ref.	App.	Power (V/Hz)	C/Capa (W)	COP (W/W)	Qty/Pallet (PCS)	Qty/20GP (PCS)
R134a	220V/50Hz 115V/60Hz	1/12 HP	**CSB024LHMG**	R134a	LBP	220~240/50	50	0.81	125	3250
		1/10 HP	**CSB030LHMG**	R134a	LBP	220~240/50	76	0.95	125	3250
		1/8 HP	**CMA042LHEG**	R134a	LBP	220~240/50	107	1.35	72	2016
		1/6 HP	**CMA053LHEG**	R134a	LBP	220~240/50	150	1.42	72	2016
		1/5 HP	**CMA057LHEG**	R134a	LBP	220~240/50	163	1.42	72	2016
		1/4 HP	**CMA069LHEM**	R134a	LBP	220~240/50	195	1.52	72	2016
		1/4+ HP	**CMA075LAEM**	R134a	LBP	220~240/50	215	1.67	72	2016
		1/3 HP	**LX95LHBM**	R134a	LBP	220/50, 60	267	1.28	64	1664
		1/2 HP	**LX110LAJM**	R134a	LBP	220/50	323	1.39	64	1664
		1/8 HP	**CSB035LJCM**	R134a	LBP	115/60	105	0.94	125	3000
		1/5 HP	**CMA053LHCG**	R134a	LBP	115/60	167	1.42	72	2016
		1/4 HP	**CMA062LH**	R134a	LBP	115/60	203	1.43	72	2016
R600a	220V/50Hz 115V/60Hz	1/10 HP	**CMCSB057NJEG**	R600a	LBP	220~240/50	100	1.30	125	3250
		1/8 HP	**CSB069NJEG**	R600a	LBP	220~240/50	126	1.40	125	3250
		1/6 HP	**CSB075NJEG**	R600a	LBP	220~240/50	139	1.36	125	3250
		1/5 HP	**CSB090NJJM**	R600a	LBP	220~240/50	160	1.30	125	3000
		1/5+ HP	**CMA098NJEG**	R600a	LBP	220~240/50	180	1.60	72	2016
		1/4 HP	**CMA110NJEM**	R600a	LBP	220~240/50	194	1.58	72	2016
		1/4+ HP	**CMA121NBEM**	R600a	LBP	220~240/50	220	1.85	72	2016
		1/10 HP	**CSB045NHCG**	R600a	LBP	115/60	86	1.41	125	3250
		1/8 HP	**CSB057NHCG**	R600a	LBP	115/60	120	1.50	125	3250

Zeta

R600a: 220V~240V/50Hz~60Hz



Model	Motor	Freq.(hz)	Displ. (cm^3)	Motor Type	Cooling apacity w	Cooling apacity kcal/h	Input Power (W)	COP (W/W)	Height (mm)	Net Weight (kg)	Certification
HDZ220FSM*	AL	43(1300rpm)	9.2	PMSM	60	52	36	1.68	135.4	6	-
		53(1600rpm)			90	77	51	1.78			
		80(2400rpm)			134	115	74	1.80			
		100(3000rpm)			166	143	93	1.79			
		140(4200rpm)			225	194	135	1.67			
HDZ240FSM*	AL	43(1300rpm)	10.3	PMSM	74	64	44	1.68	135.4	6.4	-
		53(1600rpm)			102	88	57	1.78			
		80(2400rpm)			153	132	84	1.82			
		100(3000rpm)			188	162	105	1.79			
		140(4200rpm)			234	201	140	1,67			
HDZ270FSM*	AL	43(1300rpm)	11.4	PMSM	83	71	52	1.61	135.4	6.4	-
		53(1600rpm)			109	94	63	1.74			
		80(2400rpm)			169	145	94	1.80			
		100(3000rpm)			213	183	120	1.78			
		140(4200rpm)			250	215	153	1.63			

Lambda

R134a: 220V~240V/50Hz



Model	Motor	Displ. (cm^3)	Motor Type	Freq. (hz)	Cooling apacity w	Cooling apacity kcal/h	Input Power (W)	COP (W/W)	Start apacitor (µF)	Run apacitor (µF)	Height (mm)	Net Weight (kg)	Certification
GML110A	AL	4.1	RSCR	50	113	97	84	1.35	-	2.5	152	6.3	CCC/VDE
GML125A	AL	4.3	RSCR	50	124	107	90	1.38	-	3	152	6.3	CCC/VDE
GML140A	AL	4.5	RSCR	50	140	120	104	1.35	-	3	152	6.3	CCC/VDE
GML160A	AL	5.7	RSCR	50	162	139	114	1.42	-	4	161	7.3	-
GML180A	AL	6.0	RSCR	50	178	153	125	1.42	-	4	164	7.3	CCC/VDE
GML200A M	AL	6.5	RSCR	50	190	163	128	1.48	-	5	164	7.3	CCC/VDE
GML200A	AL	7.0	RSCR	50	205	176	139	1.48	-	5	164	7.3	CCC/VDE

China R600a-LBP Compressor for Refrigerator

R600a: 220V~240V/50Hz



Series	Model	VOL/FRE. (V/Hz)	Capacity (W)	COP (W/W)	Cooling	Motor Type	Capacitor	Certificate
V	**VY33C45D**	220-240/50	50	1.25	ST	RSIR	-	CCC. CE. CB. VDE
		220-240/50	50	1.30	ST	RSCR	2.5	CCC. CE. CB. VDE
	VY43C45B	220-240/50	68	1.50	ST	RSCR	2.5	CCC. CE. CB. VDE
NV	**VY51C45B**	220-240/50	83	1.50	ST	RSCR	2.5	-
	VY60C45F	220-240/50	98	1.55	ST	RSCR	3	CCC
M	**MY68C45V**	220-240/50	115	1.80	ST	RSCR	3	-
	MY73C45V	220-240/50	125	1.80	ST	RSCR	3	-
	MY80C45V	220-240/50	140	1.80	ST	RSCR	3	-
	MY88C45V	220-240/50	152	1.80	ST	RSCR	4	-
	MY97C45V	220-240/50	165	1.80	ST	RSCR	4	-
	QY111R45V	220-240/50	190	1.50	ST	RSIR	-	CCC. CE. CB. VDE
	QY118R45V	220-240/50	205	1.50	ST	RSIR	-	CCC. CE. CB. VDE

China R134a DC Compressor for Refrigerator



Refrigerant	Application	Model	Displacement (cm^3)	Rotate speed (rpm)	-23.3°C Ashrae Cooling Capacity W	Cooling Capacity Kcal/h	Cooling Capacity Btu/h	Efficiency COP W/W	Efficiency EER Btu/w.h	Oil Charge (ml)	Cooling	Power Suooly
R134a	LBP	**QDZH25G**	2.5	2000	40	35	136	1.2	3.75	150	FC	12/24V (DC)
				2500	50	43	170	1.2	3.75			
				3000	60	51	205	1.2	3.75			
				3500	70	60	239	1.2	3.75			
R134a	LBP	**QDZH28G**	2.8	2000	50	43	170	1.2	3.75	150	FC	12/24V (DC)
				2500	60	51	205	1.2	3.75			
				3000	70	60	239	1.2	3.75			
				3500	80	69	272	1.2	3.75			
R134a	LBP	**QDZH35G**	3.5	2000	60	51	205	1.33	4.43	150	FC	12/24V (DC)
				2500	75	65	255	1.3	4.43			
				3000	88	76	300	1.25	4.26			
				3500	100	86	341	1.2	4.09			

Rotary Compressor for Air Conditioner

Fixed Frequency: R22 (1-50Hz-220/240V)



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

Fixed Frequency: R410A (1-50Hz-220/240V)

Series	Part No.	Displ. (cm^3/rev)	Cooling Capacity W	Cooling Capacity Btu/h	Power (W)	COP (W/W)	Capacitor (μF/V)	Compressor Height (mm)	Discharge Pipe ID (mm)	Sucition Pipe ID (mm)
SM	**ASM106**	10.6	2560	8734	853	3.00	25/370	292	8.1	9.8
	ASM118	11.8	2850	9724	950	3.00	25/370	292	8.1	12.9
	ASM125	12.5	3095	10560	1025	3.02	35/370	292	8.1	9.8
	ASM135	13.3	3300	11260	1110	2.95	35/370	292	8.1	12.9
	ASM140	13.9	3440	11737	1165	2.95	35/370	292	8.1	12.9
X2	**PA150**	15.1	3660	12488	1260	2.90	35/370	299	8.1	12.9
	PA160	16.0	3910	13341	1350	2.90	35/400	299	8.1	12.9
M2	**PA170**	17.1	4190	14297	1385	3.03	35/400	299	8.1	12.9
	PA185	18.5	4495	15337	1500	3.00	35/400	299	8.1	12.9
	PA200	19.9	4975	16975	1670	2.98	45/370	340	8.1	12.9
	PA215	21.4	5295	18067	1755	3.02	50/370	340	8.1	12.9
	PA225	22.4	5500	18766	1835	3.00	50/370	340	8.1	12.9
	PA240	23.9	5840	19926	1980	2.95	50/370	340	8.1	12.9
G2	**PA250**	25.1	6245	21308	2095	2.98	60/400	310	9.8	12.9
	PA260	26.0	6500	22178	2130	3.05	65/400	310	9.8	12.9
	PA270	27.0	6665	22741	2220	3.00	60/400	310	9.8	12.9
	PA290	28.7	7295	24891	2410	3.03	50/400	344	9.8	16.2
X3	**PA331**	32.6	8190	27944	2715	3.02	55/400	381.5	9.8	16.2

Constant-speed T1 R22: 1Φ 220/240V 50Hz



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

Constant-speed T1 R410a: 1Φ 220/240V 50Hz



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

EMERSON









Copeland ZB Series R404a Scroll Compressor

Part No.	Motor TFD	Norminal Power (Hp)	Displ. (m^3/h)	Curient		Capacitor (Single Phase Select)	Connection Tube (inch)		Oil Charge (L)
				(RLA) TFD	(A) PFJ		Discharge	Suction	
ZB15KQ / ZB15KQE	PFJ/TFD	2	5.9	4.3	11.4	40μF/370V	1/2	3/4	1.18
ZB19KQ / ZB19KQE	PFJ/TFD	2.5	6.8	4.3	12.9	45μF/370V	1/2	3/4	1.45
ZB21KQ / ZB21KQE	PFJ/TFD	3	8.6	5.7	16.4	50μF/370V	1/2	3/4	1.45
ZB26KQ / ZB26KQE	PFJ/TFD	3.5	9.9	7.1	18.9	60μF/370V	1/2	3/4	1.45
ZB29KQ / ZB29KQE	TFD	4	11.4	7.9	19.3	60μF/370V	1/2	7/8	1.36
ZB38KQ / ZB38KQE	TFD	5	14.5	8.9	-	-	1/2	7/8	1.89
ZB45KQ / ZB45KQE	TFD	6	17.2	11.5	-	-	1/2	7/8	1.89
ZB48KQ / ZB48KQE	TFD	7	18.8	12.1	-		3/4	7/8	1.80
ZB58KQ / ZB58KQE	TFD	8	22.1	16.4	-	-	7/8	1-1/8	2.51
ZB66KQ / ZB66KQE	TFD	9	25.7	17.3	-		7/8	1-3/8	3.25
ZB76KQ / ZB76KQE	TFD	10	28.8	19.2	-	-	7/8	1-3/8	3.25
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
ZB130KQ / ZB130KQE	TED	20	45.7	37.4	-	-	1-1/8	1-5/8	4.2
ZB150KQ / ZB150KQE	TWM	22	56.6	33.6	-	-	1-3/8	1-5/8	4.4
ZB190KQ / ZB190KQE	TWM	25	71.4	41.4	-	-	1-3/8	1-5/8	6.5
ZB220KQ / ZB220KQE	TWM	30	87.5	54.3	-	-	1-3/8	1-5/8	6

Copeland ZR Series R407c Scroll Compressor

Part No.	Nominal Power (HP)	Nominal Capacity		Input power (W)	Current (A)	Displ (cm^3/rev)	Weight (kg)	Height (mm)	Noise (dBA)
		(W)	(Btu/h)						
ZR24K3E-TFD	2.0	5,900	20,119	1,920	4.3	5.92	25.0	383	69.0
ZR36K3E-TFD	3.0	8,900	30,3493	2,680	5.7	8.61	28.0	406	71.0
ZR42K3E-TFD	3.5	10,250	4,952	3,100	7.1	9.94	28.0	406	69.0
ZR47KCE-TFD	3.92	11,550	39,385	3,430	7.2	11.16	30.0	436	71.0
ZR61KCE-TFD	5.1	14,000	47,600	4,460	8.4	3.14	28.0	436	71.0
ZR68KCE-TFD	5.7	14,800	54,000	5,100	8.9	3.11	39.0	436	72.0
ZR72KCE-TFD	6.0	16,600	56,500	5,150	9.1	3.22	38.6	457	72.0
ZR81KCE-TFD	6.8	18,600	63,500	5,900	10.9	3.17	39.0	457	72.0
ZR94KCE-TFD	7.8	23,000	78,600	6,950	12.9	3.34	57.2	462	74.0
ZR108KCE-TFD	9.0	28,800	88,100	7,580	13.8	3.40	59.9	497	74.0
ZR125KCE-TFD	10.4	30,000	103,000	8,950	16.0	3.40	61.2	552	74.0
ZR144KCE-TFD	12.0	34,500	11,800	10,150	17.7	3.40	61.2	552	75.0
ZR160KCE-TFD	13.3	37,500	128,000	11,450	20.5	3.28	64.9	552	78.0
ZR190KCE-TFD	15.8	44,000	150,000	13,650	26.5	3.22	66.2	552	82.0
ZR250KCE-TWD	20.8	58,500	200,000	18,000	30.1	3.25	139.3	552	83.0
ZR310KCE-TWD	25.8	72,500	248,000	22,300	37.9	3.25	160.1	552	85.0
ZR380KCE-TWD	31.7	91,500	313,000	26,700	45.5	3.43	176.9	552	88.0

R407C Scroll Compressor

SANYO

Panasonic
ideas for life



Part No.	Phase	Out Put (HP)	Displacement (cm^3/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-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	171.1	809 101 88	29.9	102.1	3.20	10.9	35.9	122.6	3.12	10.7
C-SCN753H8K				809 103 88	29.9	102.1	3.20	10.9	35.9	122.6	3.12	10.7
C-SCN753H8T				809 105 88	29.9	102.1	3.20	10.9	35.9	122.6	3.12	10.7
C-SCN903H8H	3	12	205.4	809 121 88	34.9	119.2	3.09	10.5	-	-	-	-
C-SCN903H8K				809 123 88	34.9	119.2	3.09	10.5	-	-	-	-
C-SCN903H8T				809 125 88	34.9	119.2	3.09	10.5		-	-	-

R404A Scroll Compressor

Danfoss



Part No.	HP	(W)		(W)	(A)		(Btu/Wh)	(cc/Rev.)	(l)
					COP	EER			
		W	Btu/h	kW	W/W	Btu/h/W	cm^3/rev	m^3/h	l
MLZ015	2	3,300	11,300	1.75	1.89	6.45	33.8	5.9	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

03

REFRIGERATION SPARE PARTS

QUALITY DELIVERED

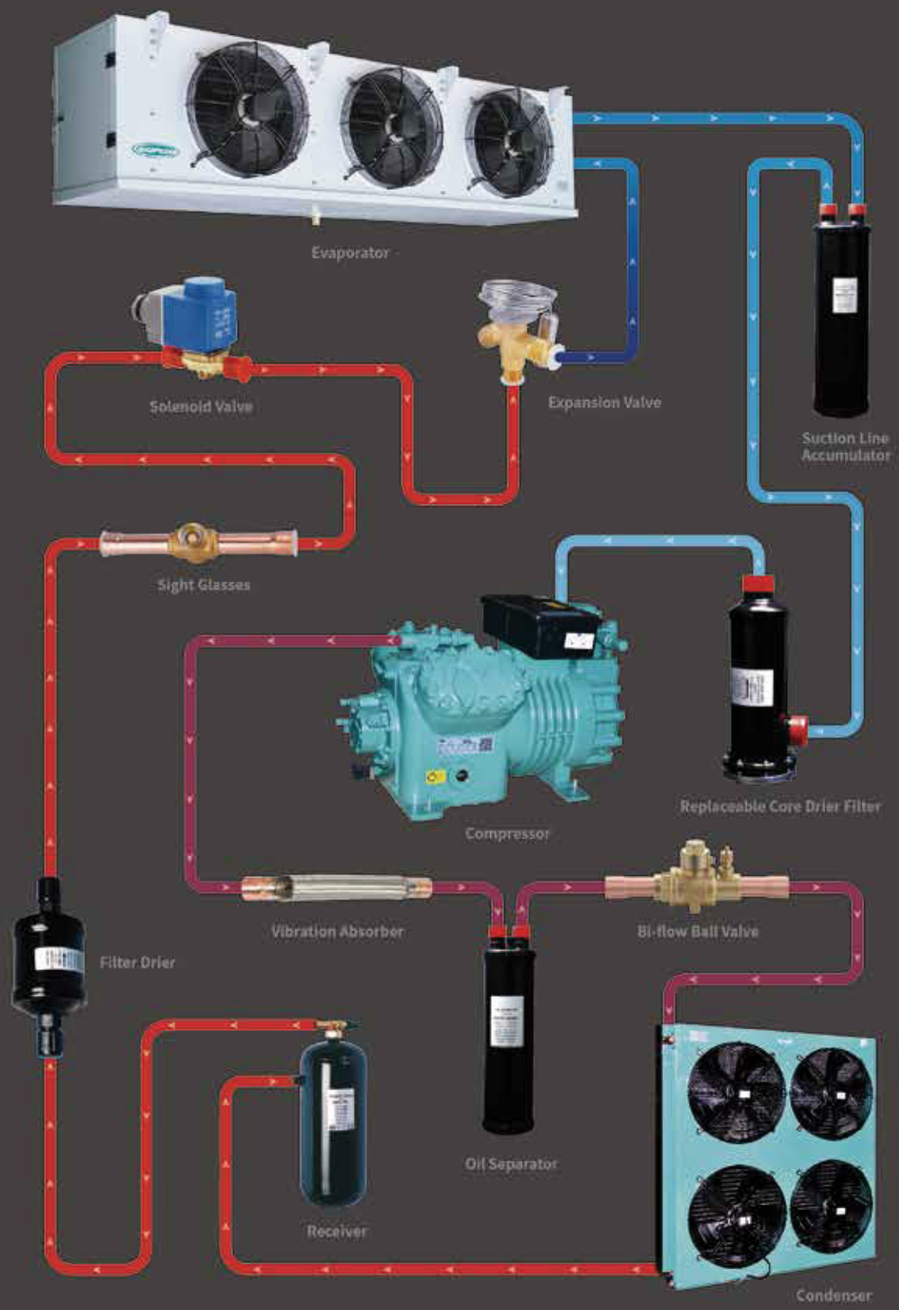








Refrigeration Cycle



SRK Liquid Line Filter Drier (Solid Core)



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 refigeration system.





Feature:

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

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-032	1/4	-	8.1	8.7	8.5	6.0	5.6	110	66	43
SSRK-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

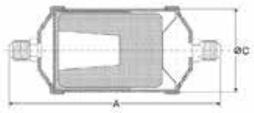
SDCL Liquid Line Filter Drier (Solid Core)





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:

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

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

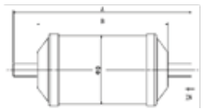
SR Filter Drier (Compact Beads)





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





Feature:

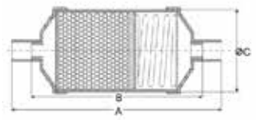
- 100% 3A molecular sieve core;
- Shock resistant steel shell construction;
- High dirt retention, down to 25 μm particles, with minimal pressure drop;
- High absorbent and acid removable capacity;
- Highly corrosion-resistant powder coating finish. Can be used in all environments, including marine applications;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

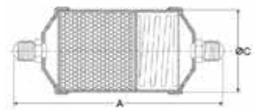
Part No.	Connections		Liquid Flow Capacity (KW)					Dimensions		
	ODF	SEA	R134a	R22/R410A	R407C	R404A/R507	R502	A	B	D
SR-052	-	1/4	9.0	9.8	7.7	6.5	6.3	119	72	63.5
SR-052S	1/4	-	13.3	14.4	12.3	9.6	9.4	116	72	63.5
SR-053	-	3/8	21.4	23.3	13.4	15.4	15.1	129	72	63.5
SR-053S	3/8	-	26.5	28.9	16.9	19.1	18.7	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	1-18	-	109.1	118.7	73.1	78.7	77.1	245	185	76

SDML Liquid Line Filter Drier (Solid Core)



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:

- 100% 3A molecular sieve core;
- Additives comsuming 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	D
SDML-032	-	1/4	7	5	7	66	43	113	46
SDML-032S	1/4	-	7	5	7	66	43	110	46
SDML-033	-	3/8	17	13	19	66	43	123	46
SDML-033S	3/8	-	17	13	19	75	54	114	46
SDML-052	-	1/4	7	5	8	75	54	122	46
SDML-052S	1/4	-	7	5	8	75	54	119	46
SDML-053	-	3/8	18	14	19	75	54	132	46
SDML-053S	3/8	-	18	14	19	75	54	123	46
SDML-082	-	1/4	7	5	8	101	54	148	46
SDML-082S	1/4	-	7	5	8	101	54	145	46
SDML-083	-	3/8	19	14	21	101	54	158	46
SDML-083S	3/8	-	19	14	21	101	54	149	46
SDML-084	-	1/2	26	20	29	101	54	166	46
SDML-084S	1/2	-	26	20	29	101	54	151	46
SDML-085	-	5/8	42	31	46	101	54	174	46
SDML-085S	5/8	-	42	31	46	101	54	149	46
SDML-162	-	1/4	7	5	8	110	76	157	46
SDML-162S	1/4	-	7	5	8	110	76	154	46
SDML-163	-	3/8	22	16	24	110	76	167	46
SDML-163S	3/8	-	22	16	24	110	76	158	46
SDML-164	-	1/2	30	22	33	110	76	175	46
SDML-164S	1/2	-	30	22	33	110	76	160	46
SDML-165	-	5/8	43	30	47	110	76	183	46
SDML-165S	5/8	-	43	30	47	110	76	158	46
SDML-166	-	3/4	44	31	48	110	76	189	35
SDML-166S	3/4		44	31	48	110	76	164	35
SDML-167S	7/8	-	44	31	48	110	76	170	35
SDML-303	-	3/8	21	15	23	186	76	243	46
SDML-303S	3/8	-	21	15	23	186	76	234	46
SDML-304	-	1/2	31	22	34	186	76	251	46
SDML-304S	1/2	-	31	22	34	186	76	236	46
SDML-305	-	5/8	45	33	49	186	76	259	46
SDML-305S	5/8	-	45	33	49	186	76	234	46
SDML-306	-	3/4	62	45	68	186	76	265	35
SDML-306S	3/4	-	62	45	68	186	76	240	35
SDML-307S	7/8	-	62	45	68	186	76	246	35
SDML-309S	1-18	-	62	45	68	186	76	246	30

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

Suction Line Filter

Feature:

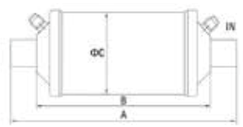
These designs come with two access valves side to provide most effective protection for compressor.

Filteration: 40um

Appropriate temperature: -45°C~+65°C

Maximum pressure: 3.1Mpa.





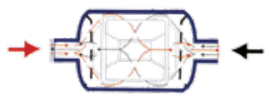
Part No.	Connection Size (inch)	A (inch)	B (inch)	C (inch)
SSR-283-T	3/8	5.59	4.40	3.5
SSR-284-T	1/2	5.69	4.43	3.5
SSR-285-T	5/8	6.38	4.92	3.5
SSR-286-T	3/8	7.75	6.18	3.5

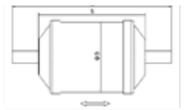
Part No.	Connection Size (inch)	A (inch)	B (inch)	C (inch)
SSR-287-T	7/8	7.87	6.22	3.5
SSR-289-T	1-1/8	8.25	6.60	3.5
SSR-2811-T	1-3/8	10.81	8.84	3.5
SSR-2813-T	1-5/8	10.50	8.50	3.5

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.



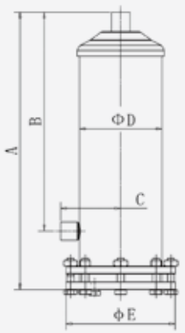
Part No.	Connection Size (inch)	A(mm)(±2)	ΦB (mm)(±0.5)	Refrigeration Vapacity (KM)		
				R407C	R134a	R404A
SRE-032	1/4	110	46	4	3	3
SRE-082	1/4	130	64	6	3.5	4
SRE-083	3/8	130	64	6	3.5	4.5
SRE-084	1/2	130	64	10	5.5	8
SRE-162	1/4	158	78	10.5	5	7.5
SRE-163	3/8	158	78	13	5.5	8
SRE-164	1/2	158	78	15	6	8.5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

Replaceable Filter Drier Shell





Part No.	Inlet & Outlet Size	Number of Cores	Recommended Value (kw)					Dimensions (mm)				
			Cooling			Air-conditioning						
			Commerial Refrigeration and Low-temperature Equipment			System of Replace or Assemble in the Spot						
			12/134a	22	404A/502 & 507	12/134a	22	A	B	C	D	E
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-4824	3	1	55.4	70.2	56.9	66.1	83.4	266	168	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-14424	3	3	257	269	193	231	286	548	450	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-19224	3	4	257	257	248	267	347	698	600	116	114	151



Feature:

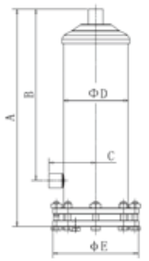
- Can match with all brands of 48 series cores;
- Has access port that can check the pressure drop & changing;
- Whole range Size, Max. connection is 3-1/8";
- Can choose D-48 or H-48 for liquid line;
- Can choose F-48 or X-48 for suction line.



