Company introduction



JINAN RETEK INDUSTRIES INC.(JINAN RETEKOOL INC.) is a professio supplier in China,We have factories for condenser,evaporator and insulati tube, and we are specializing in refrigeration parts for refrigerator, freez water cooler (water dispenser),air conditioner, cold room.

With the idea of "Best Products,Best Prices and Best Services",our compa spares no efforts to achieve the target of "Being the best one, not better on We concentrate on our products, and hope to provide our customers with c products in best quality at best prices. We know we are young, and we a able to make great progress in future.We have great confidence in our pro ucts.

Now we are selling our products mainly to the factories of refrigerator, freez water cooler(water dispenser), show-case, air conditioner, cold room in mo than 60 countries and areas, including China, Korea, Japan, Russia, Ukrai Germany, France, UK, Spain, Italy, Turkey, Lebanon, Saudi Arabia, Syr India, Bangladesh, Pakistan, Thailand, Indonesia, Malaysia, Austral Canada, USA, Mexico, Panama, Brazil, Venezuela, Argentina, Chile...\ also welcome customers all over the world to visit our company, and set the business relationship for further development.

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Axial Fan Motor
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Relay
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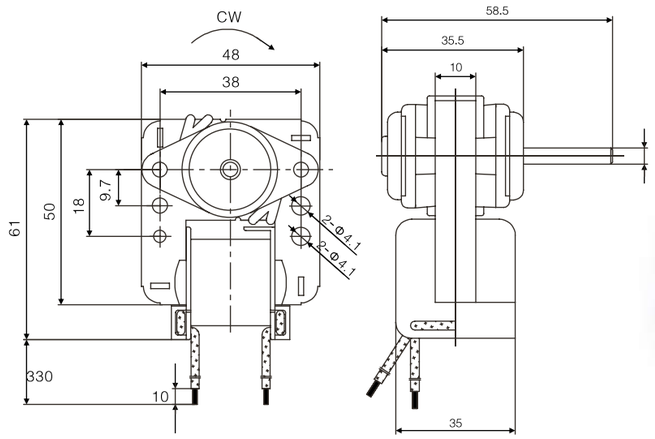


Cutter,Flaring Tools,Bender
Tool Kits,Hose
Other Tools
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Manifold
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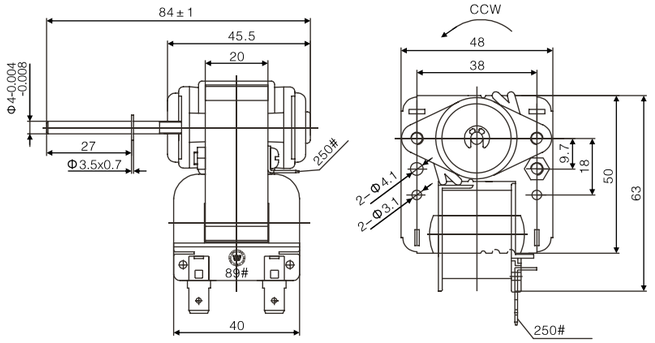


Refrigerant Gas
Cold Room Panel
Condensing Unit
Ammonia Air Cooler
Quick Freezer
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48 Series Shade Pole Asynchronous Motor







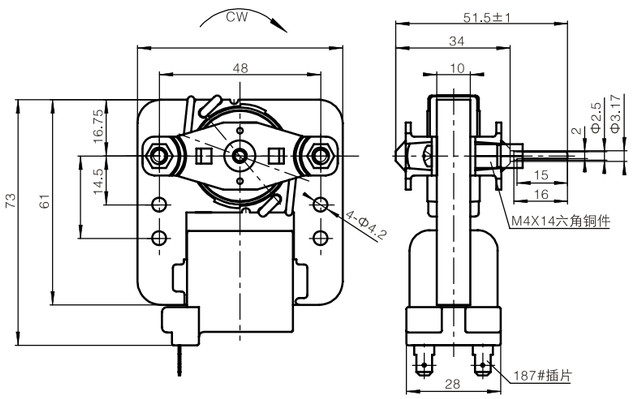


Specifications

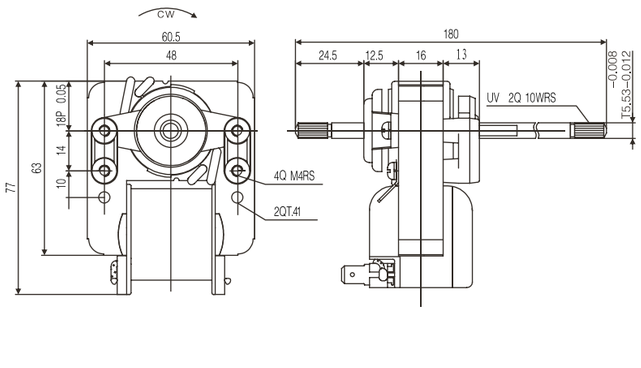
type	dimensions			VOL	Hz	no load			in lead				Out power
	A	B	C			A	W	RPM	A	W	RPM	MN.M	
YJF48/08	8	33	10 ~ 100mm	220/120	50/60	0.08	6.00	2800	0.09	7.20	2100	2.30	0.35
YJF48/10–2	10	35				0.09	6.50	2800	0.10	7.50	2100	2.45	0.4
YJF48/12–2	12	37				0.09	9.00	2820	0.11	10.50	2150	2.94	0.7
YJF48/16–2	16	41				0.12	13.50	2830	0.14	15.50	2200	3.92	1
YJF48/20–2	20	45				0.14	15.00	2830	0.15	19.00	2250	5.39	1.4

61 Series Shade Pole Asynchronous Motor







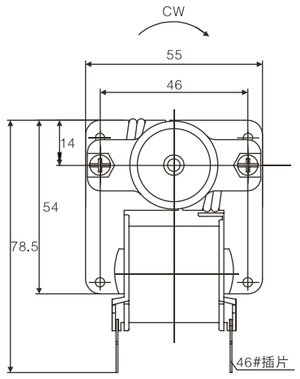


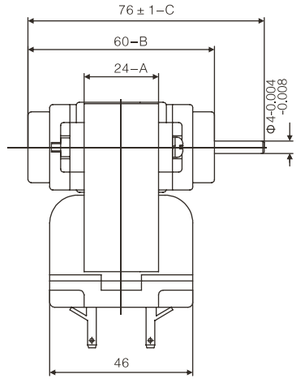
Specifications

type	dimensions			VOL	Hz	no load			in lead				Out power
	A	B	C			A	W	RPM	A	W	RPM	MN.M	
YJF61/10–2	10	39	10 ~ 200mm	220/120	50/60	0.13	12.00	2820	0.15	15.00	2300	5.88	1.4
YJF61/13–2	13	42				0.15	15.00	2830	0.17	17.50	2300	8.82	2.0
YJF61/14–2	14	44				0.17	18.00	2850	0.19	20.00	2350	12.74	3.2
YJF61/16–2	16	45				0.18	21.00	2850	0.20	23.00	2350	14.70	3.7
YJF61/20–2	20	49				0.20	22.00	2850	0.21	25.00	2500	16.56	4.5
YJF61/26–2	26	54				0.13	12.00	2850	0.25	28.00	2550	19.60	5.4
YJF61/30–2	30	59				0.15	15.00	2850	0.29	31.00	2600	23.00	6.45
YJF61/35–2	35	64				0.17	18.00	2850	0.32	34.00	2600	26.46	7.42
YJF61/40–3	40	69				0.18	21.00	2820	0.38	41.00	2600	29.50	8

55 Series Shade Pole Asynchronous Motor





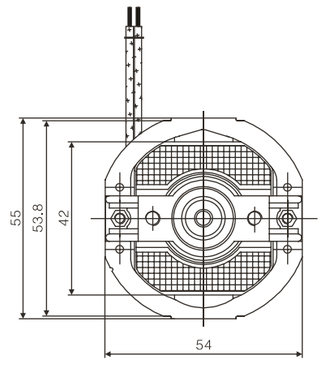


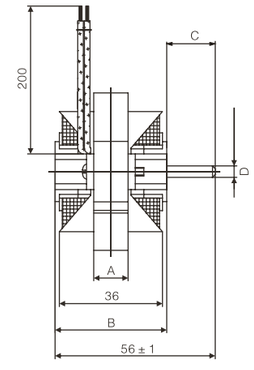
产品技术参数 Specifications

type	dimensions			VOL	Hz	no load			in lead				Out power
	A	B	C			A	W	RPM	A	W	RPM	MN.M	
YJF55/18–2	18	32	10 ~ 100mm	220/120	50/60	0.09	11.00	2800	0.12	12.50	2300	8.82	2.2
YJF55/24–2	24	39				0.17	18.00	2830	0.19	23.00	2400	14.70	3.8

58 Series Shade Pole Asynchronous Motor



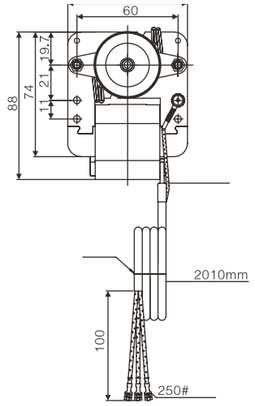


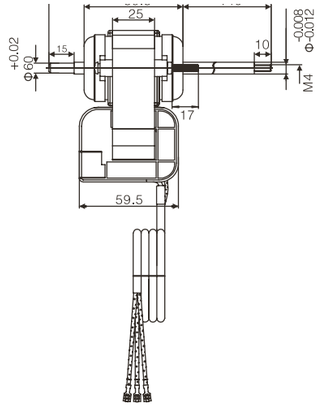


Specifications

type	dimensions			VOL	Hz	no load			in lead				Out power
	A	B	C			A	W	RPM	A	W	RPM	MN.M	
YJF58/12–2	12	38	10 ~ 100mm	220/120	50/60	0.12	13.50	2830	0.14	15.50	2250	3.92	1
YJF58/16–2	16	42				0.15	15.00	2830	0.17	17.50	2300	8.82	2.2
YJF58/20–2	20	46				0.18	21.00	2850	0.20	23.00	2350	14.70	3.7

71 Series Shade Pole Asynchronous Motor





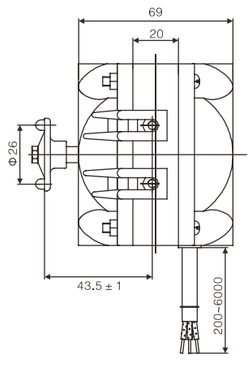


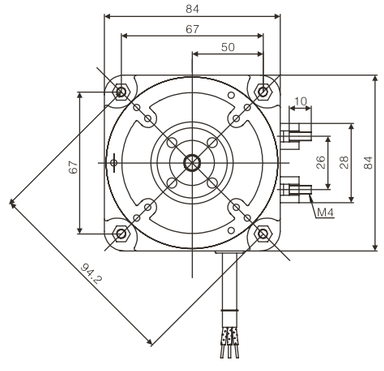
Specifications

type	dimensions			VOL	Hz	no load			in lead				Out power
	A	B	C			A	W	RPM	A	W	RPM	MN.M	
YJF71/25–2	25	38	10 ~ 100mm	220/120	50/60	0.40	35.40	2800	0.49	53.00	2400	51.20	9.0
YJF71/30–2	30	42				0.45	40.00	2800	0.55	59.89	2400	57.86	10.0
YJF71/35–2	35	46				0.48	42.83	2800	0.59	64.13	2400	61.95	10.0
YJF71/40–2	40	51				0.51	45.31	2800	0.63	67.84	2400	65.54	1.6
YJF71/45–2	45	56				0.58	51.60	2800	0.71	77.26	2400	74.63	13.0

82 Series Shade Pole Asynchronous Motor







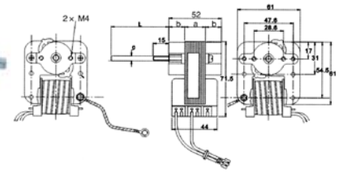
Specifications

type	dimensions			VOL	Hz	no load			in lead				Out power
	A	B	C			A	W	RPM	A	W	RPM	MN.M	
YJF82/13–2	13	65	10 ~ 100mm	220/120	50/60	0.26	35.00	1350	0.28	39.00	2300		5
YJF82/20–2	20	72				0.30	43.00	1350	0.32	45.50	2300		10
YJF82/25–2	25	77				0.45	60.00	1350	0.47	65.00	2350		15

Shaded-pole Motor



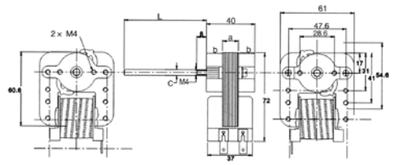
24-2-10A



Model	A(mm)	B(mm)	L(mm)	C(mm)
24-2-13/2C	40	16	63.5	ϕ6
24-2-5/2A	25	16	105	ϕ6
24-2-5A	20	13	75	ϕ4.76
24-2-6AP	20	16	56	ϕ4.76
24-2-10A	25	16	76	ϕ4.76



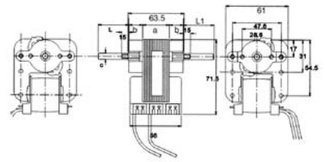
24-2-3CB



Model	A(mm)	B(mm)	L(mm)	C(mm)
24-2-9CG	25	13	65	ϕ6
24-2-5CB	20	13	58	ϕ6
24-2-3CO	13	16	48	ϕ4
24-2-3CB	13	16	68	ϕ4



24-2-12DS



Model	A(mm)	L1(mm)	L(mm)	C(mm)	B(mm)
24-2-15CSB	40	30	43.5	ϕ6	16
24-2-18AVL	40	17.5	114	ϕ6	16
24-2-12DS	30	42	42	ϕ6	16
24-2-5DS	20	30.25	30.25	ϕ4.76	13
24-2-10DS	25	35	35	ϕ4.76	16



4680JB1035G



IS-23210



OSM-13B



YZF-SM998



375B2



160912

Model	Voltage(V)	Frequency(Hz)	Current(A)	Input(W)	Rotation
24-2-13/2C	220	50	0.2	25	CW
			0.38	44	CW
24-2-5/2A	220	50	0.1	11	CCW
			0.25	25	CCW
24-2-5A	220	50	0.2	20	CCW
24-2-6AP	220	50	0.22	22	CCW
24-2-10A	220	50	0.48	40	CCW
24-2-9CG	220	50	0.22	22	CW
24-2-5CB	220	50	0.28	33	CW
24-2-3CO	220	50	0.1	10	CW
24-2-3CB	220	50	0.12	12	CW
24-2-15CSB	220	50	0.4	43	CW
24-2-18AVL	220	50	0.48	48	CCW
24-2-12DS	220	50	0.41	41	CW/CCW
24-2-5DS	220	50	0.2	20	CW/CCW
24-2-10DS	220	50	0.48	40	CW/CCW
4680JB1035G	220	50/60	0.09	8	CCW
IS-23210GEVC	110	50/60	0.18	8	CCW
IS-23210MBA-1	110	50/60	0.12	7.5	CCW
OSM-13B	220	50/60	0.072	7.5	CCW
OSM-15B	220	50/60	0.126	11.5	CCW
YZF-SM999	120	60	0.38	18	CW
YZF-SM998	240	50	0.2	18	CW
375B2	220	50/60	0.15	15	CW
160912	220	50/60	0.12	12	CCW

Shaded-pole Motor



RE-01WT52



IS-3210DWNFF-2



IS-3210SNPSA



IS-3210DWNFO



J58-00024K



RF-01WTB



IS-3210ARCB



4680JB1021E



02J05570L



TYPE F61-10



MA-61103D-2Z



4680JB1017E



MA-61103D-EM



IS-3211DRFB



2J01289B

Model	Voltage(V)	Frequency(Hz)	Current(A)	Input(W)	Rotation
RE-01WT52	220	50/60	0.085	8	CW
RE-01WQZSE	110	50/60	0.15	8	CW
RE-02WTNA	220	50/60	0.085	8.5	CW
RE-02WTNA	110	50/60	0.15	8.5	CW
IS-3210DWNFF-2	220	50/60	0.08	8.5	CCW
IS-3210SNPSA	220	50/60	0.08	8	CW/CCW
IS-3210SNPSA	110	50/60	0.15	8	CW/CCW
IS-3210DWNFO	220	50/60	0.1	10	CCW
IS-3210DWNFO	110	50/60	0.15	10	CCW
J58-00024K	110	50/60	0.16	8	CCW
RF-01WTB	220	50/60	0.08	8	CW
IS-3210ARCB	220	50/60	0.1	10	CCW
IS-3210ARCB	110	50/60	0.15	10	CCW
4680JB1021E	220	50/60	0.09	8.5	CW/CCW
4680JB1021E	110	50/60	0.15	8	CW/CCW
02J05570L	220	50/60	0.1	10	CCW
02J05570L	110	50/60	0.18	10	CCW
TYPE F61-10	220	50/60	0.06	7	CW
MA-61103D-2Z	220	50/60	0.06	6	CW
4680JB1017E	110	50/60	0.1	10	CCW
MA-61103D-EM	220	50/60	0.08	7	CCW
MA-61103D-EM	110	50/60	0.14	7	CCW
IS-3211DRFB	220	50/60	0.06	6.5	CCW
2J01289B	220	50/60	0.085	8	CCW
2J01289B	110	50/60	0.16	10.5	CCW

Shaded-pole Motor



Y165207



MSP63S13/2T-CW



MSP63S13/2T-CCW



YZF-1-6.5-RD



TYPE F61-10G



2261-9MM



NA-14AB



CCW-9MM



7228-14MM



YZF-1-6.5-R



YZF-2-10-R



YSY-1-4-R

Model	Voltage(V)	Frequency(Hz)	Current(A)	Input(W)	Rotation
Y165207	220	50/60	0.1	11	CW
Y165207	110	50/60	0.18	11	CW
MSP63S13/2T-CW	220	50/60	0.11	11	CW
MSP63S13/2T-CCW	220	50/60	0.11	11	CCW
YZF-1-6.5-RD	220	50/60	0.08	8	CCW
YZF-1-6.5-RD	110	50/60	0.165	8	CCW
TYPE F61-10G	220	50/60	0.14	12	CW
TYPE F61-10G	110	50/60	0.28	12	CW
2261-9MM	220	50/60	0.08	6.5	CW/CCW
2261-9MM	110	50/60	0.165	6.5	CW/CCW
2261-14MM	220	50/60	0.085	8.5	CW/CCW
2261-14MM	110	50/60	0.16	8.5	CW/CCW
2261-17MM	220	50/60	0.12	12	CW/CCW
2261-17MM	110	50/60	0.2	12	CW/CCW
2261-20MM	220	50/60	0.08	8.5	CW/CCW
NA-09BA	220	50/60	0.08	6.5	CW/CCW
NA-09BA	110	50/60	0.165	6.5	CW/CCW
NA-14AB	220	50/60	0.085	8.5	CCW
NA-14AB	110	50/60	0.16	8.5	CCW
NA-17AB	220	50/60	0.12	12	CCW
NA-17AB	110	50/60	0.2	12	CCW
CCW-9MM	220	50/60	0.08	6.5	CW/CCW
CCW-9MM	110	50/60	0.165	6.5	CW/CCW
YZF-3-8-R	220	50/60	0.085	8.5	CW/CCW
YZF-3-8-R	110	50/60	0.16	8.5	CW/CCW
7228-09MM	220	50/60	0.08	8	CW/CCW
7228-09MM	110	50/60	0.165	8	CW/CCW
7228-14MM	220	50/60	0.1	10	CW/CCW
7228-14MM	110	50/60	0.15	10	CW/CCW
YZF-1-6.5-R	220	50/60	0.08	8	CCW
YZF-2-10-R	220	50/60	0.13	13	CW/CCW
YSY-1-4R	220	50/60	0.025	4.5	CW
YSY-1-4R	110	50/60	0.15	7	CW

Shaded-pole Motor



SB44ASE057
SB44ASE066



YZF-PSC4W



5KSB44BS1539



182



YZF-3-6.5-R



SCYJF 607A-5C



SM672/SM670



220-240V CW
110-120V CW



IS-3215ECB
IS-3215EAB



FL2-022LM5
FL2-021LM5



D7-2



ZYD-02J18

Model	Voltage(V)	Frequency(Hz)	Current(A)	Input(W)	Rotation
SB44ASE057	220	50/60	0.14	12	CW/CCW
SB44ASE066	110	50/60	0.21	11.5	CW/CCW
PSC3W	220	50/60	0.21	20	CCW
PSC3W	110	50/60	0.45	20	CCW
PSC4W	220	50/60	0.2	27	CCW
PSC4W	110	50/60	0.42	27	CCW
5KSB44BS1539	220	50/60	0.09	10.3	CW/CCW
5KSB44BS1539	110	50/60	0.18	11	CW/CCW
182	220	50/60	0.065	7	CW
182	110	50/60	0.14	7	CW
YZF-3-6.5-R	220	50/60	0.065	7	CW/CCW
YZF-3-6.5-R	110	50/60	0.14	7	CW/CCW
SCYJF607A-5C	220	50/60	0.065	7	CW/CCW
SCYJF607A-5C	110	50/60	0.14	7	CW/CCW
SM672	220	50/60	0.32	20	CW/CCW
SM670/YZF-SM670	110	50/60	0.45	20	CW/CCW
220-240V CW	220	50/60	0.1	10	CW
110-120V CW	110	50/60	0.15	10	CW
IS-3215EAB	220	50/60	0.1	10	CW
IS-3215ECB	110	50/60	0.16	10	CW
FL2-022LM5	220	50/60	0.11	12	CW
FL2-021LM5	110	50/60	0.2	12	CW
D7-2-7MM	220	50/60	0.065	7	CW/CCW
D7-2-7MM	110	50/60	0.14	7	CW/CCW
D7-2-14MM	220	50/60	0.12	13	CCW
D7-2-14MM	110	50/60	0.25	13	CCW
ZYD-02J18/SM 102J	220	50/60	0.12	13	CW
ZYD-02J18/SM 102J	110	50/60	0.25	13	CW
OS-08	220	50	0.119	9	CCW
NO.20009075A	220	50/60	0.1	11	CW
NO.20009075A	110	50/60	0.2	11	CW
MOTOR NO.2 GIAF4	220	50/60	0.07	6.5	CCW
MOTOR NO.2 GIAF4	110	50/60	0.14	6.5	CCW