Replaceable Filter Drier Shell

Feature:

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







Part No.	Inlet & Outlet Size	Number of cores	Recommended value (kw)					Dimensions (mm)				
			Cooling			Air-conditioning		A	B	C	D	E
			Commerial Refrigeration and low-temperature equipment			System of replace or Assemble in the spot						
			12/134a	22	404A/502 & 507	12/134a	22					
RSPA-10013	1-5/8	1	67	98	59	63	106	288	180	106	152	200
RSPA-10017	2-1/8	1	74	121	65	69	121	295	187	111	152	200
RSPA-10024	3	1	95	164	84	88	156	301	188	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-20024	3	2	162	251	153	165	243	466	353	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-30024	3	3	315	399	292	296	404	625	512	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-40024	3	4	415	503	388	415	527	799	686	136	152	200
RSPA-40028	3-1/2	4	461	559	433	462	579	797	674	136	152	200
RSPA-40029	3-5/8	4	485	573	457	491	593	796	673	136	152	200
RSPA-40034	4-1/4	4	507	591	482	512	617	800	677	136	152	200
RSPA-40042	5-1/4	4	529	615	504	536	633	789	641	136	152	200

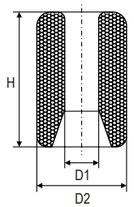
Replaceable Liquid Line Filter Blocks and Suction Line Filter Core

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

Feature:

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





HR-48

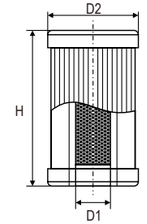


DR-48



W-48





SF-48



X-48



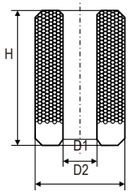
CU-48

Technical Parameter

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

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





H-100



X-100



SF-100



CU-100

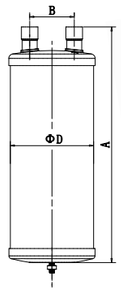
Technical Parameter

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

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

Suction Line Accumulator







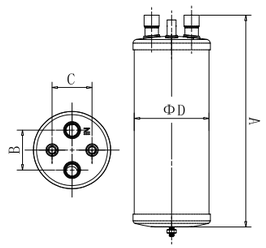
In circulatory system, the refrigerant must be convert became gas before returning to compressor. So it has to separate gas and liquid before the refrigerant enters into the compressor. And let the gas refrigerant enters into the compressor will not cause strike. The liquid refrigerant evaporate slowly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

Part No.	Volume (L)	Inlet & Outlet	A (mm)	B (mm)	D (mm)	Normal Capacity (KW) @-18C Vaporize Temp.		
						R22	R134a	R404A
RSPQ-204	1.5	1/2	254	52	102	3.2	2.17	2.8
RSPQ-205	1.8	5/8	294	52	102	4.9	2.8	4.2
RSPQ-206	3.8	3/4	316	75	140	6.3	3.2	5.3
RSPQ-207	4.3	7/8	356	75	140	11.6	6.3	9.5
RSPQ-208	7.3	1-1/8	450	85	159	18.9	10.9	15.5
RSPQ-209	9.6	1-3/8	574	85	159	29.9	16.2	25.3
RSPQ-210	10.4	1-5/8	624	85	159	45.0	25.7	37.6
RSPQ-595	2.4	5/8	257	70	127	5.1	2.7	4.5
RSPQ-596	2.4	3/4	257	70	127	6.3	3.2	5.3
RSPQ-597	2.4	7/8	262	70	127	11.6	6.3	9.5
RSPQ-5126	3.3	3/4	332	70	127	6.3	3.2	5.3
RSPQ-5127	3.3	7/8	337	70	127	11.6	6.3	9.5
RSPQ-5137	3.5	7/8	358	70	127	11.6	6.3	9.5
RSPQ-5139	3.5	1-1/8	363	70	127	18.9	10.9	15.5
RSPQ-5179	4.7	1-1/8	465	70	127	18.9	10.9	15.5
RSPQ-51711	4.7	1-3/8	465	70	127	29.9	16.2	25.3
RSPQ-61411R	6.0	1-3/8	390	85	159	29.9	16.2	25.3
SPQ-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) @-18C Vaporize Temp.		
								R22	R134a	R404A
RSPR-2404	1.5	1/2	3/8	254	52	52	102	3.2	2.17	2.8
RSPR-2405	1.8	5/8	3/8	294	52	52	102	4.9	2.8	4.2
RSPR-2406	3.8	3/4	1/ 2	316	75	75	140	6.3	3.2	5.3
RSPR-2407	4.3	7/8	1/ 2	356	75	75	140	11.6	6.3	9.5
RSPR-2411	7.3	1-1/8	5/8	450	85	85	159	18.9	10.9	15.5
RSPR-2413	9.6	1-3/8	3/4	574	85	85	159	29.9	16.2	25.3
RSPR-2415	10.4	1-5/8	7/8	624	85	85	159	41.0	24.1	32.6
RSPR-2417	10.4	2-1/8	7/8	629	85	85	159	49.6	35.4	42.8

Oil Separators



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

Demountable Oil Separators



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

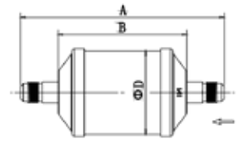
Oil Filter

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



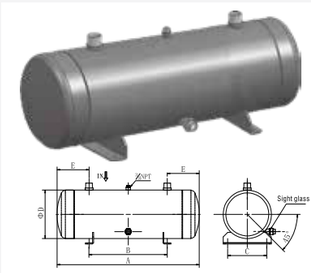
Part No.	Volume (L)	ODF	A (mm)	B (mm)	D (mm)	°C
RSPC-133	1.1	3/8	170	35	102	18.2°
RSPC-166	1.6	3/8	192	40	114	22.3°
RSPC-233	2	3/8	185	42	127	20°
RSPC-333	3	3/8	293	42	127	20°
RSPC-433	4	3/8	238	55	165	21°
RSPC-644	6	1/2	332	55	165	21°
RSPC-844	8	1/2	432	55	165	21°
RSPC-1055	10	5/8	322	75	219	17°
RSPC-1255	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	1.0	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

Part No.	Volume (L)	Inet & 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

Horizontal Receiver

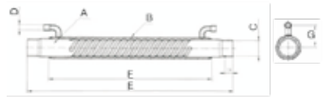


Part No.	Inet & Outlet	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
30L	1-1/8	900	600	190	219	150
35L	1-1/8	1000	700	190	219	150
40L	1-3/8	800	440	220	273	180
45L	1-3/8	900	540	220	273	180
50L	1-5/8	1000	640	220	273	180
55L	1-5/8	1100	740	220	273	180
60L	2-1/8	1200	840	220	273	180

Copper Heat Exchanger

Coopper 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 perbents the lost of cooling in the ambient air via uninsulated suction lines in the heat exchange process.





Refrigerants	Working Temperature
CFCs, HCFCs, HFCs, Hcs	-60C~120°C

Max. Working Pressure	Max. Testing Pressure
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-250	1-5/8-5/8	47.7	54.1	41.3	15.88	435	340	63

Coaxial Coils Heat Exchanger

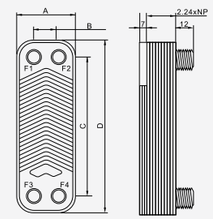


Part No.	Heating Capacity (kw)	Copper Tube Connection				Dimensions		
		Refrigerant		Water				
		Inlet-outlet Diameter (mm)	Thickness (mm)	Inlet-outlet Diameter (mm)	Thickness (mm)	Length (mm)	Height (mm)	Width (mm)
SR-BA-009-H	2.64	12.7-9.52	0.75	18-18	1.2	235	174	148
SR-BA-012-H	3.52	12.7-9.52	0.75	18-18	1.2	235	174	173
SR-BA-018-H	5.28	19.0-12.7	1.1-0.75	19-19	1.5	290	211	148
SR-BA-024-H	7.04	19.0-12.7	1.1-0.75	19-19	1.5	264	222	177
SR-BA-030-H	8.8	22.2-12.7	1.1-0.75	19-19	1.5	350	292	160
SR-BA-036-H	10.56	22.2-12.7	1.1-0.75	19-19	1.5	343	310	185
SR-BA-042-H	12.32	22.2-12.7	1.1-0.75	23-23	1.5	368	287	248
SR-BA-048-H	14.08	22.2-12.7	1.1-0.76	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



SR-B3-12 SR-B3-14 SR-B3-23 SR-B3-53(SR-B3-95)



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

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

Part No.	Description
FC-1432	Cam-Lift Hinge 32mm
FC-1470	Reach-in door hinge, adjustable height from 40 to 70 mm, Zinc body.
FC-1460	Reach-in door hinge, adjustable height from 32 to 60 mm, Zinc body.
FC-1450	Reach-in door hinge, adjustable height from 32 to 50 mm, Zinc body.
FC-8064-1	Hinge for flush door, width 100m, length 100mm, stainless steel.
FC-650 (3.5)	Refrigerator spring hinge, spring diameter: 3.5mm
FC-650 (4.0)	Refrigerator spring hinge, spring diameter: 4.0mm
FC-650 (5.0)	Refrigerator spring hinge, spring diameter: 5.0mm

Latches



FC-1178



FC-1200



FC-1250



FC-1240



FC-1060 FC-1040



FC-1400



FC-1061



FC-3-0681



FC-3-0680



FC-4000



FC-4100



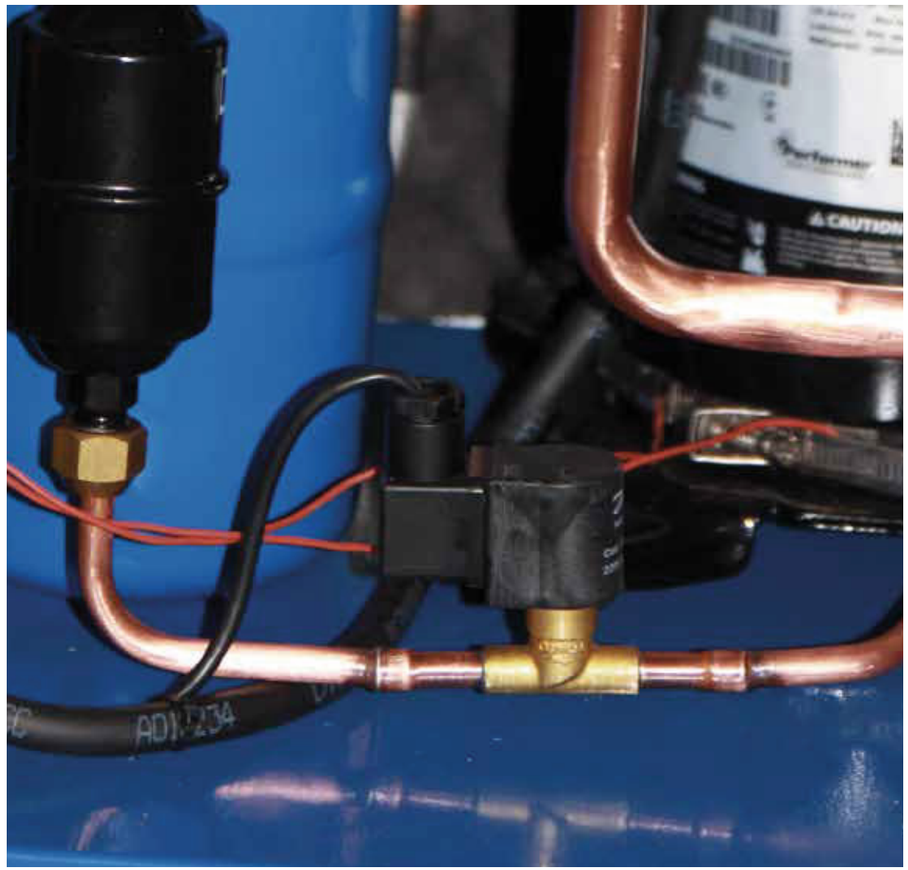
FC-4255

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

Part No.	Description
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	Safty latch
FC-4100	Safty latch
FC-4255	Safty latch

04 VALVE & CONTROL

QUALITY DELIVERED









Shut-off Valve (Hand Valves)



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



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

Rotalock Valves



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



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

Split A/C Valves

- **Applicable Medium:** R22, R134a, R410a, R407C, R32 etc.
- **Applicable Medium Temperature:** -30°C~+120°C.
- **Maximum Working Pressure:** 4.2MPa.

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



Safety Valve

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



Part No.	Male x Female
FC-34	1/4x1/4 SAE
FC-34A	1/4x5/16 SAE
FC-34B	5/16x5/16 SAE
FC-34C	5/16x1/4 SAE

Thermostat Expansion Valves



Flare x Flare Connection Without Orifce

Refrigerant	Part No.	Pressure Equalization	Capillary Tybe(m)	Connection Inlet x Outlet		Danfoss Code N Series (-40~+10°C)	Danfoss Code N Series (-40~+10°C)
				inch x inch	mm x mm	Without MOP	Without MOP
R22	**Tx2**	int.	1.5	3/8x1/2	10x12	068Z3206	068Z3281
	TEX2	ext.		3/8x1/2	10x12	068Z3209	068Z3284
R407C	**Tz2**	int.	1.5	3/8x1/2	10x12	068Z3496	068Z3502
	TEZ2	ext.		3/8x1/2	10x12	068Z3501	068Z3446
R134A	**Tn2**	int.	1.5	3/8x1/2	10x12	068Z3346	068Z3383
	TEN2	ext.		3/8x1/2	10x12	068Z3348	068Z3385
R404A/ R507	**Ts2**	int.	1.5	3/8x1/2	10x12	068Z3400	068Z3414
	TES2	ext.		3/8x1/2	10x12	068Z3403	068Z3415

Orifice: -40~+40°C



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

Bi-directional Ball Valves



Part No.	ODF	
	mm	inch.
BV001-1	-	1/4"
BV001	10	-
BV002	-	3/8"
BV003	12	-
BV004	-	1/2"
BV005	16	5/8"

Part No.	ODF	
	mm	inch.
BV006	18	-
BV007	-	3/4"
BV008	22	7/8"
BV009	18	-
BV0010	-	1-1/8"
BV0011	35	1-3/8"

Part No.	ODF	
	mm	inch.
BV0012	42	-
BV0013	-	1-5/8"
BV0014	54	2-1/8"
BV0015	67	2-5/8"
BV0016	-	3-1/8"
BV0017	-	4-3/8"

Super Bi-directional Ball Valves

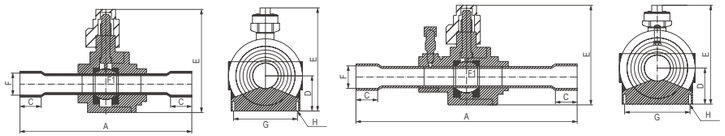
- Bigger & Stronger valve body.
- Chrome-plated brass ball inside.
- Higher working pressure can reach to 48bar,700Psi.
- Valve body is brazed after screw, which is more hermetic.
- Special gasket with Graphene material, can make the valve body more clean and reduce the possibility of ball valve leakage.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


TBC Series


TBG Series



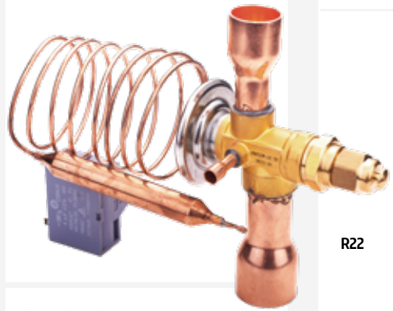




Part No.	Part No.	A (mm)	G (mm)	E (mm)	F (mm)	F1 (mm)	C (mm)	D (mm)	H
TBC-6S	**TBG-6S**	148	22	60	1/4	10	8	16	M4x0.7
TBC-10S	**TBG-10S**	150	22	60	3/8	10	8	16	M4x0.7
TBC-12S	**TBG-12S**	152	22	60	1/2	11	10	16	M4x0.7
TBC-16S	**TBG-16S**	162	22	60	5/8	13	13	16.5	M4x0.7
TBC-19S	**TBG-19S**	162	22	60	3/4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

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

FRF Thermostatic Expansion Valve



Technical Parameters

- Applicable Refrigerants: R22/R134a/R404A
- Applicable Medium: R22: -40°C~+10°C R134a:-30°C~+10°C R404A:-40°C~+10°C
- Applicable Range of Superheat: 2°C~8°C
- Maximum Working Pressure: 2.8MPa
- Maximum Testing Pressure: 3.2MPa

Refrigerant	Model	Pressure Equalisation	Thread (Connection Size)		
			Inlet inch	Outlet inch	External Equaliser
R22	FRF22W-3-3-5	External Equalisation	3/8"ODF	5/8"ODF	1/4"ODF
	FRF22W-3-4-5		1/2"ODF	5/8"ODF	
	FRF22W-4-4-7		1/2"ODF	7/8"ODF	
	FRF22W-6-4-5		1/2"ODF	5/8"ODF	
	FRF22W-6-4-7		1/2"ODF	7/8"ODF	
	FRF22W-7.5-5-7		5/8"ODF	7/8"ODF	
	FRF22W-11-5-7		5/8"ODF	7/8"ODF	
	FRF22W-11-5-9		5/8"ODF	1-1/8"ODF	
	FRF22W-12-5-7		5/8"ODF	7/8"ODF	
	FRF22W-12-5-9		5/8"ODF	1-1/8"ODF	
	FRF22W-15-5-9		5/8"ODF	1-1/8"ODF	
	FRF22W-15-7-9		7/8"ODF	1-1/8"ODF	
	FRF22W-18-7-9		7/8"ODF	1-1/8"ODF	
	FRF22W-18-7-11		7/8"ODF	1-3/8"ODF	
	FRF22W-26-7-11		7/8"ODF	1-3/8"ODF	
	FRF22W-26-9-11		1-1/8"ODF	1-3/8"ODF	
	FRF22W-30-7-11		7/8"ODF	1-3/8"ODF	
	FRF22W-30-9-11		1-1/8"ODF	1-3/8"ODF	
	FRF22W-38-9-11		1-1/8"ODF	1-3/8"ODF	
R404A	FRF404W-4-4-5	External Equalisation	1/2"ODF	5/8"ODF	1/4"ODF
	FRF404W-5-5-7		5/8"ODF	7/8"ODF	
	FRF404W-7.5-5-7		5/8"ODF	7/8"ODF	
	FRF404W-9-5-7		5/8"ODF	7/8"ODF	
	FRF404W-11-5-9		5/8"ODF	1-1/8"ODF	
	FRF404W-13-7-9		7/8"ODF	1-1/8"ODF	
	FRF404W-18-7-11		7/8"ODF	1-3/8"ODF	
	FRF404W-21-7-11		7/8"ODF	1-3/8"ODF	
	FRF404W-26-9-11		1-1/8"ODF	1-3/8"ODF	

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	42.67
CV-12	3/4	4100	41	178	40	9.7
CV-14	7/8	4100	41	178	40	108.5
CV-18	1-1/8	4100	54	213	40	188.52
CV-22	1-3/8	4000	67	238	40	32.8
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 Eliminater

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



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

4-Way Reversing Valves



DSF-9



DSF-20

Part No.	Connection (ODF)
DSF-4	Discharge: 5/16", Suction: 3/8"
DSF-9	Discharge: 3/8", Suction: 1/2"
DSF-11	Discharge: 1/2", Suction: 5/8"
DSF-11B	Discharge: 3/8", Suction: 5/8"
DSF-20	Discharge: 1/ 2", Suction: 3/4"
DSF-20B	Discharge: 1/ 2", Suction: 7/8"
DSF-34	Discharge: 3/4", Suction: 7/8"
DSF-50	Discharge: 7/8", Suction: 1-1/8"

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

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

* Solenoid Valve for R410a is available upon requests.



Soldering



Flare



Solenoid Valves

Part No.	Coil	Connection inch	Connection mm	Connection Flare inch/mm	Connection ODF inch	Connection ODF mm
EVR3	a.c/d.c	1/4	6	032F8107	032F1206	032F1207
		3/8	10	032F8116	032F1204	032F1208
EV6	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	1-5/8	–	–	042H1106	–
		1-5/8	–	–	042H1104	–
EVR40	a.c	2-1/8	–	–	042H1110	–
		1-3/8	–	–	042H1112	–

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) Adjust Range	High Pressure (Mpa) Adjust Range	Differential (Mpa) L.P.	Differential (Mpa) H.P.	Reset L.P.	Reset H.P.	Max. Work Pressure L.P.	Max. Work Pressure 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	Part No.	Danfoss Code 1/4 in 6mm SAE	Danfoss Code 1/4 in ODF	Danfoss Code 6mm ODF	Low Pressure (LP) Adjust Range (bar)	Low Pressure (LP) Differential Pressure (bar)	Reset Adjust Range (bar)	Reset Differential Pressure (bar)	Reset High Pressure	Reset Low Pressure (LP)	Contact System
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	–	
High	**KP5**	060-1171	-	060-1123	-0.2~5.0	0.4-1.5	-	-	Auto	–	SPDT
Dual	**KP15**	060-1173	060-1179	060-1177	–	–	8~32	1.8-6.0	Auto	–	SPDT
		060-1265	060-1180	060-1178-	–	–	8~32	Fixed 3	Manual	–	
Low	**KP2**	060-1264	060-1254	-	-0.2~7.5	0.7~4.0	8~32	Fixed 4	Auto	Auto	SPDT-Low Signal
		060-1120	-	-	0.2~7.5	0.7~4.0	8~32	Fixed 4	–	Manual	
		060-1241	-	-	-0.9~7.0	Fixed 0.7	8~32	Fixed 4	Manual	Manual	
Dual	**KP15**	060-1243	060-1299	-	-0.2~7.5	0.7~4.0	8~32	Fixed 4	Auto	Auto	SPDT-Low high Signal
		060-1245	060-1284	-	–	-	8~32	Fixed 4	Auto	Auto	

Pressure Controls



A Type B Type

Part No.	Application	Setting P.S.L OFF °C	Setting P.S.L Close	Setting Tolerance
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

05

FAN & MOTOR

QUALITY DELIVERED











YJFN Series
Condenser Fan Motor



EBM Series
Condenser Fan Motor



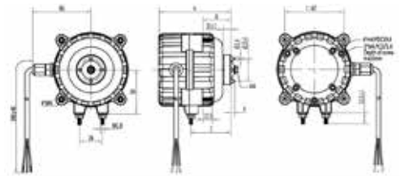
Part No.	Part No.	Part No.	Power (W)	Voltage (VAC)	Frequency (Hz)	Diameter (mm)	RPM	Rotation
YZF-5	YJFN205	EBM205	5	110V or 220V	50/60	170/200	1300/1550	CW or CCW
YZF-7	YJFN207	EBM207	7	110V or 220V	50/60	200/230	1300/1550	CW or CCW
YZF-10	YJFN310	EBM310	10	110V or 220V	50/60	200/230	1300/1550	CW or CCW
YZF-16	YJFN316	EBM316	16	110V or 220V	50/60	230/250	1300/1550	CW or CCW
YZF-18	YJFN318	EBM318	18	110V or 220V	50/60	230/250	1300/1550	CW or CCW
YZF-25	YJFN325	EBM325	25	110V or 220V	50/60	250/300	1300/1550	CW or CCW
YZF-34	YJFN334	EBM334	34	110V or 220V	50/60	300	1300/1550	CW or CCW



YJF Series
Condenser Fan Motor

EC Motor

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





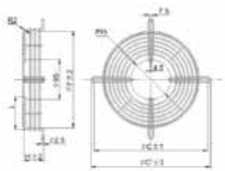
EC

Technical Data

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

Grid





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

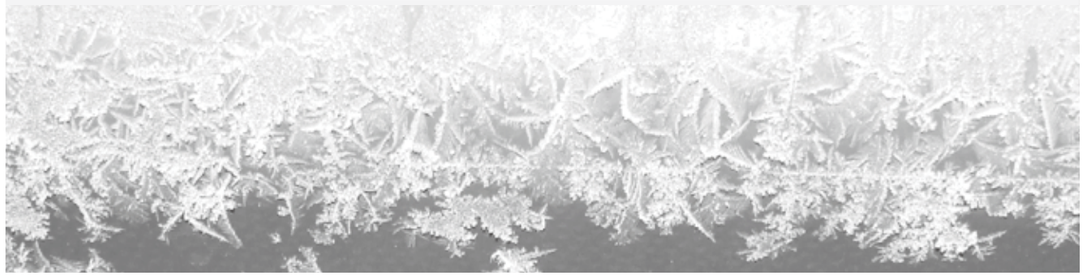
EC Axial Fan

Emphasizing on energy saving, enviromental protecrion, and high efficiency, we absorbed advanced technology to research and develop a new generation of EC series Fan motors that was based on our years-long experience manufacturing traditional AC series Fan motors. The new product has improved working efficiency greatly and is ideal for Air-Conditioning, purification, and refrigeration industries.





Model	Voltage (V)	Frequency (Hz)	Current Draw (A)	Power Input (W)	Speed /rpm (r/min)	Air Flow / max (m^3/h)	Static Pressure (Pa)	N.W. (Kg)	Noise Level dB(A)
FC2EC300/072/I-1PSPK	230	50/60	0.83	85	1500	2060	85	2.5	60
FC2EC300/092/I-1PSPK	230	50/60	1.36	170	2020	2780	140	2.4	70
FC2EC350/072/I-1PSPK	230	50/60	0.65	73	1040	2900	55	2.7	56
FC2EC350/092/I-1PSPK	230	50/60	1.34	165	1475	3780	100	3.2	67
FC2EC400/092/I-1PSPK	230	50/60	1.2	173	1080	4000	75	2.7	69
FC2EC400/102/III-1PSPK	230	50/60	2.3	500	1760	6000	180	3.2	79
FC2EC400/102/IX-3PSPK	400	50/60	0.9	500	1760	6000	180	3.2	79
FC2EC450/092/I-1PSPK	230	50/60	1.34	163	980	5600	74	2.7	68
FC2EC450/102/III-1PSPK	230	50/60	2.2	500	1500	7400	150	3.2	74
FC2EC450/102/IX-3PSPK	400	50/60	0.9	530	1520	7500	165	3.2	78
FC2EC500/102/III-1PSPK	230	50/60	2.2	500	1260	8200	120	1.5	70
FC2EC500/102/IX-3PSPK	400	50/60	1.0	630	1370	8400	150	2.7	72
FC2EC500/138/VII-1PSPK	230	50/60	3.2	740	1440	9100	180	3.2	74
FC6EC500/138/IV-3PSPK	400	50/60	2.1	1300	1770	11500	240	3.2	80
FC2EC560/138/VIII-1PSPK	230	50/60	3.2	735	1230	10200	150	12.8	72
FC6EC560/138/IV-3PSPK	400	50/60	2.1	1300	1520	13000	200	15.4	76
FC2EC630/138/VI-1PSPK	220	50/60	3.2	730	1020	12000	150	14.9	73
FC6EC630/138/VI-3PSPK	400	50/60	1.1	730	1000	12000	130	14.9	71
FC6EC630/188/IX-3PSPK	400	50/60	5	3520	1510	21800	320	38	82
FC2EC710/138/VIII-1PSPK	220	50/60	1.1	250	620	9800	60	15.8	60
FC6EC710/138/IV-3PSPK	400	50/60	0.67	400	730	11000	85	15.9	67
FC6EC710/188/IX-3PSPK	400	50/60	4.4	2875	1250	25000	240	34.8	80
FC2EC800/138/VIII-1PSPK	220	50/60	2.1	480	630	15000	75	16.8	65
FC6EC800/138/VIII-3PSPK	400	50/60	1.1	700	700	17500	100	18.8	65
FC6EC800/188/IX-3PSPK	400	50/60	3.9	2560	1020	26500	230	32	75
FC2EC910/138/VIII-1PSPK	220	50/60	2.8	630	620	20000	75	19.4	66
FC6EC910/138/VIII-3PSPK	400	50/60	1.1	700	640	22000	85	19.4	67
FC6EC910/138/IX-3PSPK	400	50/60	3.2	2100	885	31000	160	33.5	76



C Frame Shaded Pole Motor



SM102J



2J01289B



KM334



YJ607A-5C



SM672



SM998



MA-61103D-2Z



PSC4W(YZF3206)



YZF2261



D4612AAA21

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

Axial Flow Draft Fan

- **Operating Temperature:** -10°C to 70°C (Sleeve) -20°C to 80°C (Ball)
- **Operating Voltage:** 110V ranged from 85V to 125V; 220V ranged from 190V to 245V
- **Operating Humidity:** between 20% to 85%
- **Insulation Resistance:** 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

06

TEMPERATURE CONTROLLER & MULTMETERS

QUALITY DELIVERED









Thermometer



60D1.5

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



WT-2

-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)



TPM-10

-50°C~+70°C
Resolution: 0.1°C
Accuracy: ±1°C



WT-1

-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



PT1005

-40°C~+80°C
-40°F~+160°F



DST-50

-50°C~+150°C
(-58°F~+302°F)



RT-200

1m, Capillary:-40°C~+40°C
Accuracy: ±2°C
L*W*H: 56*58*25mm



ST50

-40°C~+150°C or -40°C~+270°C,
2"(50mm)dial, 48" Cable Back-up
Lithium Battery, Solar Powered



RF221

2-1/ 2", Capillary:
48", -40°C~+15°C / -40°F~+60°F,
Stainless Steel Frame



TPM-900

Power Voltage: 220VAC
Measuring Range: -30°C~110°C
Product Size: 60*25.7*32mm
Screen Size: 64*31mm



DT-2

Measuring Range:
Temperature: -50°C~+70°C
Humidity: 20%~99%
Power: DC1.5V



DT-3

Measuring Range:
IN: -30°C~+50°C
Out: -50°C~+70°C
Temperature Range: 20%~99%
Power: DC1.5V



BT-2

Indoor Temp:
-30°C~+50°C (-22°F~+122°F)
Outdoor Temp.:
-50°C~+70°C (-58°F~+158°F)
Humidity: 20%~99%

Microcomputer Temperature Controller



STC-200+

Technical Parameter

- Power Supply: 220VAC±10% (12VAC/DC, 24VDC optional)
- Power Consumption: <5W
- Temperature Measuring and Controlling Range: -50~+120ºC
- Display Resolution: 0.1 1when≥100ºC
- Accuracy: ±0.5ºC from ~ 10 to 85ºC; <±2ºC at others



STC-8080H

Technical Parameter

- 1Power Supply: 220VAC+10%/-15% 50/60Hz
- Power Consumption: <3W
- Temperature Measuring Range: -50~+99ºC
- Temperature Measuring Range: -40~+50ºC
- Resolution: 1ºC
- Accuracy: ±1ºC from~50 to 70ºC; <±2ºC at others



STC-9200

Technical Parameter

- 1Power Supply: 220VAC 50Hz
- Power Consumption: <5W
- Ambient Temperature: 0~+60ºC
- Relative Humidity: 20%~85% (No condensate)
- Accuracy: ±1ºC



EK3010/3020/3030

Technical Parameter

- Measuring Range: -40ºC~+99ºC
- Controlling Range: -40ºC~+85ºC
- Temperature Resolution: 0.1ºC/1ºC
- Accuracy: -30ºC~+50ºC, ±1C; others, ±2ºC
- Power Supply: 200VAC±10% 50Hz/60Hz
- Mounting Size: 71mm * 29mm
- Power: <5W



ETC-961

Technical Parameter

- Temperature Controlling Range: -30ºC~+85ºC
- Product Size: 75mm x 34.5mm x 58mm
- Mounting: 71mm x 29mm
- Measuring Range: NTC (-50ºC~+120ºC)
- Control Output: 10A/250VAC for compressor
- Power Supply: 220VAC±10%



ETC-974

Technical Parameter

- Temperature Controlling Range: -50ºC~+99ºC
- Product Size: 75mm x 34.5mm x 58mm
- Mounting: 71mm x 29mm
- Measuring Range: NTC (-50ºC~+120ºC)
- Control Output: 8A/250VAC for compressor
- Power Supply: 220VAC±10%

DR-400 Temperature Data Logger

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

Technical Parameter:

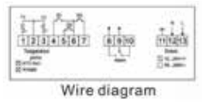
- Temperature Range: NTC: -40ºC~+120ºC, PT1000: -200ºC~+650ºC
- Display: LCD, two lines, backlight adjustable
- Input: Two NTC probes (PT1000 optional), Three-digit input (NO or NC)
- Recording Channel: Two (one optional) channels
- Accuracy: NTC: +/-0.5ºC (-40ºC~+80ºC); 1ºC (other range)
  PT1000: +/-0.3ºC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



DR-400



Installing Size



Wire diagram

Feature:

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



Printing Report Example

Thermostat Guard



Part No.	Dimensions (mm)	White-rodgers	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

Electric Control Box



ECB-5060

Technical Parameters:

- Power Supply: Three-phase five-wire (or three-phase four-wire), 380VAC ±10%, 50Hz
- Temperature Measuring and Controlling Range: -50~+50ºC
- Accuracy: ±1ºC
- Resolution: 0.1
- Compressor Start-up Delay Protection Time: 0~120 minutes (Adjustable)
- Capacity: 5HP, 10HP, 15HP



ECB-1000Q

Features:

- Big display area shows all necessary information

Technical Parameters:

- Power Supply: 220VAC±10%, 50/60Hz
- Power Consumption: Less than 5W
- Temperature Measuring Range: -45ºC~99ºC
- Accuracy: ±1ºC
- Temperature Controlling Range: -40ºC~90ºC
- Resolution: 0.1ºC/1ºC OR 1ºF
- Relay Capacity of Compersor: Max. capacity for comperssor: 3HP Max. capacity for fan: 500W Max. capacity for light: 300W
- Defrost: 8A/220VAC
- Alarm: 5A/220VAC
- Work Temperature: -5ºC~60ºC
- Sensor Type: NTC(10K /25C, B-3435K)



ECB-5080

Spercification:

- Product size: 300x420x150mm

Technical Parameters:

- Power Supply: Three-phase five-wire (or three-phase four-wire), 380VAC ±10%, 50Hz
- Temperature Measuring and Controlling Range: -50~+50ºC
- Accuracy: ±1ºC
- 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

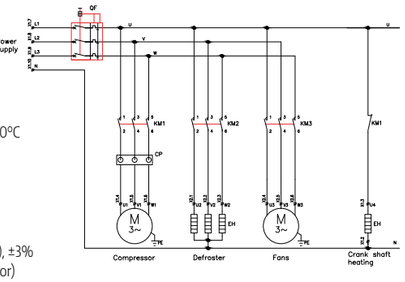


ECB2010/2020 ECB2030

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

Technical Parameters:

- Power Supply: three-phase-four-wire 380VAC±10%/50Hz
- Temperature Measuring Range: -45ºC~100ºC
- Temperature Accuracy: ±1ºC
- Temperature Control Range: -40ºC~85ºC
- Temperature Resolution: 0.1ºC
- 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: 0ºC~40ºC
- Sensor: NTC (thermistor) (10kΩ/25ºC, B value 3435K)
- Communication Interface: RS485

07

SERVICE TOOL

QUALITY DELIVERED









Vacuum Pump

* **Intake Fitting Can Select:** 1/4 SEAa1/2A CME or 3/8SAE.



Part No.	Capacity at 220V/50Hz	Capacity at 110V/60Hz	Ultimate Vacuum		Motor Power (hp)	Motor Speed (rpm)	Intake Fitting (inch)
			Partial Pressure	Total Pressure			
VP-0.5A	1 CFM, 28 L/min	1.2 CFM, 34 L/min	2 Pa	150 micron	1/6	1440	1/4" SAE
VP-1A	2 CFM, 57 L/min	2.4 CFM, 68 L/min	2 Pa	150 micron	1/4	1440	1/4" SAE
VP-1.5A	3 CFM, 85 L/min	3.6 CFM, 102 L/min	2 Pa	150 micron	1/4	1440	1/4" SAE
VP-2A	4 CFM, 113 L/min	4.8 CFM, 136 L/min	2 Pa	150 micron	1/3	1440	1/4" SAE
VP-3A	6 CFM, 170 L/min	7.2 CFM, 204 L/min	2 Pa	150 micron	1/2	1440	1/4" SAE
VP-4A	8 CFM, 226 L/min	9.6 CFM, 272 L/min	2 Pa	150 micron	3/4	1440	1/4" SAE
2VP-0.5C	1 CFM, 28 L/min	1.2 CFM, 34 L/min	2x10-1 Pa	150 micron	1/4	1440	1/4" SAE
2VP-1C	2 CFM, 57 L/min	2.4 CFM, 68 L/min	2x10-1 Pa	150 micron	1/3	1440	1/4" SAE
2VP-2C	4 CFM, 113 L/min	4.8 CFM, 136 L/min	2x10-1 Pa	150 micron	1/2	1440	1/4" SAE
2VP-3C	6 CFM, 170 L/min	7.2 CFM, 204 L/min	2x10-1 Pa	150 micron	3/4	1440	1/4" SAE
2VP-4C	8 CFM, 226 L/min	9.6 CFM, 272 L/min	2x10-1 Pa	150 micron	3/4	1440	1/4" SAE

Super Vacuum Pump

NEW



Part No.	Capacity at 220V/50Hz	Capacity at 110V/60Hz	Ultimate Vacuum		Motor Power (hp)	Motor Speed (rpm)	Intake Fitting (inch)
			Partial Pressure	Total Pressure			
VP115	1.5 CFM, 42 L/min	1.8 CFM, 51 L/min	2 Pa	150 micron	1/3	1440	1/4" SAE
VP125	2.8 CFM, 79 L/min	3.4 CFM, 96 L/min	2 Pa	150 micron	1/3	1440	1/4" SAE
VP130	3.0 CFM, 85 L/min	3.6 CFM, 102 L/min	2 Pa	150 micron	2/5	2880	1/4" SAE
VP145	4.5 CFM, 127 L/min	5.4 CFM, 153 L/min	2 Pa	150 micron	1/2	2880	1/4" SAE
VP165	6.5 CFM, 184 L/min	7.8 CFM, 221 L/min	2 Pa	150 micron	3/4	2880	1/4" SAE
VP185	8.0 CFM, 226 L/min	9.6 CFM, 272 L/min	2 Pa	150 micron	3/4	2880	1/4" SAE
VP1100	10.0 CFM, 283 L/min	12 CFM, 340 L/min	2 Pa	150 micron	3/4	2880	1/4" SAE
VP215	1.5 CFM, 42 L/min	1.8 CFM, 51 L/min	2x10-1 Pa	150 micron	1/2	1440	1/4" SAE
VP230	3.0 CFM, 85 L/min	3.6 CFM, 102 L/min	2x10-1 Pa	150 micron	3/4	2880	1/4" SAE
VP245	4.5 CFM, 127 L/min	5.4 CFM, 153 L/min	2x10-1 Pa	150 micron	4/5	2880	1/4" SAE
VP265	6.5 CFM, 184 L/min	7.8 CFM, 221 L/min	2x10-1 Pa	150 micron	1	2880	1/4" SAE
VP285	8.0 CFM, 226 L/min	9.6 CFM, 272 L/min	2x10-1 Pa	150 micron	1	2880	1/4" SAE
VP2100	10.0 CFM, 283 L/min	12 CFM, 340 L/min	2x10-1 Pa	150 micron	1	2880	1/4" SAE

Vacuum Pump (Lithium Battery)

NEW



Model	1-Stage				2-Stage			
	VI-1DLi	VI-1.5DLi	VI-2DLi	VI-3DLi	2VI-1DLi	2VI-1.5DLi	2VI-2DLi	2VI-3DLi
Flow Rate (CFM)	2	3	4	6	2	3	4	6
Ultimate Vacuum (Micron)	150	150	150	150	15	15	15	15
Motor Power (W)	150	180	250	370	200	370	370	550
Intake Fittings	1/4" Flare	1/4" & 3/8" Flare	1/4" & 3/8" Flare	1/4" & 3/8" Flare	1/4" Flare	1/4" & 3/8" Flare	1/4" & 3/8" Flare	1/4" & 3/8" Flare
Dimensions (mm)	274×92×196	364×118×283	364×118×283	364×118×283	274×92×196	364×118×283	364×118×283	364×118×283
Oil Capacity (ml)	250	330	330	500	200	330	500	500

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



Model		RR12L (R32)			RR24L (R32)		
Refrigerants		III: R-12, R-134a, R-401C, R-406A, R-500,1234YF IV: R-22, R-401A, R-401B, R-402B, R-407C, R-407D, R-408A,R-409A, R-411A, R-411B, R-412A, R-502, R-509 V: R-402A, R-404A, R-407A, R-407B, R-410A, R-507, R-32					
Power		220-240VAC 50-60Hz 110-120VAC 60Hz					
Motor		3/4HP			1HP		
Motor Speed		1450RPM/1750RPM			1750RPM		
Maximal Curret Draw		5A			10A		
Compressor		Oil-less, Air-cooled, Piston					
High Pressure Shou-off		38.5bar/3850KPa (558psi)					
		III	IV	V	III	IV	V
Recove Ry Rate	Vapor	0.23kg/min	0.25kg/min	0.26kg/min	0.46kg/min	0.50kg/min	0.52kg/min
	Liquid	1.57kg/min	1.81kg/min	1.85kg/min	3.14kg/min	3.62kg/min	3.70kg/min
	Push / Pull	4.64kg/min	5.57kg/min	6.22kg/min	7.47kg/min	8.37kg/min	9.95kg/min
Operating Temperature		0°C-40°C					
Dimensions		418mm×250mm×345mm					
Net Weight		14kg			15kg		



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

Recovery Machine

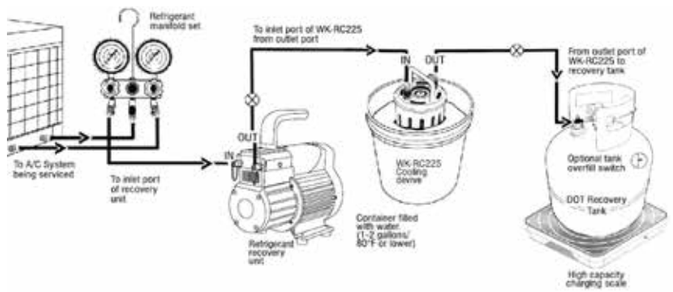
WK-225



Part No.	WK-225			
Part No.	Push/Pull	Liquid	Vapor	High Temp Vapor (°104F)
Recovery Rate	kg/min			
R22	14.3	4.02	0.27	0.39
R134a	11.64	3.54	10.22	N/A
R407C	13.22	4.31	80.24	N/A
E410A	14.38	5.42	30.319	0.37

Refrigerant Cooling Device
WK-RC225





Manifold



FC-136G



FC-R136G



FC-N136G



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-N136G	aluminium body, sight glass, 2 gauges, with rubber boots, 336RYB hose.
FC-436G	aluminium body, sight glass, 2 gauges, 336RYB hose.
FC-536G	brass body, sight glass, 2 gauges, 336RYB hose.
FC-636G	brass body, 2 gauges, 336RYB hose.

* Please indicate refrigerants, max 4 types in each gauge. * Please indicate length of hose - 90cm,150,180cm and more.

Digital Manifolds



FC-E301

Features:

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

Description	2Valve Digital manifolds + 3 pcs of charge hose. Working pressure, 800PSI, Burst. 4000PSI + 1pc of 9V Battery + 2pcs of temperature sensor + 1 pc of vacuum sensor + 1pc of suitcase + 1 set of QC-L/QC-H + 1 pc of can tap valve + 1 set of Hose-seal, Gasket & Core Kit

R1234YF Manifolds

NEW



FC60-1234MK

Features:

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-7040



RCS-N9030
with auto-charge

Part No.	RCS-7040	RCS-N9030
Capacity	100KGS/220LB	100KGS/220LB
Accuracy	±0.5% of reading ±1 least	±0.5% of reading ±1 least
Resolution	±5g/0.010 IB/0.25 OZ	±0.25 OZ/5G
Platform Size	223mm x 223mm	223mm x 223mm
Power	5 x 1.5V alkaline battery(7.5VDC)	5 x 1.5V alkaline battery(7.5VDC)
Battery Life	30 hours continuous use	60 hours continuous use

Refrigerant Charging Scale



RCS-220C



RCS-220V



RCS-320C



RCS-320V

Model	Max Capacity	Resolution	Accuracy	Power Supply	Operating Temperature	Storage Temperature	Overall Size
RCS-220C	100kg/220lb	5g/0.2oz	±0.5% reg + 10g	6LR61 9V	-10°C~40°C/14°F~104°F	-15°C~50°C/5°F~122°F	227 x 227 x 70mm/ 8.9 x 2.8 x 2.8 inch
RCS-220V	100kg/220lb	5g/0.2oz	±0.5% reg + 10g	6LR61 9V	-10°C~40°C/14°F~104°F	-15°C~50°C/5°F~122°F	227 x 227 x 70mm/ 8.9 x 2.8 x 2.8 inch

Model	Max Capacity	Resolution	Accuracy	Power Supply	Operating Temperature	Storage Temperature	Overall Size	Max Working Pressure	IN/OUT Fittings
RCS-320C	100kg/220lb	5g/0.2oz	±0.05% rdg+10g	6 AAA alkaline battery	-10°C~40°C/ 14°F~104°F	-15°C~50°C/ 5°F~122°F	270 x 270 x 73mm	-	-
RCS-320V	100kg/220lb	5g/0.2oz	±0.05% rdg+10g	6AAA+6AA alkaline battery	-10°C~40°C/ 14°F~104°F	-15°C~50°C/ 5°F~122°F	270 x 270 x 73mm	500Psig (34.5Bar)	1/4SAE Male

Charging Hose



336RYB



M-336RYB



E-336RYB

Part No.	Size	Connection	Description
336RYB-B	3-36"	1/4" SAE	600~3000psi, for R22, R134a, R404a, R407c, R507
360RYB-B	3-60"	1/4" SAE	
372RYB-B	3-72"	1/4" SAE	
M-336RYB-B	3-36"	1/4" SAE	600~3000psi, for R22, R134a, R404a, R407c, R507, with ball valves in the middle of hose.
M-360RYB-B	3-60"	1/4" SAE	
M-372RYB-B	3-72"	1/4" SAE	
E-336RYB-B	3-36"	1/4" SAE	600~3000psi, for R22, R134a, R404a, R407c, R507, with ball valves in the end of hose.
E-360RYB-B	3-60"	1/4" SAE	
E-372RYB-B	3-72"	1/4" SAE	
336RYB-C	3-36"	1/4" or 5/16" SAE	800~4000psi, for R32, R410a
360RYB-C	3-60"	1/4" or 5/16" SAE	
372RYB-C	3-72"	1/4" or 5/16" SAE	
M-336RYB-C	3-36"	1/4" or 5/16" SAE	800~4000psi, for R32, R410a with ball valves in the middle of hose.
M-360RYB-C	3-60"	1/4" or 5/16" SAE	
M-372RYB-C	3-72"	1/4" or 5/16" SAE	
E-336RYB-C	3-36"	1/4" or 5/16" SAE	800~4000psi, for R32, R410a with ball valves in the end of hose.
E-360RYB-C	3-60"	1/4" or 5/16" SAE	
E-372RYB-C	3-72"	1/4" or 5/16" SAE	

* 1/ 2" ACME or other conncetion size available upon custome' requirements

Color-coded Pressure and Compound Gauge



RG-250 RG-500



250-GF 500-GF



250B-GF 500B-GF



78 refrigerants
PG-30L PG-30H

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
PG-30L	R22, R290, R32, R404A, R407C, R134A, R410A... Build-in 78 refrigerants 1/8NPT, 0~500psi, Mpa, kPa, bar, psi, kgf/cm2,mmHg
PG-30H	R22, R290, R32, R404A, R407C, R134A, R410A... Build-in 78 refrigerants 1/8NPT, 0~800psi, Mpa, kPa, bar, psi, kgf/cm², mmHg

Automotive Quick Coupler

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



QC-12
1/4" SAE



QC-15
1/4" SAE



QX-12
1/4" SAE



QX-15
1/4" SAE



QC-L
Connection: M14×1.5
1/4" male nut



QC-H
Connection: M14×1.5
1/4" male nut



QX-L
Connection: M14×1.5
1/4" male nut



QX-H
Connection: M14×1.5
1/4" male nut



QC-LA
1/4" SAE



QC-HA
1/4" SAE



QX-LA
1/4" SAE



QX-HA
1/4" SAE



QL-1234 / QH-1234
Connection: M12*1.5
1/4" male nut
Application: R1234fy



QXL-1234 / QXH-1234
Connection: M12*1.5
1/4" male nut
Application: R1234fy

Hose-seal, Gasket & Core Kit



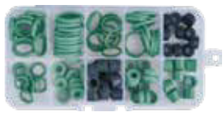
CH-236

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



CH-237

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

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

CH-1213AL	1	Valve Core remover
CH-9520C	10	Valve Core
OGB79583P1	10	1/4" SAE Depressor
OR9134-4	10	R410 5/16" SAE Hose Gasket
OR501-3	30	R12 1/4" SAE Hose Gasket
OGB79583	10	1/4" SAE Depressor

Dye and Oil Injector



FC-UV01L FC-UV02L

Oil Charging Pump



PCO-1 PCO-2 PCO-4

Valve Core Tool



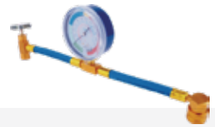
VC15



VC183

Automotive Refrigerant Charging Tools

FC-AL801G70



FC-BR801G50



FC-BR801G70



Automotive Adapter Kit



FC-01A(CH-135) FC-01B(CH-138)

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

Single Gauge Valve



FC-466G FC-467G FC-468G

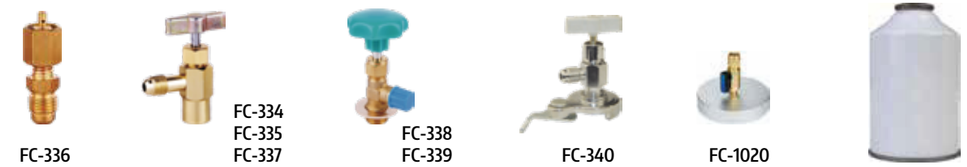
Part No.	Description
FC-466G	Charging and testing unit
FC-467G	Aluminium body
FC-468G	Aluminium body with sight glass



FC-470 FC-471L FC-471H

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

Can Tap Valve



FC-336 FC-334 FC-335 FC-337 FC-338 FC-339 FC-340 FC-1020

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

Quick Coupler



WX-02 Connection 1/4"
Rotate Quick Coupler

Ball Valve for Charging-hose



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

Piercing Valve



PV-1



PV-341

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

Refrigerant Gas Leak Detector

LD-200

R1234yf / R290 / R600a / R32

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



LD-C02

CO2



- LD-CO2 is the most technologically advanced of its kind. The fully automatic LD-CO2 low power requirements, small size and high sensitivity combine to create a tool which is easy to handle and ultra effective at locating even the most difficult-to-find leaks.
- Refrigerant: R-744, CO2
- Sensitivity: 400-4000ppm
- Power Supply: Rechargable Lithium battery 3000mAh
- Warm-up Time: 30s
- Response Time: <3s
- Certificate & Approval: CE Rohs, SAE J2791, SAE J2913

HLD-101

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





HLD-102



HLD-201



HLD-202

	HLD-102	HLD-201	HLD-202
Dimensions	17CMx6CMx3.8CM	22.9CMx6.5CMx6.5CM	22.9CMx6.5CMx6.5CM
Batteries	2x1.5V' AA'	2x1.5V' AA'	2x1.5V'AA'
	Alkaline Batteries (3VDC)	Alkaline Batteries (3VDC)	Alkaline Batteries (3VDC)
Battery Life	40hours	40hours	40hours
Sensitivity	<3G/year (0.1 oz/yr)	<3G/year (0.1 oz/yr)	<3G/year (0.1 oz/yr)
Sensor Lifetime	Approx. 30hours	Approx. 30hours	Approx. 30hours
Operation Temperature	+32~+122°F(0~+50°C)	+32~+122°F(0~+50°C)	+32~+122°F(0~+50°C)
Warm Up Time	<2SEC	<10 SEC	<10 SEC
Respinse Time	Instantaneous	Instantaneous	Instantaneous
Reset Time	Instantaneous	Instantaneous	Instantaneous
Probe Length	12" (30cm)	14" (33.5cm)	14" (33.5cm)

Clamp Meter



FC-2017



UT-202



UT-266



FC-260D

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/2M/20MΩ ±(1.0%rdg+3dgts)

Digital Multimeter



UT-33D



UT-139C



FC-2010



FC-838

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/10	6V/60V/600V	600Ω/6KΩ/60KΩ/600KΩ/6MΩ/60MΩ	600mV/6V/60V/600V
FC-2010	A2m/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



UT-300A
Infrared Thermometer

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



AM-4836V

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



LM-60
Distantance Meter

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



KS-7115
Capacitance Testers

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

Mini Series

Mini Infrared Thermometer



UT300S

Temperature:
-32°C~400°C

Mini Temperature & Humidity Meter



UT333

Humidity:
0~99%RH

Temperature:
-10~60°C

Mini Sound Meter



UT353

Noise:
30~130dB

Mini Anemometer





UT363

Wind Speed:
0~30m/s

Digital Programmable Vacuum Meter



FC-VG89

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

Tubing Tool Kit

* Please order according to packing condition



12 PCS/CTN
CT-275L



10 PCS/CTN
CT-278L



10 PCS/CTN
CT-808FT-L



5 PCS/CTN
CT-404A-L



10 PCS/CTN
WK-809AM



5 PCS/CTN
CT-100



5 PCS/CTN
CT-300



5 PCS/CTN
CT-999



10 PCS/CTN
CT-519FT-L



10 PCS/CTN
CT-808AM-L

Part No.	Description	CapaCity
CT-275L	Flaring & swaging tool kit	1/8", 3/16", 1/4", 5/6", 1/ 2", 5/8", & 3/4", O.D. tubing and 5 swaging adaptors which cover 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", & 3/4' O.D.
CT-278L	CT-275 & CT274 & CT-122	see above
CT-808FT-L	flaring tool and CT-532 & CT-207	3/16", 1/4", 5/16", 3/8", 1/ 2", 5/8", & 3/4" O.D. tubing and 5mm, 6mm, 8mm, 10mm, 12mm, 16mm & 19mm O.D. tubing
CT-400A-L	Hydraulic expander & flaring tools	3/16", 1/4", 5/16", 3/8", 1/ 2", 5/8", 3/4" & 7/8" O.D. tubing
WK-809AM	Flaring Tool	For inch and metric: 6mm, 1/4", 5/16"(8mm), 3/8", 10mm, 12mm, 1/ 2", 5/8"(16mm) & 3/4" (19mm) O.D.
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, 22mmm, 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

New Tubing Tool Kit

NEW



ST-519FT

Description

1/4", 3/8", 1/2", 5/8"(16mm), 3/4"(19mm)

Optional Flaring Clamps: 5/16"(8mm), 6mm, 9mm, 10mm, 12mm



ST-100A

Description

For Inch:
3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8"O.D.Tubing



ST-806FT-L

Description

For Inch and Metric:
1/4", 5/16", 3/8", 1/2", 5/8", 3/4"& 6, 9, 10, 12, 16, 19mm



ST-E809AM-L

Description

Metric & Inch 2 in 1:
6mm, 1/4", 9mm, 3/8", 10mm, 12mm, 1/2", 5/8"(16mm) & (19mm)



ST-R999

Description

For Inch:
1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8"
For Metric:
6, 8, 10, 12, 16, 19, 22mm

In Blow-mold Carrying Case
Aluminum Wheel

New Tube Cutter



ST-428

Description

Roller Type Tube Cutter

For Φ3/16" to 1-1/8"(4-28mm)



ST-532

Description

Roller Type Tube Cutter

For Φ3/16" to 1-1/4"(5-32mm)



ST-432S

Description

Smart Spring Tube Cutter

For Φ3/16" to 1-1/4"(4-32mm)



ST-532S

Description

Smart Spring Tube Cutter

For Φ3/16" to 1-1/4"(5-32mm)



ST-650S

Description

Smart Spring Tube Cutter

For Φ 1-4" to 2"(6-50mm)

New Tube Bender



ST-612A



ST-N364A-08

Part No.	Description
ST-612A	For 1/4", 3/8" & 1/2" O.D.Tubing (5-32mm)
ST-N364A-06	use for 3/8" O.D.Tubing
ST-N364A-08	use for 1/2" O.D.Tubing
ST-N364A-10	use for 5/8" O.D.Tubing
ST-N364A-12	use for 3/4" O.D.Tubing
ST-N364A-14	use for 7/8" O.D.Tubing

Flaring & Swaging Tools


40 PCS/CTN
CT-193


50 PCS/CTN
CT-94


50 PCS/CTN
CT-95


28 PCS/CTN
CT-195


30 PCS/CTN
CT-525F


24 PCS/CTN
CT-622

Part No.	Description	CapaCity
CT-193	Set of swaging punchs	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

* Please order according to packing condition



Part No.	Description
CT-127	For 1/8"-5/8" O.D
220 PCS/CTN	



Part No.	Description
CT-174	For 3/8"-1-1/8" O.D
100 PCS/CTN	



Part No.	Description
CT-274	For 1/8"-1-1/8" O.D
72 PCS/CTN	



Part No.	Description
CT-312	For 1/4"-1-5/8" O.D
56 PCS/CTN	



Part No.	Description
CT-107	For 1/4"-2" O.D
42 PCS/CTN	

Tube Cutter (Roller Type)

* Please order according to packing condition



Part No.	Description
CT-319	For 1/8"-3/4" O.D
120 PCS/CTN	



Part No.	Description
CT-428	For 3/16"-1-1/8" O.D
78 PCS/CTN	



Part No.	Description
CT-532	For 3/16"-1-1/4" O.D
32 PCS/CTN	



Part No.	Description
CT-650	For 1/4"-2" O.D
32 PCS/CTN	



Part No.	Description
CT-670	For 1/4"-2-3/4" O.D
15 PCS/CTN	

Lever Type Tube Bender


CT-N368-180 CT-364A-12

* Please order according to packing condition

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

Tube Bender


CT-102

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

Electric Cordless Flaring Tool

CT-E806AM-L 5 PCS/CTN

Part No.