OS-08



NO.20009075A



MOTOR NO.2 GIAF4

Shaded-pole Motor



KM334



KM-822



ESM55



YZF-SM329



A265



1749A

Model	Voltage(V)	Frequency(Hz)	Current(A)	Input(W)	Rotation
KM334	220	50/60	0.18	15	CW
KM334/YZF-KM334	110	50/60	0.3	15	CW
KM822	220	50/60	0.08	7	CW
KM822/YZF-KM822	110	50/60	0.16	7	CW
ESM55	220	50/60	0.18	18	CW
ESM55/YZF-ESM55	110	50/60	0.38	18	CW
YZF-SM329	120	60	0.48	20	CW
A265	220	50/60	0.11	11	CW
1749A	220	50/60	0.1	9.3	CW
Y165207-2	220	50/60	0.1	10	CW
Y165207-2	110	50/60	0.15	10	CW
5KSB44AS1570	220	50/60	0.14	12	CW/CCW
5KSB44AS1570	110	50/60	0.21	11.5	CW/CCW
6028	220	50/60	0.1	10	CW
6028	110	50/60	0.16	10	CW
SE14B-CW	220	50/60	0.18	18	CW



Y165207-2



5KSB44A1570



6028



SE14B-CW



SM672/SM670

Cross Flow Fan



Model	Voltage(V)	Output Power(W)	Input Current(A)	Wheel Length (mm)
CFF-90	110V/60HZ 220V/50HZ	10	0.3	90
CFF-120	110V/60HZ 220V/50HZ	12	0.3	120
CFF-180	110V/60HZ 220V/50HZ	14	0.3	180
CFF-240	110V/60HZ 220V/50HZ	16	0.4	240
CFF-270	110V/60HZ 220V/50HZ	18	0.5	270
CFF-300	110V/60HZ 220V/50HZ	20	0.5	300
CFF-360	110V/60HZ 220V/50HZ	25	0.6	360

Axial Fan Motors



Model	Voltage v	Frequency HZ	Max. Current A	Max. power input W	Speed r/min	License
YWF2D-200	380	50	0.22	87	2700	
YWF2E-200	220	50	0.31	72	2700	
YWF4D-200	380	50	0.12	50	1420	
YWF4E-200	220	50	0.10	30	1435	
	220	60	0.11	35	1705	
YWF2D-250	380	50	0.24	150	2280	
YWF2E-250	220	50	0.49	115	2220	
YWF4D-250	380	50	0.14	53	1430	
	380	60	0.16	75	1640	
YWF4E-250	220	50	0.24	57	1390	
	220	60	0.26	68	1630	



Model	Voltage v	Frequency HZ	Max. Current A	Max. power input W	Speed r/min	License
YWF2D-300	380	50	0.41	210	2445	
YWF2E-300	220	50	0.83	193	2525	
YWF4D-300	380	50	0.18	83	1350	
	380	60	0.24	119	1600	
YWF4E-300	220	50	0.33	74	1335	
	220	60	0.43	102	1520	



Model	Voltage v	Frequency HZ	Max. Current A	Max. power input W	Speed r/min	License
YWF4D-315	380	50	0.43	95	1350	
YWF4E-315	220	50	0.57	100	1310	
YWF6E-315	220	50	0.31	62	910	



Model	Voltage v	Frequency HZ	Max. Current A	Max. power input W	Speed r/min	License
YWF4D-330	380	50	0.45	167	1350	
YWF4E-330	220	50	0.58	120	1310	
YWF6E-330	220	50	0.36	75	900	
YWF4D-350	380	50	0.38	165	1370	
	380	60	0.38	217	1520	
YWF4E-350	220	50	0.62	145	1330	
	220	60	0.92	196	1500	
YWF6D-350	380	50	0.29	112	910	
	380	60	0.25	110	1120	
YWF6E-350	220	50	0.37	85	870	
	220	60	0.33	75	930	

Axial Fan Motors



Model	Voltage v	Frequency HZ	Max. Current A	Max. power input W	Speed r/min	License
YWF4D–380	380	50	0.47	167	1350	
YWF4E–380	220	50	0.72	170	1350	
YWF4D–400	380	50	0.52	239	1340	
	380	60	0.61	335	1520	
YWF4E–400	220	50	1.01	225	1310	
	220	60	1.39	300	1565	
YWF6D–400	380	50	0.30	106	920	
	380	60	0.48	185	1125	
YWF6E–400	220	50	0.44	100	900	
	220	60	0.50	113	1070	



Model	Voltage v	Frequency HZ	Max. Current A	Max. power input W	Speed r/min	License
YWF4D–450	380	50	0.52	273	1270	
	380	60	0.68	405	1370	
YWF4E–450	220	50	1.13	251	1265	
	220	60	2.12	436	1620	
YWF6D–450	380	50	0.75	223	935	
	380	60	0.64	236	1125	
YWF6E–450	220	50	0.56	126	870	
	220	60	1.03	196	1085	
YWF4D–500	380	50	0.77	382	1325	
	380	60	1.04	563	1570	
YWF4E–500	220	50	1.64	355	1260	
	220	60	2.61	557	1410	
YWF6D–500	380	50	0.90	235	950	
	380	60	0.64	252	1130	
YWF6E–500	220	50	0.73	162	915	
	220	60	1.04	208	1025	
YWF4D–500 I	380	50	0.90	471	1250	
	380	60	1.22	646	1460	
YWF4E–500 I	220	50	2.10	456	1300	
YWF4E–500 II	380	50	1.04	538	1290	
YWF4D–550	380	50	1.17	614	1320	
	380	60	1.62	826	1440	
YWF4E–550	220	50	2.61	567	1300	
	220	60	4.00	799	1280	
YWF6D–550	380	50	1.02	290	950	
	380	60	0.98	398	1120	
YWF6E–550	220	50	0.95	213	900	
	220	60	1.22	256	1090	

Axial Flow Draft Fan



Size: 120mm × 120mm × 38mm
Frame: Aluminum Alloy
Safety: UL> CUL> TUV> CE>
Operation Temperature: –10℃~+65℃

Model	FREQ. HZ	VOLTAGE V	BEARING SYSTEM	CURRENT A	POWER W	SPEED RPM	NOISE dBA	AIR FLOW	
								m^3/h	CFM
YWF–1231A1SQ	50/60	100–120	Sleeve	0.28	22	2300–2600	43/48	138/162	82/95
YWF–1231A2SQ	50/60	220–240	Sleeve	0.13	21	2300–2600	43/48	138/162	82/95
YWF–1231A1SQP	50/60	100–120	Sleeve	0.28	22	2300–2600	43/48	138/162	82/95
YWF–1231A2SQP	50/60	220–240	Sleeve	0.13	21	2300–2600	43/48	138/162	82/95



Size: 120mm × 120mm × 38mm
Frame: Aluminum Alloy
Safety: UL> CUL> TUV> CE>
Operation Temperature: –10℃~+65℃

Model	FREQ. HZ	VOLTAGE V	BEARING SYSTEM	CURRENT A	POWER W	SPEED RPM	NOISE dBA	AIR FLOW	
								m^3/h	CFM
YWF–1231A1SQ7	50/60	100–120	Sleeve	0.28	22	2300–2600	43/48	138/162	82/95
YWF–1231A2SQ7	50/60	220–240	Sleeve	0.13	21	2300–2600	43/48	138/162	82/95



Size: 172mm × 150mm × 51mm
Frame: Aluminum Alloy
Safety: UL> CUL> TUV> CE>
Operation Temperature: –10℃~+65℃

Model	FREQ. HZ	VOLTAGE V	BEARING SYSTEM	CURRENT A	POWER W	SPEED RPM	NOISE dBA	AIR FLOW	
								m^3/h	CFM
YWF–1750A1B	50/60	100–120	Ball	0.35	35	2300–2600	49/54	253/321	150/190
YWF–1750A2B	50/60	220–240	Ball	0.19	35	2300–2600	49/54	253/321	150/190
YWF–1750A3B	50/60	380–420	Ball	0.12	35	2300–2600	49/54	253/321	150/190



Size: 172mm × 172mm × 51mm
Frame: Aluminum Alloy
Safety: UL> CUL> TUV> CE>
Operation Temperature: –10℃~+70℃

Model	FREQ. HZ	VOLTAGE V	BEARING SYSTEM	CURRENT A	POWER W	SPEED RPM	NOISE dBA	AIR FLOW		CAPACITOR
								M3/H	CFM	
YWF–1755A1B	50/60	100–120	Ball	0.38	40	2600–2800	52/57	348/399	205/235	3.3uF/250v
YWF–1755A2B	50/60	220–240	Ball	0.20	40	2600–2800	52/57	348/399	205/235	1uF/100v

Axial Flow Draft Fan



Size: Size: 150mm × 150mm × 50mm
Frame: Aluminum Alloy
Safety: UL> CUL> TUV> CE>
Operation Temperature: –10℃~+65℃

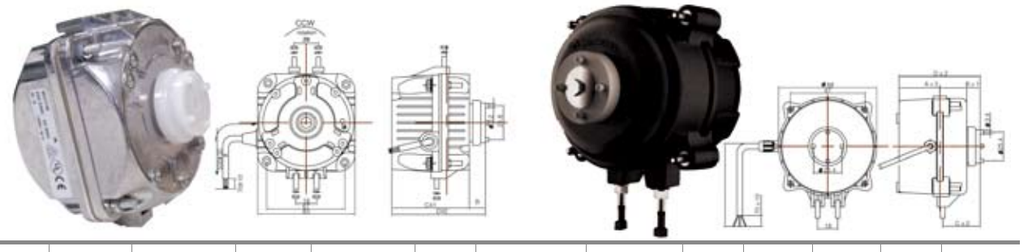
Model	FREQ. HZ	VOLTAGE V	BEARING SYSTEM	CURRENT A	POWER W	SPEED RPM	NOISE dBA	AIR FLOW	
								M3/H	CFM
YWF–1550A1B	50/60	100–120	Ball	0.35	35	2300–2600	49/54	253/321	150/190
YWF–1550A2B	50/60	220–240	Ball	0.19	35	2300–2600	49/54	253/321	150/190
YWF–1550A3B	50/60	380–420	Ball	0.12	35	2300–2600	49/54	253/321	150/190



Size: 172mm × 172mm × 51mm
Frame: Aluminum Alloy
Safety: UL> CUL> TUV> CE>
Operation Temperature: –10℃~+65℃

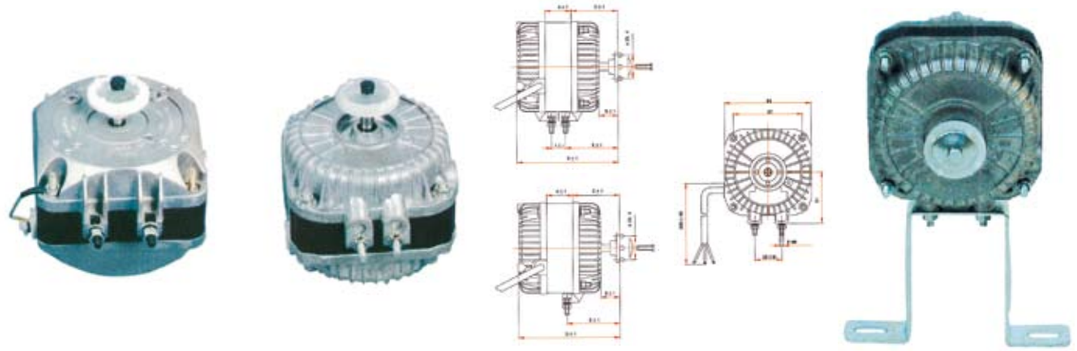
Model	FREQ. HZ	VOLTAGE V	BEARING SYSTEM	CURRENT A	POWER W	SPEED RPM	NOISE dBA	AIR FLOW	
								M3/H	CFM
YWF–1552A1B	50/60	100–120	Ball	0.35	35	2300–2600	49/54	270/297	160/176
YWF–1552A2B	50/60	220–240	Ball	0.18	35	2300–2600	49/54	270/297	160/176
YWF–1552A3B	50/60	380–420	Ball	0.12	35	2300–2600	49/54	270/297	160/176

EC Motor



MODEL	VOLTAGE (V)	FREQUENCY (HZ)	INPUT(W)	CURRENT (A)	SPEED (R/MIN)	AIRVOLUME (m^3/h)	FANBLADE (MM)	A(mm)	B(mm)	C(mm)	D(mm)	LICENSE
GEC7108/ GECQ7108	220–240	50/60	3.0	0.028	1300	200/200	ϕ 154/28°	58.5	12/12	60/40	72/70.5	CE VDE
	110	50/60	2.6	0.046	1300	200/300	ϕ 154/28°	58.5	12/12	60/40	72/70.5	CE UL
	220–240	50/60	4.5	0.040	1300	300/420	ϕ 172/28°	58.5	12/12	60/40	72/70.5	CE VDE
	110	50/60	3.9	0.064	1300	300/200	ϕ 172/28°	58.5	12/12	60/40	72/70.5	CE UL
	220–240	50/60	4.8	0.041	1300	420/300	ϕ 200/31°	58.5	12/12	60/40	72/70.5	CE VDE
	110	50/60	4.5	0.068	1300	420/420	ϕ 200/31°	58.5	12/12	60/40	72/70.5	CE UL
GEC7112/ GECQ7112	220–240	50/60	7.5	0.065	1300	520/520	ϕ 200/34°	62.5	12/12	64/40	76/74.5	CE VDE
	110	50/60	7.0	0.103	1300	520/710	ϕ 200/34°	62.5	12/12	64/40	76/74.5	CE UL
	220–240	50/60	9.5	0.080	1300	710/660	ϕ 230/28°	62.5	12/12	64/40	76/74.5	CE VDE
	110	50/60	9.0	0.128	1300	710/520	ϕ 230/28°	62.5	12/12	64/40	76/74.5	CE UL
	220–240	50/60	10.5	0.090	1300	660/710	ϕ 254/22°	62.5	12/12	64/40	76/74.5	CE VDE
	110	50/60	15.8	0.163	1300	660/660	ϕ 254/22°	62.5	12/12	64/40	76/74.5	CE UL

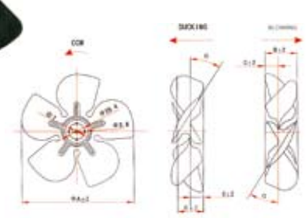
Shaded–pole Motor



Model	Voltage v	Frequency HZ	Current A	Input W	Output W	Speed r/min	Air volume m^3/h	Blade size (mm)	Blade degree (∘)	The scope of application Pa	License	No.on the curve	A	B	C	D	E	F
YZF–5–13	220	50	0.20	33	5	1300	280	170	28°	0~25		①	13	16	41	80	46	–
	220	60	0.20	33	5	1500	320	170	31°	0~30		②						
YZF–10–20	220	50	0.23	40	10	1300	500	200	28°	0~45		③	20	19	43	88	48	–
	220	60	0.25	40	10	1500	570	200	28°	0~55		④						
YZF–16–25	220	50	0.43	60	16	1300	830	230	25°	0~40		⑤	25	22	48	98	52	–
	220	60	0.48	60	16	1500	730	230	22°	0~50		⑥						
YZF–18–30	220	50	0.48	75	18	1300	940	250	25°	0~40		⑦	30	22	48	103	52	26
	220	60	0.50	75	18	1500	870	250	22°	0~50		⑧						
YZF–25–40	220	50	0.65	100	25	1300	1480	300	25°	0~45		⑨	40	22	48	113	52	31
	220	60	0.90	155	25	1500	1400	300	19°	0~55		⑩						
YZF–34–45	220	50	0.75	120	34	1300	1610	300	28°	0~45		⑪	45	16	43	116	50	36
	220	60	1.00	160	34	1500	1560	300	25°	0~55		⑫						
YZF–5–13	220	50/60	0.20	33	5	1300/1500	320/340	170	28°	0~25		⑬	13	16	41	80	46	–
YZF–10–20	220	50/60	0.23	40	10	1300/1500	500/570	200	28°	0~30		⑭	20	19	43	88	48	–
YZF–16–25	220	50/60	0.46	60	16	1300/1500	760/850	230	25°	0~45		⑮	25	22	48	98	52	–
YZF–5–13	110	60	0.45	33	5	1500	420	200	25°	0~25		⑯	13	16	41	80	46	–
YZF–10–20	110	50	0.45	40	10	1300	580	230	22°	0~20		⑰	20	19	43	88	48	–
	110	60	0.50	40	10	1500	530	200	28°	0~30		⑱						
YZF–16–25	110	60	0.80	60	16	1500	630	230	22°	0~25		⑲	25	22	48	98	52	–
YZF–18–30	110	50	0.90	75	18	1300	1030	300	19°	0~30		⑳	30	22	48	103	52	26
	110	60	0.95	75	18	1500	730	250	22°	0~30		㉑						
YZF–25–40	110	60	1.60	100	25	1500	1520	300	22°	0~45		㉒	40	22	48	113	52	31
YZF–34–45	110	50	1.45	120	34	1300	1500	300	25°	0~35		㉓	45	16	43	116	50	36
	110	60	2.10	120	34	1500	1570	300	25°	0~40		㉔						

Fan Blade



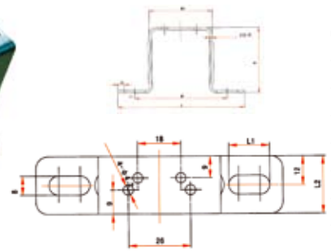


FAN TYPE	A	a° / B C	19° B	19° C	22° B	22° C	25° B	25° C	28° B	28° C	31° B	31° C
172mm	170		25	13	28	14	31	16	34	17	38	19
200mm	196		27	14	30	15	33	17	36	18	40	20
230mm	228		30	16	33	17	36	18	39	20	42	21
254mm	252		32	18	35	21	38	23	41	24	44	29
300mm	298		37	18	41	21	44	22	48	24	52	26

MODEL / a° / FAN	YZF5–13		YZF10–20		YZF16–25		YZF18–30		YZF25–40			YZF34–45	
172mm	28	31											
200mm	25	28	28										
230mm			22		22	25							
254mm					22		22	25					
300mm							19		19	22	25	25	28

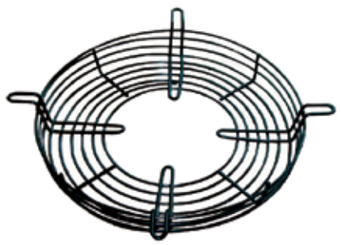
Bracket

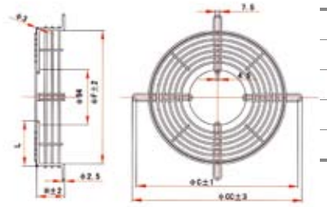




MODEL	H	L	L1	L2	M
H56	56	105	17	24	75
H60	60	190	13	25	167
H72	72	105	13	24	75
H84	84	105	20	24	75
H84	84	161	13	25	75
H90	90	105	17	24	130
H110	110	106	14	50	83
H110	110	106	14	42	80.5

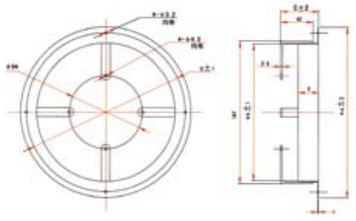
Cover





	CC	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





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

Halogen Leak Detector



HLD–200

Applications
The leak–detect in vocation of freezer refrigeration and air–conditioner
Detect to all halogen gases
Technical data:
Power spply: 3VDC(2*AA battery)
Max.Sensitivity: R12R22,R134a are certifited to 6g/yr
Probe life: about 30H
Work mode: continious
Warm up time: approimately 6s
Reset time: 2s
Weight:200g
Proble length:30.5cm
Size:170mm*34mm*55mm



CPU–1F

Microcomputer process control with advanced digital signal collecting and Processing ability
Detect to all halogen gases
Technical data:
18level single color alarm
Tricolor visual display
Warm up time: approimately 6s
Real time7–level sensitivity adjustable
Functions of fast RESET key and battery voltage indication
Two Year warranty



SLD 100/200/300

Main Features:
Semiconductor Sensor
Rapid detection of refrigerant leakage points
Low battery indicator and mute control
Fast Warm up,quick response time
Technical data:
Sensivity:3g/yr
Display: seven and dual–color LED indication
Warm up time:less than 30s
Reponse time: less than 10s
Power supply:3.7V Li 2200MAh
Standby time:more than 4H
Dimension:3000mm*65mm*65mm

Temperature Controller

Product Image										
Model		ST–3	DS–1	LT–2	DT–1	DT–2	DT–3	DT–7	DT–6	BT–1
Main Feature	Power supply	2*DC1.5V button battery (LR44)	7 # alkaline battery	DC3.0V button battery CR20	7 # alkaline battery(1.5V)	7 # alkaline battery(1.5V)	7 # alkaline battery(1.5V)	solar panel and ni–mh battery	solar panel and ni–mh battery	7 # alkaline battery(1.5V)
	Tmeperature and humidity measuring range	–50℃~+70℃	–50℃(–58℉)~70℃(158℉)	–5℃~–50℃ (23℉–122℉)30%RH–90%RH	–50℃~+70℃	indoor –30℃~50℃,outdoor–50℃~70℃,humidity 20%~99%	indoor –30℃~50℃,outdoor–50℃~70℃,humidity 20%~99%	indoor 0℃~50℃,32℉~122℉,outdoor–50℃~70℃，–58℉~158℉,humidity 20%~99%	indoor 0℃~50℃,32℉~122℉,outdoor–50℃~70℃，–58℉~158℉,humidity 20%~99%	indoor –30℃~50℃,32℉~122℉,outdoor–50℃~70℃,–58℉~158℉
	Resolution	0.1℃	0.1(>–20℃)1℃(≦–20℃)	1℃	0.1℃	temperature 0.1,humidity 1%	temperature 0.1,humidity 1%	temperature 0.1,humidity 1%	temperature 0.1,humidity 1%	temperature 0.1,humidity 1%
	Accuracy	+_1℃	+_1℃	+_1℃	+_1℃(–30℃~50℃)	temperature +1℃;humidity+5	temperature +1℃;humidity+5	temperature +1℃;humidity+5	temperature +1℃;humidity+5	temperature +1℃;humidity+5
	Temperature sensor	Single	Dual	Single	Dual	Single	Single	Dual	Dual	Dual
	Humidity Sensor	–	–	Yes	–	Single	Single	Dual	Single	
Other	Clock	–	Yes	–	–	Yes	Yes	Yes	Yes	
	Maximum/minimum value	–	–	Yes	–	Yes	Yes	Yes	Yes	Yes
	Waterproof level	–	–	–	–	–	–	–		
	℃/℉	–	Yes	Yes	–	–	–	Yes	Yes	Yes