WK-E806AM+WK-532 +CT-207+Spare battery+Charger(9.6V) +2 Steel bar

Description

For inch: 1/4", 5/16", 3/8", 1/ 2", 5/8" & 3/4" O.D. Tubing 6mm, 8mm, 10mm, 12mm, 16mm & 19mm O.D. Tubing Packed in hand carrying plastic case.



Other Tubing Tools


PTC-01 PTC-02 CT-207 CT-208 CT-352 CT-351

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


CT-201B CT-122 CT-123 CT-501 CT-502 CT-503

Part No.	Description
CT-201B	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

Tee-Extractor Sets



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


CT-T800 5 PCS/CTN

Hydraulic Hose Compressing Tools



CT-700 5 PCS/CTN




Heavy Duty Compressing Tools Fast & Convenient

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

08

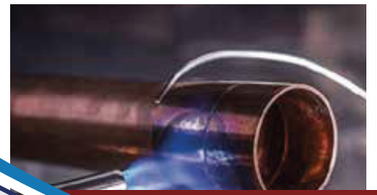
WELDING TOOL

QUALITY DELIVERED









Welding Gas



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



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



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

Welding Torch

* Please order according to packing condition

T-AM



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

T-A



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

T-AS



- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Reinforced Nozzle
- Self-igination
- 360º swivel tube

T-2B



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

T-2BA



- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Reinforced Nozzle
- Self-igination
- 360º swivel tube
- Double tube flame, welded large copper tube.

T-3B



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

T-B



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

T-CA



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

T-CA-FB



- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Reinforced Nozzle
- Metal Iginator
- 1.5 meters hose.

T-C2A-2F



- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Adjustable Flame
- Self-igination.
- 1.5 meters hose.
- Switch to control single tube flame or double tube flame.
- 2 in 1 torch for 6~22mm(single flame) and 16~38mm(dual flame).

T-C2A-2FB



- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Reinforced Nozzle
- Metal Iginator
- 1.5 meters hose.
- Switch to control single tube flame or double tube flame.
- 2 in 1 torch for 6~22mm(single flame) and 16~38mm(dual flame).

T-CD



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

BTM-7010

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



BTM-7012

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



BTS-8071

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Easy to hold
- Self-ignation
- 360° swivel tube



BTS-8090

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Easy to hold
- Self-ignation
- 360° swivel tube



BTS-8096

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Easy to hold
- Self-ignation
- 360° swivel tube



HB-875B

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Easy to hold
- Self-ignation
- 360° swivel tube



MRS-7014B

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Easy to hold
- Self-ignation
- 360° swivel tube



T-DS

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Easy to hold
- Self-ignation
- 360° swivel tube



T-8000

- Suggest to use with Mapp, Propane cylinder with CGA600 connection.
- Easy to hold
- Self-ignation
- 360° swivel tube



Welding Torch

* Please order according to packing condition



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



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



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



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



H02-6
Switzerland Type Welding Torch
20 PCS/CTN



H01-6
Japanese Type Welding Torch
20 PCS/CTN

Tool kit



HCW-1411

Content	
1 pc empty cylinder 2L for Oxygen	1 pc of Welding Torch
1 pc Mapp gas (optional)	1 set of 1.5m Twin hose
1 pc of Oxygen Regulator	2pcs of Welding Nozzle
1 pc of Fuel gas Regulator	1 pc of Sparker
1 pc 2L of Oxygen Empty Regulator	1 pc Plastic Case

HCW-1704



Content:

1. Oxygen Cylinder-4L
2. Oxygen Switch
3. Oxygen Pressure Reducer
4. Oxygen Pressure Gauge
5. Oxygen Crossover
6. Fuel Ges Cylinder-4L
7. Fuel-gas Pressure Reducer
8. Welding Torch
9. Oxygen Hose (red)
10. Oxygen Hose (black)
11. Fuel-gas Crossover

HCW-11

Content:

1. Oxygen Cylinder -2L
2. Fuel Gas Cylinder -0.6L with Connection ZG1/4"-19
3. Inner Diameter of Connection Hose - 4mm
4. With Anti-backfire Device
5. Torch for Welding Purpose
6. Plastic Case





HCW-111

Content:

1. Oxygen Cylinder -2L
2. Fuel Gas Cylinder -0.6L with Connection ZG1/4"-19
3. Inner Diameter of Connection Hose - 4mm
4. With Anti-backfire Device
5. Torch for Welding Purpose
6. Alum-Alloy Case



HCW-22

Content:

1. Oxygen Cylinder -2L
2. Fuel Gas Cylinder -0.6L
3. Inner Diameter of Connection Hose - 4mm
4. With Anti-backfire Device
5. Torch for Welding & Cutting Purpose
6. Plastic Case





HCW-122

Content:

1. Oxygen Cylinder -2L
2. Fuel Gas Cylinder -0.6L
3. Inner Diameter of Connection Hose - 4mm
4. With Anti-backfire Device
5. Torch for Welding & Cutting Purpose
6. Alum-Alloy Case

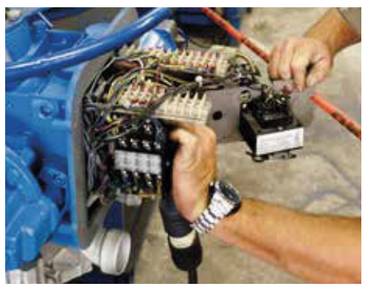


09

ELECTRICAL PARTS

QUALITY DELIVERED









BC Series Run Capacitors (CBB65)

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



Specifications:

Part No.	3(μf)~80(μf)
Reference Standard	GB/T 3667.1-2005, IEC 60252-1, UL810
Climatic Category	40/70/21
Capacitance Tolerance	±5%, ±10%, ±15%
Dissipation Factor	≤0.002(100Hz, C≤10μF) ≤0.006(100Hz, C≤33μF) ≤0.008(100Hz, C>33μF)

Insulation Resistance (IR×CN)	≥3000MΩ	
Voltage Proof	Between Terminals	2Un(2s)
	Between Terminals and Case	2000V(60s)
Rated Voltage (UN)	250/300/400/450/500/560V	
Rated Frequency (fN)	50/60Hz	
Class of Operation	Class C (3000h)	
Class of Safety Protection	S1(P1)	
Flame Retardant Grade	UL94V-0	
Leading-out Structure	Terminal or Wire	
Safety Approvals	CQC, TüV, UL	
Idnductance	16-60μH	
Storage Temperature	-40°C~70°C	
Capacitance Range (CN)	1μF~110μF	
Maximum Permissible Operating Voltage	1.1UN	

CBB61 Series Run Capacitors

Feature:

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



Specifications:

Reference Standard	GB/T 3667.1-2005, IEC 60252-1
Climatic Category	40/70/21
Capacitance Tolerance	±5%, ±10%, ±15%
Dissipation Factor	≤0.002(100Hz, 20°C)
Insulation Resistance (IR×CN)	≥3000MΩ

Voltage Proof	Between Terminals	2Un(2s)
	Between Terminals and Case	2000V(60s)
Rated Voltage (UN)	450/500V	
Rated Frequency (fN)	50/60Hz	
Class of Operation	Class C (3000h)	
Class of Safety Protection	S0(P0)	
Flame Retardant Grade	UL94V-0	
Leading-out Structure	Terminal or Wire	
Safety Approvals	CQC, TüV	
Storage Temperature	-40°C~70°C	
Capacitance Range (CN)	0.5μF~35μF	
Maximum Permissible Operating Voltage	1.1UN	

CBB Series Run Capacitors (CBB60)

A Type



B Type



C Type



Specifications:

Part No.	4(μf)~30(μf)
Reference Standard	GB/T 3667.1-2005, IEC 60252-1, UL810
Climatic Category	40/70/21, 40/85/21
Capacitance Tolerance	±5%, ±10%, ±15%
Dissipation Factor	≤0.002(100Hz, C≤10μF) ≤0.006(100Hz, C≤35μF) ≤0.008(100Hz, C>35μF)

Insulation Resistance (IR×CN)	≥3000MΩ	
Voltage Proof	Between Terminals	2Un(2s)
	Between Terminals and Case	2000V(60s)
Rated Voltage (UN)	250/300/400/450/500/560V	
Rated Frequency (fN)	50/60Hz	
Class of Operation	Class C (3000h), Class B (10000h)	
Class of Safety Protection	S0(P0)	
Flame Retardant Grade	UL94V-0	
Leading-out Structure	Terminal or Wire	
Safety Approvals	CQC, TüV, UL	
Idnductance	10-60μH	
Storage Temperature	-40°C~70°C,-40°C~85°C	
Capacitance Range (CN)	1μF~110μF	
Maximum Permissible Operating Voltage	1.1UN	

MS Series Start Capacitors (CD60)



Feature:

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

Specifications:

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

Super Starters

SPP-5	
BRAND	REFERENCE PART NO.
MARS	32701
ROBERTSHAW	600-052
SUPCO	SPP5
GEMLINE	HS600

SPP-6	
BRAND	REFERENCE PART NO.
MARS	32702
ROBERTSHAW	600-057
SUPCO	SPP6
GEMLINE	HS650

SPP-8	
BRAND	REFERENCE PART NO.
KICKSTART	TO5
SUPCO	SPP8
A-1	WSX-1

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

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



Potential Relay and Start Capacitor

- 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



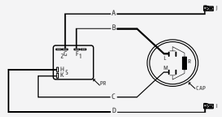


SEC-U1 / U2 / U3

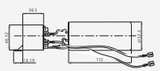
General Specifications:

- 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

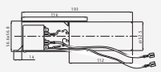
WIRING DIAGRAM



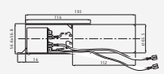
SEC -U1



SEC -U2



SEC -U3



	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	52.37mmx111.12mm	52.37mmx111.12mm	65.5mmx111.12mm

Two Pole Contactors



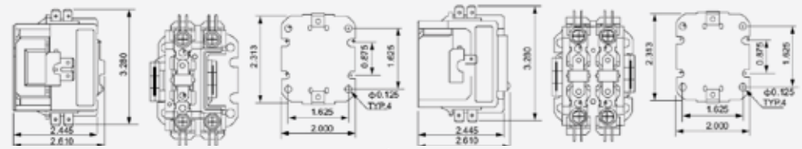
Products Details

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

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

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

XKJL 1-2P-30A-24V



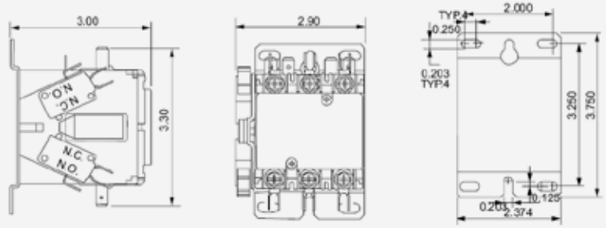
1.5 & 2 pole (shown in inches)

Three Pole Contactors



20-40 FLA 3-pole

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



Products Details

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

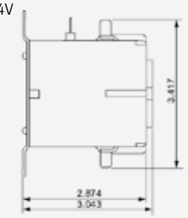
- **Electrical Contact Ratings:** 20A-90A
- **Electrical Coil Ratings:** 24-600V life rating, 100,000 & 250,000 cycle options.
- **Options:** 1, 2, 3, 4 pole fits 24,120 240 and 480 VAC coils wide range of electrical ratings screw, box or pressure plate connections NEMA mounting base.
- NO/NC end Switch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

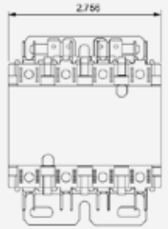
Four Pole Contactors

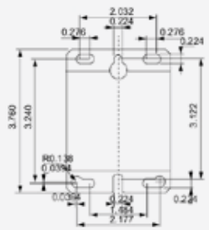
Outline Dimensions: 25-40FLA, 4 pole (shown in inches)

XKJL 1-4P-30A-24V

20-40 FLA 3-pole









1-4P-30A

Products Details

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

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

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



4TM

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

PTK-2 Overload Protector



PTK-2

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

Time Delay



QD-068

QD-068 Delay On Make

- 18-240VAC/VDC
- 1.5Amp
- 15Amp.inrush
- SPST.N.O
- Adjstable delays from 0.03 to 10min (1.8 to 600 seconds)



QD-072

QD-072 Delay On Break

- 18-240VAC/VDC
- 1.5Amp
- 15Amp.inrush
- SPST.N.O
- Adjstable delays from 0.03 to 10min (1.8 to 600 seconds)

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



TD



DBZ



DBZA



DBZC



DBZD

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

Part No.	Working Cycle Time 50Hz	Working Cycle Time 60Hz	Defrost Time 50Hz	Defrost Time 60Hz
DBZC				
TMDC-621	6hr	5hr	21min	17min30s
TMDC-625	6hr	5hr	25min	21min
TMDC-625110V	7hr12min	6hr	30min	25min
TMDC-807	8hr	6hr40min	7min	5min50s
TMDC-820	8hr	6hr40min	20min	16min40s
TMDC-824	8hr	6hr40min	24min	20min
TMDC-830	8hr	6hr40min	30min	25min
TMDC-832	8hr	6hr40min	32min	26min
TMDC-825 110V	9hr36min	8hr	30min	25min
TMDC-832 110V	9hr36min	8hr	38min	32min
DBZD				
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 Series Relay Protector



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



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



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

ICG Series Relay



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

QD Series Thermoprotector

used in refrigerator



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

RP Series Push-on Type Relay



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

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



IC-1,IC2



IC-3



IC-4

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

SPP Starter Pow-R-Pak



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

Cold Room & Refrigerator LED Lights

Description:
Voltage: 220V/110V/36V
Power: 8W
Frequency: 50Hz/60Hz
Temperature: 6000-6500K
Display: more than 70
Light Flux: 800LM
Protection Level: IP68
Used in < 4M Height Coldroom
Operating Temperature: -20° to 40°
Service Lifetime: 10000 hours



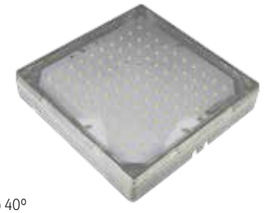
LED-401

Description:
Voltage: 220V/110V
Power: 20W
Frequency: 50Hz/60Hz
Temperature: 6000-6500K
Display: above 70
Light Flux: 2000LM
Protection Level: IP68
Used in < 4M Height Coldroom
Operating Temperature: -20° to 40°
Service Lifetime: 10000 hours



LED-407

Description:
Voltage: 220V/110V
Power: 30W
Frequency: 50Hz/60Hz
Temperature: 6000-6500K
Display: above 70
Light Flux: 3000LM
Protection Level: IP65
Used in < 5M Height Coldroom
Operating Temperature: -20° to 40°
Service Lifetime: 10000 hours



LED-409

Description:
Voltage: 220V/36V
Power: 15W
Frequency: 50Hz
Temperature: 6000-6500K
Display: above 70
Light Flux: 3000LM
Protection Level: IP65
Used in < 5M Height Coldroom
Operating Temperature: -20° to 40°
Service Lifetime: 10000 hours



LED-501

Description:
Voltage: 220V/110V
Power: 100W
Frequency: 50Hz/60Hz
Temperature: 2700-7000K
Display: 70 or more
Light Flux: 10000LM
Protection Level: IP65
10meters Below 50 Square or so
Operating Temperature: -20° to 40°
Service Lifetime: 10000 hours



LED-1102

Description:
Voltage: 220V/110V
Power: 50W
Frequency: 50Hz/60Hz
Temperature: 2700-7000K
Display: 70 or more
Light Flux: 5000LM
Protection Level: IP65
Super Bright 6-7m 40 Square or so
Operating Temperature: -20° to 40°
Service Lifetime: 10000 hours



LED-603

Description:
Voltage: 220V/110V
Power: 55W
Frequency: 50Hz/60Hz
Temperature: 2800-6800K
Display: 70 or more
Light Flux: 6000LM
Protection Level: IP65
5meters Below / 20-40 Square or so
Operating Temperature: -20° to 40°
Service Lifetime: 10000 hours



LED-503

Description:
Voltage: 220V
Power: 16W
Frequency: 50Hz/60Hz
Temperature: 2800-6800K
Display: 70 or more
Light Flux: 1600LM
Protection Level: IP65
4meters Below / 15-20 Square or so
Operating Temperature: -20° to 40°
Service Lifetime: 10000 hours



LED-406

Lamp for Refrigerator



LED-E14
6500k cold 220v/50Hz



Mini strip type



U groove type



U type

TAM Series Thermostat



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

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 (ºC)	OFF (ºC)	ON (ºC)	OFF (ºC)	
K50-P1110=VC1	2	-	-14.5	-23	1200
K59-L1102	3.5	-12	3.5	-22	1200
K50-P1125	8.5	-	-9.5	-18	1200
K50-P1126	-9.5	-	-18	-24.5	1200
K50-P1127	12.5	-	5	1.5	1200
K50-P1117=VF3	-7	-12	-22	-30	1200
K50-P1118=VB7	13	8	1.8	-3.3	1200
K54-P1102=VS5	-11.5	-16	-20	-26	1200
K60-P1013=VP4	-4	-11	-15	-24	1200

Thermostat



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

Icemaker Thermostat



ML and SL Series Defrost / Icemaker Thermostat



ML-B06 type ML-B15 type ML-B07 type

ML Series Part No.	ML37	ML45	ML50	ML55	ML60	ML70	ML80	ML90
SL Series Part No.		SL45	SL50	SL55	SL60	SL70	SL80	SL90
ºDIFF	10	20	20	20	20	20	50	7
OPENºF	37	45	50	55	60	70	80	90
CLOSEºF	47	25	30	35	40	50	30	35

Glass Tube Heater



Size	Voltage	Power
10"	220V	120W
12"	220V	130W
14"	220V	150W

Size	Voltage	Power
16"	220V	160W
18"	220V	160W
20"	220V	180W

Defrost Heater



LG Heater 5300JB1092B



Metal heater L370 350W



LG Heater 5300JB1090B



Samsung DA47-00139

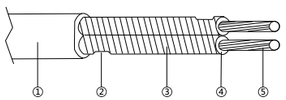
Constant Power Parallel Heating Cable (AKO-5234)

Application:

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



Silicone Insulating Layer.
Conductor Connecting Point.
Resistance Wire.
Silicone Insulating Layer.
Copper Conductor.



Power Output	at230V	40W/m
Max. Exposure Temp. Power On		55ºC
Max. Exposure Temp. Power Off		70ºC
Maximum Cicuit Length		60m
Hrating Zone Length		500m
Tinned Copper Conductors		2 x 0.75mm²
Heating Conductor Element		Nickel-chrome
Insulation Material		Silicone rubber
Electric Strength	Test Voltage	1500V~
Loading Tolerance		±7%
Oute Dimensions	Nominal	8 x 5 ±0.5mm
Minimum Bendradius	at-25C	20mm
Standard Reel Length		110~150mm

Drainpipe Anti-freezing Heating Cable



- Waterproof
- Double Insulation
- Molded Terminations
- Extremely Flexible

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

Heating Strip for Crankcase of Compressor



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

10

FiFiAiR

A/C & INSTALLATION PARTS

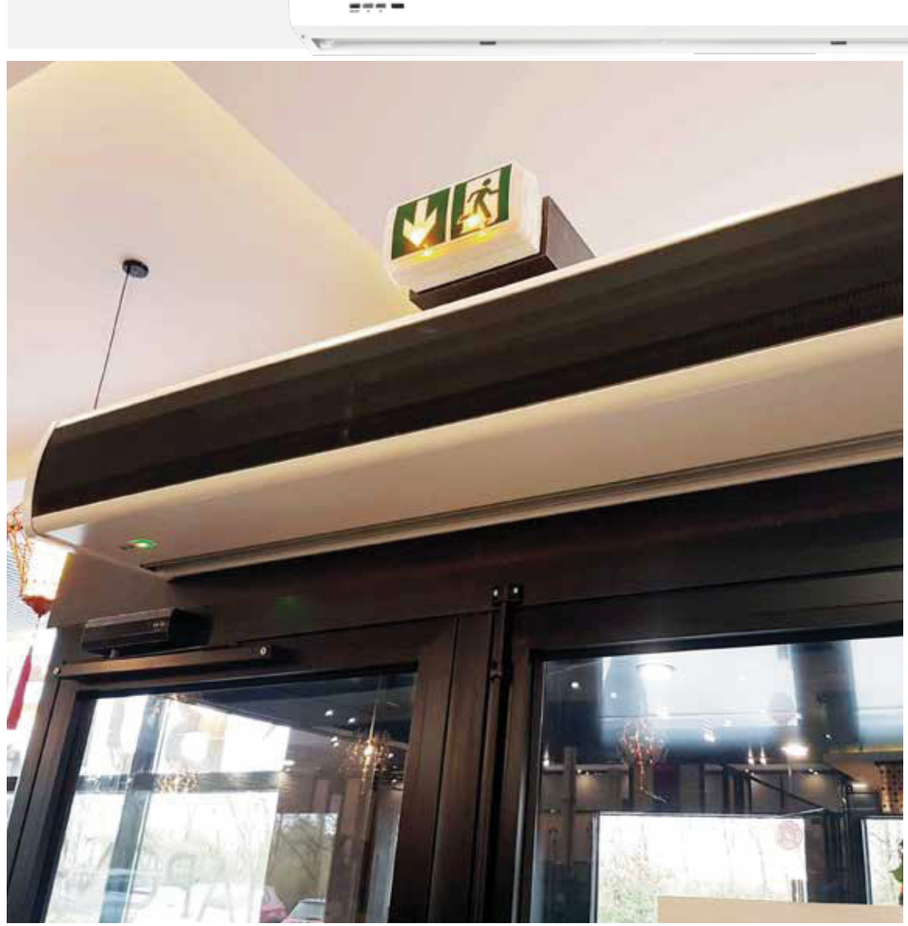


QUALITY DELIVERED









T1 Air Curtain



Model	Unit Size (mm)	Voltage (V)	Hz	Input (W)	Air Speed (m/s)	Air Volume (m³/h)	Noise (dB)	Height (m)	G.W. (kg)
FM-1106GK	600 x 145 x 175	220	50	88	10.5	770	56	2.5	5
FM-1109GK	900 x 145 x 175	220	50	90	10.5	1260	56	2.5	5.9
FM-1110GK	1000 x 145 x 175	220	50	95	10.5	1440	56	2.5	6.1
FM-1112GK	1200 x 145 x 175	220	50	110	10.5	1800	58	2.5	7.15
FM-1115GK	1500 x 145 x 175	220	50	130	10.5	2350	60	2.5	8.45
FM-1118GK	1800 x 145 x 175	220	50	160	10.5	2880	62	2.5	11.2
FM-1120GK	2000 x 145 x 175	220	50	190	10.5	3240	63	2.5	12.2

T2 Air Curtain

Model	Unit Size (mm)	Voltage (V)	Hz	Input (W)	Air Speed (m/s)	Air Volume (m³/h)	Noise (dB)	Height (m)	G.W. (kg)
FM-1109GKA	900 x 160 x 185	220	50	90	10.5	1260	56	2.5	7.7
FM-1110GKA	1000 x 160 x 185	220	50	95	10.5	1440	56	2.5	8.2
FM-1112GKA	1200 x 160 x 185	220	50	110	10.5	1800	58	2.5	9.4
FM-1115GKA	1500 x 160 x 185	220	50	130	10.5	2350	60	2.5	11.5
FM-1118GKA	1800 x 160 x 185	220	50	160	10.5	2880	62	2.5	13.6
FM-1120GKA	2000 x 160 x 185	220	50	190	10.5	3240	63	2.5	14.5

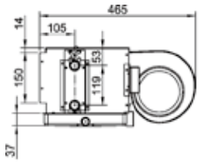
T3 Air Curtain (with controller)



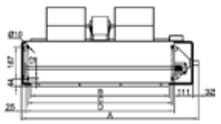
Model	Unit Size (mm)	Voltage (V)	Hz	Input (W)	Air Speed (m/s)	Air Volume (m³/h)	Noise (dB)	Height (m)	G.W. (kg)
FM-1209GY	900 x 216 x 191	220	50	135	11.5	1580	55	3	10.8
FM-1210GY	1000 x 216 x 191	220	50	145	11.5	1800	55	3	11.8
FM-1212GY	1200 x 216 x 191	220	50	165	11.5	2260	56	3	14
FM-1215GY	1500 x 216 x 191	220	50	225	11.5	2950	57	3	15.8
FM-1218GY	1800 x 216 x 191	220	50	280	11.5	3600	58	3	18

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









	A	B	C	B
FP-34WA-B	624	400	430	456
FP-51WA-B	814	590	620	464
FP-68WA-B	864	640	670	696
FP-85WA-B	944	720	750	776
FP-102WA-B	1044	820	850	876
FP-136WA-B	1424	1200	1230	1256
FP-170WA-B	1474	1250	1280	1306
FP-204WA-B	1674	1450	1480	1506
FP-238WA-B	1824	1600	1630	1656

Model (2-tube system)				FP-34WA-B	FP-51WA-B	FP-68WA-B	FP-85WA-B	FP-102WA-B
Power Supply				220V, 50Hz, 1Ph				
Air Volume		H	m^3/h	340	510	680	850	1020
		M		270	380	515	660	765
		L		190	260	340	430	530
Static Pressure			Pa	12(30.50)	12(30,50)	12(30,50)	12(30,50)	12(30.50)
Cooling Capacity	TH	H	W	2150	3200	4000	5000	5800
			BTU/h	7335	10918	13648	17060	19789
	SH		W	1530	2230	2850	3530	4230
			BTU/h	5220	7608	9724	12044	14432
	TH	M	W	1710	2510	3305	4090	4790
	SH		W	1210	1715	2320	2890	3345
	TH	L	W	1355	2000	2470	3000	3520
	SH		W	980	1420	1735	2020	2500
Heating Capacity	H		W	3350	5050	6250	7900	9150
	M		W	2650	3900	5100	6350	7400
	L		W	2100	3100	3850	4650	5450
Noise	High Speed		12Pa	37	39	41	43	45
			30/50	39/42	41/44	43/46	45/47	48/49
Power Input			12Pa	37	52	62	76	96
			30/50	44/49	59/66	72/84	87/100	108/118
Waterflow Volume			m^3/h	0.37	0.55	0.69	0.86	0.99
Pressure Dropping			kPa	16	22	18	29	22
Water Tube Connection (inlet)				ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"
Water Tube Connection (outlet)				ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"
Coil			Type	Hydrophilic Aluminum Fin to Wear Copper Tube				
Max. Working Pressure			Mpa	1.6	1.6	1.6	1.6	1.6
Condensation Pipe Size (diameter) mm				DN20 (External Thread)				
Net Dime-nsion	L×W×H		mm	624×465×235	814×465×235	864×465×235	944×465×235	1044×465×235
Net Weight			kg	11	13	14	16	17

Model (2-tube system)				FP-136WA-B	FP-170WA-B	FP-204WA-B	FP-238WA-B
Power Supply				220V, 50Hz, 1Ph			
Air Volume		H	m^3/h	1360	1700	2040	2380
		M		1040	1280	1550	1800
		L		710	860	1050	1280
Static Pressure			Pa	12(30.50)	12(30,50)	12(30,50)	12(30.50)
Cooling Capacity	TH	H	W	8000	9500	11300	12800
			BTU/h	27296	32414	38555	43673
	SH		W	5790	6850	8110	9140
			BTU/h	19755	23372	27671	31185
	TH	M	W	6660	7695	9153	10000
	SH		W	4715	5470	6340	7165
	TH	L	W	5150	5870	6820	7850
	SH		W	3530	4075	4950	5580
Heating Capacity	H		W	12500	15100	17800	20100
	M		W	10300	11950	14200	15500
	L		W	8000	9100	10550	12150
Noise	High Speed		12Pa	47	48	50	52
			30/50	49/50	50/52	52/54	54/56
Power Input			12Pa	134	152	189	228
			30/50	156/174	174/210	212/250	253/300
Waterflow Volume			m^3/h	1.37	1.63	1.94	2.19
Pressure Dropping			kPa	27	35	37	38
Water Tube Connection (inlet)				ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"
Water Tube cConnection (outlet)				ZG 3/4"	ZG 3/4"	ZG 3/4"	ZG 3/4"
Coil			Type	Hydrophilic Aluminum Fin to Wear Copper Tube			
Max. Working Pressure			Mpa	1.6	1.6	1.6	1.6
Condensation Pipe Size (diameter) mm				DN20 (External thread)			
Net Dime-nsion	L×W×H		mm	1424×465×235	1474×465×235	1674×465×235	1824×465×235
Net Weight			kg	26	29	32	34

Aluminum Foil Adhesive Tape



By roll, 27m lengths
24 rolls per carton.

* To be adjusted as per specific requirement.

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

Aluminum Reinforced Tape



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

By roll, 30m lengths 24 rolls per carton.

PVC Air Conditioner Insulation Tape



Part No.	Size
PVC1	0.13mmx48mmx15m
PVC2	0.13mmx48mmx18m

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

Insulation Tape with Self-adhesive



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

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

Cloth Duct Tape



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

SB Series Cleaner



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-910



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

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.



SB-920

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



SB-930

Air Conditioning Cleaning Cover



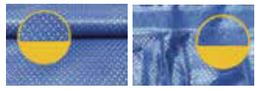


Q-532
- **Medium:** size is suitable for circumference of less than 2.4 meters of air conditioning
- **Size:** FOR9000BTU,12000BTU,18000BTU A/C UNIT
- **Color:** BLUE

Q-535
- **Large:** size is suitable for circumference of less than 3.2 meters of air conditioning
- **Size:** FOR18000BTU,24000BTU,36000BTU A/C UNIT
- **Color:** BLUE

Support Plate Cleaning Cover





Q-562
- **Medium:** Applicable to air conditioning length70-100CM
- **Color:** BLUE

Q-565
- **Large:** Applicable to air conditioning length100-130CM
- **Color:** BLUE

Ceiling Cleaning Cover





Q-536
- The length of the four sides of the ceiling hood is 1.2m.
- Color: YELLOW



Power Washer

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



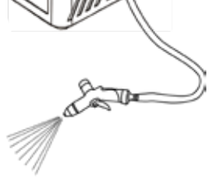




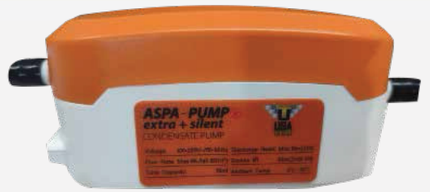








Condensate Water Pump







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 (6.5f)	Max.2m (6.5f)
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 (6.5f)	Max.2m (6.5f)
Discharge Head	Max.8m/H (26f)	Max.10m (33f)
Flow Rate	Max.12L/H (3.2GPH)	Max.36L/H (9.5GPH)
Sound Level	<19dB (A)	<21dB (A)
Tank Capacity	35ml	35ml
Mini Splits Up To	8KW (30,000bUT/H)	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 (6.5f)	Max.2m (6.5f)
Discharge Head	Max.10m (33f)	Max.10m (33f)
Flow Rate	Max.24L/H (6.2GPH)	Max.40L/H (10.5GPH)
Sound Level	<19dB (A)	<21dB (A)
Tank Capacity	55ml	55ml
Mini Splits Up To	8KW (30,000but/hr)	15KW (96,000but/hr)
Ambient Temperature	0°C~50°C	0°C~50°C
Power Consumption	3W	3W



Part No.	PC-30228	PC-50288
Voltage	230V, 50/60Hz	230V, 50/60Hz
Discharge Head	Max.3m (9.8f)	Max.5m (16.4f)
Flow Rate	Max.15L/H (3.2GPH)	Max.50L/H (9.5GPH)
Sound Level	<45dB (A)	<55dB (A)
Tank Capacity	200ml	200ml
Ambient Temperature	0°C~50°C	0°C~50°C
Power Consumption	55W	58W
Current Intensity	50mA	50mA
Power Consumption	16W	0°C~50°C

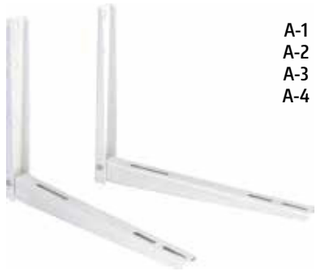




PC-320A PC-125A

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 (13f)
Flow Rate	Max.320L/H (85GPH)	Max.125L/H (33GPH)
Sound Level	<28dB (A)	<48dB (A)
Tank Capacity	1.8L	1.8L
Ambient Temperature	0°C~50°C	0°C~50°C
Power Consumption	20W	60W
Current Intensity	100mA	500mA

Bracket for A/C Outdoor Unit



A-1
A-2
A-3
A-4

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







B-1
B-2
B-3
B-4

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







C-1
C-2
C-3

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







G-1
G-2
G-3

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





Bracket for A/C Outdoor Unit



GL-1
GL-2

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







M-1
M-2

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







GM-1
GM-2

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







Z-1
Z-2

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





Plastic A/C Brackets



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



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

Rubber Anti Vibration Mountings

Accessory Include:

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



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



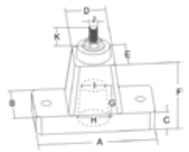


WTG002

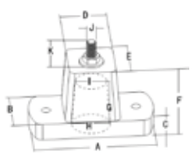
Model	A	B	C	D	E	F	G	H	I	J	K	Applicable Scope
WTG002-A	107	48	15	48	38	58	36	35	30	8	20	7500Btu-24000Btu A/C
WTG002-B	112	50	17	53	43	60	40	36	30	8	20	7500Btu-24000Btu A/C
WTG002-C	110	48	17	50	38	121	90	35	26	8	20	7500Btu-24000Btu A/C
WTG002-D	100	45	13	48	38	53	40	36	30	8	20	7500Btu-24000Btu A/C
WTG002-E	92	42	14	41	37	52	36	35	30	8	20	7500Btu-24000Btu A/C







WTG001-A



WTG112-A

Model	A	B	C	D	E	F	G	H	I	J	K	Applicable Scope
WTG001-A	110	50	17	37	37	66	35	30	22	8	20	7500Btu-24000Btu A/C

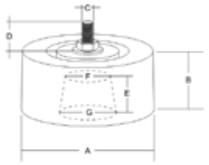
Model	A	B	C	D	E	F	G	H	I	J	K	Applicable Scope
WTG112-A	104	47	15	39	41	61	41	32	26	8	20	7500Btu-24000Btu A/C



Rubber Anti Vibration Mountings



WTG005-A

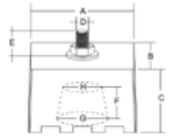


Model	A	B	C	D	E	F	G	Applicable Scope
WTG005-AD	87	42	8	20	24	48	59	7500Btu-2400Btu A/C
WTG005-AX	87	42	8	20	25	36	38	7500Btu-2400Btu A/C
WTG005-B	97	60	10	30	33	50	60	7500Btu-2400Btu A/C





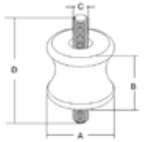
WTG006



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



WTG113

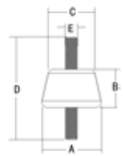


Model	A	B	C	D	E	F	G	Applicable Scope
WTG113-A	30	30	8	70				7500Btu-2400Btu A/C
WTG113-A1	40	30	8	80				7500Btu-2400Btu A/C





WTG-AG35 WTG-AG45

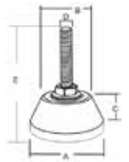


Model	A	B	C	D	E	F	G	Applicable Scope
WTG-AG35	37	24	28	62	8			7500Btu-2400Btu A/C
WTG-AG45	43	31	33	71	8			7500Btu-2400Btu A/C





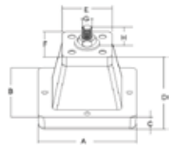
WTG-SG40 WTG-SG60



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



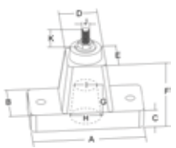
WTG124-A



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



WTG112-A



Model	A	B	C	D	E	F	G	H	I	J	K	Applicable Scope
WTG112-A	93	47	16	47	41.5	56	35	36	30	8	20	7500Btu-2400Btu A/C

Rubber Anti Vibration Mountings



A:40
B:8

WTG004-A



A:44
B:10

WTG004-B



A:48
B:15

WTG004-C



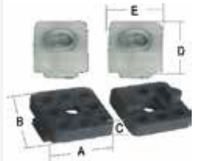
A:30
B:30
C:10

WTG117-A



A:23
B:37

WTG009-A



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

WTG008-A



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

WTG117-C



A:40
B:28
C:14

WTG117-B

Air Conditioner Trunking



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.

Part No.	Dimension(wxd)
PC2001	90x65x2mt

Part No.	Dimension(wxd)
PC2002	90x65x500mm

Flexible Joint:



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



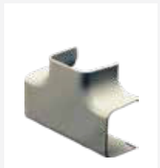
Part No.	Dimension (wxd)
PC2115	90x65



Part No.	Dimension (wxd)
PC2117	90x65



Part No.	Dimension (wxd)
PC2116	90x65



Part No.	Dimension (wxd)
PC2200	90x65



Part No.	Dimension (wxd)
PC2113	90x65



Part No.	Dimension (wxd)
PC2112	90x65



Part No.	Dimension (wxd)
PC2102	90x65



Part No.	Dimension (wxd)
PC2104	Upper Connector -with Seal



Part No.	Dimension (wxd)
PC2101	90x65



Part No.	Dimension (wxd)
PC2114	90x65



Part No.	Dimension (wxd)
PC2201	90x65



Part No.	Dimension (wxd)
PC2111	90x65

BODEGA 2024



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T-HVAC15

Touch-Screen Progammable Thermostat

- Programmable Thermostat
- 5+2 Programmable
- Easy to Program
- Easy to Install



T-HVAC15 WIFI

Touch-Screen Progammable Thermostat

- Be Able to Operate Your Air Conditioner Whenever and Wherever You are with Your Mobile Phone
- Mobile Phone Control and Suitable for Android & IOS System



T-HVAC10(2S)

Progammable Thermostat

- Operate on Single Stage Heat and Cool
- Operate on Multistage Heat and Cool
- 5+2 Programmable
- Battery Power or 24V Hardwire



T-HVAC10

Progammable Thermostat

- 5+2 Programmable
- 6.8 sq. Inch Backlight LCD
- Battery Power or 24V Hardwire



T-HVAC11

Progammable Thermostat

- 5+2 Programmable
- Adjust Filter Usage Counter
- Battery Power or 24V Hardwire



T-HVAC20

Air Conditioner Thermostat

- Easy for Installation and Applicable for Two Two-way Valves or Two Three-way Valves
- 5+2 Weekly Timer Funcyion
- Optional for Celsius Degree and Fahrenheit Degree



T-HVAC09

Air Conditioner Thermostat

- Set Points and Room Temperature Display Simultaneously
- 6.8 sq. Inch Backlight LCD
- Compressor Short Cycling Protection Available



T-HVAC21

Touch Screen Thermostat

- Fulll Screen Design Integrated Touch Panel
- Silver Metal Coating Process
- Power Button 3D Concave Inside
- White Backlighe, Automatic Brightness Adjustment



T-QD92

Thermostat for Water Floor Heating

- Laarge LCD Display with White Back Light
- Switch Power with Wide Voltage
- AUTO Restart

Room Thermostat



T200



T201



T202



T-PIR1



T-HVAC10

A/C Remote Controller



UPKT-400



UPKT-9018E

Universal A/C Control System



UPQD-U08C



UPQD-U02B(SW)+



UPQD-U10A

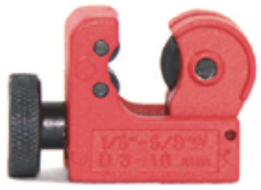
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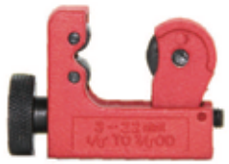
Tube Cutter



CT-127A



CT-127B



CT-128



CT-174



CT-273



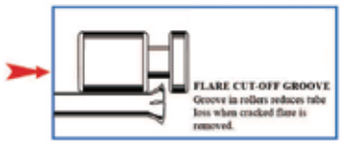
CT-1030



CT-1031



CT-1021



★Cutting copper, titanitnn, stainless stoel and aluminum tubing.
★Tube cutter stays the same length for use in restrictod area.
★Smooth groove in rollers can stabilize demaged flares and cut it easily
★Special GCr15 material blade, cut tubing more sharp and accurate.
★Some cutters have another cutting blade inside.

Item NO.	Name	Spec.	Material	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-127A CT-127B	Mini cutter V1	1/8"~5/8"(3~16mm)		100	12/11 10/9	38x32x17
CT-128	Mini cutter V2	1/8"~7/8"(3~22mm)		100	12/11	38x32x17
CT-174	Mini cutter C	1/8"~1-1/8"(3~28mm)		100	14/13	48x20.5x32
CT-273	Tube cutter 273	1/8"~3/4"(3~19mm)		100	18.5/17.5	20.5x22x30.5
CT-1030	Tube cutter G1	1/8"~1-1/8"(3~28mm)		50	9/8	53x20.5x28
CT-1031	Tube cutter G2	1/8"~1-1/8"(3~30mm)		50	11/10	53x21.5x31
CT-1021	Tube cutter B	1/8"~1-1/4"(3~32mm)		50	13/12	53x20.5x28

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

Tube Cutter



CT-274



CT-S274



CT-N274



CT-312



20pcs
CT-101



2pcs
CT-101



CT-105



CT-107



CT-216

★Precision Feed Screw Mechanism is enclosed to elimate clogging and jamming.
★Tube cutter stays the same length for use in restricted areas.
★Swivelled blade Deburring Tool for removing sharp edges from tubing.
★Contoured knob holds Spare Cutter Wheel.
★Rollers are grooved for cutting close to flared end of tubing.

Item NO.	Name	Spec. (mm)	Material	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-274	Tube cutter	1/8"~1-1/8"(4~28mm)		50	14.5/13.5	53x20.5x28
CT-S274	Tube cutter	1/8"~1-1/8"(4~28mm)		50	14.5/13.5	53x20.5x28
CT-N274	Tube cutter	1/8"~1-3/16"(4~30mm)		50	15/14	58x21.5x32
CT-312	Tube cutter	1/4"~1-5/8"(6~42mm)		50	15.5/14.5	53x23.5x30
CT-105	Tube cutter	1/8"~1-3/8"(3~35mm)		50	13/12	53x20.5x28
CT-107	Tube cutter	3/16"~2"(5~50mm)		50	23/22	63x29.5x34
CT-216	Tube cutter	1/4"~2-5/8"(6~67mm)		20	16/15	44x24x23

Speed Tube Cutter



CT-1035



CT-1036



CT-206



CT-206B

★ Rachet feed mechanism speeds up cutting operation.
★ Extra wide rollers with flare cut-off groove stabilize tubing.
★ inchide spare cutting wheel.



Item NO.	Name	Spec. (mm)	Material	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-1035	Speed tube cutter	1/8"~1-1/4"(3~32mm)		50	14.5/13.5	53x20.5x28
CT-1036	Speed tube cutter	1/4"~2"(6~50mm)		50	24/23	63x29.5x34
CT-206	Speed tube cutter	1/4"~2-1/2"(6~64mm)		20	13/12	54x32x22

Item NO.	Name	Spec. (mm)	Material	Fitting cutter
CT-101	Tube cutter blade (Blade material has better 9CrSi, SKD, high speed steel HSS can choose.)	Ø18x3		CT-127A CT-127B CT-128 CT-1031 CT-1021 CT-274 CT-105 CT-312 CT-107 CT-174 CT-S274 CT-N274
		Ø18x4		CT-1030 CT-1035
		Ø18x6		CT-1036
		Ø15.5x3		CT-273
CT-206B	Tube cutter blade	Ø22x6		CT-216 CT-206

Bearing Type Tube Cutter



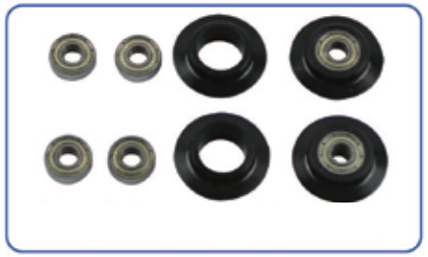
CT-319 CT-428 CT-532 CT-650 CT-670 CT-650C

CT-532/650/670 TUBE CUTTER

★Ball bearings make the difference!
★Great cuts with the greatest of ease!
★High-quality radial ball bearings enable tube cutters to cut with less effort than any previous models.
★Give them a try and see just how easy it is!
★Alloy steel they can even cut thin wall stainless steel pipes.



CT-319B CT-428B CT-532B



Performance

High-performance bearings

High-performance bearings are used in both the roller and blade, so the cutter turns easily with only sligt force even with the cutting load applied.





Ideal for copper or thin wall stainless steel pipes

the blade allows you to use the cutter for cutting thin-walled stainless steel pipes and,polyethylene(PE)pipes. (Replacement blades sold separately)

Improved cutting performance

The use of ball bearings not only reduces cutting resistance but also dramatically improves cutting accuracy, the most important factor determining the quality of the finished cut.

Item NO.	Name	Spec. (mm)		Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-319	Bearing type tube cutter	1/8"~3/4"(3~19mm)		50	8/7	33x23x21
CT-428	Bearing type tube cutter	3/16"~1-1/8"(4~28mm)		50	11/10	36x29x22
CT-532	Bearing type tube cutter	3/16"~1-1/4"(4~32mm)		50	19.5/18.5	58x23x42
CT-650	Bearing type tube cutter	1/4"~2"(5~50mm)		50	27/26	63x27x43
CT-670	Bearing type tube cutter	1/4"~2-3/4"(6~70mm)		20	23.5/22.5	37x32x44
CT-650C	Bearing type tube cutter set	1/4"~2"(5~50mm)		10	13/12	41x30x33
CT-319B	Tube Cutter Blade	Ø18.2x4 (For CT-319)		100	2.5/1.5	32x24x22
CT-428B	Tube Cutter Blade	Ø25x8 (For CT-428)		100	4.5/3.5	32x24x22
CT-532B	Tube Cutter Blade	Ø30x10(For CT-532/650/670)		100	6.5/5.5	32x24x22

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

Bearing type tube cutter

PATENT NO: 202330277080.5

PATENT NO: 202023308125.0

quick change cutter blade

no assistance required



1. Ball bearings and blades bring smooth cutting experience
2. Thin alloy steel blade, coating hardening
3. Quick change cutter blade, no assistance required
4. Aluminum alloy cutter body, easy and labor-saving



CT-N532 CT-N650 CT-N670 CT-N532Q CT-N650Q CT-N670Q

(quick change cutter blade)



CT-532B

Blade coating hardening

Item NO.	Name	Spec. (mm)		Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-N532 CT-N532Q	Bearing type tube cutter	3/16"~1-1/4"(4~32mm)		50	20.7/19.7	58x23x40
CT-N650 CT-N650Q	Bearing type tube cutter	1/4"~2"(5~50mm)		50	26.5/25.5	63x27x40.5
CT-N670 CT-N670Q	Bearing type tube cutter	1/4"~2-3/4"(6~70mm)		20	20.5/19.5	37x32x44

Smart Spring tube Cutter

PATENT NO: 201922148821.3



CT-N532S CT-N650S CT-N670S

Built-in spring prevent tube deformation fast cutting





CT-N532S-B

1. Ball bearings and blades bring smooth cutting experience
2. Thin alloy steel blade, sharp and durable
3. Spring structure, prevent copper pipe deformation
4. Aluminum alloy cutter body, easy and labor-saving

Item NO.	Name	Spec. (mm)	Material	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-N532S	Smart Spring tube Cutter	3/16"~1-1/4"(4~32mm)	Aluminum alloy body	50	20.7/19.7	58x23x40
CT-N650S	Smart Spring tube Cutter	1/4"~2"(5~50mm)	Aluminum alloy body	50	26.5/25.5	63x27x40.5
CT-N670S	Smart Spring tube Cutter	1/4"~2-3/4"(6~70mm)	Aluminum alloy body	20	20.5/19.5	37x32x44
CT-N532S-B	Tube Cutter Blade	Ø25x5 (For CT-N532S/N650S/N670S)	Alloy Steel Blade	200	7/6	32x24x...

Tube Cutter


CT-176


CT-142


CT-143

PATENT NO:
ZL202120987196.3


CT-114


CT-115

Item NO.	Name	Spec. (mm)	Material	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-176	Tube cutter	1/8"~1-1/8" (3~28mm)		50	11/10	33x23x21
CT-142	Tube cutter	1/4"~1-3/8" (6~35mm)		50	16/15	63x29.5x29
CT-143	Tube cutter	1/4"~1-3/4" (6~45mm)		50	16/15	63x29.5x29
CT-114	Ratchet tube cutter	6-23mm	Zinc alloy body	50	17/16	68x29x43
CT-115	Ratchet tube cutter	8-29mm	Zinc alloy body	50	17/16	37x35x24

Auto Cut Tube Cutter



15mm 22mm 28mm — CT-111B

1/2" CT-111AL (aluminium) — 3/4" CT-112AL (aluminium) — 1" CT-113AL (aluminium) — 1/2" CT-111 — 3/4" CT-112 — 1" CT-113


CT-113B

★can be used in poky space.
★sultable to cut mass same size copper tube, don't need adjust.
★can replace blade easily.

Item NO.	Name	Spec. (mm)	Material	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-111 CT-111AL	Tube cutter	15mm or 1/2"	Zinc alloy body Aluminum alloy body	48 80	11.5/10.5 11.5/10.5	34.5x23.5x28 48x35x23
CT-112 CT-112AL	Tube cutter	22mm or 3/4"	Zinc alloy body Aluminum alloy body	48 80	13/12 12.5/11.5	34.5x23.5x28 48x35x23
CT-113 CT-113AL	Tube cutter	28mm or 1"	Zinc alloy body Aluminum alloy body	48	17/16 10/9	37x23.5x30
CT-111B	Tube cutter blade	Ø16x4.4	Bearing Steel Blade	CT-111 CT-112 CT-111AL CT-112AL		
CT-113B	Tube cutter blade	Ø19.4x4.4	Bearing Steel Blade	CT-113 CT-113AL		

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

Chain Tube Cutter

PATENT NO:
ZL202122505723.5
ZL202130681512.X
202220474067.9
ZL202230113547.8



CT-151



1. First, fix the pipe and find a convenient angle.
2. Wrap the chain around the pipe and fix the clip on the cutter to the suitable blade.
3. Hold the handle of the cutter tightly.
4. Turn the bottom screw until it is tightened.
5. Hold the handle and rotate it around the pipe.



PATENT NO:
ZL202230113547.8
202122505723.5
202130681512.X

CT-152



1. First, fix the pipe and find a convenient angle.
2. Wrap the chain around the pipe and fix the clip on the cutter to the suitable blade.
3. Rotate the handle of the cutter until the chain is fixed.
4. When holding the handle and rotating it around the pipe, rotate the handle until the cutting is completed.