Product Image							
Model		ETC–902	ETC–974	ETC–512B	ECS–10	ECS–100	ESC–130
Main Features	Power	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	12VAC/DC
	Temperature range	–40¯+70℃	–50¯+50℃	–50¯+105℃	–50¯+50℃	–45.5¯+110℃	–50¯+50℃
	Temperature control range	–40¯+50℃	–50¯+50℃	–10¯+60℃	–50¯+50℃	–45.5¯+110℃	–50¯+50℃
	Resolution	0.1℃	0.1℃	0.1℃	0.1℃	0.1℃	0.1℃
	Accuracy	+_1	+_1	+_1	+_1	+_1	+_1
	Application	cooling	cooling	cooling	cooling	cooling	cooling
	Mounting size	71*29mm	71*29mm	71*29mm	71*29mm	71*29mm	71*29mm
Output	Compressor	8A	8A	30A(harici)	8A	30A	5A
	Defrost		8A	–	–	5A	10A
	Fan	–	8A	–	–	5A	10A
	Light	–	–	–	–	–	5A
	Alarm	Voice	Voice	–	Voice	Voice	Voice
Input	Sensor	1NTC	2NTC	1NTC	1NTC	2NTC	2NTC
	Digital Input	–	–	–	–	–	–
Other	Copy card	–	Optional	–	Optional	Optional	–
	HACCP	–	–	–	–	–	–

Product Image							
Model		MTC–6020	MTC–2120S	STC–8080A+	STC–8080H	STC–8090	STC200+
Main Features	Power	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ
	Temperature range	–50¯+50℃	–40¯+70℃	–50¯+99℃	–50¯+99℃	–40¯+99℃	–40¯+90℃
	Temperature control range	–50¯+50℃	–40¯+70℃	–40¯+50℃	–40¯+50℃	–40¯+70℃	–40¯+70℃
	Resolution	0.1℃	1℃	1℃	1℃	1℃	1℃
	Accuracy	+_1	+_1	+_1	+_1	+_1	+_1
	Application	cooling	cooling	cooling	cooling	cooling	cooling/heating/ alarm
	Mounting size	72.5*43.5mm	71*29mm	71*29mm	71*29mm	71*29mm	71*29mm
Output	Compressor	3A	8A	10A	10A	10A	10A
	Defrost	3A		10A based on the time	10A based on the time	10A based on the time	–
	Fan	3A	–	–	–	–	–
	Light	3A	–	–	–	–	–
	Alarm	Voice	–	Voice(may be aborted)	Voice(may be aborted)	Voice(may be aborted)	Voice
Input	Sensor	2NTC	1NTC	1NTC	1NTC	1NTC	1NTC
	Digital Input	–	–	–	–	–	–
Other	Copy card	–	–	–	–	–	–
	HACCP	–	–	–	–	–	–

Product Image							
Model		ETC–200	ETC–66	ETC–60HT	ETC–60HT–B	ETC–30	ETC–60
Main Features	Power	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ
	Temperature range	–40¯+120℃	–40¯+50℃	–40¯+70℃	–40¯+70℃	–50¯+150℃	–50¯+120℃
	Temperature control range	–40¯+120℃	–10¯+50℃	–40¯+50℃	–40¯+50℃	–50¯+120℃	–50¯+120℃
	Resolution	0.1℃	0.1℃	0.1℃	1℃	0.1℃	0.1℃
	Accuracy	+_1	+_1	+_1	+_1	+_1	+_1
	Application	cooling/heating	cooling	cooling	cooling	cooling/heating	cooling/heating
	Mounting size	71*29mm	71*29mm	71*29mm	71*29mm	71*29mm	71*29mm
Output	Compressor	10A	30A(harici)	30A	30A	16A	16A
	Defrost	10A based on the time	30A(harici)	30A	–	–	10A
	Fan	–	30A(harici)	–	–	–	10A
	Light	–	–	–	–	–	–
	Alarm	Voice	–	Voice	–	–	Voice
Input	Sensor	1NTC	2NTC	2NTC	2NTC	1NTC or 1 PTC	2NTC or PTC
	Digital Input	–	–	–	–	–	yes
Other	Copy card	–	–	–	–	–	optional
	HACCP	–	–	–	–	–	May be applied

Product Image								
Model		STC–9200	ETC–4200	STC–001	CTE–102	MTC–5060	MTC–5080	MTC–6000
Main Features	Power	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ
	Temperature range	–50¯+50℃	–50¯+50℃	–50¯+50℃	–50¯+50℃	–50¯+50℃	–50¯+50℃	–50¯+50℃
	Temperature control range	–50¯+50℃	–50¯+50℃	–50¯+50℃	–50¯+50℃	–50¯+50℃	–50¯+50℃	–50¯+50℃
	Resolution	0.1℃	0.1℃	0.1℃	0.1℃	0.1℃	0.1℃	0.1℃
	Accuracy	+_1	+_1	+_1	+_1	+_1	+_1	+_1
	Application	cooling	cooling	cooling	cooling/heating	cooling	cooling	cooling
	Mounting size	71*29mm	71*87*58mm	71*29mm	71*29mm	92.5*43.5mm	92.5*43.5mm	92.5*43.5mm
Output	Compressor	8A	8A	8A	8A	3A	3A	3A
	Defrost	8A	8A			3A	3A	3A
	Fan	8A	8A	–	–	–	3A	3A
	Light	–	–	–	–	–	–	3A
	Alarm	Voice	Voice	Voice	Sesli	Voice	Voice	Voice
Input	Sensor	2NTC	–	1NTC	1NTC	2NTC	2NTC	2NTC
	Digital Input	–	–	–	–	–	–	–
Other	Copy card	optional	–	–	optional	–	–	–
	HACCP	–	–	–	–	–	–	–

Product Image								
Model		STC–9600	STC–100A	ATC–800+	STC–1000	STC–600	STC–620	ETC–100+
Main Features	Power	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	12VAC/DC	9–32V	220V + 10% 50/60HZ
	Temperature range	–50¯+50℃	–40¯+99℃	–50¯+99℃	–50¯+99℃	–50¯+50℃	–35¯+70℃	–40¯+120℃
	Temperature control range	–50¯+50℃	–40¯+99℃	–50¯+50℃	–50¯+99℃	–50¯+50℃	–35¯+70℃	–40¯+120℃
	Resolution	0.1℃	1℃	1℃	0.1℃	0.1℃	1℃	1℃
	Accuracy	+_1	+_1	+_1	+_1	+_1	+_1	+_1
	Application	cooling	cooling/heating	cooling/heating	Auto cooling/heating	cooling	cooling	cooling
	Mounting size	71*29mm	71*29mm	170*90mm	71*29mm	71*29mm	103.5*53mm	71*29mm
Output	Compressor	10A	10A	10A heating/20A cooling	10A heating/10A cooling	30A(haricl)	–	10A(20A optinal)
	Defrost	–	–	–	–	30A(haricl)	–	–
	Fan	–	–	–	–	30A(haricl)	–	–
	Light	–	–	–	–	–	–	–
	Alarm	Relay Voice	Voice(Optional)	Voice	Voice	Voice	Voice	Voice
Input	Sensor	1NTC	1NTC	1NTC	1NTC	2NTC	2NTC	1NTC
	Digital Input	door switch	–	–	–	–	–	–
Other	Copy card	–	–	–	–	–	–	–
	HACCP	–	–	–	–	–	–	–

Product Image								
Model		ETC–2040	ETC–3000	ECS–R12F12	LTC–3X	DHC–100+	LTC–100	ATC–210
Main Features	Power	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ	220V + 10% 50/60HZ
	Temperature range	–45.5¯+120℃	–45.5¯+110℃	–40¯+70℃	–40¯+90℃	0¯+99℃RH	–40¯+50℃	–40¯+100℃
	Temperature control range	–45.5¯+110℃	–45.5¯+110℃	–40¯+70℃	–40¯+90℃	10¯+99℃RH	–10¯+50℃	0¯+50℃
	Resolution	0.1℃	0.1℃	1℃	1℃	1%RH	0.1℃	0.1℃
	Accuracy	+_1	+_1	+_1	+_1	+_1	+_1	+_1
	Application	cooling	cooling	cooling	–	Moisture/humidity	cooling	heating
	Mounting size	71*29mm	71*29mm	157*39mm	112*39mm	71*29mm	71*29mm	–
Output	Compressor	8A	8A	30A	30A	10A	8A	–
	Defrost	8A	8A	30A	30A	–	8A	–
	Fan	–	8A	–	–	–	8A	–
	Light	–	–	–	–	–	–	–
	Alarm	–	Voice	–	–	Voice	Voice	–
Input	Sensor	1NTC	2NTC	2NTC	1NTC	1NTC	2NTC	1NTC
	Digital Input	–	–	–	–	–	–	–
Other	Copy card	Optional	Optional	–	–	–	–	–
	HACCP	–	–	–	–	–	–	–

Product Image								
Model		DST–10	DST–12	DST–20	DST–30	DST–50	DST–60	TPM–10F
Main Feature	Power supply	solar panel	solar panel and 3V standby battery	solar panel and 4V standby battery	solar panel	solar panel and standby battery light illumination >100LUX	solar panel	2*DC1.5V button battery (LR44)
	Tmeperature and humidity measuring range	–50℃~+70℃	–50℃~+80℃	5%–85%,–20℃~+60℃	–50℃~+150℃(need to custom sensor wire)	–50℃~+80℃	–50℃~+150℃(need to custom sensor wire)	–50℃~+80℃
	Resolution	0.1℃	0.1℃	0.1℃	0.1℃	0.1℃	0.1℃	1(≦–20℃)0.1℃(>–20℃)
	Accuracy	+_1	+_1	+_1℃/+_2℉(–50℃~+80℃)	+_1℃(–20℃~+80℃),other +_2℃	±1℃(–20℃~+80℃，±3℃（–50℃~–20℃，+80~+150℃）	±1℃(–20℃~+80℃，±2℃（–50℃~–20℃，+80~+150℃）	±1℃(–30℃~+40℃)
	Temperature sensor	Single	Single	Single	Single	Single	Single	Single
	Humidity Sensor	–	–	Single	–	–	–	–
Other	Clock	–	–		–	–	–	–
	Maximum/minimum value	–	–	–	–	–	–	–
	Waterproof level	–	Yes	Yes	Yes	Yes	Front Panel Waterproof	–
	℃/℉	–	–	Yes	–	–	–	–

Product Image								
Model		TPM–10AE	TPM–30	TPM–900+	TPM–910+	TPM–2000	ST–1A	ST–2
Main Feature	Power supply	2*DC1.5V button battery (LR44)	DC1.5V button battery (LR44)	220VAC+10%	220VAC+10%	220VAC+10%	DC1.5V button battery (LR44)	2*DC1.5V button battery (LR44)
	Tmeperature and humidity measuring range	–50℃~+70℃	–50℃~+70℃	20%–85%,0℃~+60℃	–49℃~+99℃(–49℉~199℉)	–49℃~+99℃(–49℉~199℉)	–50℃~80℃(–85℉~176℉)	–50℃~+70℃
	Resolution	1℃	1(≦–20℃)0.1℃(>–20℃)	1(≧100℃)0.1℃(<–100℃)	0.1℃	0.1℃	0.1℃	0.1(>20℃)1℃(<20℃)
	Accuracy	+_1(–20℃~+20℃)	+_1℃	+_1℃	+_1℃	+_1℃	+_1℃(–20℃~+80℃)，±2℉（–4℉~±176℉）	+_1℃
	Temperature sensor	Single	Single	Single	Single	Single	Single	Single
	Humidity Sensor	–	–	Single	–	–	–	–
Other	Clock	–	–	–	–	–	–	–
	Maximum/minimum value	–	–	–	–	–	–	–
	Waterproof level	–	–	–	–	–	–	–
	℃/℉	–	–	–	Yes	Yes	Yes	–

Product Image									
Model		BT–3	MT–3	WT–5	WT–1B	WT–2	TW–1	WT–6	TR–10
Main Feature	Power supply	7 # alkaline battery(1.5V)	DC1.5V button battery LR44	solar panel and standby battery	7 # alkaline battery(1.5V)	7 # alkaline battery(1.5V)	3V battery,7 # alkaline battery	solar panel light illumination >100LUX	2*7 # alkaline battery(1.5V)
	Tmeperature and humidity measuring range	indoor 0℃~50℃,32℉~122℉,outdoor–50℃~70℃，–58℉~158℉	indoor 0℃~50℃,32℉~122℉,outdoor–50℃~70℃，–58℉~158℉,humidity 20%~99%	50℃~150℃(–58℉~199℉)	–50℃~300℃(–58℉~572℉)	–50℃~300℃(–58℉~572℉)	indoor –50℃~70℃,outdoor–9.9℃~70℃	temperature measurement range:–50℃~150℃,Fahrenheit measurement range:–58℉~+199℉	–40℃~100℃
	Resolution	temperature 0.1,humidity 1%	temperature 0.1,humidity 1%	0.1℃	0.1℃	0.1℃	0.1℃	0.1℃	0.1℃
	Accuracy	temperature +1℃,humidity +5	temperature +1℃,humidity +5	+_1℃（–20℃~80℃），+_2℃（–50℃~–20℃，80℃~120℃），+_3℃（120℃~150℃）	+_1℃(0℃~60℃)other temperature +_5	+_1℃(0℃~60℃)other temperature +_5	+_1	+_1℃（–20℃~80℃），+_2℃（–50℃~–20℃，80℃~120℃），+_3℃（120℃~150℃）	+_1℃（–20℃~80℃），+_2℃（–40℃~–20℃，80℃~110℃）
	Temperature sensor	Dual	Dual	Single	Single	Single	Dual	Single	Single
	Humidity Sensor	Single	–	–	–	–	–	–	–
Other	Clock	Yes	–	–	–	–	Yes	–	–
	Maximum/minimum value	Yes	Yes	–	Yes	Yes	Yes	–	Yes
	Waterproof level	–	–	–	–	–	Yes	Yes	–
	℃/℉	–	–	Yes	yes	yes	Yes	Yes	–

CBB65–R AC Motor Capacitor



Nominal Capacitance(UF)	200–300VAC		370–400VAC		440–450VAC	
	D	H	D	H	D	H
2	40	55	40	55	40	55
5	40	55	40	55	40	55
7.5	40	55	40	55	40	55
10	40	55	40	55	55	65
15	40	75	40	65	40	75
20	40	75	40	75	45	75
25	40	75	45	75	50	75
30	45	75	50	75	50	85
35	45	75	50	75	50	85
40	45	85	50	85	50	100
45	45	85	50	100	50	110
50	45	100	50	100	50	110
55	45	100	50	110	50	125
60	45	100	55	110	50	125
70	50	100	55	110	55	125
80	50	100	55	125	60	125
100	50	125	60	125	60	140

CBB65–R AC Motor Capacitor (Dual Type)



Nominal Capacitance(UF)	370–400VAC		440–450VAC	
	D	H	D	H
1+1	50	50	50	50
10+1	50	50	50	55
15+1.5	50	55	50	65
17.5+2	50	55	50	65
20+3	50	75	50	75
25+5	50	85	50	85
30+5	50	95	50	105

Nominal Capacitance(UF)	370–400VAC		440–450VAC	
	D	H	D	H
35+5	50	100	50	105
40+5	50	105	50	120
45+6	50	125	50	125
50+6	50	125	55	125
55+6	55	125	60	125
60+7.5	55	130	60	125
80+15	60	140	60	140

CBB65–O AC Motor Capacitor



Nominal Capacitance(UF)	240–300VAC			370–400VAC			440–450VAC		
	L	B	H	L	B	H	L	B	H
5	31.5	51.5	50	31.5	51.5	50	31.5	51.5	50
10	31.5	51.5	50	31.5	51.5	65	31.5	51.5	75
15	31.5	51.5	55	31.5	51.5	65	31.5	51.5	75
20	31.5	51.5	75	31.5	51.5	50	45	70.5	65
25	31.5	51.5	75	45	70.5	75	45	70.5	75
30	45	70.5	75	45	70.5	75	45	70.5	75
35	45	70.5	75	45	70.5	75	45	70.5	85
45	45	70.5	85	45	70.5	85	45	70.5	100
50	45	70.5	100	45	70.5	100	45	70.5	110
60	45	70.5	100	45	70.5	110	45	70.5	125
80	45	70.5	110	45	70.5	125	47.6	90	110
100	45	70.5	125	47.5	90	100	47.6	90	125

CBB60 AC Motor Capacitor



Nominal Capacitance(UF)	200–300VAC		370–400VAC		440–450VAC	
	D	H	D	H	D	H
2	30	60	30	60	30	60
5	30	60	30	60	30	60
7.5	30	60	30	60	30	70
10	30	70	35	75	35	70
15	35	70	35	70	40	70
20	35	70	40	70	40	70
25	40	70	45	75	45	90
30	45	75	45	90	45	90
35	45	75	45	90	45	90
40	45	90	50	95	50	100
45	45	90	50	100	50	100
50	45	90	50	100	50	100
55	45	90	50	100	50	100
60	45	90	50	100	50	125
70	50	100	50	125	50	125
80	50	125	55	125	55	135
100	55	125	55	125	60	135

CBB61 AC Motor Capacitor



Nominal Capacitance(UF)	240–300VAC			370–400VAC			440–450VAC		
	L	B	H	L	B	H	L	B	H
1	36	11	19	37	14	24	37	14	24
1.5	36	11	19	37	14	24	37	14	28
2	37	14	24	37	14	28	47	14	28
2.5	37	14	24	37	15	28	37	18	30
5	47	14	28	47	18	34	47	20	34
8	47	18	34	57	18	32	47	26	38
16	57	18	32	58	23	37	58	28	40
20	58	23	37	58	28	40	58	30	50
24	58	28	40	60	30	45	60	40	50
30	60	40	50	73	40	53	73	40	53

Hard Start Kit Capacitor



Model	Capacitance(UF)	D¹ +1(mm)	D² +1(mm)	D³ +1(mm)	H+2(mm)
SPP5	36–43	37	45	46	130
SPP5	43–52	37	45	46	130
SPP5	53–64	37	45	46	130
SPP5	64–77	37	45	46	130
SPP6	72–88	46	45	46	155
SPP6	108–130	46	45	46	155
SPP7	130–156	46	45	46	155
SPP7	161–193	46	45	46	155
SPP7	189–227	46	45	46	155

Reticulate–MPP Capacitor



Types of products	Capacitance(UF)	Rated Voltage	L*B*H Outline Dimension		Terminal Construction
60,65 type(round)	1–40	150–450	ϕ25*60 ϕ32*55 ϕ35*60 ϕ40*65 ϕ50*75	chosen with the capacitance and voltage	according to customer's demand,different terminal construction of 250² (187²)flag, tab or directly insertion terminal can be chosen.
61 type(square)	1–20	150–450	12*26*37 22*34*47 26*38*47 23*37*58	chosen with the capacitance and voltage	

CD60 Starting Capacitor



Nominal Capacitance(UF)	100–125		200–250		300–330	
	D	H	D	H	D	H
108–130UF	36.5	70	46	86	46	86
124–149UF	36.5	70	46	86	46	86
130–156UF	36.5	70	46	86	46	86
145–175UF	36.5	70	46	86	46	86
161–193UF	36.5	70	46	86	46	86
189–227UF	36.5	70	46	86	46	86
233–280UF	36.5	70	46	86	46	111
243–292UF	36.5	70	46	86	46	111
170–200UF	36.5	70	46	86	46	111
270–324UF	36.5	70	46	111	46	111
324–389UF	36.5	70	46	111	46	111
340–408UF	36.5	86	46	111	46	111
378–454UF	36.5	86	52	111	52	111
404–480UF	36.5	86	52	111	52	111
430–516UF	36.5	86	52	111	52	111
460–552UF	36.5	86	52	111	52	111
540–648UF	46	86	52	111	52	111
590–708UF	46	86	52	111	52	111

Brackets for A/C Outdoor Units

Model	Size (mm)	Thickness (mm)	Suitable	Weight (kg)	Material
KFR–A	390*430	1.5	1–2HP	80	Standard steel plate brackets painted with polyester powder
KFR–A	390*430	2.0	1–2HP	100	
KFR–B	400*400	2.0	0.75–1.5HP	150	
KFR–B	480*460	2.0	1–3HP	150	
KFR–B	500*450	2.0	1–3HP	150	
KFR–B	550*450	2.0	1–3HP	150	
KFR–B	600*500	2.0	1–4HP	180	
KFR–B1 (welding type)	400*400	2.0	1–3HP	150	
	480*460	2.0	1–3HP	150	
	500*450	2.0	1–3HP	150	
	500*450	2.0	1–3HP	150	
	600*500	2.0	1–4HP	180	
KFR–C	800*400*430	1.5	1–2HP	100	
KFR–C	800*400*430	2.0	1–3HP	150	
KFR–C	800*400*550	1.5	1–2HP	100	
KFR–C	800*400*550	2.0	1–3HP	150	
KFR–F	560*470	2.0	1–2HP	100	
KFR–H	420*550	2.0	1–3HP	150	
KFR–I	800*400*400	2.0	0.75–1.5HP	150	
A+C	390*430	1.5	1–2HP	80	
A+C	390*430	2.0	1–3HP	100	



KFR–A



KFR–B



KFR–B1



KFR–C



KFR–F



KFR–H

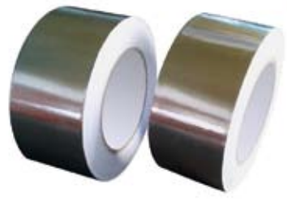


KFR–I



A+C

Aluminum Foil Adhesive Tape



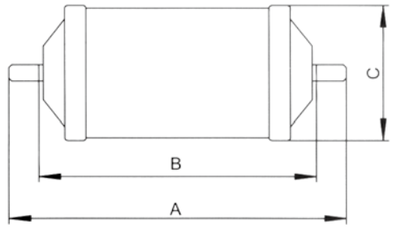
By roll, 27m Lengths 20 rolls per carton.

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

**To be adujsted as per specific requirement.

One–Way Filter Drier



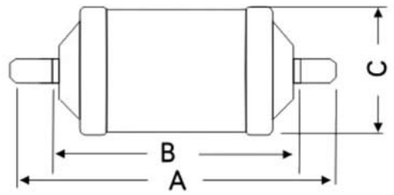


Technical datas:
Refrigerant:R22/R134a/R404a/R407c/R502/R507
Medium temperature:–40–120℃
Max working pressure:4200Kpa
Destructive testing reached 20–22Mpa
The thickness of paint film: 50–80um

TYPE	Connetction		Nominal Capacity				A (mm)	B (mm)	ΦC
	(welding)	(screw)	R134a	R22	R404a	R502			
REK–032		1/4	1.61	2.21	1.45	1.45	111.2		42
REK–032S	1/4		2.21	2.88	1.98	1.45	97.2	79.5	
REK–033		3/8	2.51	3.32	2.22	2.12	118.6		
REK–033S	3/8		2.51	3.32	2.22	2.12	113	80.77	
REK–052		1/4	9.0	9.8	6.5	6.3	122.1		64
REK–052S	1/4		13.3	14.4	9.6	9.4	112.7	93.7	
REK–053		3/8	21.4	23.3	15.4	15.1	130.3		
REK–053S	3/8		26.5	28.9	19.1	18.7	114.3	85.4	
REK–082		1/4	8.6	9.3	6.2	6.0	143		
REK–082S	1/4		13.7	14.6	9.9	9.7	133.3	114.3	
REK–083		3/8	21.8	23.7	15.7	15.4	150.8		
REK–083S	3/8		27.4	29.8	19.8	19.3	134.8	112.7	
REK–084		1/2	36.4	39.6	26.2	25.7	157.2		
REK–084S	1/2		38.9	42.4	28.1	27.5	136.9	112.5	
REK–163		3/8	22.2	24.2	16.1	15.7	174.7		
REK–163S	3/8		31.7	34.4	22.9	22.4	158.7	136.6	
REK–164		1/2	38.5	41.9	27.8	27.2	179.3		
REK–164S	1/2		49.6	54	35.8	35.1	160.2	134.8	
REK–165		5/8	50.5	54.9	36.4	35.7	190.5		
REK–165S	5/8		67.2	73.1	48.5	47.5	168.8	134.8	
REK–167S	7/8		70.6	76.8	51.0	49.5	181.1	143	
REK–304		1/2	43.6	47.5	31.5	30.8	250.9		76
REK–304S	1/2		54.3	59.1	39.2	38.4	230	204.7	
REK–305		5/8	50.5	54.9	36.4	35.7	190.5	212.8	
REK–305S	5/8		74	80.5	53.4	52.3	236.4	215.9	
REK–307S	7/8		83.4	90.8	60.2	590.9	250.9		89
REK–309S	1–1/8		109.1	118.7	78.7	77.1	257	215.92	

Two–Way Filter Drier





Technical datas:
Refrigerant: R22/R134a/R404A/R407C/R502/R507
Medium temperater: –40–120℃
Max working pressure: 4200Kpa
Destructive testing reached 20–22MPa
The thickness of paint film: 50–80um.

TYPE	Connection(in)		A(in)	B(in)	C(in)	water content on 24℃（52℃） of liquid temperature (g)
	Welding	Screw				
RTKS–083		3/8	5.94	4.06	2.64	7.2（6.0）
RTKS–083S	3/8		5.31			
RTKS–084		1/2	6.19	4.06		
RTKS–084S	1/2		5.38			
RTKS–085		5/8	6.63	4.13		
RTKS–085S	5/8		5.63			
RTKS–163		3/8	6.75	4.88	3.15	11.8（9.6）
RTKS–163S	3/8		6.13			
RTKS–164		1/2	7.00	4.88		
RTKS–164S	1/2		6.13			
RTKS–165		5/8	7.44	4.88		
RTKS–165S	5/8		6.44			
RTKS–167S	7/8		7.00	4.88		

Liquid Receiver

Technical datas:
Refrigerant: R22/R134a/R404A/R407C/R502/R507
Max Working Pressure: 3400Kpa
Medium temperature:–40 to +120℃
Destructive test is reached to 17.5 to 19Mpa.
The thickness of paint film:50–80um.

TYPE	Connections(in) ODF only	A(in)	B(in)	Volume/L
RTKC–333	3/8	5.00	12.24	3
RTKC–433	3/8	6.50	9.65	4
RTKC–644	1/2	6.50	13.00	6
RTKC–844	1/2	6.50	16.34	8
RTKC–1055	5/8	8.60	12.20	10
RTKC–1255	5/8	8.60	14.57	12
RTKC–1455	5/8	8.60	16.93	14
RTKC–1677	7/8	8.60	19.29	16
RTKC–1877	7/8	8.60	21.65	18



Oil Seperator



Technical datas:
Refrigerant: R22/R134a/R404A/R407C/R502/R507
Medium temperature: –40 to +120 ℃
Max working Pressure:3100Kpa.
Destructive testing reached 17.5 to 19Mpa.
The thickness of paint film: 50 to 80 micron.
Oil Storage Capacity: 55824–559011/ 5301–5305 600ml
569011–569417 /6303–6305 800ml

Option Type datas

Type		Refrigeranting capacity in the following evaporated temperature								
		R22			R134a			R404a		
		–40℃	–20℃	5℃	–40℃	–20℃	5℃	–40℃	–20℃	5℃
RTKW–55824	RTKW –5301	5.3	6.2	7.0	3.2	4.5	6.2	5.3	6.2	7.0
RTKW–55855	RTKW –5302	15.8	17.5	19.3	11.4	13.4	15.8	14.4	16.4	19.3
RTKW–55877	RTKW 5303	24.6	26.2	28.1	16.7	19.3	22.4	22.8	25.2	28.8
RTKW–55889	RTKW –5304	31.7	34.3	37.0	22.4	26.3	29.9	30.0	33.4	37.4
RTKW–559011	RTKW –5305	40.4	43.6	47.5	28.1	33.6	40.4	36.7	43.3	49.0
RTKW–569011	RTKW –6303	45.2	47.4	49.2	33.4	40.4	48.4	41.0	45.2	50.8
RTKW–569213	RTKW –6304	56.3	58.9	63.3	41.3	48.4	56.3	51.0	57.3	65.1
RTKW–569417	RTKW 6305	91.4	102.3	105.5	63.3	74.8	88.8	88.5	98.4	108.6

Suction Line Accumulator



Technical Datas:
Refrigerant: R22/R134a/R404A/R407C/R502/R507
Medium temperature: –40 to 120℃.
Max working pressure: 3100Kpa
Destructive testing reached to 17.5–19 Mpa
The thickness of the paint film: 50 to 80um.

TYPE	Connections Odf only(in)	A(in)	B(in)	C(in)	Volume/L
RTKQ–204	1/2	4.00	10.1	2.05	1.6
RTKQ–205	5/8	4.00	11.65	2.05	1.9
RTKQ–206	3/4	5.50	12.56	3.15	3.8
RTKQ–207	7/8	5.50	14.56	3.15	4.4
RTKQ–208	1–1/8	6.50	18.00	3.23	8
RTKQ–209	1–3/8	6.50	22.98	3.23	10.5
RTKQ–210	1–5/8	6.50	24.80	3.23	11.5
RTKQ–1817	2–1/8	8.60	21.60	4.25	18
RTKQ–2117	2–1/8	10.75	19.49	4.73	21
RTKQ–3521	2–5/8	12.80	21.65	6.61	35
RTKQ–5625	3–1/8	15.83	21.65	7.08	56
RTKQ–7029	3–5/8	17.72	21.65	9.06	70

Copper Tube

Standard: ASTM280
Package:Packed by wooden case



Pancake Coil(A)	Pancake Coil(B)
Φ6.35*0.6	Φ6.35*0.8
Φμ9.52*0.6	Φ9.52*0.8
Φμ12.7*0.6	Φ12.7*0.8
Φμ15.88*0.8	Φ15.88*1.0
Φμ19.05*0.9	Φ19.05*1.0



Stright Tube Model
Φ6.35*0.6
Φ9.52*0.6
Φ12.7*0.6
Φ15.88*0.6
Φ19.05*0.8
Φ22.23*0.8
Φ25.4*0.8
Φ28.58*1.0
Φ31.75*1.0

Stright Tube Model
Φ31.75*1.0
Φ34.93*1.0
Φ38.1*1.1
Φ41.28*1.2
Φ53.98*1.8
Φ66.68*1.8
Φ76.2*2.0
Φ92.1*2.0

Insulated Copper Tube

With 3 layer insulation
Application: For both heating and cooling
Temperature resistant up to 120°C



Model	Copper pipe dimention(mm)		Insulation pipe dimention (mm)	
	Diameter	Wall Thickness	Inner Diameter	Wall thickness
RETEK–2320	6.35	0.8	8	8
	9.52	0.8	8	8
RETEK–2420	6.35	0.8	8	8
	12.70	0.8	14.5	10
RETEK–2520	6.35	0.8	8	8
	15.88	1.0	18	10
RETEK–3520	9.52	0.8	12	8
	15.88	1.0	18	10
RETEK–3620	9.52	0.8	12	8
	19.05	1.2	22	10

The colour and wall thickness can be adjusted as customer required.
Length can be:3m,5m,10m,15m,20m,30m.

Insulated Aluminum Alloy Tube



Model	Pipe Size	Aluminium Pipe(mm)		Insulation Pipe(mm)		Pipe Length(m)
		Dia	Wall Tk	Inner Dia	Wall Tk	20
RTK93–2320	1/4"	6.35	1.0	8	8	20
	3/8"	9.52	1.0	12	8	20
RTK93–2420	1/4"	6.35	1.0	8	8	20
	1/2"	12.7	1.0	14.5	10	20

Condensate Pump



Clear Spring Series

Model	Application	Specification
RTK–12A	Wall hung spli ts Ceilling fan coil A/C equipment for AC up to10KW(30000BTU)	Sound Level: <21dbA 1PH 50–60HZ Power supply: 220–240VAC<12W/ 100–115VAC Water flow rate: 12L/h at zero head Thermal protection: > 75ºC Suction lift: Max 2 meters Maximum head: 10ms
RTK–36A	Wall hung splits Ceilling fan coil A/C equipment for AC up to30KW(90000BTU)	Sound Level: <28dbA 1PH 50–60HZ Power supply: 220–240VAC<25W/100–115VAC Water flow rate: 36L/h at zero head Thermal protection: > 75ºC Suction lift: Max 2 meters,Maximum head: 10ms



Pearl Spring Series

Model	Specification
RTK–12B	Sound Level: <21dbA 1PH 50–60HZ Power supply: 220–240VAC<12W/100–115VAC Water flow rate: 12L/h at zero head Thermal protection: > 75ºC Suction lift: Max 2 meters,Maximum head: 12ms
RTK–36B	Sound Level: <28dbA 1PH 50–60HZ Power supply: 220–240VAC<25W/100–115VAC Water flow rate: 36L/h at zero head Thermal protection: > 75ºC Suction lift: Max 2 meters,Maximum head: 10ms



Spouting Spring Series

Model	RTK–125A
Voltage	230V~50/60Hz
Suntion	Max.0.5m
Discharge head	Max.125L/h
Tank capacity	1.8L
Sound level	less than 48dbB

Brand in One Series（KT–XX08 Remote Control）

Model		Use For Brand
KT–AC08	KT–AC10	AUCMA AC
KT–AX08	KT–AX10	AUX AC
KT–CG08	KT–CG10	CHIGO AC
KT–CH08	KT–CH10	CHANGHONG AC
KT–CL08	KT–CL10	CHUNLAN AC
KT–CR08	KT–CR10	CARRIER AC
KT–DB08	KT–DB10	DONGBAO AC
KT–DK08	KT–DK10	DAIKIN AC
KT–FE08		ELECTROLUX AC
KT–FT08	KT–FT10	FUJITSU AC
KT–GZ08	KT–GZ10	GALANZ AC
KT–GR08	KT–GR10	GREE AC
KT–HB08	KT–HB10	HUABAO AC
KT–HI08	KT–HI10	HITACHI AC
KT–HL08	KT–HL10	HUALING AC
KT–HR08	KT–HR10	HAIER AC

Model		Use For Brand
KT–HS08	KT–HS10	HISENSE AC
KT–KL08	KT–KL10	KELON AC
KT–LB08		LITTLE SWAN BOERKA AC
KT–LG08	KT–LG10	LG AC
KT–MD08	KT–MD10	MIDEA AC
KT–MI08	KT–MI10	MITSUBISHI AC
KT–PN08	KT–PN10	PANASONIC/NATIONAL AC
KT–RW08	KT–RW10	ROWA AC
KT–SC08	KT–SC10	SHINCO AC
KT–SO08	KT–SO10	SANYO AC
KT–SP08	KT–SP10	SHARP AC
KT–SS08	KT–SS10	SAMSUNG AC
KT–TL08	KT–TL10	TCL AC
KT–TS08	KT–TS10	TOSHIBA AC
KT–YY08	KT–YY10	YINGYAN AC



Universal A/C Remote Control



KT–e01



KT–e02



KT–e03



KT–4000



KT–9018E



KT–N808



KT–1000



KT–N828



KT–208 Ⅱ



KT–208 Ⅱ



KT–518

Universal Air Conditioner Control System

QD–U02B



5 Working Modes
3 Fan Speed
Accurate And Stable Temperature Control
Accurate And Stable Auto Fan
Timer on/Off
Sleep Function
Periodical Defrost
Compressor Project Timer For Its Run and Stop
Prevent Cold Wind in Heating Mode
Updated Recieve,Good Looking Appearance, Show Intuitional
Updated Transformer,Quick Plug,Easy For Installation

QD–U03A+



5 Working Modes
3 Fan Speed
Accurate And Stable Temperature Control
Accurate And Stable Auto Fan
Double Sensor
Timer on/Off
Sleep Function
Defrost Automatically
Compressor Project Timer For Its Run and Stop
Prevent Cold Wind in Heating Mode
Updated Recieve,Good Looking Appearance, Show Intuitional
Updated Transformer,Quick Plug,Easy For Installation

HLP Series Pressure Controller



HLP830HLM



HLP830HM



HLP506

Part No.		Range(Mpa)		Differential(Mpa)		Factory Setting OFF(ON)	ON(OFF)
		Min	Max	Min	Max		
HLP110		0.1	1	0.1	0.3	0.6	0.5
HLP506		–0.07	0.6	0.06	0.4	0.3	0.2
HLP506M		–0.07	0.6	reset disparity≤0.1		0.3	manual reset
HLP520		0.8	2.4	0.2	0.5	1.6	1.3
HLP530M		0.8	3	reset disparity≤0.4		2	manual reset
HLP530D		0.5	3	0.3	1	2	1.5
HLP830	Low side High side	–0.07 0.8	0.6 3	0.06 reset disparity≤0.1	0.4	0.3 2	0.2 1.5
HLP830HM	Low side High side	–0.07 0.8	0.6 3	0.06 reset disparity≤0.1	0.4	0.3 2	0.2 manual reset
HLP830HLM	Low side High side	–0.07 0.8	0.6 3	0.06 reset disparity≤0.1	0.4	0.3 2	manual reset manual reset

Heating Cable



Electrical insulation	105℃ PVC	Silicon rubber
Diameter	From Ø2mm to Ø3mm	From Ø2mm to Ø3.5mm
Winding support	From Ø0.5mm to Ø1.5mm fiberglass core	
Heating element	Nickel–Chromium or Copper–Nickel alloy wire	
Output	Up to 15W/m	Up to 40W/m
Voltage	Max. 600V	
Max. cable surface temperature	105℃	200℃
Min. cable surface temperature	–30℃	–70℃

GH Series Aluminium Foil Heater



Part No.	Size(inch)	Size W (inch)	Watts	Volts
GH221	10	1	6	115
GH222	24	1–1/4	10	115
GH223	14–1/12	5–1/2	10	115

Hard Start Kits



Part No.	Voltage(V)	Horsepower(Hp)
HS600	115–277	1/2–5
HS650	115–277	1/2–10
HS410	115–277	1/4 and 1/3
HS810	115–277	1/12 thru 1/5
SPP8	120–288	10

Two Pole Contactors

Part No.	Coil Voltage 50/60Hz	Number of poles	Full Load (A)	Maximun Voltage
25 FLA–2 pole				
QCA–252	24	2	25	120
QCB–252	120	2	25	240
QCC–252	208/240	2	25	
30 FLA–2 pole				
QCA–302	24	2	30	120
QCB–302	120	2	30	240
QCC–302	208/240	2	30	
40 FLA–2 pole				
QCA–402	24	2	40	120
QCB–402	120	2	40	240
QCC–402	208/240	2	40	



Two pole contactors



Three pole contactors

Three Pole Contactors

Part No.	Coil Voltage 50/60Hz	Number of poles	Full Load (A)	Maximun Voltage
30 FLA–3 pole				
QCA–303	24	3	30	110/120
QCB–303	120	3	30	200/208
QCC–303	208/240	3	30	240/277
40 FLA–3 pole				
QCA–403	24	3	40	110/120
QCB–403	120	3	40	200/208
QCC–403	208/240	3	40	240/277
50 FLA–3 pole				
QCA–503	24	3	50	110/120
QCB–503	120	3	50	200/208
QCC–503	208/240	3	50	240/277
60 FLA–3 pole				
QCA–603	24	3	60	110/120
QCB–603	120	3	60	200/208
QCC–603	208/240	3	60	240/277

Time Delay

QTD–068 Delay On Make

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



QTD–068

QTD–072 Delay On Make

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

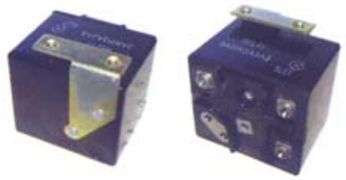


QTD–072

Totally Enclosed Relay



Model	Voltage AC (50/60Hz)	Description
90–360	24	SPNO
90–362	120	SPNO
90–364	208/240	SPNO
90–370	24	SPDT
90–372	120	SPDT
90–374	208/240	SPDT
90–380	24	SPNO/SPNC
90–382	120	SPNO/SPNC
90–384	208/240	SPNO/SPNC



Part No.	Pick–up Voltage(V)	Drop–out Voltage(V)
QRP–A1	139–153	55
QRP–A2	260–275	120
QRP–A3	168–180	90
QRP–A4	215–225	120
QRP–A5	295–315	125
QRP–A6	325–345	135
QRP–A7	180–195	105

QRP Series Potential Relay

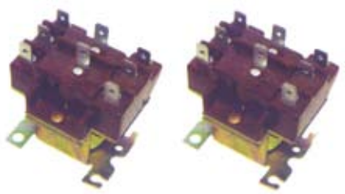


Part No.	Continuous Coil Voltage(V)	Pick–up(V)		Drop–out(V) Max.
		Min.	Max.	
QRP–63	170	139	153	55
QRP–64	395	260	275	120
QRP–65	332	168	182	90
QRP–66	395	213	225	120
QRP–67	420	295	315	125
QRP–68	502	325	345	135
QRP–69	336	180	195	105

Potential Relays 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,10AU,10AV	90–4,90–8,90–11 90–14,90–22,90–64	82783
QRP–65	19004	3P,3R,3AP,5P,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	90–5,90–6,90–15 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,27F,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, 90–24,90–26,90–41	82779

FC903 Series General Purpose Switch Relay



Contact Rating	Power		Pilot	
	208/240V		208/240V	
	120V	277V	120V	277V
Full Load Amps	12	6	––	––
Resistive Amps	15	15	3	3
Locked Rotor Amps	60	35	––	––
Horsepower	3/4	3/4	1/10	1/10

Part No.	Coil Voltage(V)	Terminal 1–2–3	Terminal 4–5–6	Cross Essex/RBM	Reference Honeywell
90340	24	Power	Power	90–340	R8222D1014
90341	110/220	Power	Power	90–341	R8222D1013
90342	208/240	Power	Power	90–342	R8222D1021

Starter relay



SR–001
L–DNAFERS Relay (Black)



SR–002
L–DNAFERS Relay (White)



SR–003
S–DNAFERS Relay (Black)



SR–004
S–DNAFERS Relay (White)



SR–005
PP1100 Relay (Black)



SR–006
PP1100 Relay (White)



SR–007
RP Relay



SR–008
RP Relay



SR–009
RP Relay(Black)



SR–010
RP Relay(White)



SR–011
QD Relay



SR–012
QD Relay(With Capacity)

The specification	1/10HP	1/8HP	1/6HP	1/5HP	1/4HP	1/3HP	1/2HP
Applied power(w)	74	93	125	150	180	245	370
Pick–upcurrent(A)	2.5	3.0	3.6	4.75	5.35	6.0	7.5
Drop–outcurrent(A)	2.0	2.6	3.0	3.35	4.25	4.75	6.0



SR–013
PTC Relay(White)



SR–014
IC–1 Relay



SR–015
IC–3 Relay(Black)



SR–016
IC–3 Relay(White)



SR–017
IC–1 Relay(One–Four PIN)



SR–018
ICG1 Relay



SR–019
PTC Relay



SR–020
PTC Relay(One/Two)



SR–021
PTC Relay(Three/Four)