Item NO.	Name	Spec. (mm)	Material	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-151	Chain tube cutter	≤80mm 14 19*4.2 (With 14 pieces of 19*4.2 blade)		20	15.5/14.5	38x32x33
CT-152 CT-152-L	Chain tube cutter	50~100mm 17 22*4.4 (With 17 pieces of 22*4.4 blade) 50~200mm 31 22*4.4 (With 31 pieces of 22*4.4 blade)		20	22/21	38x32x33

PVC Pipe Cutter



CT-1060



CT-1060B



CT-1061



CT-1062



CT-1063



CT-1066



CT-1074



CT-1075



CT-1076



CT-1077

Item NO.	Name	Spec. (mm)	Material	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-1060	PVC pipe cutter	1-5/8"(42mm)	Aluminum alloy body	50	15.5/14.5	63x29.5x29
CT-1060B	PVC pipe cutter(with edge)	1-5/8"(42mm)	Aluminum alloy body	50	16.5/15.5	63x29.5x29
CT-1061	Speed PVC pipe cutter	1-5/8"(42mm)	Aluminum alloy body	50	15.5/15.5	63x29.5x29
CT-1062	Speed PVC pipe cutter	1-5/8"(42mm)	Aluminum alloy body	50	15.5/15.5	63x29.5x29
CT-1063	PVC pipe cutter	1-1/4"(32mm)	Aluminum alloy body	50	10/9	48x27x26
CT-1066	PVC pipe cutter	1-1/4"(32mm)	Aluminum alloy body	50	10/9	48x27x26
CT-1074	PPR pipe cutter	42mm	Aluminum alloy body	40	17/16	55x31.5x32
CT-1075	PPR pipe cutter	42mm	Aluminum alloy body	40	22/21	55x31.5x32
CT-1076	PPR pipe cutter	63mm	Aluminum alloy body	30	21.5/20.5	38x28.5x44
CT-1077	PPR pipe cutter	75mm	Aluminum alloy body	20	12/11	36.5x33x34

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

Stainless Bellows Tool



CT-131



CT-138

PATENT NO:
ZL201922443694.7
ZL201930628783.1



CT-138B



CT-1036-BW



CT-206-BW

Item NO.	Name 品名	Spec. (mm)	Material	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-131	bellows peeling knife	8~28mm	65MN	100	9/8	43x21.5x39
CT-138	staineless bellows cutter	8A~25A(4~32mm)		50	15/14	58x22x41
CT-1036-BW	staineless bellows cutter	1/4"~2"(6~50mm)		20	15/14	58x22x48
CT-206-BW	staineless bellows cutter	1/4"~2-1/2"(6~64mm)		20	15/14	58x22x48
CT-138B	Tube cutter blade	Ø19x3		CT-138		

Corrugated Pipe Flat Mouthparts





CT-139





CT-139-L



CT-140

Item NO.	Name	Spec. (mm)	Material	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-139 CT-139-L	corrugated pipe flat mouthparts	13.5mm		40	26/25	32x32x25
		15.8~16mm		40	26/25	32x32x25
		16.8mm		40	26/25	32x32x25
		18mm		40	26/25	32x32x25
		20mm		40	26/25	32x32x25
		22mm		40	26/25	32x32x25
		25mm		40	26/25	32x32x25
		32mm		40	26/25	32x32x25
CT-140	corrugated pipe flat mouthparts	13.5mm 15.8-16mm 20mm 25mm		10	29/28	45x28x31

Flaring Tool



CT-97



CT-98



CT-98B



CT-2010
CT-2020



CT-8010



CT-8010B



CT-8011



CT-8012



CT-8013

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-97	Flaring Tool	10mm,12mm,14mm,16mm	24	18/17	40x28x15
CT-98	Flaring Tool	10mm,12mm,14mm,16mm,18mm,20mm,22mm	24	24/23	40x28x15
CT-98B	Flaring Tool	10mm,12mm,14mm,16mm,18mm,20mm,22mm	24	24/23	40x28x15
CT-2010	Flaring Tool	metric:6,8,10,12,14,15mm	30	24.5/23.5	41x31x24
CT-2020	Flaring Tool	inch:3/16",1/4",5/16",3/8",1/2",5/8"	30	24.5/23.5	41x31x24
CT-8010A CT-8010M	3pcs Flaring Tool Kit	CT-2020+ CT-1030 CT-2010+ CT-1030	20	20/19	36x29x30
CT-8010B	3pcs Flaring Tool Kit	CT-2020+ CT-1030 CT-2010+ CT-1030	10	13/12	42x24x26
CT-8011A CT-8011M	7pcs Flaring Tool Kit	CT-2020+ CT-1030 CT-2010+ CT-1030	10	14.5/13.5	42x24x26
CT-8012A CT-8012M	6pcs Flaring Tool Kit	CT-2020+ CT-1030 CT-2010+ CT-1030	20	22/21	42x30x34
CT-8013A CT-8013M	9pcs Flaring Tool Kit	CT8011A+ CT-127 + CT-1060 CT8011M+ CT-127 + CT-1060	10	16.5/15.5	45x28x31

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

Flaring Tool



CT-190



CT-191



CT-192



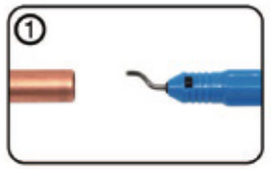
CT-195
CT-196



CT-103



CT-203









1. Use reamer to remove burr on inner wall of pipe end.
(Please take safety precautions during the whole process)

2.Insert the copper tube into the gripper of the appropriate size, exposing 1/8 inch (3mm) height, and tighten the tip.

3.Put the Y-frame into the gripper, align the center of the pipe, tighten the Y-frame clockwise to the working position and carry out the flaring work.

4.Remove the Y frame and release the gripper. Done.

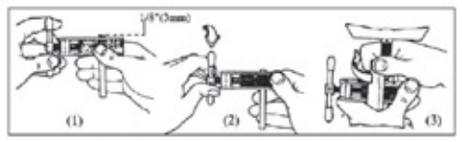
Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-190A CT-190M	45°Flaring tool	3/16",1/4",5/16",3/8",7/16",1/2",5/8" 5,6,8,10,12,14,16mm	20	15/14	27x20x27
CT-191A CT-191M	45°Flaring tool	3/16",1/4",5/16",3/8",7/16",1/2",5/8" 5,6,8,10,12,14,16mm	20	17/16	34x26.5x25
CT-192A CT-192M	45°Flaring tool	3/16",1/4",5/16",3/8",1/2",7/16",5/8" 5,6,8,10,12,14,16mm 4.75,5,6,8,10mm, 1/4",1/2"	20	17/16	34x26.5x25
CT-195A CT-195M	45°Flaring tool	3/16",1/4",5/16",3/8",7/16",1/2",5/8" 5,6,8,10,12,14,16mm	20	20/19	36x27.5x25
CT-196A CT-196M	45°Flaring tool	3/16",1/4",5/16",3/8",1/2",5/8", 3/4" 5,6,8,10,12,16,19mm	20	20/19	27x20x27
CT-103A CT-103M	45°Flaring tool	7/8",1",1-1/8" 22,25,28mm	10	16/15	31.5x17x14.5
CT-203A CT-203M	45°Flaring tool	5/8",3/4",7/8",1-1/8" 16,19,22,28mm	10	16/15	31.5x17x14.5

Grabber Flaring Tool



CT-505

专利产品:
PATENT NO:
ZL201921079423.1



For use with soft copper, aluminum and brass tubing. Faceted, hard chrome-finished cone rolls out perfect 45° flares above die block - then automatically burnishes flare face. Original wall thickness is maintained at base of flare. New slip-on yoke permits use in tight quarters where there is little space between nut and tube end . Larger handle, with better leverage, and precision threads on feed screw make flaring effortless. Heat treated dies firmly grip tubing. Satin chrome and black finish.

- Insert tubing into adjustable opening of tube holding assembly. Position end of tubing approximately 1/8" above the surface of holder.
- Tighten clamp screw approximately 1/2 to 3/4 of a turn beyond free travel position to secure tubing.
- Be certain flaring cone surface is oiled.Slip yoke over tube holding assembly centerring on tubing.Twist yoke clockwise to lock in position.Turn yoke handle clockwise to flare.



Flares rolled out above die bar by super-smooth faceted cone. Makes stronger flares.



Unique detention mechanism for rapid engagement and release of die blocks.

Grabber Flaring Tool



CT-525

PATENT NO:
ZL201821517919.8



CT-526

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-505	Grabber Flaring Tool	3/16",1/4",5/16",3/8",1/2",5/8" & 3/4"	20	23/22	31.5x22.5x32
CT-525	Grabber Flaring Tool	3/16"~5/8"(5~16mm)	20	16.5/15.5	33x24x16
CT-526	Gabber Flaring Tool	3/16"~3/4"(5~19mm)	20	22/21	27x20x28.5

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

Flaring Tool



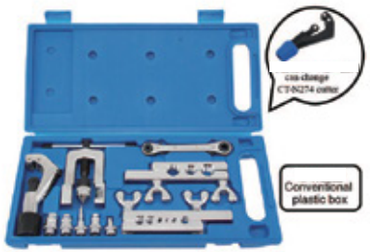
CT-92A
CT-92AM



CT-275A
CT-275AM



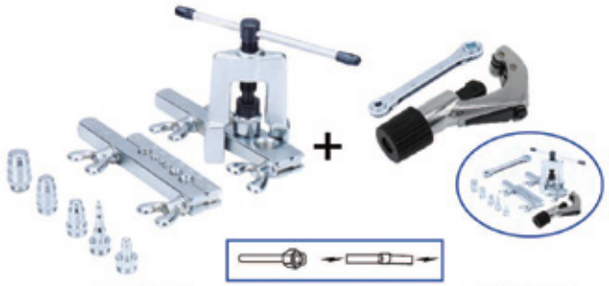
CT-277A
CT-277AM



CT-278A
CT-278AM



CT-278B-A
CT-278B-AM

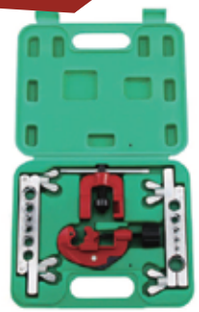


CT-275

CT-278

(CT–277, CT–278,CT–278AM _ _ _CT–274 , CT–N274)
(CT-277,CT-278,CT-278AM sets normally have CT-274 cutter,can change CT-N274 cutter, tell when ordering)

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-92A CT-92AM	Flaring Tool	CT-275A CT-275AM	10	23.5/22.5	44x27x23.5
CT-275A	Flaring Tool	1/2",5/8",3/4"; 1/8", 3/16", 1/4",5/16",3/8",7/16" (3/16",1/4",3/8"); 5/16",1/2",5/8",3/4"	10	22/21	35x30x25
CT-275AM	Flaring Tool	10, 1/2",16(5/8"),19(3/4"); 3(1/8"), 5(3/16"),6(1/4"),8(5/16"),3/8",12, (3/16",1/4",3/8"); 5/16",1/2",5/8",3/4"	10	22/21	35x30x25
CT-277A CT-277AM	Flaring Tool	CT-275A + CT-274 CT-275AM + CT-274	10	20.5/19.5	43x26x25
CT-278A CT-278AM	Flaring Tool	CT-275A + CT-274 + CT-122 CT-275AM + CT-274 + CT-122	10	27/26	40x39x27
CT-278B-A CT-278B-AM	Flaring Tool	CT-275A + CT-274 + CT-122 CT-275AM + CT-274 + CT-122	10	27/26	40x39x27



CT-8018



CT-88



CT-99



CT-93AM



CT-8020M



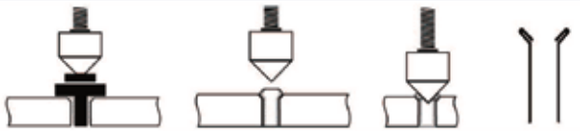
CT-8020AM



CT-1226



(CT-1226 sets normally have CT-274 cutter,can change CT-N274 cutter, tell when ordering)



Screw down flaring cone with proper size adapter in tube. Retract cone remove adapter, complete flare.

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-8018	4pcs Flaring Tool Kit	6, 8, 10, 12, 14, 15mm; 3, 4, 5,9,16, 19mm & CT-1030	10	17/16	42x25x23
CT-88	88 Flaring Tool	6, 8, 10, 12, 14, 15mm; 3, 4, 5,9,16, 19mm (3, 6),(5, 8),(10,14),(12,16)mm	10	18/17	42x25x23
CT-99	99 Flaring Tool	6mm, 8mm, 10mm, 12mm, 1/2" , 5/8"; 5mm, 16mm, 19mm, 1/4"; (5, 8)mm,(12,16)mm,(10mm,1/2"), (1/4",3/8")	10	18/17	42x25x23
CT-93AM	93 Flaring Tool	6, 8, 10, 12, 14, 15mm; 3/16",1/4", 3/8",1/2", 5/8", 3/4" (5, 8)mm,(12,16)mm,(10mm,1/2"), (1/4",3/8")	10	18/17	37x30x24.5
CT-8020M	8 Pcs Flaring Tool Kit	6, 8, 10, 12, 14, 15mm; 3, 4, 5,9,16, 19mm (3, 6),(5, 8),(10,14),(12,16)mm &CT-1030	10	18/17	42x25x23
CT-8020AM	8 Pcs Flaring Tool Kit	6,8,10,12,14,15mm; 3/16",1/4",3/8",1/2",5/8",3/4" (5, 8)mm,(12,16)mm,(10mm,1/2"), (1/4",3/8") &CT-1030	10	18/17	42x25x23
CT-1226A CT-1226M	45°Flaring tool	3/16",1/4",5/16",3/8",7/16",1/2",5/8"; 5,6,8,10,12,14,16mm with CT-274	10	17.5/16.5	35x30x25

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

Auto Repair Double Flaring Tool



CT-1227



CT-2026



CT-2029



CT-2029B

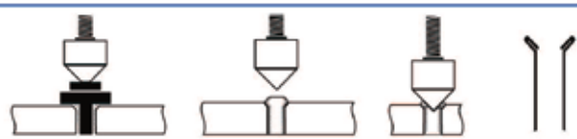


CT-2029C





(CT-1227 sets normally have CT-274 cutter,can change CT-N274 cutter, tell when ordering)



Screw down flaring cone with proper size adapter in tube. Retract cone remove adapter, complete flare.

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-1227A CT-1227M	45°Flaring tool	CT-1226A+7 (3/16",1/4",5/16",3/8",7/16",1/2",5/8") CT-1226M+ (5,6,8,10,12,14,16mm)	10	18/17	38x32x27
CT-2026	Double Flaring tool	3/16",1/4",5/16",3/8",1/2"7/16"5/8" 5,6,8,10,12,14,16mm 4.75,5,6,8,10mm, 1/4",1/2" 4,4.75,6,8,10,12,14mm	20	19/18	29x22x29
CT-2029A CT-2029M	Double Flaring tool	CT-2026A +CT-1031 CT-2026M+CT-1031	15	19.5/18.5	43x34x22
CT-2029B	Double Flaring tool	同CT-2029	12	15/14	44x32.5x34
CT-2029C	Double Flaring tool	同CT-2029	10	14/13	43x24x26

Auto Repair Double Flaring Tool


CT-2030


CT-2030+CT-369


CT-2030+CT-369+弹簧


CT-2031

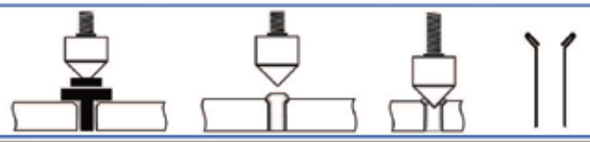

CT-2032


CT-2032C


CT-2032D


CT-2032E

(CT-2030 sets normally have CT-274 cutter,can change CT-N274 cutter, tell when ordering)



Screw down flaring cone with proper size adapter in tube. Retract cone remove adapter, complete flare.

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-2030	Double Flaring tool	3/16",1/4",5/16",3/8",1/2"7/16"5/8" +CT-274 5,6,8,10,12,14,16mm +CT-274 4.75,5,6,8,10mm, 1/4",1/2" +CT-274 4,4.75,6,8,10,12,14mm +CT-274	15	21/20	43x34x22
CT-2030 +CT-369	Double Flaring tool	CT-2030 +CT-369	10	20/19	46.5x36.5x43.5
CT-2030 +CT-369	Double Flaring tool	CT-2030 +CT-369+	10	21/20	46.5x36.5x43.5
CT-2031A CT-2031M	Double Flaring tool	3/16",1/4",5/16",3/8",7/16",1/2",5/8" + 7 +CT-1031 5,6,8,10,12,14,16mm + 7 + CT-1031	15	22/21	43x34x22
CT-2032	Double Flaring tool	3/16",1/4",5/16",3/8",1/2"	12	12.5/11.5	36x29x22
CT-2032C	Double Flaring tool	3/16",1/4",5/16",3/8",1/2" 4.75,5,6,8,10mm	10	12.5/11.5	42x24x26
CT-2032D CT-2032E	Double Flaring tool	3/16",1/4",5/16",3/8",1/2"+CT-127A /CT-127B 4.75,5,6,8,10mm+CT-127A/CT-127B	10	13/12	42x24x26

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

Auto Repair Double Flaring Tool


CT-2033


CT-2033B


CT-2033C

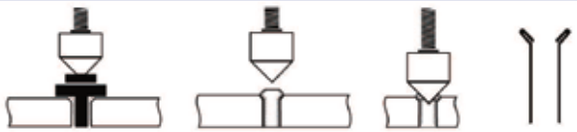

CT-2034


CT-2035


CT-3030


CT-3031

(CT-2035 sets normally have CT-274 cutter,can change CT-N274 cutter, tell when ordering)



Screw down flaring cone with proper size adapter in tube. Retract cone remove adapter, complete flare.

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-2033	Double Flaring too l	3/16",1/4",5/16",3/8",1/2"7/16"5/8" 5,6,8,10,12,14,16mm 4.75,5,6,8,10mm, 1/4",1/2" 4,4.75,6,8,10,12,14mm	10	15/11	42x24x26
CT-2033B	Double Flaring tool	CT-2033 + CT-127A+ CT-207	10	16.7/12.7	42x24x26
CT-2033C	Double Flaring tool	CT-2033 + CT-127A+ CT-208	10	14/13	42x24x26
CT-2034A CT-2034M	Double Flaring tool	3/16",1/4",5/16",3/8",1/2"7/16"5/8" 5,6,8,10,12,14,16mm	15	21.5/20.5	45x35x25
CT-2035A CT-2035M	Double Flaring tool	3/16",1/4",5/16",3/8",1/2"7/16"5/8" 5,6,8,10,12,14,16mm	15	22.5/21.5	45x35x25
CT-3030	Double Flaring tool	4.75,6,8,10mm	12	13/12	36x29x22
CT-3031	Double Flaring tool	4.75,6,8,10mm	10	13/12	42x24x26

Eccentric Flaring Tool(45°)



PROFESSIONAL HAVC/R TOOLS

PLUMBING TOOLS

AUTO REPAIR TOOLS

ECCENTRIC FLARING TOOL(45°)

PATENT NO:
202430477482.4
202321847815.4

RATCHET MODEL

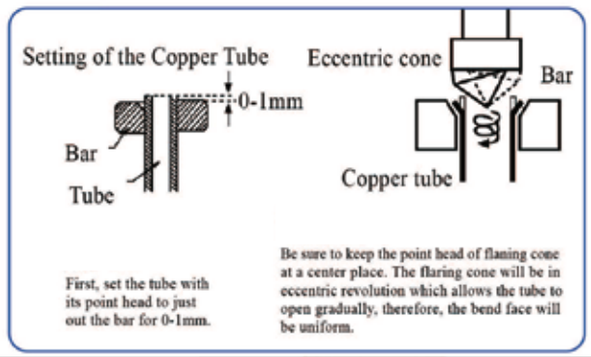


NEW PRODUCTS

RATCHET FUNCTION

EASY AND EFFICIENT

RATCHET ECCENTRIC FLARING TOOL(45°)



First, set the tube with its point head to just out the bar for 0-1mm.

Be sure to keep the point head of flaning cone at a center place. The flaring cone will be in eccentric revolution which allows the tube to open gradually, therefore, the bend face will be uniform.

★Easy operation ,save time and energy.
★The special cone eccentric revolution will be allows the internal opening gradually and form 45° accurate and regular fiare without, preventing tube sllppage downward.Therefore, the fiare face will be smooth, unlform without scratching.
★Eccentric cone will be rebound by itself after the work is finished,make the idle top head in revolution again f orl-2 rounds and have the flare face in friction to make it prettier.

	Item NO.	Ratchet Model Item NO.	Description	Qty/Case (Pcs)
	CT-806A	CT-R806A	For inch:1/4",5/16",3/8",1/2",5/8",3/4" O.D. Tubing, individual packed in color box or plastic case	10
	CT-806M	CT-R806M	For metric: 6mm,8mm,10mm,12mm,16mm,19mm O.D. Tubing, individual packed in color box or plastic case	10
			For metric: 6mm,9mm,10mm,12mm,16mm,19mm O.D. Tubing, individual packed in color box or plastic case	
	CT-808A	CT-R808A	For inch:3/16",1/4",5/16",3/8",1/2",5/8",3/4" O.D. Tubing, individual packed in color box or plastic case	10
 RATCHET MODEL	CT-808M	CT-R808M	For metric: 5mm,6mm,8mm,10mm,12mm,16mm,19mm O.D. Tubing, individual packed in color box or plastic case	10
			For metric: 5mm,6mm,9mm,10mm,12mm,16mm,19mm O.D. Tubing, individual packed in color box or plastic case	
	CT-809AM	CT-R809AM	For inch and metric: 6mm, 1/4",9mm,3/8",10mm,12mm,1/2",5/8"(16mm)&3/4", (19mm) O.D. Tubing,individual packed in color box	10
	CT-809Q	CT-R809Q	For metric: 4mm,4.75mm,5mm, 6mm,6.35mm,8mm,9mm,10mm,12mm O.D. Tubing, individual packed in color box or plastic case	10

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

	Item NO.	Ratchet Model Item NO.	Description (Sets normally have CT-274 cutter,can change CT-N274 cutter, tell when ordering)		Qty/Case (Pcs)
	CT-806A-S	/	CT-806A+CT-274	For inch:1/4",5/16",3/8",1/2",5/8",3/4" O.D. Tubing, packed in plastic case（塑盒包装）	10
	CT-806M-S	/	CT-806M+CT-274	For metric: 6mm,8mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case（塑盒包装）	10
	CT-808A-S	/	CT-808A+CT-274	For inch:3/16",1/4",5/16",3/8",1/2",5/8",3/4" O.D. Tubing, packed in plastic case（塑盒包装）	10
	CT-808M-S	/	CT-808M+CT-274	For metric: 5mm,6mm,8mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case（塑盒包装）	10
 can change CT-N274 cutter	CT-806A-L	/	CT-806A+CT-274+CT-208	For inch:1/4",5/16",3/8",1/2",5/8",3/4" O.D. Tubing, packed in plastic case	10
	CT-806M-L	/	CT-806M+CT-274+CT-208	For metric: 6mm,8mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	10
	CT-808A-L	/	CT-808A+CT-274+CT-208	For inch:3/16",1/4",5/16",3/8",1/2",5/8",3/4" O.D. Tubing, packed in plastic case	10
	CT-808M-L	/	CT-808M+CT-274+CT-208	For metric: 5mm,6mm,8mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	10
				For metric: 4.75mm,6mm,8mm,10mm,12mm.16mm. 19mm O.D. Tubing,packed in plastic case	10
	CT-809AM-L	/	CT-809AM+CT-274+CT-208	For inch and metric: 6mm, 1/4",9mm,3/8",10mm,12mm,1/2",5/8"(16mm) &3/4",(19mm) O.D. Tubing.packed in plastic case	10
	CT-809Q-L	/	CT-806Q+CT-N274+CT-208	For metric: 4mm,4.75mm,5mm,6mm,6.35mm,8mm,9mm,10mm, 12mm O.D. Tubing, packed in plastic case	10
 RATCHET MODEL 方塑盒	CT-806A-F	CT-R806A-F	CT-806A+CT-274+CT-208/ CT-R806A+CT-274+CT-208	For inch : 1/4",5/16",3/8",1/2",5/8",3/4",O.D. Tubing, packed in plastic case	10
	CT-806M-F	CT-R806M-F	CT-806M+CT-274+CT-208/ CT-R806M+CT-274+CT-208	For metric: 6mm, 8mm,10mm,12mm,16mm,19mmO.D. Tubing, packed in plastic case	10
				For metric: 6mm, 9mm,10mm.12mm.16mm,19mm,O.D. Tubing, packed in plastic case	10
	CT-808A-F	CT-R808A-F	CT-808A+CT-274+CT-208/ CT-R808A+CT-274+CT-208	For inch : 3/16",1/4",5/16",3/8",1/2",5/8",3/4",O.D. Tubing, packed in plastic case	10
	CT-808M-F	CT-R808M-F	CT-808M+CT-274+CT-208/ CT-R808M+CT-274+CT-208	For metric: 5mm,6mm, 8mm,10mm,12mm,16mm,19mmO.D. Tubing, packed in plastic case	10
				For metric: 5mm,6mm, 9mm,10mm.12mm.16mm.19mm,O.D. Tubing, packed in plastic case	10
	CT-806AM-F	CT-R806AM-F	CT-806AM+CT-274+CT-208/ CT-R806AM+CT-274+CT-208	For inch and metric: 6mm, 8mm,10mm,12mm,16mm,19mm& 1/4",5/16",3/8",1/2",5/8",3/4",O.D. Tubing, packed in plastic case	10
				For inch and metric: 6mm, 9mm,10mm,12mm,16mm,19mm& 1/4",5/16",3/8",1/2",5/8",3/4",O.D. Tubing, packed in plastic case	10
	CT-808AM-F	CT-R808AM-F	CT-808AM+CT-274+CT-208/ CT-R808AM+CT-274+CT-208	For inch and metric: 5mm,6mm, 8mm,10mm,12mm,16mm,19mm &3/16",1/4",5/16",3/8",1/2",5/8",3/4",O.D. Tubing, packed in plastic case	10
				For inch and metric: 5mm,6mm, 9mm,10mm,12mm,16mm,19mm &3/16",1/4",5/16",3/8",1/2",5/8",3/4",O.D. Tubing, packed in plastic case	10
			品名规格	(Sets normally have CT-N274 cutter,can change CT-274 cutter, tell when ordering)	Qty/Case (Pcs)
	CT-806AM-L	/	CT-806AM+CT-274+CT-208	For inch and metric: 6mm, 8mm,10mm,12mm,16mm,19mm &1/4",5/16",3/8",1/2",5/8",3/4",O.D. Tubing, packed in plastic case	10
				For inch and metric: 6mm, 9mm,10mm,12mm,16mm,19mm &1/4",5/16",3/8",1/2",5/8",3/4",O.D. Tubing, packed in plastic case	10
	CT-808AM-L	/	CT-808AM+CT-274+CT-208	For inch and metric: 5mm,6mm, 8mm,10mm,12mm,16mm,19mm &3/16",1/4",5/16",3/8",1/2",5/8",3/4",O.D. Tubing, packed in plastic case	10

High-quality Eccentric Flaring Tool(45°)

PATENT NO:
202430477482.4
202321847815.4

RATCHET MODEL



HIGH-QUALITY ECCENTRIC FLARING TOOL(45°)







RATCHET HIGH-QUALITY ECCENTRIC FLARING TOOL(45°)



- Ring riveted expansion strip to ensure long-term accurate use of products
- Overall processing, high precision positioning, to ensure the expansion of smooth uniform, accurate size





Item NO.	Ratchet Model Item NO.	Description	Qty/Case (Pcs)
CT-N806A	CT-RN806A	For inch:1/4".5/16".3/8".1/2".5/8".3/4" O.D. Tubing,individual packed in color box or plastic case	10
CT-N806M	CT-RN806M	For metric: 6mm,8mm,10mm.12mm.16mm.19mm O.D. Tubing,individual packed in color box or plastic case For metric: 6mm,9mm,10mm,12mm,16mm,19mm O.D. Tubing, individual packed in color box or plastic case	10
CT-N808A	CT-RN808A	For inch:3/16",1/4".5/16".3/8".1/2".5/8".3/4" O.D. Tubing,individual packed in color box or plastic case	10
CT-N808M	CT-RN808M	For metric: 5mm,6mm,8mm.10mm.12mm.16mm.19mm O.D. Tubing,individual packed in color box or plastic case For metric: 5mm,6mm,9mm.10mm.12mm.16mm.19mm O.D. Tubing,individual packed in color box or plastic case	10
CT-N809A	CT-RN809A	For inch:1/8",3/16".1/4".5/16",3/8",7/16",1/2",5/8",3/4" O.D. Tubing, packed in plastic case	10
CT-N809AM	CT-RN809AM	For inch and metric: 6mm,1/4",9mm,3/8",10mm,12mm,1/2".5/8"(16mm) & 3/4"(19mm) O.D.Tubing, individual packed in color box or plastic case	10
CT-N809Q	CT-RN809Q	For metric: 4mm,4.75mm,5mm, 6mm,6.35mm,8mm,9mm.10mm.12mm O.D. Tubing, individual packed in color box or plastic case	10