The constant resistance	Ω ±20%	4.7	12	15	22	33	47	DAFS
Max.Voltage	V	450	450	450	450	450	450	450
Max.current	A	18	10	9	8	7	6	12
Power consumption	W	＜3W	＜3W	＜3W	＜3W	＜3W	＜3W	＜5W
Movement time	S	0.14¯0.56	0.14¯0.56	0.14¯0.56	0.14¯0.56	0.14¯0.56	0.14¯0.56	0.2¯1.0
Resume time	S	≤90	≤90	≤90	≤90	≤90	≤90	≤90

Overload

OL–001
QD Overload



OL–002
QD Overload



OL–003
QD Overload
(Air–condition)



OL–004
QD Overload
(Air–condition)



OL–005
QD Overload
(Air–condition)



OL–006
QD Overload



OL–007
4TM Overload



OL–008
4TM Overload



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

Glass Heater

GH–001
Defrosting Heater

GH–002
Defrosting Heater Mitsubishi

GH–003
Defrosting Heater Mitsubishi

GH–004
Defrosting Heater



Defrost Timer

TMDE Series

Model	Rated Voltage	Defrost Time	Cycle Time
TMDE520ZC1	220V	25m/21m	6h01m/5h01m
TMDE520TA1	110V	25m/21m	6h01m/5h01m
TMDE625ZF1	220V	25m/22m	6h04m/5h08m
TMDE702ZA1	110V	2m24s/2m	8h46m/7h18m
TMDE706SC1	220V	7m/5m50s	7h54m/6h35m
TMDE706SA1	110V	7m/5m50s	7h54m/6h35m
TMDE802ZC1	220V	2m24s/2m	8h46m/7h18m
TMDE807KA1	110V	7m/5m50s	7h54m/6h35m
TMDE807KF1	220V	7m/5m50s	7h54m/6h35m
TMDEX09UM1	220V	12m/9m	12h6m/10h5m



TMDF Series

Model	Rated Voltage	Defrost Time	Cycle Time
TMED702HD1	220V	2m24s/2m	8h46m/7h19m
TMDF702HD2	220V	2m24s/2m	8h46m/7h19m
TMDF702ZD1	220V	2m24s/2m	8h46m/7h19m
TMDF702ZH2	220V	2m24s/2m	8h46m/7h19m
TMDF702KB1	110V	2m24s/2m	8h46m/7h19m
TMDF702KA2	220V	2m24s/2m	8h46m/7h19m
TMDF706KL1	110V	7m/5m50s	8h/6h38m
TMDF706KL4	110V	7m/5m50s	8h/6h38m
TMDF706ZC2	220V	7m/5m50s	8h/6h38m
TMDF706KF4	220V	7m/5m50s	8h/6h38m
TMDF706ZD1	220V	7m/5m50s	8h/6h38m
TMDF706CD1	220V	7m/5m50s	8h/6h38m
TMDF802ZH1	110V	2m24s/2m	8h46m/7h19m
TMDF807KH2	110V	7m/5m50s	8h/6h38m
TMDF835KA2	110V	35m/29m	8h/6h38m
TMDFX004KH2	110V	4m20s/3m30s	10h/8h24m
TMDF004ZD1	220V	4m20s/3m30s	10h/8h24m



TMDB Series

Model	Rated Voltage	Defrost Time	Cycle Time
TMDBM8322X	208–240V	29m40s/25m	9h36m/8h
TMDBM8322	208–240V	25m20s/21m6s	9h36m/8h
TMDBM8308X	110–120V	24m12/20m	9h36m/8h
TMDBM8308	110–120V	24m12/20m	9h36m/8h
TMDB8429X	110–120V	25m20s/21m6s	7h12m/6h
TMDB8429	110–120V	29m40s/25m	7h12m/6h
TMDB8429CRX	208–240V	36m25s/31m	7h12m/6h
TMDBM8431	208–240V	24m12/20m	7h12m/6h
TMDB8429RX	110–120V	37m20s/32m16s	7h12m/6h



Part No.	Voltage (V/Hz)	Defrost Frequency (Hours)	Defrost Time (Mins.)
TD–20C	220/50 220/60	8 6	17 25
TD–20L	110/50 110/60	8 6	17 25



TD–20L



TD–20C

K Series Thermostat



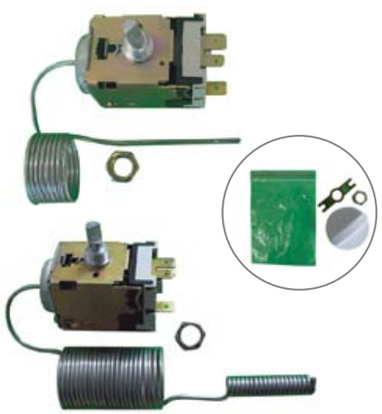
Model	Warm		Cold	
	ON(℃)	OFF(℃)	ON(℃)	OFF(℃)
K50-P1110=VC1	2	--	-14.5	-23
K50-P1102=VT9	--	-11	--	-26
K50-P1125	8.5	--	-9.5	-18
K50-P1126	-9.5	--	-18	-24.5
K50-P1127	12.5	--	5	1.5

007B Series Thermostat



Model	Warm		Cold		Capillary(mm)
	ON(℃)	OFF(℃)	ON(℃)	OFF(℃)	
007B 0021	-2	-11	-9.7	-21	1200
007B 0022	-8	-16	-15.5	-22.5	1000
007B 0023	-10.5	-16	-19.5	-26	1200
007B 0024	-13	-21	-20.5	-30	1000
007B 0025	-15 ± 1.5	-23 ± 1.5	-22	-32 ± 2	800
007B 0026	-17	-23	-23	-30	1000
007B 0027	1.5 ± 2	9 ± 2	8 ± 1.5	0.5 ± 1.5	1200
007B 0028	10.5	5 ± 2	3 ± 1.5	-4.5 ± 1.5	1000
007B 0033	2.5	-5	-13.5	-24.5	1000
007B 6184	3.7 ± 1.5	-23 ± 1.5	3.7 ± 2	-35 ± 2	710
007B 6188	3 ± 1.5	-17.5 ± 1.5	3 ± 1.5	31 $^{+1.5}_{-2.5}$	830
007B 6201	3.5 ± 1.5	-10 ± 1.5	3.5 ± 1.5	-22 ± 1.5	2500
007B 6208	3.5	-11	-3.5	-27.5	1200
007B 6220	3.5	-10	3.5	-20	1000
007B 6221	3.5	-12.5 ± 2	3.5	-23 ± 1.5	1000

T Series Thermostat



Model	Warm		Normal		Cold		Capillary(mm)
	ON(℃)	OFF(℃)	ON(℃)	OFF(℃)	ON(℃)	OFF(℃)	
T-112-1M	0		-7	-14		-20	800
T-113	11.5 ± 2	9 ± 2	10 ± 1.5	7.5 ± 1.5	-7 ± 1.5	-10 ± 1.5	2600
T-113-1		-5 ± 2			-15 ± 1.3	-20 ± 1.3	2060
T-113-2		10 ± 2			-5 ± 1.3	-10 ± 1.3	2150

Model	Warm		Normal		Cold		Capillary(mm)
	ON(℃)	OFF(℃)	ON(℃)	OFF(℃)	ON(℃)	OFF(℃)	
T-113-3		15 ± 2			10 ± 1.3	5 ± 1.3	1400
T-113-4		5 ± 2			-10 ± 1.3	-15 ± 1.3	2060
T-133-1M	3.5	-10			3.5	-22	1300
T-145-2M		-20			-20	-27	2000
T-145-8M-2	-15 ± 1.5	(-21)			-22 ± 1.5	-31 ± 1.5	870

A Series Thermostat



Model	Warm		Cold		Capillary(mm)
	ON(℃)	OFF(℃)	ON(℃)	OFF(℃)	
A01 0637	6 ± 2	(0)	-19 ± 2	-26 ± 1.5	1200
A13 0112	7	-16	7	-28	1200
AD010090 D220	-3 ± 1.5	-10 ± 1.5	-10.5 ± 1.5	-20.5 ± 1.5	850
A010148	-10 ± 1.5	-18 ± 1.5		-25 ± 2	2100
A010279	10 ± 1.2		-2 ± 1.2	-8 ± 1.2	2700
A040027	-16 ± 1.5	-24 ± 1.5		-32 ± 2	1800
A130056	5 ± 1.5	-15.5 ± 2	5 ± 1.5	-26 ± 1.5	1000
A130665A184+	3 ± 1.5	-11 ± 2.5	3 ± 1.5	-28 ± 2	1270
A130666E 194+	4 ± 1	-11 ± 2	4 ± 1	-24 ± 1.5	900
A131000 C3744	4	-11	4	-25	1250

FC Series Thermostat



FC-A2000 FC-F2000

Model	Operating temperature						Capillary
	Warm		Normal		Cold		
	ON℃	OFF℃	ON℃	OFF℃	ON℃	OFF℃	(mm)
FC-A2000	--	(+35)	--	0 ± 3	--	(-35)	120
FC-F2000	--	(+35)	--	0 ± 3	--	(-35)	1750

Pressure Controls



Model	Application	Settings P.S.I		Setting Tolerance
		Open	Close	
LPS0520	Low Pressure Automatic reset	5	20	+/-5
LPS1020		10	20	+/-5
LPS2550		25	50	+/-5
HPS200150	High Pressure Automatic Reset	200	150	+/-15
HPS250150		250	150	+/-15
HPS300200		300	200	+/-15
HPS350250		350	250	+/-15
HPS400300		400	300	+/-15

Lighting Box of Temperature Control for Refrigerator



LBTC–105
207mm × 90mm



LBTC–106
240mm × 150mm



LBTC–107
226mm × 60mm



LBTC–108
243mm × 100mm



LBTC–109
363mm × 70mm



LBTC–110
240mm × 195mm

LBTC–111
280mm × 150mm



LBTC–116
230mm × 60mm



LBTC–117
320mm × 75mm

3/4" Disc Defrost Thermostats



DT–1001
Open:57°F Close:25°F



DT–1002
Open:45°F Close:27°F



DT–1003
Open:60°F Close:18°F



DT–1004
Open:55°F Close:35°F



DT–1005
Open:80°F Close:15°F



DT–1006
Open:85°F Close:100°F



DT–1007
Open:47°F Close:15°F



DT–1008
Open:60°F Close:40°F



DT–1009
Open:45°F Close:25°F



DT–1012
Open:60°F Close:20°F



DT–1013
Open:50°F Close:20°F



DT–1014
Open:65°F Close:45°F



DT–1010
Open:60°F Close:40°F



DT–1011
Open:70°F Close:50°F

DT10 series	Dief(°F)	Open(°F)	Close(°F)
L37	10	37	47
L45	20	45	25
L50	20	50	30
L55	20	55	35

DT10 series	Dief(°F)	Open(°F)	Close(°F)
L60	20	60	40
L70	20	70	50
L80	50	80	30
L90	55	90	35

Bi–metal Defrosting Thermostats

1/2" Disc Defrost Thermostats



DT–2001
Open:13℃ Close:–4℃



DT–2002
Open:12℃ Close:–5℃+Fuse72℃



DT–2003
Open:12℃ Close:–5℃+Fuse72℃



DT–2004
Open:15℃ Close:–4℃+Fuse70℃



DT–2005
Open:10℃ Close:–2℃+Fuse70℃



DT–2006
Open:15℃ Close:0℃



DT–2007
Open:13℃ Close:–4℃



DT–2008
Open:12℃ Close:–5℃+Fuse72℃



DT–2009
Open:12℃ Close:5℃+Fuse76℃



DT–2010
Open:15℃ Close:–2℃



DT–2012
Open:13℃ Close:–4℃+Fuse72℃



DT–2013
Open:8℃ Close:–14℃



DT–2011
Open:13℃ Close:–4℃+Fuse72℃



DT–3001
Open:13℃ Close:0℃+Fuse65℃
250V 4A



DT–3002
Open:8℃ Close:–4℃+Fuse72℃



DT–3003
Open:9℃ Close:–2℃



DT–3004
Open:8℃ Close:–4℃

DT–3006
Open:13℃ Close:–4℃

DT–3007
Open:13℃ Close:–4℃

DT–3008
Open:13℃ Close:0℃

DT–3009
Open:10℃ Close:–8℃+Fuse72℃

Bi–metal Defrosting Thermostats

1/2" Disc Defrost Thermostats



DT–3010
Open:8℃ Close:–7℃



DT–3011
Open:20℃ Close:16℃



DT–3012
Open:11℃ Close:0℃+Fuse70℃



DT–3013
Open:13℃ Close:–4℃+Fuse72℃



DT–3014
Open:13℃ Close:–4℃+Fuse72℃



DT–3015
Open:13℃ Close:–4℃+Fuse76℃



DT–3016
Open:11℃ Close:0℃+Fuse70℃



DT–4001
Open:8℃ Close:–7℃+Fuse72℃



DT–4002
Open:13℃ Close:0℃



DT–4003
Open:8℃ Close:–4℃+Fuse76℃



DT–4007
Open:8℃ Close:–4℃



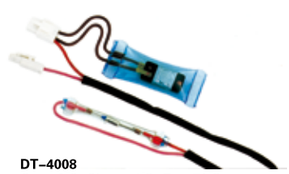
DT–4004
Open:8℃ Close:–7℃+Fuse72℃



DT–4005
Open:8℃ Close:–4℃+Fuse65℃
250V 4A



DT–4006
Open:8℃ Close:–14℃



DT–4008
Open:8℃ Close:–4℃+Fuse70℃

Heavy–duty Sealed Thermostats



DT–5012



DT–5011A



DT–5011

Temperature Sensor



MFB thermistors



NTC thermistors



MFS type NTC thermistors



CWF type NTC temperature sensors



Floor Heating Temperature Sensor



Water Dispenser Temperature Sensor



airconditioner series



refrigerator and freezer series

IP68 waterproof type temperature sensor





IP67 waterproof type temperature sensor







Snap–Action Automatic Thermostats


DT–6001


DT–6002


DT–6003


DT–6004


DT–6005


DT–6006


DT–6007


DT–6008


DT–6009


DT–6010


DT–6011


DT–301M


DT–301K


DT–301L


DT–301H


DT–301A


DT–301C


DT–301G


DT–301I


DT–301N


DT–301D


DT–40i


DT–20i


DT–301E

Time Delay Relays and Sequencers


DT–9001


DT–9002


DT–9003

Contact Rating Chart

VAC	RES AMPS	FLA	LRA	PILOT DUTY VA
120	30	23	84	672
240	30	23	60	960
277	23	23	42	775
480	12.5	5	10	400









Adapter–Female–C × F

Size (inch)	Description		
	1/4" × 1/2"	1 5/8" × 1 1/2"	2 5/8" × 2 1/2"
	5/8" × 3/8"	1 5/8" × 1 1/4"	3 1/8" × 3"
	1 1/8" × 1 1/4"	2 1/8" × 2"	4 1/8" × 4"

*other sizes available

Adapter–Male–C × M

Size (inch)	Description		
	1/4" × 3/8"	5/16" × 1/4"	7/8" × 1"
	1/4" × 1/4"	1/2" × 3/4"	7/8" × 3/4"
	5/16" × 1/8"	1/2" × 1/2"	7/8" × 1/2"

*other sizes available

Coupling–No Stop – C × C

Size (inch)	Description		
	1/4"	1 1/8"	2 1/8"
	3/8"	1 3/8"	2 5/8"
	1/2"	1 5/8"	3 1/8"

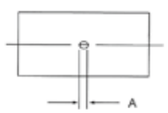
*other sizes available

Coupling–Rolled Stop – C × C

Size (inch)	Description		
	1/8"	1 1/8"	3 1/8"
	3/16"	1 3/8"	3 5/8"
	1/4"	1 1/2"	4 1/8"

*other sizes available









Coupling–Staked Stop – C × C

Size (inch)	Description		
	1/4"	1 1/8"	3 1/8"
	5/16"	1 3/8"	3 5/8"
	3/8"	1 5/8"	4 1/8"

*other sizes available

Coupling–Reducing Stop – C × C

Size (inch)	Description		
	1/4" × 3/16"	1/2" × 3/8"	7/8" × 5/8"
	1/4" × 1/8"	1/2" × 1/4"	7/8" × 1/2"
	5/16" × 1/4"	5/8" × 1/2"	7/8" × 3/8"

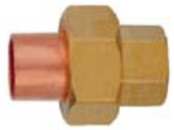
*other sizes available

Fitting Reducing – FTG × C

Size (inch)	Description		
	1/4" × 1/8"	1 1/8" × 7/8"	2 1/8" × 1 5/8"
	3/8" × 1/4"	1 3/8" × 1 1/8"	2 1/8" × 1 3/8"
	1/2" × 3/8"	1 3/8" × 7/8"	2 1/8" × 1 1/8"

*other sizes available

Union – C x C



Size (inch)	Description		
	3/8"	3/4"	1 3/8"
	1/2"	7/8"	1 5/8"
	5/8"	1 1/8"	2 1/8"

*other sizes available

Copper Tube Strap – 2Hole



Size (inch)	Description		
	1/4"	7/8"	1 5/8"
	3/8"	1 1/8"	2 1/8"
	1/2"	1 3/8"	3 1/8"

*other sizes available

Cap – C



Size (inch)	Description		
	1/4"	5/8"	1 1/8"
	3/8"	3/4"	1 3/8"
	1/2"	7/8"	1 5/8"

*other sizes available

90° Short Radius Elbow– C x C



Size (inch)	Description		
	1/4"	5/8"	1 1/8"
	3/8"	3/4"	1 3/8"
	1/2"	7/8"	1 5/8"

*other sizes available

90° Short Radius Elbow– FTGxC



Size (inch)	Description		
	1/4"	5/8"	1 1/8"
	3/8"	3/4"	1 3/8"
	1/2"	7/8"	1 5/8"

*other sizes available

90° Short Radius Elbow– FTG x FTG



Size (inch)	Description		
	3/8"	1 1/8"	2 1/8"
	1/2"	1 3/8"	2 5/8"
	5/8"	1 5/8"	4 1/8"

*other sizes available

90° Long Radius Elbow – C x C



Size (inch)	Description		
	3/16"	3/8"	2 1/8"
	1/4"	1/2"	3 5/8"
	5/16"	5/8"	4 1/8"

*other sizes available

90° Long Radius Elbow – FTGxC



Size (inch)	Description		
	3/8"	3/4"	2 5/8"
	1/2"	7/8"	3 5/8"
	5/8"	1 1/8"	4 1/8"

*other sizes available

90° Long Radius Elbow – FTGxFTG



Size (inch)	Description		
	1 3/8"	1 5/8"	2 1/8"

*other sizes available

45° Elbow – CxC



Size (inch)	Description		
	1/4"	5/8"	1 1/8"
	3/8"	3/4"	1 3/8"
	1/2"	7/8"	1 5/8"

*other sizes available

45° Street Elbow – FTG x C



Size (inch)	Description		
	3/8"	3/4"	1 3/8"
	1/2"	7/8"	1 5/8"
	5/8"	1 1/8"	2 1/8"

*other sizes available

45° Elbow – FTG x FTG



Size (inch)	Description		
	1/2"	1 1/8"	
	5/8"		
	7/8"		

*other sizes available

P–Trap – C x C



Size (inch)	Description		
	5/8"	1 1/8"	2 1/8"
	3/4"	1 3/8"	
	7/8"	1 5/8"	

*other sizes available

Return Bend – C x C



Size (inch)	Description		
	3/8"	3/4"	1 3/8"
	1/2"	7/8"	1 5/8"
	5/8"	1 1/8"	2 1/8"

*other sizes available

Reducing Tee – C x C x C



Size (inch)	Description		
	1/4" x 1/4" x 3/8"	3/8" x 3/8" x 5/8"	5/8" x 5/8" x 3/4"
	1/4" x 1/4" x 3/16"	3/8" x 3/8" x 1/2"	5/8" x 5/8" x 3/4"
	5/16" x 5/16" x 3/8"	1/2" x 1/2" x 5/8"	7/8" x 7/8" x 3/8"

*other sizes available

Bushing – FTG x C



Size (inch)	Description		
	1 1/2" x 1 1/4"	3" x 2"	4" x 3"
	2" x 1 1/2"	3" x 1 1/2"	4" x 2"
	2" x 1 1/4"	3" x 1 1/4"	

*other sizes available

45° Elbow – FTG x C



Size (inch)	Description	
	1 1/4"	3"
	1 1/2"	
	2"	

*other sizes available

Cross–C x C x C x C



Size (inch)	Description		
	1/4"	1 1/8"	2 1/8"
	5/8"	1 3/8"	2 5/8"
	7/8"	1 5/8"	

*other sizes available

90° Elbow Extra Long Turn – C x C



Size (inch)	Description	
	1 1/2"	4"
	2"	
	3"	

*other sizes available

Tee – C x C x C



Size (inch)	Description		
	3/16"	3/8"	3/4"
	1/4"	1/2"	7/8"
	5/16"	5/8"	1 1/8"

*other sizes available

90° Elbow– FTG x C



Size (inch)	Description	
	1 1/4"	3"
	1 1/2"	
	2"	

*other sizes available

Test Cap



Size (inch)	Description		
	1/2"	1 1/4"	3"
	3/4"	1 1/2"	
	1"	2"	

*other sizes available

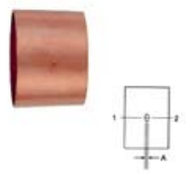
90° Elbow – C x C



Size (inch)	Description	
	1 1/4"	3"
	1 1/2"	
	2"	

*other sizes available

Coupling – C x C



Size (inch)	Description	
	1 1/4"	3"
	1 1/2"	4"
	2"	

*other sizes available

Reducing Coupling – C x C

Size (inch)	Description	
	2" x 1 1/2"	3" x 1 1/2"
	2" x 1 1/4"	4" x 3"
	3" x 2"	4" x 2"

*other sizes available

Repair Coupling – C x C



Size (inch)	Description	
	1 1/4"	3"
	1 1/2"	
	2"	

*other sizes available

45° Elbow – C x C



Size (inch)	Description	
	1 1/4"	3"
	1 1/2"	
	2"	

*other sizes available

Vacuum Pump

G series double stage

The front and back stage connected by one same shaft, higher vacuum degree.

PM material for back stage pump, higher wear resistance.

Superiority design on oil entering system, oil and gas separated thoroughly, no oil mist.



Gas ballast valve

Model		2TM–0.5G	2TM–1G	2TM–1.5G	2TM–2G	2TM–3G	2TM–4G	2TM–5G	2TM–6G
Flow Rate (cfm)	220V⁀/50Hz	1CFM 30L/min	2CFM 60L/min	3CFM 90L/min	4CFM 120L/min	6CFM 180L/min	8CFM 240L/min	10CFM 300L/min	12CFM 360L/min
	110V⁀/60Hz	1.2CFM 36L/min	2.5CFM 72L/min	3.5CFM 108L/min	5CFM 144L/min	7.2CFM 216L/min	9.6CFM 288L/min	12CFM 360L/min	14.5 CFM 430 L/min
Actual Ultimate Vacuum		2*10–1 Pa 15Microns	2*10–1 Pa 15Microns	2*10–1 Pa 15Microns	2*10–1 Pa 15Microns	2*10–1 Pa 15Microns	2*10–1 Pa 15Microns	2*10–1 Pa 15Microns	2*10–1 Pa 15Microns
Power(HP)		1/4	1/3	1/3	1/2	3/4	3/4	3/4	3/4
Motor speed (r/mi)	220V⁀/50Hz	1440	1440	1440	1440	1440	1440	1440	1440
	110V⁀/60Hz	1720	1720	1720	1720	1720	1720	1720	1720
Inlet Port (optional)		1/4 SAE	1/4 SAE	1/4 SAE	1/4 SAE	1/4 SAE	1/4 SAE	1/4 SAE	1/4 SAE
Oil Capacity (ml)		200	250	300	280	600	650	900	800
Dimensions (mm)		315*125*240	315*125*240	340*135*260	340*135*260	390*145*280	425*155*280	440*160*280	440*160*280
Weight(kg)		7	9	10	10	16	17	19	20



M Series

Model		TM–1M	TM–1.5M	2TM–0.5M	2TM–1M
Flow Rate (cfm)	220V⁀/50Hz	2CFM 60L/min	3CFM 90L/min	1CFM 30L/min	2CFM 60L/min
	110V⁀/60Hz	2.5CFM 72L/min	3.5CFM 108L/min	1.2CFM 36L/min	2.5CFM 72L/min
Actual Ultimate Vacuum		5 Pa 35Microns	5 Pa 35Microns	3*10–1 Pa 20Microns	3*10–1 Pa 20Microns
Power(HP)		1/6	1/4	1/6	1/4
Motor speed (r/mi)	220V⁀/50Hz	2800	2800	2800	2800
	110V⁀/60Hz	3360	3360	3360	3360
Inlet Port (optional)		1/4 SAE	1/4 SAE	1/4 SAE	1/4 SAE
Oil Capacity (ml)		150	150	150	150
Dimensions (mm)		246*105*200	246*105*200	246*105*200	246*105*200
Weight(kg)		4	4.3	5	5.3

A Series Single Stage

Model		TM–0.5A	TM–1A	TM–1.5A	TM–2A	TM–3A	TM–4A	TM–5A
Flow Rate (cfm)	220V⁀/50Hz	1CFM	2CFM	3CFM	4CFM	6CFM	8CFM	9CFM
		30L/min	60L/min	90L/min	120L/min	180L/min	212L/min	260L/min
	110V⁀/60Hz	1.2CFM	2.5CFM	3.5CFM	4.8CFM	7.2CFM	9.6CFM	11CFM
		36L/min	72L/min	108L/min	144L/min	216L/min	255L/min	312L/min
Actual Ultimate Vacuum		10Pa	10Pa	10Pa	10Pa	10Pa	10Pa	5 Pa
		75Microns	75Microns	75Microns	75Microns	75Microns	75Microns	35Microns
Power(HP)		1月6日	1月4日	1月4日	1月3日	1月2日	1月2日	3月4日
Motor speed (r/mi)	220V⁀/50Hz	1440	1440	1440	1440	1440	1440	1440
	110V⁀/60Hz	1720	1720	1720	1720	1720	1720	1720
Inlet Port (optional)		1/4 SAE	1/4 SAE	1/4 SAE	1/4 SAE	1/4 SAE	1/4 SAE	1/4 SAE
Oil Capacity (ml)		160	250	200	250	320	700	700
Dimensions (mm)		240*115*230	249*121*230	315*125*240	340*135*260	315*135*260	390*145*280	420*155*280
Weight(kg)		6	7.2	7.5	8.8	9.8	15.5	16

C Series Double Stage

Model		2TM–0.5C	2TM–1C	2TM–1.5C	2TM–2C	2TM–3C	2TM–4C
Flow Rate (cfm)	220V⁀/50Hz	1CFM 30L/min	2CFM 60L/min	3CFM 90L/min	4CFM 120L/min	6CFM 180L/min	8CFM 240L/min
	110V⁀/60Hz	1.2CFM 36L/min	2.5CFM 72L/min	3.5CFM 108L/min	5CFM 144L/min	7.2CFM 216L/min	9.6CFM 288L/min
Actual Ultimate Vacuum		5*10–1 Pa 25Microns	5*10–1 Pa 25Microns	5*10–1 Pa 25Microns	5*10–1 Pa 25Microns	5*10–1 Pa 25Microns	5*10–1 Pa 25Microns
Power(HP)		1/4	1/3	1/3	1/2	3/4	3/4
Motor speed (r/mi)	220V⁀/50Hz	1440	1440	1440	1440	1440	1440
	110V⁀/60Hz	1720	1720		1720		1720
Inlet Port (optional)		1/4 SAE	1/4 SAE	1/4 SAE	1/4 SAE	1/4 SAE	1/4 SAE
Oil Capacity (ml)		200	250	300	280	600	650
Dimensions (mm)		315*125*240	315*125*240	340*135*260	340*135*260	390*145*280	425*155*280
Weight(kg)		7	9	10	10	16	17

E Series Double Stage High Speed

Model		2TM–1E	2TM–2E	2TM–3E	2TM–4E
Flow Rate (cfm)	220V⁀/50Hz	2.5CFM 72L/min	4.5CFM 128L/min	7CFM 200L/min	11CFM 312L/min
	110V⁀/60Hz	3CFM 85L/min	5.5CFM 156L/min	8.5CFM 240L/min	13.2CFM 375L/min
Actual Ultimate Vacuum		5*10–1 Pa 25Microns	5*10–1 Pa 25Microns	5*10–1 Pa 25Microns	5*10–1 Pa 25Microns
Power(HP)		1/4	1/3	1/2	3/4
Motor speed (r/mi)	220V⁀/50Hz	2800	2800	2800	2800
	110V⁀/60Hz	3360	3360	3360	3360
Inlet Port (optional)		1/4 SAE	1/4 SAE	1/4 SAE	1/4 SAE
Oil Capacity (ml)		200	250	280	280
Dimensions (mm)		315*125*240	315*125*240	340*135*260	390*145*280
Weight(kg)		7	9	9	10

Charging Stations



TM–2008A

The unit consists of:

※2TM–1C vacuum pump

※Vacuum gauge 80 mm diameter

※Manifold with hoses 36"

※Quick couplers

※Connection 1/2" 20UNF

※For R12,R22,R502,R134A,R404A,R407,R407C,R507



Designed for field service repair of all appliances charged with R12, R134a refrigerant produced for garages or maintenance stations,

The unit consists of:

※TM-2A secondary Vacuum pump

※High low pressure gauge 80 mm diameter(can choose to install)

※For R12/R134a refrigerant

※20617-1 Polyamld-Capillary-Hose

※20618-2 support device for liquid filling of R134a

※Can valve for refrigerant 20617-1、20618-2

※All necessary charging hoses including one special hose of 3 meter length in order to prevent any R134a gas leaking in the working area; for safety reasons, gas must be led through this hose into the outside.

Vacuum Pump Parts

Power Supply Plugs



A01 A02 A03 A04 A05 A06 A07 A08

Item	Description	Item	Description	Item	Description	Item	Description
A01	Europe Plug	A03	Europe Plug	A05	American Plug	A07	Australia Plug
A02	South Africa Plug	A04	Europe Plug	A06	Taiwan Plug	A08	England Plug

Intake Ports Adapters



T1 T2 T3 T4 T5

Item	Description	Item	Description	Item	Description	Item	Description	Item	Description
T1	ϕ9	T2	1/4" SAE	T3	1/2"Acme 1/4" SAE	T4	1/2"Acme 1/4"SAE 3/8" SAE	T5	1/4"SAE 3/8" SAE

Accessories



P1 P2 P3 P4 P5

Item	Description	Item	Description	Item	Description	Item	Description	Item	Description
P1	ϕ63 Vacuum Gauge	P2	ϕ80 Vacuum Gauge	P3	ϕ50 Vacuum Gauge	P4	Solenoid Valve	P5	Solenoid Valve

Vacuum Pump Oil

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

Type	Kinematic Viscosity(40℃),mm²/s	Viscosity Index≥	Flash Point ℃≥	Four Point ℃≥
46	41.4 ~ 50.6	101	230	−10
68	61.2 ~ 74.8	101	240	−10
100	90 ~ 110	105	250	−10



Rotary AC Compressor

Avaliable for air conditioner,dehumidifer and industrial water chillers,etc.



R22、R407C compressor performance parameters

Refrigerant	Model	Rated Power Supply	Cylinder Volume cm^3	NOMINAL CAPACITY			INPUT POWER	Work Current	RUN CAPACITOR (μF/450V)
				W	kal/h	Btu/h	(W)	(A)	
R22	QXR−10E	220V ~ 50Hz	9.6	1680	1445	5712	580	2.7	20
	QXR−13E	220V ~ 50Hz	13.5	2120	1823	7208	730	3.5	25
	QXR−16E	220V ~ 50Hz	16.4	2730	2348	9282	915	4.2	25
	QXR−19E	220V ~ 50Hz	19.3	3210	2761	10914	1100	5.1	30
	QXR−21E	220V ~ 50Hz	21.3	3620	3113	12308	1210	5.6	30
	QXR−23E	220V ~ 50Hz	23.5	3920	3371	13328	1300	6.1	35
	QXR−25E	220V ~ 50Hz	25.4	4220	3629	14348	1410	6.6	35
	QXR−30E	220V ~ 50Hz	30.7	5200	4460	17680	1800	8.6	50
	QXR−33E	220V ~ 50Hz	33.6	5640	4850	19176	1925	9.1	50
	QXR−36E	220V ~ 50Hz	35.7	6060	5212	20604	2060	9.8	50
	QXR−41E	220V ~ 50Hz	41.2	7060	6072	24004	2360	11.2	50
	QXR−44E	220V ~ 50Hz	44.2	7620	6553	25908	2540	12.0	50
	QXR−13Y	220V ~ 50Hz	13.5	2650	2279	9010	900	4.2	20
	QXR−16Y	220V ~ 50Hz	16.4	3260	2804	11084	1100	5.1	20
	QXR−19Y	220V ~ 50Hz	19.3	3910	3363	13294	1300	6.0	25
	QXR−21Y	220V ~ 50Hz	21.3	4290	3689	14586	1440	6.7	30
	QXR−25Y	220V ~ 50Hz	25.4	5060	4352	17204	1720	8.2	30
	QXR−27Y	220V ~ 50Hz	26.4	5390	4635	18326	1820	8.5	35
	QXR−33Y	220V ~ 50Hz	33.6	6810	5857	23154	2320	10.6	45
	QXR−36Y	220V ~ 50Hz	35.7	7300	6278	24280	2500	11.5	50
R407C	QXC−10K	220V ~ 50Hz	9.6	1580	1359	5372	540	2.6	20
	QXC−13K	220V ~ 50Hz	13.5	2050	1763	6970	700	3.4	25
	QXC−16K	220V ~ 50Hz	16.4	2670	2296	9078	900	4.1	25
	QXC−19K	220V ~ 50Hz	19.3	3020	2597	10269	1050	5.0	30
	QXC−21K	220V ~ 50Hz	21.3	3580	3079	12172	1210	5.6	30
	QXC−25K	220V ~ 50Hz	25.4	4100	3526	13940	1380	6.5	35
	QXC−30K	220V ~ 50Hz	30.7	5200	4460	17680	1750	8.3	50
	QXC−33K	220V ~ 50Hz	33.6	5600	4816	19040	1900	9.0	50
	QXC−36K	220V ~ 50Hz	35.7	6060	5212	20604	2060	9.8	50
	QXC−41K	220V ~ 50Hz	41.2	6980	6003	23732	2330	11.1	50

Test conditions:

APPLICATION.	AMBIENT TEMP.	RETURN GAS TEMP.	CONDENSING TEMP.	SUBCOOLING TEMP.	EVAPORATING TEMP.
High Temp.	35℃	35℃	54.4℃	46.1℃	7.2

Rotary AC Compressor

This series of products, light weight, low noice, high efficiency, low discharge temperature, long operation life and are able to work under wide voltage. Now it is widely used for supermarket cabinet, air curtain cabinet and other commercial refrigeration & freezing equipments.



R22、R404A compressor performance parameters

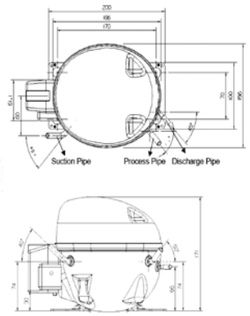
Refrigerant	Model	Power Specifications	Cylinder Volume	Different evaporating temperture corresponding refrigerating capacity W					
			CFM	–40	–30	–23.3	–20	–15	–10
R22	QXL–13E	220V/50Hz	13.5	260	465	745	800	1050	1365
R22	QXL–16E	220V/50Hz	16.4	385	560	920	1020	1300	1670
R22	QXL–19E	220V/50Hz	19.2	450	650	1010	1200	1530	1960
R22	QXL–23E	220V/50Hz	23.6	560	810	1230	1380	1820	2430
R22	QXL–30E	220V/50Hz	30.7	730	1050	1690	2020	2430	3180
R22	QXL–36E	220V/50Hz	35.7	850	1250	1886	2304	2860	3650
R22	QXL–41E	220V/50Hz	35.7	850	1250	1886	2304	2860	3650
R404a	QXD–13K	220–240V/50Hz	13.5	430	650	845	995	1230	1506
R404a	QXD–16K	220–240V/50Hz	16.4	539	780	1046	1235	1515	1840
R404a	QXD–19K	220–240V/50Hz	19.2	630	920	1230	1450	1780	2165
R404a	QXD–23K	220–240V/50Hz	23.6	785	1130	1516	1790	2185	2645
R404a	QXD–30K	220–240V/50Hz	30.7	1023	1580	1951	2320	2832	3500
R404a	QXD–36K	220–240V/50Hz	35.7	1200	1750	2303	2720	3315	4020
R404a	QXD–41K	220–240V/50Hz	41.2	1380	2020	2650	3140	3825	4640
R22	QHL–13E	220–240V/50Hz	13.5	260	465	745	800	1050	1365
R22	QHL–16E	220–240V/50Hz	16.4	385	560	920	1020	1300	1670
R22	QHL–23E	220–240V/50Hz	23.6	560	810	1230	1380	1820	2430
R22	QHL–30E	220–240V/50Hz	30.7	730	1050	1690	2020	2430	3180
R22	QHL–36E	220–240V/50Hz	35.7	850	1250	1886	2304	2860	3650
R404a	QHD–13K	220–240V/50Hz	13.5	430	650	845	995	1230	1506
R404a	QHD–16K	220–240V/50Hz	16.4	539	780	1046	1235	1515	1840
R404a	QHD–23K	220–240V/50Hz	23.6	785	1130	1516	1790	2185	2645
R404a	QHD–30K	220–240V/50Hz	30.7	1023	1580	1951	2320	2832	3500
R404a	QHD–36K	220–240V/50Hz	35.7	1200	1750	2303	2720	3315	4020

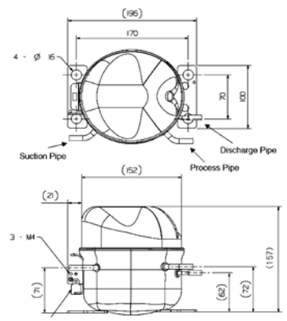
Test conditions:

APPLICATION.	AMBIENT TEMP.	RETURN GAS TEMP.	CONDENSING TEMP.	SUBCOOLING TEMP.	Testing Power Supply
MEDIUM/LOW.	32.2℃	32.2℃	54.4℃	32.2℃	220V ~ 50Hz

LG Compressor Original







Refrigerant	Series	Model	App.	Power (V/Hz)	C/Capa (W)	COP (W/W)
R134a	NS / MSA	NS24LAEG	LBP	220~240/50	44	0.58
		NS30LAEG	LBP	220~240/50	63	0.78
		NS36LAEG	LBP	220~240/50	77	0.86
		MSA43LBEG	LBP	220~240/50	116	1.11
	CMA	CMA053LHEG	LBP	220~240/50	150	1.42
		CMA057LHEG	LBP	220~240/50	163	1.42
		CMA069LHEM	LBP	220~240/50	195	1.52
		MA98LAEM	LBP	220~240/50	279	1.52
		LX110LAJM	LBP	220/50	323	1.39
R600a	CMA–Premium	CMA057NAEM	LBP	220~240/50	98	1.97
		CMA082NAEM	LBP	220~240/50	151	1.97
		CMA121NAEM	LBP	220~240/50	220	1.85
	CMA–Medium	CMA057NHEM	LBP	220~240/50	100	1.82
		CMA075NHEM	LBP	220~240/50	139	1.85
		CMA098NHEM	LBP	220~240/50	181	1.85
	CSB	CSB057NJEG	LBP	220~240/50	100	1.35
		CSB075NJEG	LBP	220~240/50	135	1.35

Embraco Compressor Original for Brazil Market

R134a L/MBP 60Hz

Model	Valtage	Gas Displacement (cm^3)
EM 20HHR	115–127V 60Hz	2.3
EM 20HHR	220–240V 50–60Hz	2.3
EM 20HBR	115V 60 Hz	2.3
EM 20HSC	115–127V 60 Hz	2.3
EMIE 30HER	115–127V 60 Hz	2.8
EMIE 30HER	220–240V 50–60 Hz	2.8
EMIE 30HJP	220V 60 Hz	2.8
EMIE 30HJR	115–127V 60 Hz	2.8
EMI 28HER	115–127V 60Hz	3.0
EMI 28HER	220–240V 50–60Hz	3.0
EMI 30HER	115–127V 60Hz	3.0
EMI 30HER	220–240V 50–60Hz	3.0
EMI 30HEX	115–127V 60 Hz	3.0
EM 30HHR	115V 60Hz	3.0
EM 30HHR	220–240V 50–60Hz	3.0
EM 30HNR	115–127V 60 Hz	3.0
EM 30HNR	220–240V 50–60 Hz	3.0
EMT 30HSC	115V 60Hz	3.0
EMU 30HSC	115V 60Hz	3.0
EMU 30HER	115–127V 60Hz	3.0
EMU 30HER	220–240V 50–60Hz	3.0
EMIE 40HER	115–127V 60 Hz	3.4
EMIE 40HER	220–240V 50–60 Hz	3.4
EMIE 40HJP	115–127V 60 Hz	3.4
EMIE 40HJP	220V 50–60 Hz	3.4
EMI 40HNR	115–127V 60Hz	3.8
EM 45HHR	115–127V 60Hz	3.8
EM 45HNR	115–127V 60 Hz	3.8
EM 45HNR	220V 50–60Hz	3.8
EMI 45HER	220–240V 50–60Hz	3.8
EMI 45HER	115–127V 60Hz	4.1
EMU 45HEP	100V 50–60Hz	3.8
EMU 45HSC	220–240V 50–60Hz	3.8
EMU 45HER	115–127V 60Hz	3.8
EMU 45HSC	115–127V 60Hz	3.8
EMY 45HER	115–127V 60Hz	3.8
EMY 45HSC	115–127V 60Hz	3.8
EMI 45HER	115V 60 Hz	4.1
EM 55HNR	115–127V 60Hz	4.6
EM 55HNR	220V 50–60Hz	4.6
EM 55HNX	115–127V 60 Hz	4.6
EMI 55HER	115–127V 60Hz	4.6
EMI 55HER	220V 50–60Hz	4.6
EMI 60HER	115–127V 60Hz	4.9
EMI 60HER	220V 50–60Hz	4.9
EMU 60HSC	115–127V 60Hz	4.9
EMY 60HER	115–127V 60Hz	4.9
EMY 60HSC	115–127V 60Hz	4.9
EMI 50HER	115V 60 Hz	5.0
EME 60HER	115–127V 60 Hz	5.0
EGX 60HLC	115–127V 60Hz	5.1
EMIE 65HER	220–240V 50–60 Hz	5.2
EM2S 60HLP	115–127V 60 Hz	5.2
EM2S 60HLP	220V 60 Hz	5.2
EMYS 60HEP	115–127V 60 Hz	5.2
EMYS 60HEP	220V 60 Hz	5.2
EM2Y 60HLP	115–127V 60 Hz	5.5
EM2Z 60HLT	115–127V 60 Hz	5.5
EM 65HHC	115V 60Hz	5.6
EM 65HNR	115–127V 60Hz	5.6
FFI 6HAK	220V 50–60Hz	6.2
FFV 6HAK	115–127V 60Hz	6.2
FFV 6HAK	220V 50–60Hz	6.2
EMY 70HER	115–127V 60Hz	5.7
EMY 70HSC	115–127V 60Hz	5.7
EMY 70HSC	220–240V 50–60 Hz	5.7
FFI 6HAK	115–127V 60Hz	6.2
EMX 70HSC	115–127V 60Hz	5.9
FF 7.5HBK	115V 60Hz	6.9
EGAS 70HLR	115–127V 60Hz	5.6
EGAS 70HLR	220–240V 50–60Hz	5.6
EGUS 70HLP	115–127V 60Hz	5.6
EGYS 70HLP	115–127V 60Hz	5.6
EGZS 70HLC	220–240V 50–60Hz	5.6
EGZS 70HLP	115–127V 60Hz	5.6
EGX 70HLC	115–127V 60Hz	5.6
EMI 70HER	220V 60Hz	5.9
EMI 70HNR	115V 60Hz	5.9