Item NO.	Ratchet Model Item NO.		Description	Qty/Case (Pcs)
CT-805A-L	/	CT-N805A+CT-532+CT-208	For inch and metric: 5/8",3/4",7/8",1",1-1/8"O.D. Tubing packed in plastic case	10
CT-805M-L	/	CT-N805M+CT-532+CT-208	For inch and metric:16mm,19mm,22mm.25mm,28mm O.D. Tubing,packed in plastic case	10
CT-805AM-L	/	CT-N805AM+CT-532+CT-208	For inch and metric: 5/8",3/4",7/8",1",1-1/8" & 16mm,19mm,22mm,25mm.28mm O.D. Tubing, packed in plastic case	10



Item NO.	Ratchet Model Item NO.		Description	Qty/Case (Pcs)
CT-N806A-D	CT-RN806A-D	CT-N806A+CT-207/ CT-RN806A+CT-207	For inch:1/4",5/16",3/8",1/2",5/8",3/4" O.D. Tubing, packed in plastic case	10
CT-N806M-D	CT-RN806M-D	CT-N806M+CT-207/ CT-RN806M+CT-207	For metric: 6mm,8mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case For metric: 6mm,9mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	10
CT-N808A-D	CT-RN808A-D	CT-N808A+CT-207/ CT-RN808A+CT-207	For inch:3/16",1/4",5/16",3/8",1/2",5/8",3/4" O.D. Tubing, packed in plastic case	10
CT-N808M-D	CT-RN808M-D	CT-N808M+CT-207/ CT-RN808M+CT-207	For metric: 5mm,6mm,8mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case For metric: 5mm,6mm,9mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	10
CT-N809A-D	CT-RN809A-D	CT-N809A+CT-207/ CT-N809A+CT-207	For inch:1/8",3/16",1/4",5/16",3/8",7/16",1/2",5/8",3/4" O.D. Tubing, packed in plastic case	10
CT-N809AM-D	CT-RN809AM-D	CT-N809AM+CT-207 CT-RN809AM+CT-207	For metric: 6mm,1/4",9mm,3/8",10mm,12mm,1/2",5/8"(16mm)& 3/4"(19mm)O.D. Tubing, packed in plastic case	10
CT-N809Q-D	CT-RN809Q-D	CT-N809Q+CT-207/ CT-RN809Q+CT-207	For metric: 4mm,4.75mm,5mm,6mm,6.35mm,8mm,9mm,10mm,12mm O.D. Tubing, packed in plastic case	10



Item NO.	Ratchet Model Item NO.		Description	Qty/Case (Pcs)
CT-N806A-L	CT-RN806A-L	CT-N806A+CT-532+CT-207/ CT-RN806A+CT-532+CT-207	For inch:1/4",5/16",3/8",1/2",5/8",3/4" O.D. Tubing, packed in plastic case	10
CT-N806M-L	CT-RN806M-L	CT-N806M+CT-532+CT-207/ CT-RN806M+CT-532+CT-207	For metric: 6mm,8mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case For metric: 6mm,9mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	10
CT-N808A-L	CT-RN808A-L	CT-N808A+CT-532+CT-207/ CT-RN808A+CT-532+CT-207	For inch:3/16",1/4",5/16",3/8",1/2",5/8",3/4" O.D. Tubing, packed in plastic case	10
CT-N808M-L	CT-RN808M-L	CT-N808M+CT-532+CT-207/ CT-RN808M+CT-532+CT-207	For metric: 5mm,6mm,8mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case For metric: 5mm,6mm,9mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	10
CT-N809Q-L	CT-RN809Q-L	CT-N809Q+CT-532+CT-207/ CT-RN809Q+CT-532+CT-207	For metric: 4mm,4.75mm,5mm,6mm,6.35mm,8mm,9mm,10mm,12mm O.D. Tubing, packed in plastic case	10

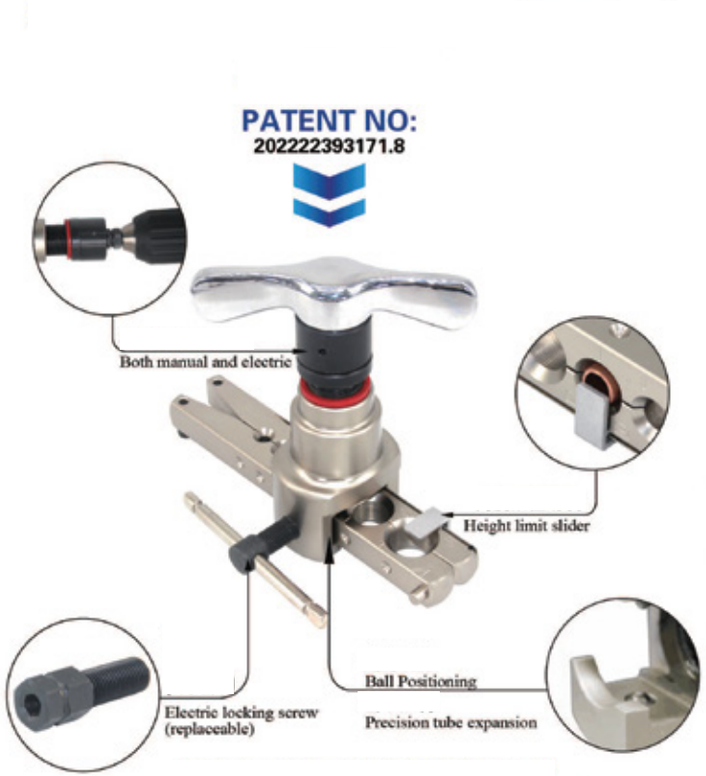


Item NO.	Ratchet Model Item NO.		Description	Qty/Case (Pcs)
CT-N806AM-D	CT-RN806AM-D	CT-N806AM+CT-207/ CT-RN806AM+CT-207	For inch and metric: 1/4",5/16",3/8",1/2",5/8",3/4" &6mm,8mm, 10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case For inch and metric: 1/4",5/16",3/8",1/2",5/8",3/4" &6mm,9mm, 10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	10
CT-N808AM-D	CT-RN808AM-D	CT-N808AM+CT-207/ CT-RN808AM+CT-207	For inch and metric: 3/16", 1/4",5/16",3/8",1/2",5/8",3/4" & 5mm, 6mm,8mm,10mm.12mm.16mm,19mm O.D. Tubing, packed in plastic case For inch and metric: 3/16", 1/4",5/16",3/8",1/2",5/8",3/4" & 5mm, 6mm,9mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	10
CT-N806A +809Q-D	CT-RN806A +R809Q-D	CT-N806A+ CT-N809Q+CT-207/ CT-RN806A+ CT-RN809Q+CT-207	For inch and metric:1/4",5/16",3/8",1/2",5/8",3/4" &4mm, 4.75mm, 5mm,6mm,6.35mm,8mm.9mm.10mm.12mm O.D. Tubing, packed in plastic case	10
CT-N806M +809A-D	CT-RN806M +R809A-D	CT-N806M+ CT-N809Q+CT-207/ CT-RN806M+ CT-RN809Q+CT-207	For inch and metric:6mm,8mm,10mm,12mm,16mm,19mm,& 1/8",3/16",1/4",5/16",3/8",7/16"1/2",5/8",3/4", O.D. Tubing, packed in plastic case For inch and metric:6mm,9mm,10mm,12mm,16mm,19mm,& 1/8",3/16",1/4",5/16",3/8",7/16"1/2",5/8",3/4", O.D. Tubing, packed in plastic case	10



Item NO.	Ratchet Model Item NO.		Description	Qty/Case (Pcs)
CT-N806AM-L	CT-RN806AM-L	CT-N806AM+CT-532+CT-207/ CT-RN806AM+CT-532+CT-207	For inch and metric: 1/4",5/16",3/8",1/2",5/8",3/4" &6mm,8mm, 10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case For inch and metric: 1/4",5/16",3/8",1/2",5/8",3/4" &6mm,9mm, 10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	10
CT-N808AM-L	CT-RN808AM-L	CT-N808AM+CT-532+CT-207/ CT-RN808AM+CT-532+CT-207	For inch and metric: 3/16", 1/4",5/16",3/8",1/2",5/8",3/4" & 5mm, 6mm,8mm,10mm.12mm.16mm,19mm O.D. Tubing, packed in plastic case For inch and metric: 3/16", 1/4",5/16",3/8",1/2",5/8",3/4" & 5mm, 6mm,9mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	10
CT-N806A +809Q-L	CT-RN806A +809Q-L	CT-N806A+ CT-N809Q+CT-532+CT-207/ CT-RN806A+ CT-RN809Q+CT-532+CT-207	For inch and metric:1/4",5/16",3/8",1/2",5/8",3/4" &4mm, 4.75mm, 5mm,6mm,6.35mm,8mm,9mm,10mm,12mm O.D. Tubing, packed in plastic case	10

Manual & Electric Eccentric Flaring Tool(45°)





MANUAL&ELECTRIC ECCENTRIC FLARING TOOL(45°)

- Ring riveted expanding bar, steel ball positioning, to ensure the long-term accurate use of the product
- Integral processing, high-precision positioning, to ensure uniform and smooth flaring mouth, the size of the precise

MANUAL&ELECTRIC&RATCHET ECCENTRIC FLARING TOOL(45°)

- With ratchet function, easy and efficient
- Copper tube height limit, both manual and electric, convenient and flexible.

Operating Steps:



- Remove the burr from the orifice of the copper pipe, place it in the corresponding hole on the splint, move the positioning block above the copper pipe, and then push the copper pipe onto the positioning block.
- Move the splint to the corresponding position and tighten the bracket locking screws to secure the splint
- Replaceable locking screw for use with electric drill
- Turn the handle to expand the pipe
- The handle of the support can also be pulled out and the tube can be expanded with an electric drill
- Insert the hexagonal batching head into the electric drill and lock it tightly
- Insert the other end of the hexagonal batch head into the socket of the bracket head
- Hold the support and splint firmly, open the drill, and expand the tube.
  After the expansion is completed, open the drill in reverse, exit the cone head of the tube expansion, and take out the splint

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

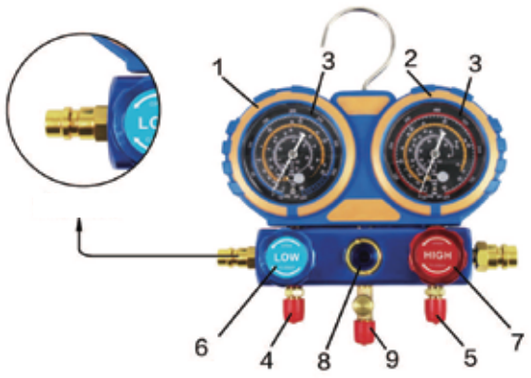
	Item NO.	Ratchet Model Item NO.	Description	Qty/Case /Pail
	CT-S806A	CT-RS806A	For inch:1/4",5/16",3/8",1/2",5/8",3/4" O.D. Tubing, individual packed in color box or plastic case	10
	CT-S806M	CT-RS806M	For metric: 6mm,8mm,10mm,12mm,16mm,19mm O.D. Tubing, individual packed in color box or plastic case	10
			For metric: 6mm,9mm,10mm,12mm,16mm,19mm O.D. Tubing, individual packed in color box or plastic case (9mm孔)	
	CT-S809AM	CT-RS809AM	For metric: 6mm,1/4",9mm,3/8",10mm,12mm,1/2",5/8"(16mm)& 3/4"(19mm)O.D. Tubing, packed in plastic case	10

	Item NO.	Ratchet Model Item NO.	Description		Qty/Case /Pail
 RATCHET MODEL	CT-S806A-D	CT-RS806A-D	CT-S806A+CT-207/ CT-RS806A+CT-207	For inch:1/4",5/16",3/8",1/2",5/8",3/4" O.D. Tubing, packed in plastic case	10
	CT-S806M-D	CT-RS806M-D	CT-S806M+CT-207/ CT-RS806M+CT-207	For metric: 6mm,8mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	10
				For metric: 6mm,9mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	
	CT-S809AM-D	CT-RS809AM-D	CT-S809AM+CT-207/ CT-RS809AM+CT-207	For metric: 6mm,1/4",9mm,3/8",10mm,12mm,1/2",5/8"(16mm)& 3/4"(19mm)O.D. Tubing, packed in plastic case	10

	Item NO.	Ratchet Model Item NO.	Description		Qty/Case /Pail
 RATCHET MODEL	CT-S806A-L	CT-RS806A-L	CT-S806A+CT-532+CT-207/ CT-RS806A+CT-532+CT-207	For inch:1/4",5/16",3/8",1/2",5/8",3/4" O.D. Tubing, packed in plastic case	10
	CT-S806M-L	CT-RS806M-L	CT-S806M+CT-532+CT-207/ CT-RS806A+CT-532+CT-207	For metric: 6mm,8mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	10
				For metric: 6mm,9mm,10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	

	Item NO.	Ratchet Model Item NO.	Description		Qty/Case /Pail
 RATCHET MODEL	CT-S806AM-L	CT-RS806AM-L	CT-S806AM+CT-532+CT-207/ CT-RS806AM+CT-532+CT-207	For inch and metric: 1/4",5/16",3/8",1/2",5/8",3/4" &6mm,8mm, 10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	10
				For inch and metric: 1/4",5/16",3/8",1/2",5/8",3/4" &6mm,9mm, 10mm,12mm,16mm,19mm O.D. Tubing, packed in plastic case	

Flaring Tool&Manifold Set



- All copper joint
- Metal operated hand wheel
- Dual movement shock-proof pressure gauge

Anti-collision pressure gauge								



Three color fluorinated tube	
	1.5m
	4000psi
	1/4"-1/4"
	1/4"-5/16"
	1/4"-5/16"



CT-N806

CT-532

CT-207

CT-N806M

CT-N806A

CT-319

- Accurate flaring
- Fast cutting
- Steel ball positioning

Anti-collision pressure gauge	
	R22/R134a/R410A/R32
	-30~550psi
	∅70mm
	-30~800psi

R22/R134a/R410A/R32)。

Application:Suitable for refrigeration and maintenance ,e.g. refrigerant charging of air conditioning systems and display of real-time system pressure(applicable refrigerant:R22/R134a/R410A/R32).



Item NO.	Description	Spec.	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-8A	Flaring Tool&Manifold Set +CT-N806AM+ CT-532+207+CT-319	1/4",5/16",3/8",1/2",5/8",3/4"; 6mm,8mm,10mm,12mm,16mm,19mm	4	20.5/19.5	43x38x33
		1/4",5/16",3/8",1/2",5/8",3/4"; 6mm,8mm,10mm,12mm,16mm,19mm			

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

Tube Repair Plier



CT-301

PATENT NO:
202330591628.3
202430174871X

★ 1/4",3/8",1/2",5/8",3/4",7/8"

★ Use for 1/4",3/8",1/2",5/8",3/4",7/8"

★ Easily repair flattened pipes.





Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-301	Repair Plier	1/4",3/8",1/2",5/8",3/4",7/8"	20	10.5/9.5	37x28x23

Tube Straightening Tool



PATENT NO:
202330417542.9



CT-302



Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	Carton Size (cm)
CT-302-02	Tube straightening tool	1/8"(3mm)	20	38x22x43
CT-302-4mm	Tube straightening tool	4mm	20	38x22x43
CT-302-03A	Tube straightening tool	3/16"	20	38x22x43
CT-302-03M	Tube straightening tool	5mm	20	38x22x43
CT-302-04A	Tube straightening tool	1/4"	20	38x22x43
CT-302-04M	Tube straightening tool	6mm	20	38x22x43
CT-302-05	Tube straightening tool	5/16"(8mm)	20	38x22x43
CT-302-9mm	Tube straightening tool	9mm	20	38x22x43

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	Carton Size (cm)
CT-302-06A	Tube straightening tool	3/8"	20	38x22x43
CT-302-06M	Tube straightening tool	10mm	20	38x22x43
CT-302-08A	Tube straightening tool	1/2"	20	38x22x43
CT-302-08M	Tube straightening tool	12mm	20	38x22x43
CT-302-09	Tube straightening tool	14mm	20	38x22x43
CT-302-15mm	Tube straightening tool	15mm	20	38x22x43
CT-302-10	Tube straightening tool	5/8"(16mm)	20	38x22x43
CT-302-11	Tube straightening tool	18mm	20	38x22x43
CT-302-12	Tube straightening tool	3/4"(19mm)	20	38x22x43

Spring Tube Bender



CT-102-L (210mm)
Regular model (lengths210mm)

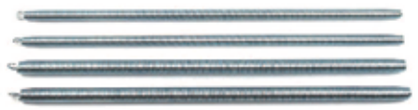


CT-102 (350mm)
Extended model (lengths350mm)



CT-102
Bend Schematic (Outside the copper tube)

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-102-L	Tube bender	1/4", 5/16", 3/8",1/2",5/8" (210mm)	50	17/16	40x25x23
CT-102-03	Tube bender	3/16" (350mm)	100	7/6	40x23x20
CT-102-04	Tube bender	1/4" (350mm)	100	8/7	40x23x20
CT-102-05	Tube bender	5/16" (350mm)	100	12/11	40x23x23
CT-102-06	Tube bender	3/8" (350mm)	100	15.5/14.5	40x23x23
CT-102-08	Tube bender	1/2" (350mm)	75	18/17	40x23x23
CT-102-10	Tube bender	5/8" (350mm)	50	17/16	40x23x20
CT-102-12	Tube bender	3/4" (350mm)	50	20/19	40x23x23
CT-102-14	Tube bender	7/8" (350mm)	50	21/20	40x23x23



CT-202
(Lengths1m)



Single Packaging



Overall Packaging

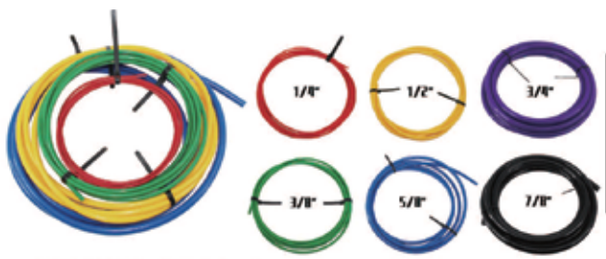


CT-202
Bend Schematic (Inside a copper tube)

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)
CT-202-03	Tube bender	3/16" (1m)	100	6/5
CT-202-04	Tube bender	1/4" (1m)	100	11/10
CT-202-05	Tube bender	5/16" (1m)	100	17/16
CT-202-06	Tube bender	3/8" (1m)	80	16/15

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)
CT-202-08	Tube bender	1/2" (1m)	80	26/25
CT-202-10	Tube bender	5/8" (1m)	50	22/21
CT-202-12	Tube bender	3/4" (1m)	30	21/20

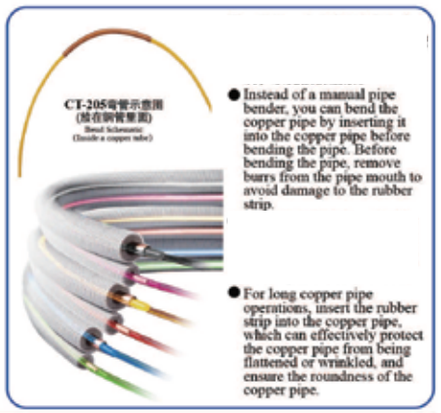
Built-in Copper Tube Bending Rubber Strip



CT-205-L
(Lengths4m)



Overall Packaging



- Instead of a manual pipe bender, you can bend the copper pipe by inserting it into the copper pipe before bending the pipe. Before bending the pipe, remove burrs from the pipe mouth to avoid damage to the rubber strip.
- For long copper pipe operations, insert the rubber strip into the copper pipe, which can effectively protect the copper pipe from being flattened or wrinkled, and ensure the roundness of the copper pipe.

Note:Standard length is 4 meters, length can be customized upon request.

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)
CT-205-L	Built-in Copper Tube Bending Rubber Strip	1/4",3/8",1/2",5/8"(4m)	12	11/10
CT-205-04		1/4" (4m)		0.044kg/PCS
CT-205-06		3/8" (4m)		0.135kg/PCS
CT-205-08		1/2" (4m)		0.273kg/PCS

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)
CT-205-10	Built-in Copper Tube Bending Rubber Strip	5/8" (4m)		0.422 kg/PCS
CT-205-12		3/4" (4m)		0.658kg/PCS
CT-205-14		7/8" (4m)		0.915 kg/PCS

Multi Tube Bender



CT-268

PATENT NO:
ZL201830507575.1



CT-367
CT-S367



CT-368

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-268A	180° 2-in-1 TUBE BENDER	1/4" & 5/16 " O.D Tubing	30	9.5/8.5	37x24.5x38
CT-268M	180°	6mm & 8mm O.D Tubing			
CT-367A CT-367M	90° 3-in-1 Tube bender 90°	1/8", 3/16", 1/4" 3mm, 5mm, 6mm	50	8.5/7.5	33x32x21.5
CT-S367	90° 3-in-1 Tube bender 90°	1/8", 5/32", 3/16" (3mm, 4mm, 5mm)	50	8.5/7.5	33x32x21.5
CT-368A CT-368M	90° 3-in-1 Tube bender 90°	1/4", 5/16", 3/8" 6mm, 8mm, 10mm	20	11/10	36x28x29



CT-369



CT-N369

PATENT NO:
ZL201821518037.3
202030576505.9



CT-369FHA

PATENT NO:
ZL201821518037.3
ZL201830507863.7



Ergonomic design skidproof handle



Multi stepped bender grooves



Tube size testing design



Handle can be adjusted 180°

Item NO.	Name	Spec. (mm)	Description	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-369A CT-369M	180° 3-in-1 Tube bender	1/4", 5/16", 3/8" 6mm, 8mm, 10mm		20	10/9	36x28x29
CT-N369A	180° 3-in-1 TUBE BENDER	1/4",5/16"& 3/8" O.D Tubing		20	11/10	36x30x32
CT-N369M		6mm,8mm &10mm O.D Tubing				
CT-369FHA	180°4-in-1 FIBRE TUBE BENDER	3/16" 1/4" 5/16"& 3/8"O.D Tubing		20	11/10	44.5x32.5x29

Multi Tube Bender



CT-612



CT-5060A



CT-5060B

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-612A	180° 3-in-1 Tube bender	1/4",3/8",1/2"	12	16/15	46.5x42.5x31
CT-612M		6mm,10mm,12mm			
CT-5060A	90° 2-in-1 Tube bender	15mm,22mm (19/32",7/8")	4	18.5/17.5	75x28.5x30.5
CT-5060B	90° 2-in-1 Tube bender	15mm,22mm (19/32",7/8")	4	18.5/17.5	75.6x32x28

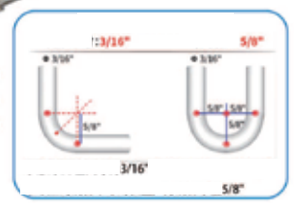
Tube Bender





PATENT NO:
202030689600.X





CT-364-04	6mm or	1/4"	CT-364B-04	6mm or	1/4"	CT-364-10	16mm(5/8")
CT-364-05	8mm(5/16")		CT-364B-05	8mm(5/16")		CT-364-12	19mm(3/4")
CT-364-06	10mm or	3/8"	CT-364B-06	10mm or	3/8"	CT-364-14	22mm(7/8")
CT-364-08	12mm or	1/2"	CT-364B-08	12mm or	1/2"		
CT-364-09	14mm		CT-364B-09	14mm			

CT-364B-04~09 CT-364-04~09

- Each tool bends one size.
- For bending soft coppe. brass. aluminium. steel. stainless steel and other very thinner metals.
- Calibrated marking with red color to show angle of bend,Wide hook grips tugging securely.
- Makes smooth short radius bends up to 180° with minmum effort, No marking. scraping or flattening of tubing.
- New fixed hook tube benders furnished have easy 90° start-require much less effort to make fast, accurate bends.

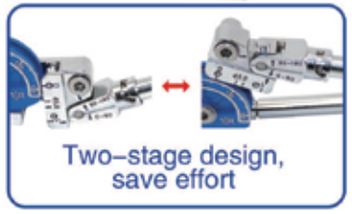
Item NO.	Name	Spec. (mm)	Bending radius (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-364-04A CT-364-04M	Tube bender	1/4" 6mm	14.4	20	8.5/7.5	34x27.5x26
CT-364-05	Tube bender	5/16"=7.95mm 8mm (inch size=metric size)	17.5	20	8.5/7.5	34x27.5x26
CT-364-06A CT-364-06M	Tube bender	3/8" 10mm	22.7	12	11.5/10.5	35x32x26
CT-364-08A CT-364-08M	Tube bender	1/2" 12mm	37.5	12	20/18	49x37x34
CT-364-09	Tube bender	14mm	36.5	12	20/19	49x37x34
CT-364-10	Tube bender	5/8"=15.88mm 16mm (inch size=metric size)	55	8	18.5/17.5	67x35x26
CT-364-12	Tube bender	3/4"=19.05mm 19mm (inch size=metric size)	75	8	23/22	75x35x30
CT-364-14	Tube bender	7/8"=22.2mm 22mm (inch size=metric size)	82	8	26.5/25.5	75x35x30

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

Heavy-Duty Tube Bender

PATENT NO:
202030765420.5
202130706775.1
202122405197.5









Bendable copper pipe, aluminum pipe, iron pipe, stainless steel pipe and other pipes

Item NO.	Name	Spec. (mm)	Bending radius (mm)	Qty/Case (Pcs)
CT-365-03A CT-365-03M	Heavy-duty tube bender	3/16" 5mm	14	20
CT-365-04A CT-365-04M	Heavy-duty tube bender	1/4" 6mm	13.8	20
CT-365-05	Heavy-duty tube bender	5/16"=7.95mm 8mm (inch size=metric size)	23.5	12
CT-365-06A CT-365-06M	Heavy-duty tube bender	3/8" 10mm	23.2	12
CT-365-08A CT-365-08M	Heavy-duty tube bender	1/2" 12mm	36.3	12
CT-365-09M	Heavy-duty tube bender	14mm	36.6	12
CT-365-15mm	Heavy-duty tube bender	15mm	53.5	8
CT-365-10	Heavy-duty tube bender	5/8"=15.88mm 16mm (inch size=metric size)	53.5	8
CT-365-11	Heavy-duty tube bender	18mm	71.8	6
CT-365-12	Heavy-duty tube bender	3/4"=19.05mm 19mm (inch size=metric size)	71.8	6
CT-365-13	Heavy-duty tube bender	20mm	80.8	6
CT-365-14	Heavy-duty tube bender	7/8"=22.2mm 22mm (inch size=metric size)	80.8	6

90°Multi Bender Kit



CT-999 CT-999F CT-999N CT-999RF

Features

- Designed to bend soft sopper and coated soft copper of 6mm to 22mm as well as Mepla multilayer pipe up to 22mm
- Unique sliding mechanism places formers quickly in correct tube diameter position.