R134a L/MBP 60Hz

Model	Valtage	Gas Displacement (cm^3)
EMI 70HER	115–127V 60 Hz	5.9
EMYE 70HEP	115–127V 60 Hz	6.0
EMYE 70HEP	220–240V 50–60 Hz	6.0
EMYS 70HEP	115–127V 60 Hz	6.0
EM2U 70HLP	115–127V 60 Hz	6.4
EM2Z 70HLT	115–127V 60 Hz	6.4
FGS 70HA	100V 50–60 Hz	6.4
FGS 70HA	115–127V 60Hz	6.4
FGS 70HA	220–240V 50–60Hz	6.4
FF 8.5HBK	115V 60Hz	8.0
FF 8.5HBK	220V 60Hz	8.0
FFU 70HAK	115–127V 60Hz	6.4
EM 20HHR	220–240V 50–60Hz	2.3
EM 20HHR	115–127V 60Hz	2.3
EM 30HHR	220–240V 50–60Hz	3
EM 30HHR	115V 60Hz	3
EM 45HHR	115–127V 60Hz	3.8
EM 55HHR	115V 60Hz	4.6
EM 55HHR	220–240V 50–60Hz	4.6
EM 65HHC	115V 60Hz	5.6
EM 65HHR	115V 60Hz	5.6
EM 65HHR	220V 50–60Hz	5.6
FF 6HBK	115 V 60 Hz	6.2
FF 7.5HBK	115V 60Hz	6.9
FF 7.5HBK	220–240V 50–60 Hz	6.9
FF 8.5HBK	115V 60Hz	8
FF 8.5HBK	220V 60Hz	8
FF 10HBK	115V 60Hz	9
FF 10HBK	220V 60Hz	9
FF 10HBX	115V 60 Hz	9
FFI 10HBX	115V 60 Hz	9
FFC 110HBX	220V 60 Hz	9.5
FFI 12HBX	115–127V 60Hz	11.1
FFI 12HBX	220V 60Hz	11.1
FFI 12HAX	115V 60 Hz	11.1

R600a L/MBP 60Hz

Model	Valtage	Gas Displacement (cm^3)
EMX 20CLC	115–127V 60 Hz	4
EMX 20CLC	220V 60 Hz	4
EMI 30CNP	220V 50–60 Hz	5
EMT 30CLP	208–230V 50–60 Hz	6
EMI 40CNC	115–127V 60 Hz	6.4
EMI 40CNC	220–240V 50–60Hz	6.4
EMI 40CNP	220V 50–60Hz	6.4
EMYE 70CLP	115–127V 60 Hz	10.6
EMYE 70CLP	220V 50–60 Hz	10.6

R600a M/HBP 60Hz

Model	Valtage	Gas Displacement (cm^3)
EMT 30CDP	100V 50–60 Hz	4.5
EMT 45CDP	100V 50–60 Hz	6.8

R134a M/HBP 60Hz

Model	Valtage	Gas Displacement (cm^3)
FFI 7.5HAK	115V 60Hz	6.7
FFI 7.5HAK	220–240V 50–60Hz	6.7
FFU 80HAK	115–127V 60Hz	6.7
FFU 80HAK	220–240V 50–60Hz	6.7
FFU 80HAX	115–127V 60 Hz	6.8
EGAS 80HLR	115–127V 60Hz	6.4
EGAS 80HLR	220–240V 50–60Hz	6.4
EGUS 80HLP	115–127V 60Hz	6.4
EGZS 80HLC	220–240V 50–60Hz	6.4
EGZS 80HLP	115–127V 60Hz	6.4
EGX 80HLC	115–127V 60Hz	6.4
FFI 8.5HAK	115–127V 60Hz	7.2
FFI 8.5HAK	220–240V 50–60Hz	7.2
FF 10HBK	115V 60Hz	9.0
FF 10HBK	220V 60Hz	9.0
EM2Z 80HLT	115–127V 60 Hz	7.0
EM2U 80HLP	115–127V 60 Hz	7.0
FGU 90HA	115–127V 60Hz	7.5
EGUS 90HLP	115–127V 60Hz	7.2
EGYS 90HLP	115–127V 60Hz	7.2
EGZS 90HLC	220–240V 50–60Hz	7.2
EGZS 90HLP	115–127V 60Hz	7.2
EGX 90HLC	115–127V 60Hz	7.2
FFU 100HAK	115–127V 60Hz	8.0
FFU 100HAK	220–240V 50–60Hz	8.0
FFI 10HAK	115–127V 60Hz	9.0
FFI 10HAK	220–230V 50–60Hz	9.0
EGZ 100HLP	115–127V 60Hz	8.0
EGAS 100HLR	220–240V 50–60Hz	8.0
EGZS 100HLC	220–240V 50–60Hz	8.0
EGZS 100HLP	115–127V 60Hz	8.0
FFI 12HBX	115–127V 60Hz	11.1
FFI 12HBX	220V 60Hz	11.1
FFU 130HAX	115–127V 60Hz	10.7
FFU 130HAX	220V 60Hz	10.7
FFU 70HAK	220–240V 50–60Hz	6.4

R290 L/MBP 60Hz

Model	Valtage	Gas Displacement (cm^3)
EMI 50UER	115–127V 60 Hz	3
EMI 50UER	220–240V 50–60 Hz	3
EMI 70UER	115–127V 60 Hz	4.1
EMI 70UER	220–240V 50–60 Hz	4.1
EMI 90UEX	115–127V 60Hz	4.9
EMI 90UEX	220V 60 Hz	5
FFU 130UAX	115V 60 Hz	6.8
FFU 130UAX	115–127V 60 Hz	6.8
FFU 130UAX	220–240V 50–60Hz	6.7
FFU 160UAX	115–127V 60Hz	8
FFU 160UAX	220V 60 Hz	8
EMI 50UER	115–127V 60 Hz	3
EMI 50UER	220–240V 50–60 Hz	3
EMI 70UER	115–127V 60 Hz	4.1
EMI 70UER	220–240V 50–60 Hz	4.1
EMI 90UEX	115–127V 60Hz	4.9
EMI 90UEX	220V 60 Hz	5
FFU 130UAX	115V 60 Hz	6.8
FFU 130UAX	115–127V 60 Hz	6.8
FFU 130UAX	220–240V 50–60Hz	6.7
FFU 160UAX	115–127V 60Hz	8
FFU 160UAX	220V 60 Hz	8

Embraco Original for Europe Market

R134a LBP 50Hz

Model	Valtage	Gas Displacement (cm^3)
EMT22HLP	220–240V 50Hz 1^-	3,00
EMT36HLP	220–240V 50Hz 1^-	3,97
EMT43HLP	220–240V 50Hz 1^-	4,85
EMT49HLP	220–240V 50Hz 1^-	5,56
EMT60HLP	220–240V 50Hz 1^-	6,76
NEK1116Z	220–240V 50HZ 1^-	7,37
NEK2116Z	220–240V 50HZ 1^-	7,37
NEK1118Z	220–240V 50HZ 1^-	8,39
NE1121Z	220–240V 50HZ 1^-	9,26
NEK1121Z	220–240V 50Hz 1^-	9,26
NE2121Z	200–220V 50Hz / 230V 60Hz 1^-	9,26
NE2121Z	220–240V 50Hz 1^-	9,26
NE1130Z	200–220V 50Hz / 230V 60Hz 1^-	12,11
NE1130Z	220–240V 50Hz 1^-	12,11
NE2130Z	200–220V 50Hz / 230V 60Hz 1^-	12,11
NE2130Z	220–240V 50Hz 1^-	12,11
NE2130Z	100V 50–60HZ 1^-	12,11
NE2134Z	220–240V 50Hz 1^-	14,28
NEK1140Z	220–240V 50Hz 1^-	16,80
NEK2140Z	220–240V 50HZ 1^-	16,80
NJ2152Z	220–240V 50HZ 1^-	27,16

R290 LBP 50Hz

Model	Valtage	Gas Displacement (cm^3)
EMT1117U	220–240V / 50Hz 1^-	4,5
EMT1121U	220–240V / 50Hz 1^-	5,56
EMT1125U	220–240V / 50Hz 1^-	5,96
EMT1130U	220–240V / 50Hz 1^-	6,76
EMT2117U	220–240V / 50Hz 1^-	4,5
EMT2121U	220–240V / 50Hz 1^-	5,56
EMT2125U	220–240V / 50Hz 1^-	5,96
EMT2130U	220–240V / 50Hz 1^-	6,76
EMTE2134U	220–240V / 50Hz 1^-	9,5
NEK2121U	220–240V 50Hz 1^-	6,2
NEK1121U	220–240V 50Hz 1^-	6,2
NEK2125U	220–240V 50Hz 1^-	7,28
NEK2134U	220–240V 50Hz 1^-	10,00
NEK2150U	220–240V 50Hz 1^-	13,54
NEK1150U	220–240V 50Hz 1^-	13,54
NEK2160U	220–240V 50Hz 1^-	16,8
NT2160U	220–240V 50Hz 1^-	17,4
NT2160U	220–240V 50Hz 1^-	17,4
NT2170U	220–240V 50Hz 1^-	20,4
NT2170U	220–240V 50Hz 1^-	20,4
NT2180U	220–240V 50Hz 1^-	22,4
NT2180U	220–240V 50Hz 1^-	22,4
NT2210U	220–240V 50Hz 1	27,8

R134a HBP 50Hz

Model	Valtage	Gas Displacement (cm^3)
EMT37HDP	220–240V / 50Hz 1^-	3,4
EMT37HDP	200–230V 50Hz / 208–230V 60Hz 1^-	3,4
EMT45HDR	220–240V 50Hz 1^-	3,97
EMT50HDP	220–240V 50Hz 1^-	4,5
EMT50HDP	200–230V 50Hz / 208–230V 60Hz 1^-	4,5
EMT6144Z	220–240V 50Hz 1^-	5,2
EMT6160Z	220–240V 50Hz 1^-	6,76
EMT6170Z	220–240V 50Hz 1^-	7,69
EMTE6187Z	220–240 / 50 Hz 1^-	9,5
NEK6160Z	220–240V 50Hz 1^-	7,28
NEK6160Z	200–230V 50Hz / 208–230V 60Hz 1^-	7,28
NEK6170Z	220–240V 50Hz 1^-	8,39
NEK6170Z	200–230V 50Hz / 208–230V 60Hz 1^-	8,39
NEK6170Z	100V 50/60Hz 1^-	8,39
NEK6187Z	220–240V 50Hz 1^-	9,99
NEK6187Z	200–230V 50Hz / 208–230V 60Hz 1^-	9,99
NEK6210Z	220–240V 50Hz 1^-	12,11
NEK6210Z	200–230V 50Hz / 208–230V 60Hz 1^-	12,11
NEK6212Z	220–240V 50Hz 1^-	14,28
NEK6212Z	200–230V 50Hz / 208–230V 60Hz 1^-	14,28
NEK6214Z	220–240V 50Hz 1^-	16,8
NT6215Z	220V 50Hz 1^-	17,39
NT6215Z	200–240V 50Hz / 230V 60Hz 1^-	17,39
NT6217Z	220–240V 50Hz 1^-	20,44
NT6217Z	200–240V 50Hz / 230V 60Hz 1^-	20,44
NT6220Z	200–240V 50HZ/230V 60Hz 1^-	22,37
NT6220Z	200–240V 50Hz / 230V 60Hz 1^-	22,37
NTU6222ZV	220–240V 50Hz 1^-	23,74
NTU6224ZV	220–240V 50Hz 1^-	27,8
NJ6220Z	220–240V 50Hz 1^-	26,11
NJ6220ZX	380–420V 50Hz / 440–480V 60Hz 3^-	26,11
NJ6226Z	220–240V 50Hz 1^-	34,38
NJ6226ZX	380–420V 50Hz / 440–480V 60Hz 3^-	34,38

R600a LBP 50Hz

Model	Valtage	Gas Displacement (cm^3)
EMY20CLC	220–240V / 50Hz 1^-	3,97
EMY26CLC	220–240V / 50Hz 1^-	5,2
EMT26CLP	220–240V / 50Hz 1^-	5,2
EMY32CLC	220–240V / 50Hz 1^-	5,96
EMT32CLP	220–240V / 50Hz 1^-	5,96
EMY40CLC	220–240V / 50Hz 1^-	7,23
EMT40CLP	220–240V / 50Hz 1^-	7,23
EMY46CLC	220–240V / 50Hz 1^-	7,96
EMT46CLP	220–240V / 50Hz 1^-	7,96
EMY55CLP	220–240V / 50Hz 1^-	9,04
EMX55CLC	220–240V 50Hz 1^-	9,04
EMT56CLP	220–240V / 50Hz 1^-	9,04
EMX70CLC	220–240V / 50Hz 1^-	11,14
EMX80CLC	220–240V / 50Hz 1^-	12,21

R404A / R507 LBP 50Hz

Model	Valtage	Gas Displacement (cm^3)
EMT2117GK	220–240V / 50Hz 1^-	4,5
EMT2121GK	220–240V / 50Hz 1^-	5,2
EMT2125GK	220–240V / 50Hz 1^-	5,96
EMT2130GK	220–240V / 50Hz 1^-	6,76
NEK2117GK	220–240V 50Hz 1^-	4,52
NEK1121GK	220–240V 50Hz 1^-	5,45
NEK2121GK	220–240V 50Hz 1^-	5,45
NEK1125GK	220–240V 50Hz 1^-	6,2
NEK2125GK	220–240V 50Hz 1^-	6,2
NEK2130GK	220–240V 50Hz 1^-	7,4
NEK2134GK	220–240V 50Hz 1^-	8,78
NEK2134GK	100V 50/60Hz 1^-	8,78
NEK2134GK	100V 50/60Hz 1^-	8,78
NEK2150GK	220–240V 50Hz 1^-	12,12
NEK2150GK	100V 50/60Hz 1^-	12,12
NEK2168GK	220–240V 50Hz 1^-	14,3
NEK2168GK	220–240V 50Hz 1^-	14,3
NEK2172GK	220V 50Hz 1^-	16,8
NT2168GK	200–240V 50Hz / 230V 60Hz 1^-	14,50
NT2168GK	200–240V 50Hz / 230V 60Hz 1^-	14,50
NT2178GK	200–240V 50Hz / 230V 60Hz 1^-	17,40
NT2178GK	200–240V 50Hz / 230V 60Hz 1^-	17,40
NT2178GK	220V 50Hz 1^-	17,40
NT2178GK	220V 50Hz 1^-	17,40
NT2178GK	220–240V 50Hz 1^-	17,40
NT2178GK	220–240V 50Hz 1^-	17,40
NT2178GK	100V 50/60Hz 1^-	17,40
NT2180GK	220–240V 50Hz 1^-	20,40
NT2180GK	220–240V 50Hz 1^-	20,40
NT2180GK	220V 50Hz 1^-	20,40
NT2192GK	220–240V 50Hz 1^-	22,40
NT2192GK	220–240V 50Hz 1^-	22,40
NT2210GK	220–240V 50Hz 1^-	26,2
NT2212GK	220–240V 50Hz 1^-	27,8
NT2168GS	200V 50–60Hz 3^-	14,5
NT2192GS	200V 50–60Hz 3^-	22,4
NT2212GS	200V 50–60Hz 3^-	27,8
NJ2192GK	220–240V 50Hz 1^-	26,11
NJ2192GS	380–420V 50Hz / 440–480V 60Hz 3^-	26,11
NJ2212GK	220–240V 50Hz 1^-	34,37
NJ2212GS	380–420V 50Hz / 440–480V 60Hz 3^-	34,37





Cutters



CT–127



CT–128



CT–174



CT–105

Model	Description	
CT–127	Mini cutter	For ϕ1/8" to 5/8"(3–16mm)
CT–128	Mini cutter	For ϕ1/8" to 7/8"(3–22mm)

Model	Description	
CT–174	Mini cutter	For ϕ1/8" to 1–1/8"(3–28mm)
CT–105	Heavy–Duty Cutter	For ϕ1/8" to 1–1/4"(3–32mm)



CT–G



CT–274



CT–312



CT–107



CT–109



CT–206

Item No.	Description	
CT–G	Heavy–Duty Cutter	For ϕ1/8" to 1–1/8"(3–30mm)
CT–274	Heavy–Duty Cutter	For ϕ1/8" to 1–1/8"(3–28mm)
CT–312	Heavy–Duty Cutter	For ϕ1/4" to 1–5/8"(7–42mm)

Model	Description	
CT–107	Heavy–Duty Cutter	For ϕ1/4" to 2" (5–50mm)
CT–109	Heavy–Duty Cutter	For ϕ5/16" to 1–5/8"(8–42mm)
CT–206	Heavy–Duty Cutter	For ϕ3/8" to 2–5/8"(10–66mm)

Flaring Tools



CT–195A
CT–195M



CT–103



CT–203



CT–525–F



CT–500–A
CT–500–M

Item No.	Description	
CT–195A	45° Flaring Tool	For 3/16"、1/4"、5/16"、3/8"、7/16"、1/2" & 5/8" O.D.
CT–195M	45° Flaring Tool	For 4mm、6mm、8mm、10mm、12mm、14mm & 16mm O.D.
CT–103A	45° Flaring Tool	For 3/4"、7/8"、& 1" O.D.
CT–103M	45° Flaring Tool	For 22mm、25mm & 28mm O.D.
CT–203	45° Flaring Tool	For 5/8"、3/4"、7/8" & 1–1/8" O.D.
CT–525F	Grabber Flaring Tool	For 3/16" to 5/8" & 5mm to 16mm O.D.
CT–500A	Blocks Type Flaring Tool	For 3/16"、1/4"、5/16"、3/8"、1/2" & 5/8" O.D.
CT–500M	Blocks Type Flaring Tool	For 6mm、8mm、10mm、12mm、15mm & 16mm O.D.



CT–94
Swaging Punch
For 1/2",5/8" & 7/8" O.D. Tubing



CT–95
Swaging Punch
For 1/4",5/16",3/8",1/2" & 5/8" O.D. Tubing



CT–96
Swaging Punch
For 1/4",5/16",3/8",1/2",5/8" & 3/4" O.D. Tubing



CT–193
Swaging Punch
For 1/4",5/16",3/8",1/2" & 5/8"
O.D. Tubing

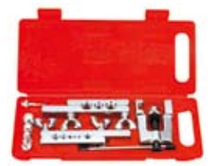
CT–195–SA
Swaging Punch
For 1/4",5/16",3/8",1/2" & 5/8"
O.D. Tubing



45° Flaring & Swaging Tool Kits



CT–275



CT–275L/CT2000AM

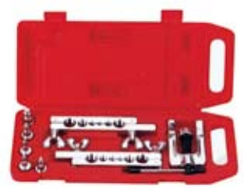


CT–278L

Model	Description	
CT–275	Flares 1/8",3/16",1/4",5/16",3/8",7/16",1/2",5/8" & 3/4" O.D Includes 5 swage adapters that swage 7 tube sizes 3/16",1/4,5/16",3/8",1/2",5/8",3/4" O.D.	
CT–275L/ CT–2000AM	For 3/16",1/4",5/16",3/8",7/16",1/2",5/8", O.D. Includes 6mm,8mm,10mm,12mm,16mm & 19mm O.D.	
CT–278L	Flares 1/8",3/16",1/4",5/16",3/8",7/16",1/2",5/8" & 3/4" O.D Includes 5 swage adapters that swage 7 tube sizes 3/16",1/4,5/16",3/8",1/2",5/8",3/4" O.D.	
	CT–274 Tube Cutter For 1/8"—1–1/8"(3–28mm)	CT–122 Ratchet Wrench For 1/4",3/8",3/16",5/16"



CT–1226–AL/CT–1226–ML



CT–93F



CT–93



CT–96FB

Item No.	Description	
CT–1226–AL	45° Flaring & Swaging Tool Kits	For 3/16", 1/4", 5/16", 3/8",7/16", 1/2", 5/8" O.D. Tubing
CT–1226–ML	45° Flaring & Swaging Tool Kits	For 6mm,8mm,10mm,12mm,16mm ,19mm O.D.
CT–93F	45° Flaring & Swaging Tool Kits	For 1/4",5/16",3/8",1/2",5/8" & 3/4" O.D. Tubing 6mm,8mm,10mm,12mm,16mm & 19mm O.D.
CT–93	45° Flaring & Swaging Tool Kits	For 1/4",5/16",3/8",1/2",5/8" & 3/4" O.D. Tubing 6mm,8mm,10mm,12mm,16mm & 19mm O.D.
CT–96FB	Double Flaring Tool	For 3/16",1/4",5/16",3/8",7/16"",1/2" & 5/8" O.D. Tubing CT–G, Includes 7 double flaring adapters which cover 3/16", 1/4",5/16",3/8",7/16",1/2" & 5/8" In blow–mold carrying case.

Lever Tube Expanding Tool Kit



CT–100A/CT–100M SWAGING/EXPANDING KIT



New CT–100A/CT–100M



Normal CT–100A/CT–100M

Item No.	Description		
CT–100A	New	CT–100A+CT–312+CT–209+CT–207	For inch:3/8", 1/2",5/8",3/4",7/8", 1", 1–1/8" O.D.Tubing. Any 3 sizes of these 6 expander heads are optional:1–1/4",1–3/8",1–1/2",1–5/8",1–3/4" O.D.tubing.
CT–100M	New	CT–100M+CT–312+CT–209+CT–207	For Metric:10,12,16,19,22,25,28mm O.D.Tubing.Any 3 sizes of these 6 expander heads are optionah:32,35,38,42mm O.D.tubing.
CT–100A	Normal	CT–100A+CT–312+CT–208	For inch:3/8", 1/2",5/8",3/4",7/8", 1 ", 1–1/8" O.D.Tubing.
CT–100M	Normal	CT–100M+CT–312+CT–208	For Metric:10,12,16,19,22,25,28mm O.D.Tubing.