CT-999 and CT-999RF ordinary aluminum disk can be replaced with color aluminum disk

Tube Bending Instruction



1.Prepare before bending-universal crossbar and formerinstall

2.Prepare before bending-placing a tube

3.Bending - push the feed lever repeatedly

4.Bending finished - take the bended tube out

5.Bending finished - take out the stuck tube

Item NO.	Name	Spec. (mm)	Material	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-999	90° Tube Bender Kit	For Inch:1/4",5/16",3/8",1/2",5/8",3/4", 7/8"O.D.Tubing. For Metric:6,8,10,12,16,19,22mm O.D.Tubing.	Fibre wheel	4	16/15	46.5x32x27
CT-999F	90° Tube Bender Kit	For Inch:1/4",5/16",3/8",1/2",5/8",3/4",7/8",O.D.Tubing. For Metric:6,8,10,12,16,19,22mm O.D.Tubing.	Aluminum alloy wheel	4	17/16	46.5x32x27
CT-999N	90° Tube Bender Kit	For Inch:1/4",5/16",3/8",1/2",5/8",3/4", 7/8"O.D.Tubing. For Metric:6,8,10,12,16,19,22mm O.D.Tubing. CT-532	Aluminum alloy wheel	4	18/17	46.5x34x33
CT-999RF	90° Tube Bender Kit	For Inch:1/4",5/16",3/8",1/2",5/8",3/4", 7/8"O.D.Tubing. For Metric:6,8,10,12,16,19,22mm O.D.Tubing. With special reverse direction bending function	Aluminum alloy wheel	4	21/20	46.5x34x33

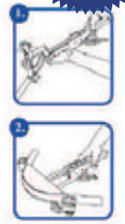
PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

90°Multi Bender Kit

PATENT NO: 202130780796.8



CT-999 (The new plastic box) CT-999F (The new plastic box) CT-999RF (The new plastic box)





Features

- Designed to bend soft sopper and coated soft copper of 6mm to 22mm as well as Mepla multilayer pipe up to 22mm
- Unique sliding mechanism places formers quickly in correct tube diameter position.



CT-999 and CT-999RF ordinary aluminum disk can be replaced with color aluminum disk

Revers Tube Bending Instruction



1.Prepare before bending-fix former holder and universal crossbar holder on housing

2.Prepare before bending - universal crossbar and former install

3.Prepare before bending - placing a tube

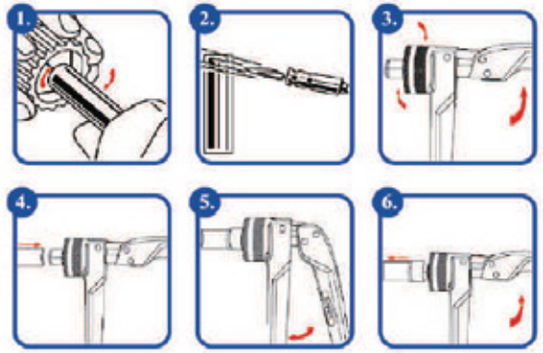
4.Bending - push the feed lever repeatedly

5.Bending finished - take the bended tube out

Item NO.	Name	Spec. (mm)	Material	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-999 (The new plastic box)	90° Tube Bender Kit	For Inch:1/4",5/16",3/8",1/2",5/8",3/4", 7/8"O.D.Tubing. For Metric:6,8,10,12,16,19,22mm O.D.Tubing. (Optional Cutters)	Fibre wheel	4	17/16	44.5x37.5x34
CT-999F (The new plastic box)	90° Tube Bender Kit	For Inch:1/4",5/16",3/8",1/2",5/8",3/4",7/8",O.D.Tubing. For Metric:6,8,10,12,16,19,22mm O.D.Tubing. (Optional Cutters)	Aluminum alloy wheel	4	18/17	44.5x37.5x34
CT-999RF (The new plastic box)	90° Tube Bender Kit	For Inch:1/4",5/16",3/8",1/2",5/8",3/4", 7/8"O.D.Tubing. For Metric:6,8,10,12,16,19,22mm O.D.Tubing. With special reverse direction bending function 带反向弯管功能 (Optional Cutters)	Aluminum alloy wheel	4	22/21	44.5x37.5x34

Lever Tube Expanding Tool





SIX EASY STEPS:

- Deburr inside of tube.
- To create perfectly expanded tubing for soldering or brazing, you must use sofl copper or fully anneal end of tube to be expanded.
- Pull expander handle up to 90-degree position.Maintain this position as you screw the appropriate size head over the center-punch and tighten.
- Insert the end of the tube over the expander head completely.
- Pull the lever completely down.
- Retum the lever to the 90-degree position. Remove expanded tube.



CT-100A / CT-100M



CT-100A-L / CT-100M-L



CT-100A/CT-100M

(The new plastic box)



CT-100A-L/CT-100M-L

(The new plastic box)

Optional Cutters



CT-650 5-50mm (1/4"-2")



CT-312 6-42mm (1/4"-1-5/8")

CT-100 / CT-100-L TUBE EXPANDING KIT

- Hand-operated, single-stage expanderis designed to expand tubing for fast, accurate joints in soft copper,aluminium,and soft steel tube without using fittings.
- Free-floating and self-centering expandsr mechanism.
- Expander segments are made of high-quality hardened steel.

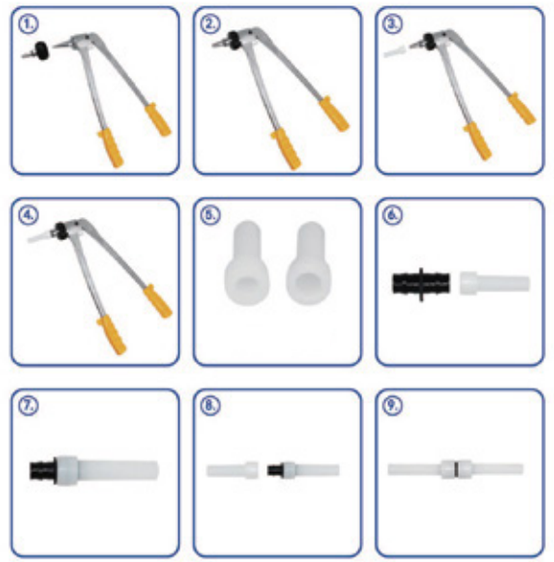
Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-100A CT-100M	Lever Tube Expanding Tool Kit	3/8",1/2",5/8",3/4", 7/8",1",1-1/8" +CT-207+____ (Tube cutter)	4	16.5/15.5	54x23x28.5
		10, 12, 16. 19. 22, 25, 28mm +CT-207+____ (Tube cutter)		18.5/17.5	44.5x37.5x34
CT-100A-L CT-100M-L	Lever Tube Expanding Tool Kit	3/8",1/2",5/8",3/4", 7/8",1",1-1/8",1-1/4",1-3/8", 1-1/2"& 1-5/8"+CT-207+ (Tube cutter)	4	20/19	54x23x28.5
		10, 12, 16, 19, 22, 25, 28, 32, 35, 38 & 42mm +CT-207+____ (Tube cutter)		22/21	44.5x37.5x34

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

PEX Lever Tube Expanding Tool



CT-100-PEX



SIX EASY STEPS:

- Deburr inside of tube.
- Pull expander handle up to 90-degree position.Maintain this position as you screw the appropriate size head over the center-punch and tighten.
- Insert the end of the tube over the expander head completely.
- Pull the lever completely down.
- Retum the lever to the 90-degree position. Remove expanded tube.
- Connect the two expanded tubes together through the connecting head.

- Hand-operated, single-stage expanderis designed to expand tubing for fast, accurate joints in soft copper,aluminium,and soft steel tube without using fittings.
- Free-floating and self-centering expandsr mechanism.
- Expander segments are made of high-quality hardened steel.



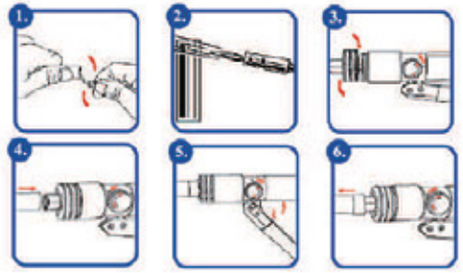
Expander Size 胀头规格			
Inch Item NO. 英制型号	SPEC 规格	Metric Item NO. 公制型号	SPEC 规格
100A-PEX-1/2"	1/2"	100M-PEX-16mm	16mm
100A-PEX-3/4"	3/4"	100M-PEX-20mm	20mm
100A-PEX-1"	1"	100M-PEX-25mm	25mm
		100M-PEX-32mm	32mm

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-100A-PEX	PEX Lever Tube Expanding Tool Kit	1",1/2",3/4" +CT-207+CT-1063(PVC ppi cutter)	4	18/17	45x415x35
CT-100M-PEX	PEX Lever Tube Expanding Tool Kit	16mm,20mm,25mm,32mm +CT-207+CT-1063(PVC ppi cutter)	4	20/19	45x415x35

Hydraulic Tube Expander



- manual hydraulic mechanism designed can expand from 10mm to 42mm O.D. tubing easily with less effort.
- used for soft copper tube,Aluminum tube,Titanium tube,soft steel and other soft tube.
- expander segments are made of high-quality hardened steel.

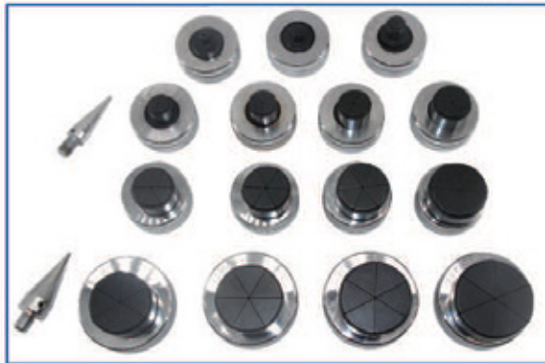




SIX EASY STEPS:

- 除去管内毛刺。
- 如果有必要,给管子退火（用于硬管或者厚管）。
- 将胀头放到胀管器上。
- 将管子末端放到用头上。
- 将减压阀放钮向‘ON’方向并往紧然后反复压动手柄直到管子完全胀开。
  将松压阀放钮放至‘OFF’位时松开胀头，取下胀好的管子。
- de burr inside of tube.
- anneal the tube if necessary(for hard or thick walltube).
- screw the expander head on expander.
- put the end of tube on expander head.
- tighten the relief valve knob to ‘On’ position then pump handle until tube is expanded to the end.
- turn the relief valve knob to ‘OFF’ position to loosen expander head. remove expanded tube.

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-300A CT-300M	Hydraulic Tube Expander Tool Kit	3/8",1/2",5/8",3/4", 7/8",1",1-1/8" +CT-207+CT-107(CT-650	4	17/16	46.5x32x27
		10, 12, 16, 19, 22, 25, 28 mm+ CT - 207 + CT-107(CT-650		18.5/17.5	44.5x37.5x34
CT-300AL CT-300M-L	Hydraulic Tube Expander Tool Kit	3/8"/,1/2",5/8",3/4", 7/8",1",1-1/8",1-1/4", 1-3/8",1-1/2",1-5/8",+CT-207+CT-107 CT-650	4	20.5/19.5	46.5x32x27
		10, 12, 16, 19, 22, 25, 28 ,32, 35. 38. 42 mm+ CT-207 + CT-107 (CT-650		22/21	44.5x37.5x34



Expander Heads Size 胀头规格

Inch Item NO.	SPEC		General Metric Item NO.	SPEC
300A-N2	1-3/4"~2-1/8"	=	300A-N2	For 45~54mm
100A-12	1-3/4"	=	100M-12	45mm
100A-13	1-7/8"	=	100M-13	48mm
100A-14	2"	=	100M-14	50mm
100A-15	2-1/8"	=	100M-15	54mm

Expander Heads Size

Inch Item NO.	SPEC		General Metric Item NO.	SPEC
300A-N1	1/4"~1-5/8"	=	300A-N1	For 6~42mm
100A-1	3/8"		100M-1	10mm
100A-2	1/2"		100M-2	12mm
100A-3	5/8"	=	100M-3	16mm
100A-4	3/4"	=	100M-4	19mm
100A-5	7/8"	=	100M-5	22mm
100A-6	1"		100M-6	25mm
100A-7	1-1/8"		100M-7	28mm
100A-8	1-1/4"	=	100M-8	32mm
100A-9	1-3/8"	=	100M-9	35mm
100A-10	1-1/2"	=	100M-10	38mm
100A-11	1-5/8"	=	100M-11	42mm

Note: The following expansion head is non-standard specification. There is no such specification in the normal set, which needs to be purchased separately.

100A-1/4"	1/4"		100M-6mm	6mm
100A-5/16"	5/16"		100M-8mm	8mm
			100M-14mm	14mm
			100M-15mm	15mm
			100M-18mm	18mm
			100M-20mm	20mm

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

High-quality Hydraulic Tube Expander



PATENT NO:
ZL202230725068.1

10mm 42mm

Can be operated with one hand

- Can be operated with one hand.
- manual hydraulic mechanism designed can expand from 10mm to 42mm O.D. tubing easily with less effort.
- used for soft copper tube,Aluminum tube,Titanium tube,soft steel and other soft tube.
- expander segments are made of high-quality hardened steel.



SIX EASY STEPS:

- de burr inside of tube.
- anneal the tube if necessary(for hard or thick walltube).
- screw the expander head on expander.
- put the end of tube on expander head.
- tighten the relief valve knob to ‘On’ position then pump handle until tube is expanded to the end.
- turn the relief valve knob to ‘OFF’ position to loosen expander head. remove expanded tube.



CT-N300A/CT-N300M

CT-N300A-L/CT-N300M-L



Hudraulic Expander Punch	
CT-N300-S1	10-42mm(3/8" -1-5/8")
CT-N300-S2	45-54mm(1-3/4" -2-1/8")

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-N300A CT-N300M	High-quality Hydraulic Tube Expander	3/8",1/2",5/8",3/4", 7/8",1",1-1/8" +CT-207+CT-208+CT-650	4	20/19	44.5x37.5x34
		10, 12, 16, 19, 22, 25, 28 mm+ CT - 207 +CT-207+CT-208+CT-650			
CT-N300A-L CT-N300M-L	High-quality Hydraulic Tube Expander	3/8"/,1/2",5/8",3/4", 7/8",1",1-1/8",1-1/4", 1-3/8",1-1/2",1-5/8", +CT-207+CT-208+CT-650	4	23.5/22.5	44.5x37.5x34
		10, 12, 16, 19, 22, 25, 28 ,32, 35, 38, 42 mm++CT-207+CT-208+CT-650			

Swaging Needle

PATENT NO:
2020212700l1.9
202030347871.7
202105630 63.9
202130563301.6
ZL202230090011.9



CT-900S-A



CT-900S-AM



CT-N900S-A

Precision casting





CT-900S-4S

Machining&wire cutting

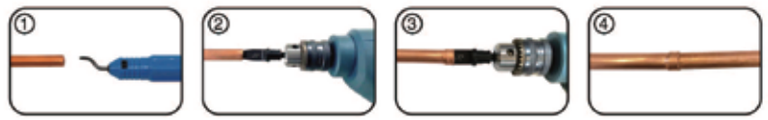
CT-900S-5S

Machining&wire cutting



CT-N900S-5S

Precision casting



1. Use reamer to remove burr on inner wall of pipe end.
(Please take safety precautions during the whole process)

2. Select the corresponding expansion needle and fix it on the electric drill.
(It is recommended to use electric drill with power above 550W)

3. Secure the tube, insert the expansion needle into the copper tube,start the electric drill to expand the pipe.
(It is recommended to use universal tube expander splint to clamp fixed copper pipe)

4. Turn off the drill, remove the copper pipe and insert another copper pipe.

Item NO.	Name	Spec. (mm)	Description	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (Cm)
CT-900S-6-8-10mm	Swaging Needle	6mm,8mm,10mm	6,8,10mm	100	9/8	20x20x20
CT-900S-9-12mm	Swaging Needle	9mm,12mm	9,12mm	100	9/8	20x20x20
CT-900S-04-05-06	Swaging Needle	1/4",5/16",3/8"	1/4" , 5/16", 3/8"	100	9/8	20x20x20
CT-900S-08-10	Swaging Needle	1/2",5/8"	1/2" , 5/8"	100	9/8	20x20x20
CT-900S-12	Swaging Needle	3/4"	3/4"	100	9/8	20x20x20
CT-900S-14	Swaging Needle	7/8"	7/8"	100	9/8	20x20x20
CT-900S-A	Swaging Needle	1/4",5/16",3/8",1/2",5/8",3/4",7/8"	CT-900S-04-05-06, CT-900S-08-10, CT-900S-12, CT-900S-14	20	8/7	38.5x20x21.5
CT-900S-AM	Swaging Needle	metric:6,8,9,10,12mm inch:1/4",5/16",3/8",1/2", 5/8",3/4",7/8"	CT-900S-04-05-06, CT-900S-08-10, CT-900S-12, CT-900S-14,CT-900S-6-8-10mm, CT-900S-9-12mm	20	8/7	38.5x20x21.5
CT-N900S-A	Swaging Needle	1/4",3/8",1/2",5/8",3/4",7/8" Precision casting	CT-N900S-04, CT-N900S-06, CT-N900S-08, CT-N900S-10, CT-N900S-12, CT-N900S-14	20	8/7	38.5x20x21.5
CT-900S-4S	4-in-1 Swaging Needle	1/4",3/8",1/2",5/8" Machining&wire cutting	1/4"(6mm),3/8"(9mm),1/2"(12mm), 5/8"(16mm)	100	8/7	40x23x20
CT-900S-5S	5-in-1 Swaging Needle	1/4",3/8",1/2",5/8",3/4" Machining&wire cutting	1/4"(6mm),3/8"(9mm),1/2"(12mm), 5/8"(16mm),3/4"(19mm)	100	9/8	40x23x20
CT-N900S-5S	5-in-1 Swaging Needle	1/4",3/8",1/2",5/8",3/4" Precision casting	1/4"(6mm),3/8"(9mm),1/2"(12mm), 5/8"(16mm),3/4"(19mm)	100	11/10	40x23x20

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

Flaring Head

PATENT NO:
202030542977.2
202021999773.2



CT-900F

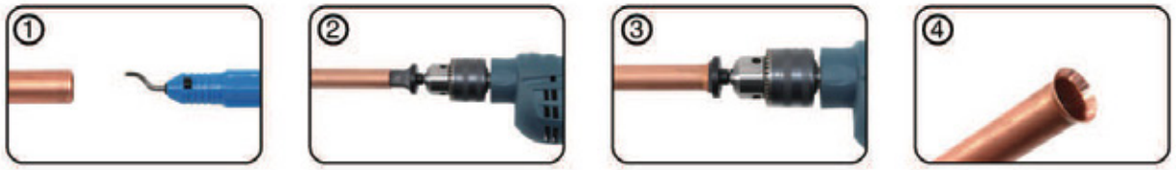
Machining & wire cutting



CT-N900F

Precision casting





1. Use reamer to remove burr on inner wall of pipe end.
(Please take safety precautions during the whole process)

2. Select the corresponding expansion needle and fix it on the electric drill.
(It is recommended to use electric drill with power above 550W)

3. Secure the tube, insert the expansion needle into the copper tube,start the electric drill to expand the pipe.
(It is recommended to use universal tube expander splint to clamp fixed copper pipe)

4. Turn off the drill, remove the copper pipe and insert another copper pipe.

Item NO.	Name	Spec. (mm)	Description	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (Cm)
CT-900F-04	Flaring Head	1/4"	1/4" (6mm)	20	7.5/6.5	38.5x20x21.5
CT-900F-06	Flaring Head	3/8"	3/8"(9mm) (10mm)	20	7.5/6.5	38.5x20x21.5
CT-900F-08	Flaring Head	1/2"	1/2" (12mm)	20	7.5/6.5	38.5x20x21.5
CT-900F-10	Flaring Head	5/8"	5/8" (16mm)	20	7.5/6.5	38.5x20x21.5
CT-900F-12	Flaring Head	3/4"	3/4" (19mm)	20	7.5/6.5	38.5x20x21.5
CT-900F	Flaring Head	1/4",3/8",1/2",5/8",3/4" Machining & wire cutting	CT-900F-04, CT-900F-06, CT-900F-08, CT-900F-10, CT-900F-12	20	8/7	38.5x20x21.5
CT-N900F	Flaring Head	1/4",3/8",1/2",5/8",3/4" Precision casting	CT-N900F-04, CT-N900F-06, CT-N900F-08, CT-N900F-10, CT-N900F-12	20	8/7	38.5x20x21.5

Tube Expander

PATENT NO:
ZL201930628442.4
202022536802.8





CT-23





CT-23B

Operation Manual



Swaging Punch (冲棒)



CT-94 CT-94B CT-95 CT-96 CT-N95 CT-N96

CT-193

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-23 CT-23B	Tube Expander	1/4",5/16",3/8",1/2",5/8", 3/4", 7/8" &6,8,10,12,16,19,22mm	20	9.5/8.5	45x23x30.5
CT-94	Swaging Punch	1/2",5/8",7/8"	50	19.5/18.5	43x23.5x21
CT-94B	Swaging Punch	1/2",5/8",3/4",7/8"	50	19.5/18.5	43x23.5x21
CT-95	5-in-1 Swaging Punch	1/4",5/16",3/8",1/2",5/8"	50	12.5/11.5	43x23.5x21
CT-N95	New type 5-in-1 Swaging Punch	1/4",5/16",3/8",1/2",5/8"	50	12/11	50.5x23x19
CT-96	6-in-1 Swaging Punch	1/4",5/16",3/8",1/2",5/8",3/4"	50	20.5/19.5	50.5x27.5x24.5
CT-N96	New type 6-in-1 Swaging Punch	1/4",5/16",3/8",1/2",5/8", 3/4"	50	18/17	53x25.5x26
CT-193	Swaging Punch	1/4",5/16",3/8",1/2",5/8"	40	23.5/22.5	29x21x27

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS

Other Tools



CT-201



CT-201B



CT-204



CT-351



CT-352



CT-355



CT-1104



CT-1107



CT-501



CT-502



CT-503

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-201	pinch-off-plier	≤6mm	50	17/16	48x26.5x21
CT-201B	pinch-off-plier (with edge)	≤6mm	50	18/17	47x6.5x21
CT-204	pinch-off-plier	≤10mm	50	21/20	53x20.5x31
CT-351	Fin straightener	8,9,10,12,14,15 pcs/inch	50	6/5	53x20.5x31
CT-352	Stainless Steel Fin straightener		80	7/6	46x23.5x48.5
CT-355	Internal and external round pipe brush	1/2"&3/4"	50	6/5	48x27x30
CT-1104	Capillary Tube Cutter	≤3mm	100	11.5/10.5	53x20.5x31
CT-1107	Capillary Tube Cutter	0.1~3.0mm	100	16/15	53x21.5x32
CT-501	Inspect Mirror	Mirror O.D. 32mm Diameter 8mm Length closed 127mm Length open 500mm	100	5.5/4.5	48x26.5x34
CT-502	Inspect Mirror	Mirror O.D. 50mm Diameter 10mm Length closed 200mm Length open 410mm	100	9.5/8.5	63x29.5x34
CT-503	Pick up tools	Length closed:126mm Length open:637mm 126~637mm	100	4/3	53x20.5x31

Deburring Reamer



CT-207



CT-207C



CT-207D



CT-207E



CT-207F



BS1010

CT-207B



BS1012

CT-207B



BS1018

CT-207B



BS2010

CT-207B



BS2012

CT-207B



BS3510

CT-207B



BK1010

CT-207B



BK2010

CT-207B



BK3010

CT-207B

Item NO.	Name	Use.	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-207	deburring reamer		100	5/4	43x23.5x30
CT-207C			100	5/4	43x23.5x30
CT-207D			100	5/4	43x23.5x30
CT-207E			100	7/6	43x23.5x30
CT-207F			100	6/5	43x23.5x30
CT-207-BS1010	deburring reamer tip		500	4/3	32x24x22
CT-207-BS1012			500	4/3	32x24x22
CT-207-BS1018			500	4/3	32x24x22
CT-207-BS2010			500	4/3	32x24x22
CT-207-BS2012			500	4/3	32x24x22
CT-207 BS3510			500	4/3	32x24x22
CT-207-BK1010	deburring reamer tip		500	4/6	32x24x22
CT-207 BK2010			500	4/3	32x24x22
CT-207-BK3010		1.5mm	500	4/3	32x24x22

PROFESSIONAL COPPER TUBE TOOLS & REFRIGERATION TOOLS



CT-122-SP



CT-122 CT-123



CT-122BCT-123B



CT-122L CT-123L



CT-208

PATENT NO:
202130555112.4



CT-209A



CT-209B

Spanner For Install & Take Down Air Conditioner



Spanner For Install & Take Down Air Conditioner User Guide:

❶ Pull out the rotatable bar, a latche beside the handle can avoid the rotatable bar shrink automatically.
❷ Put th escrew, us tand gasket in two tube sheath (a magnet in tube sheath above which can catch up the screw and gasket).
❸ Aim the spaner to the air - conditioner then screw hole in the corner, then rotate the rotatable bar it will shrink automatically. You can operate it now.

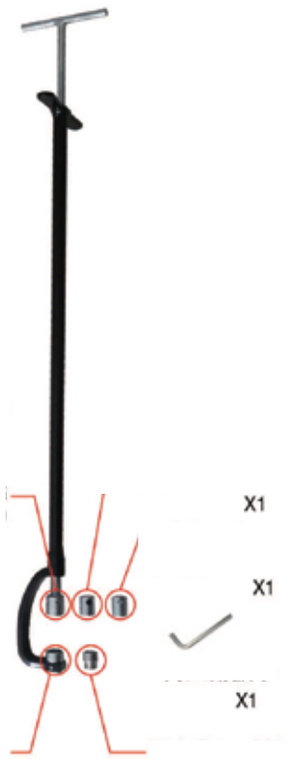
NOTE:

1. heated high strength tube sheath can screw out rusty screws and nuts.
2. the spang in the steel tube make ther rotatable bar shrink automatically and impack the screw and nut. it will easier to operate.
3. this tool avoid danger from traditional operare mathed. The operation need not install or take down a air - conditioner climb outside a building ,the work can be finished inside.









CT-361

Item NO.	Name	Spec. (mm)	Qty/Case (Pcs)	G.W/N.W (Kg)	Carton Size (cm)
CT-122-SP	Conversion Adapter	3/16" 1/4"	100	13/12	43x21.5x34
CT-122 CT-122B CT-122L	Ratchet Wrench	3/16",1/4",5/16",3/8"	100	12.5/11.5	43x21.5x34
CT-123 CT-123B CT-123L	Ratchet Wrench	3/16",1/4",1/2",9/16"	100	21/19	48x26.5x34
CT-208	Tube reamer	3/16" ~ 1-1/2" (5~38mm)	100	6/5	40x31x34
CT-209A	Tube reamer	3/16" ~ 1-1/2" (5~40mm)	50	4.5/3.5	32x32x14
CT-209B	Tube reamer	ABS. 5~40mm (3/16"~1-5/8")	100	5/4	40x35x30
CT-361		M8 / 14mm / 12mm; M10 / 17mm; 14mm / 17mm	20	33.5/32.5	83x28x37

USA PARTS

HVAC & REFRIGERATION

Domicilio Monterrey
Calzada San Pedro 105, interior 101
Del Valle, C.P. 66220 - San Pedro Garza García, N.L., México
contacto@usapartsla.com
www.usapartsla.com