Hydraulic Tube Expander Tool Kit



CT–300AL



CT–300A

Model	Description		
CT–300AL	New	CT–300A+CT–312+CT–209+CT–207	For inch:3/8", 1/2",5/8",3/4",7/8", 1", 1–1/8" O.D.Tubing. Any 3 sizes of these 5 expander heads are optional:1–1/4",1–3/8",1–1/2",1–5/8",1–3/4" O.D.tubing.
CT–300ML	New	CT–300M+CT–312+CT–209+CT–207	For Metric:10,12,16,19,22,25,28mm O.D.Tubing.Any 3 sizes of these 5 expander heads are optional:32,35,38,42mm O.D.tubing.
CT–300A	Normal	CT–300A+CT–312+CT–208	For inch:3/8", 1/2",5/8",3/4",7/8", 1 ", 1–1/8" O.D.Tubing.
CT–300M	Normal	CT–300M+CT–312+CT–208	For Metric:10,12,16,19,22,25,28mm O.D.Tubing.

90° Multi Bender Kit





CT–999R





CT–999



Item No.	Description		
CT–999	CT–999+CT–312+CT–209	For inch:1/4",5/16",3/8",1/2",5/8"3/4",7/8"O.D.Tubing	In blow–mold carrying case.
		For Metric:6,8,10,12,16,19,22mm O.D.Tubing	
CT–999R	CT–999L+CT–312+CT–209	For inch:1/4",5/16",3/8",1/2",5/8",3/4",7/8"O.D.Tubing	With special reverse direction bending function. In blow–mold carrying case.
		For Metric:6,8,10,12,16,19,22mm O.D.Tubing	
CT–999F	CT–999+CT–312+CT–209	For inch:3/8",1/2",5/8"3/4",7/8"O.D.Tubing	In blow–mold carrying case.
		For Metric:10,12,16,19,22mm O.D.Tubing	
CT–999RF	CT–999L+CT–312+CT–209	For inch:3/8",1/2",5/8",3/4",7/8",3/4",7/8"O.D.Tubing	With special reverse direction bending function. In blow–mold carrying case.
		For Metric:10,12,16,19,22mm O.D.Tubing	

Lever Type Tube Bender



CT–364–04/05



CT–364–06



CT–364–08



CT–364–10/12/14

Tube Bender 180°				Tube Bender 180°		
Model No.	O.D.Tubing	Radois to center of tube		Model No.	O.D.Tubing	Radois to center of tube
CT–364A–04	1/4"	14.2mm		CT–364M–04	6mm	14.2mm
CT–364A–05	5/16"	17.5mm	Share	CT–364M–05	8mm	17.5mm
CT–364A–06	3/8"	23mm		CT–364M–06	10mm	23mm
CT–364A–08	1/2"	35.8mm		CT–364M–08	12mm	35.8mm
CT–364A–10	5/8"	54.4mm	Share	CT–364M–10	16mm	54.4mm
CT–364A–12	3/4"	75.3mm	Share	CT–364M–12	19mm	75.3mm
CT–364A–14	7/8"	82.1mm	Share	CT–364M–14	22mm	82.1mm

Benders



CT–365A/CT365M



CT–368A–90° /CT368M–90°



CT–368A–180° /CT368M–180°

Model	Description
CT–365–180° –A	For 1/4" & 5/16" size O.D.Tubing
CT–365–180° –M	For 6mm & 8mm size O.D.Tubing
CT–368–90° –A	For 1/4", 5/16" & 3/8" size O.D.Tubing

Model	Description
CT–368–90° –M	For 6mm,8mm & 10mm size O.D.Tubing
CT–368–180° –A	For 1/4", 5/16" & 3/8"size O.D.Tubing
CT–368–180° –M	For 6mm,8mm & 10mm size O.D.Tubing



CT–102–L

CT–102



Bender Spring

Model	Description
CT–102–L	For Inch: 1/4", 5/16" , 3/8", 1/2" & 5/8"size O.D.Tubing
CT–102–04	For Inch: 1/4" O.D.Tubing
CT–102–06	For Inch: 3/8" O.D.Tubing
CT–102–08	For Inch: 1/2" O.D.Tubing
CT–102–10	For Inch: 5/8" O.D.Tubing
CT–102–12	For Inch: 3/4" O.D.Tubing

Other Tools



CT–204



CT–208

Model	Description
CT–204	**Pinch–off Tool,** In extra strong execution to pinch–off suction tubes on all hermetic refrigeration systems up to 3/8"diameter.
CT–208	**Inner–outer Reamer,** Plastic body,3/16"¯1–1/2" O.D.tubing.Reams Both Inside and Outside Edges of Tubing.



CT–351

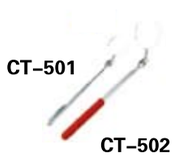


CT–122

Model	Description
CT–351	**Fin Straightener,** For 8",9", 10",12", 14", 15" Spacings per inch.
CT–122	**Ratchet Wrench,**4 Sizes: 1/4", 3/8", 3/16", 5/16" square ratchet.



PTC–01



CT–501

CT–502

Model	Description
PTC–01	**Capillary Tube Cutter,** Cuts all sizes of capillary tubes without collapsing nor swaging the tubes.
CT–501	**Inspector Mirror,** 32mm Mirror O.D., 127mm length closed, 50mm length open, 8mm Dia.
CT–502	**Inspector Mirror,** 50mm Mirror O.D., 200mm length closed, 410mm length open, 10mm Dia.



CT–201



CT–209

Model	Description
CT–201	**7" Pinch off plier,**Pinch of copper tubing up to 5/16"(8mm) onstantly.
CT–209	**Inner–outer Reamer,**Zinc Body, 1/4" – 1–5/8" O.D.tubing.Reams Both Inside and Outside Edges of Tubing.



CT–352



CT–123L

Model	Description
CT–352	**Fin Straightener**, stainless steel Cleaning & straightening evaporator fin.
CT–123L	**Ratchet Wrench**, 4 Sizes: 1/4",3/16" square, 9/16",1/2" hex ratchet.



CT–207



CT–503

Model	Description
CT–207	**Deburrer,** Handy deburrer, Blade can be swivelled.
CT–503	**Pick up Tools,** Length closed:126 mm Length open:637 mm

Hose



CT–336



CT–336–A



CT–336–B



CT–336–C



HQC 3/4–6–ACME
HQC 5/8–18UNF

Model	Description
CT–336	36", 60", 72", brass valve body
CT–336–A	with ball valve
CT–336–B	with ball valve

Model	Description
CT–336–C	with ball valve
HQC 3/4–6–ACME HQC 5/8–18UNF	R134A hose with quick coupler

RB34A Quick Couple



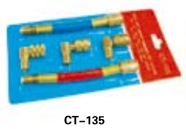
QC–12L QC–12H



QC–12AH QC–12AL



QCZ–12L QCZ–12H



CT–135



CT–138



QC–L Adjustable QC–H Adjustable



QC–LA Adjustable QC–HA Adjustable



QC–LB Adjustable QC–HB Adjustable



CT–1/4M.SAE × 5/16F.SAE

Can tap valve



CH–340
Suitable for any flat or screw type cans , 1/4 SAE outlet connection



CH–338
Design for cans with 12mm*1.25mm thread,1/4 SAE outlet connection



CH–339
Design for cans with 14mm*1.25mm thread,1/4 SAE outlet connection

6

Gauge



HS–BP07



HS–BP03



HS–BP09

Model		Gas	Measuring Range
HS–BP01	HS–BP01L	R12,R22,R502	0–15kgf/cm²
	HS–BP01H		0–35kgf/cm²
HS–BP03	HS–BP03L	R12,R134a	0–15kgf/cm²
	HS–BP03H		0–35kgf/cm²
HS–BP05	HS–BP05L	R12,R134a	0–15kgf/cm²
	HS–BP05H		0–35kgf/cm²
HS–BP07	HS–BP07L	R12,R22,R502	0–15kgf/cm²
	HS–BP07H		0–35kgf/cm²
HS–BP09	HS–BP09L	R410a	0–20kgf/cm²
	HS–BP09H		0–55kgf/cm²

Manifolds



CT–536DGF





R12,R22,R502 Aluminium Manifold Gauge Sets
Aluminium Valve body

Standard Fittings		With filling ball valve	
36”	BM8A–S36G	36”	BM8A–S36G–QF
60”	BM8A–S60G	60”	BM8A–S60G–QF
72”	BM8A–S72G	72”	BM8A–S72G–QF

Brass Valve Body

Standard Fittings		With filling ball valve	
36”	CT–S536FG	36”	CT–S536FG–QF
60”	CT–S560FG	60”	CT–S560FG–QF
72”	CT–S572FG	72”	CT–S572FG–QF

Brass Valve Body

Standard Fittings		With filling ball valve	
36”	CT–S536JG	36”	CT–S536JG–QF
60”	CT–S560JG	60”	CT–S560JG–QF
72”	CT–S572JG	72”	CT–S572JG–QF



CT–536DGF



CT–536BGF

Model	Description
CT–536DGF	With 36" charging hose, shock–proof, brass valve body.
CT–536BGF	With 36" charging hose, brass valve body.

6

R410a Manifold Gauge Sets(1/4" SAE connection)



Aluminium valve body

Standard Fittings		With filling ball valve	
36"	BM8A–S36G–R4	36"	BM8A–S36G–R4QF
60"	BM8A–S60G–R4	60"	BM8A–S60G–R4QF
72"	BM8A–S72G–R4	72"	BM8A–S72G–R4QF



Brass valve body

Standard Fittings		With filling ball valve	
36"	CT–S536FG–R4	36"	CT–S536FG–R4QF
60"	CT–S560FG–R4	60"	CT–S560FG–R4QF
72"	CT–S572FG–R4	72"	CT–S572FG–R4QF



Brass valve body

Standard Fittings		With filling ball valve	
36"	CT–M636G–R4	36"	CT–M636G–R4QF
60"	CT–M660G–R4	60"	CT–M660G–R4QF
72"	CT–M672G–R4	72"	CT–M672G–R4QF



Brass valve body

Standard Fittings		With filling ball valve	
36"	CT–S536FG–R4	36"	CT–S536FG–R4QF
60"	CT–S560FG–R4	60"	CT–S560FG–R4QF
72"	CT–S572FG–R4	72"	CT–S572FG–R4QF

Digital Multimeter



DT830



DT4251–20



DT939



266D



AR320

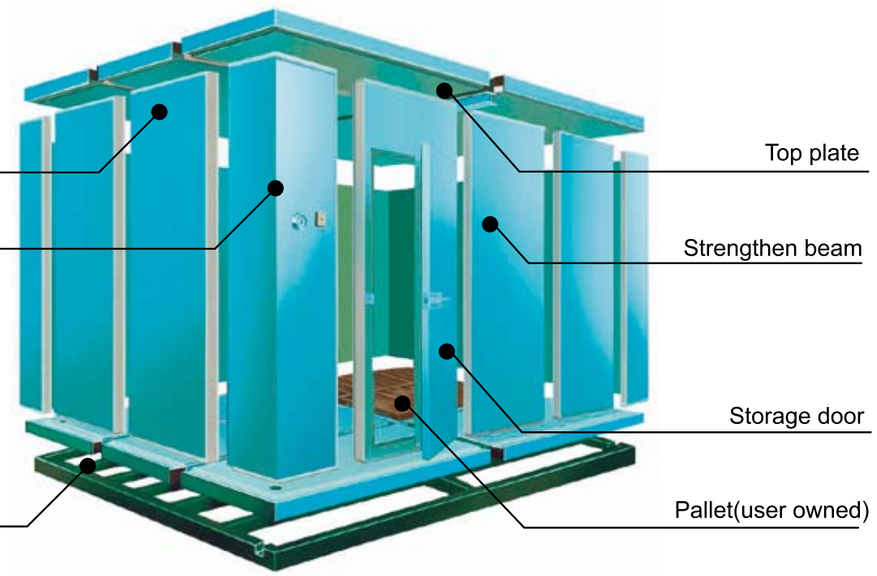
Refrigerant Gas



Model	B.P.(℃)	Critical Pressure,Mpa	Purity,%	Packing	Application
R134A	–26.1	4.05	≧99.9	Can of 220g,250g,280,300g,340g,500g,800g,1000g;disposable cylinder 30lb/13.6kg,50lb/22.7kg;recyclable cylinder 400L.800L,926L,1000L,ISO–Tank.	CFC–12
R290	–42.07	4.24	≧99	Disposable cylinder 5KG;Recyclable cylinder:926L;ISO–TANK	R22
R125	–48.1	3.63	≧99.8	Recyclable cylinder:926L;ISO–TANK	R22,R12,R404A,R407C,R410A,R507,ETC.
R152A	–24	4.52	≧99.8	Recyclable cylinder:926L;ISO–TANK	used as raw material for refrigerants,aerosol,detergent and PVDF
R401A	–34.4	4.61	≧99.8	Disposable cylinder 15lb/6.8kg;30lb/13.6kg;Recyclable cylinder:400L,800L,926L;ISO–TANK	R22
R402A	–49.2	4.23	≧99.8	Disposable cylinder 25lb/11.3kg;Recyclable cylinder:400L,800L,926L;ISO–TANK	R22
R404A	–46.5	3.74	≧99.8	Disposable cylinder 24lb/10.9kg;Recyclable cylinder:400L,800L,926L;ISO–TANK	R502
R406A	–32.7	4.88	≧99.8	Disposable cylinder 30lb/13.6kg;Recyclable cylinder:400L,800L;ISO–TANK	R12
R407C	–43.8	4.63	≧99.8	Disposable cylinder 25lb/11.3kg;Recyclable cylinder:400L,926L;ISO–TANK	R22
R408A	–44.4	4.42	≧99.8	Disposable cylinder 24lb/10.9kg;Recyclable cylinder:400L,800L,926L;ISO–TANK	R22
R409A	–34.5	4.69	≧99.8	Disposable cylinder 30lb/13.6kg;Recyclable cylinder:400L,800L;ISO–TANK	R12
R410	–51.6	4.95	≧99.8	Can of 600g;Disposable cylinder 25lb/11.3kg;Recyclable cylinder:926L;ISO–TANK	R22
R415B	–26.72	4.768	≧99.8	Disposable cylinder 26.5lb/12kg;Recyclable cylinder:400L;ISO–TANK	R12
R417A	–41.8	4.1	≧99.8	Disposable cylinder 25lb/11.3kg;Recyclable cylinder:926L;ISO–TANK	R22
R502	–45.6	4.07	≧99.8	Disposable cylinder 30lb/13.6kg;50lb/22.7KG	R502
R507	–47.1	3.79	≧99.8	Disposable cylinder 25lb/11.3kg;Recyclable cylinder:400L,800L,926L;ISO–TANK	R22,R502
R600A	–11.7	3.64	≧99.5	Disposable cylinder 14.3lb/6.5kg;Recyclable cylinder:100L,926L;ISO–TANK	R12
R11	23.7	4.41	≧99.8	Steel drum 200L;Disposable cylinder 30lb/13.6kg	Refrigerant,foamer
R12	–29.8	4.14	≧99.8	Can of 220g,250g,280,300g,340g,500g,800g,1000g;disposable cylinder 30lb/13.6kg,50lb/22.7kg;recyclable cylinder 400L.800L,926L,1000L,ISO–Tank.	Rfrigerant
R22	–40.8	4.99	≧99.8	Disposable steel cylinder 30lb/13.6kg;50lb/22.7KG;recyclable steel cylinder 400kg/400L,800kg/800L,1000kg/1000L,950kg/926L	Disposable cylinder 30lb/13.6kg;50lb/22.7KG;recyclable cylinder 400L,800L,926L,1000L;ISO–TANK
R141B	32.05	4.25	≧99.8	Steel drum(internal PVF coating)200L;ISO–TANK	R11,R113

Cold Room Panel

According to the function of refrigerator and inside temperature, refrigerator can be divided into fresh–keeping storage, refrigerated storage, low temperature storage and quick frozen storage.



Storage plate holder is foamed under high pressure by polyurethane (PU). Both the metallic surfaces at inner and outer layers can be made of colour coated sheet, embossed aluminium sheet, stainless steel plate and galvanized steel sheet. Polyurethane refrigeration storage is usually a kind of combined refrigeration storage, comprised of polyurethane plates which are combined together by advanced eccentric rotary lock ensuring the strength of refrigeration storage.

Storage plate holder is foamed under high pressure by polyurethane (PU), taking plastic coated plate and the like metallurgy material as surface layer. Polyurethane refrigeration storage is usually a kind of combined refrigeration storage, which is assembled by polyurethane insulation board that might form a shape of different width and height. The width of storage plate is 970–––––1000mm as module. Products of nonstandard size can be customized.



Top and Bottom Plates



Angle Plate



Eccentric Hook



Wall Board

Specification of polyurethane storage plate:

1、length: maximum 12000mm　2、width：960mm、1000mm　　3、height：2000mm–8000mm

4、thickness：50mm、75mm、100mm、120mm、150mm、200mm

Performance parameters of insulating core polyurethane:

Project	Density	Heat conductivity coefficient	Compressing strength	Bending strength	Water absorption	Self–extinguishment
Unit	kg / m3	W / m2.k	KPa	KPa	%(v / v)	Sec
Test value	36–45	0.021	240	270	2.2	⩽ 5

Storage Door Series





1	2
3	4 5 6

1、Manual sliding door
2、Double door
3、Concave–convex magnetic door
4、Return door
5、Free Door
6、Light–duty sliding door









LYJ Series Mono–Blocks For Cold Rooms



The LYJ series of machine, called Mono block, or integrated unit for cold rooms, that integrate evaporator, condenser, compressor, electrical control units into one compact body. It features easy, labor saving in installation, can be widely used for small cooled and cold storage room of Temperature of –5℃～5℃ or – 15℃～–20℃, in hotels, restaurants, medicines, agricultural, chemicals industries all other place where cold storage is needed.

Model code

LYJ XX M Y P

- P: Type: Wall Type, Roof Top Type
- Y: Refrigerant: R404a
- M: Temperature: M: –5～5℃, L: –20～–15℃
- XX: Compressor:TECUMSEH Hermetic (HP)*100
- LYJ: Series name

Model	LYJ33MY	LYJ50MY	LYJ63MY	LYJ100MY	LYJ125MY	LYJ175MY	LYJ200MY	LYJ275MY	LYJ350MY
Cap(W)	530	810	1050	1560	2230	2950	3250	4400	5200
Input(KW)	0.68	0.85	1.1	1.3	1.75	2.52	2.61	3.33	4.2
Power supply	220V/50HZ								380V /50HZ
Tem range(℃)	0¯5								
Cond fan (W)	1×75	1×75	1×75	1×80	1×80	1×155	1×155	2×80	2×80
Evap fan (W)	1×75	1×75	1×75	1×80	1×80	1×155	1×155	2×80	2×80
Defrost type	Electrical heating								
Expansion type	Expansion valve								
Refrigerant	R404A								
WT(kg)	57	60	62	87	90	117	120	150	155

Model	LYJ50LY	LYJ63LY	LYJ100LY	LYJ150LY	LYJ200LY	LYJ300LY	LYJ400LY
Cap(W)	550	660	750	1050	1580	2060	3100
Input(KW)	0.63	0.71	1.04	1.35	2.01	2.63	3.26
Power supply	220V/50HZ					380V /50HZ	
Tem range(℃)	–18¯–20						
Cond fan (W)	1×75	1×75	1×80	1×80	1×155	1×155	2×80
Evap fan (W)	1×75	1×75	1×80	1×80	1×155	1×155	2×80
Defrost type	Electrical heating						
Expansion type	Expansion valve						
Refrigerant	R404A						
WT(kg)	60	62	88	92	123	128	160

Note:the Cap test condition of LYJ× ×MY is: Te/Tambient:–7℃/35℃.
The Cap test condition of LYJ× ×MY is : Te/Tambient:–25℃/35℃.

XJB Series Box Type Condensing Units(With Bitzer Compressor)

Compressor: Bitzer semi–hemetic compressor.
This series products feature box type structure with semi–hermetic compressor, that is compact and pleasant looking, applicable to cold display cases, cold storage rooms, ice producers etc. The applicable temperature ranges are: –5℃¯+5℃ and –20℃¯–15℃. They can be used in hotels, restaurants, medicines, agricutureral, chemicals industries all other place where cold storage is needed.
They can be used in hotels, restaurants, medicines, agricutureral, chemicals industries all other place where cold storage is needed.



Model code

XJB B 05 H A

- A: Fan direction, A: side blowing; B: top blowing
- H: Temperature, H: 5℃¯10℃、M：5℃¯–5℃、L: –10℃¯–18℃
- 05: Compressor input (HP)
- B: Compressor type : Bitzer
- XJB: Series name

MODEL			XJB				
			03MBB	04MBB	05MBB	06MBB	07MBB
Compressor types			2DC3.2	2CC4.2	4FC5.2	4EC6.2	4DC7.2
	Te –5℃	Cap (W)	8620	10590	12260	15050	18350
		Input (W)	3230	3990	4450	5560	6570
	Te –7℃	Cap (W)	6910	8520	9830	12090	14760
		Input (W)	2980	3670	4120	5120	6140
	Te –10℃	Cap (W)	5440	6730	7740	9540	11680
		Input (W)	2720	3330	3760	4650	5650
Room temperature (℃)			–5～5℃				
Refrigerant			R22				
Power supply			380V/3P/50Hz				
Cond fan		Fan number	1	1	2	2	2
		Fan voltage	380	380	380	380	380
		Fan power (W)	250	250	200×2	200×2	200×2
pip		Gas (inch)	ϕ22	ϕ22	ϕ22	ϕ22	ϕ28
		Liquid (inch)	ϕ12	ϕ12	ϕ12	ϕ12	ϕ12
Overall Sizes		L (mm)	935	935	935	1035	1185
		W (mm)	756	856	856	856	856
		H (mm)	717	717	717	917	917
Install sizes (A×B)(mm)			482×726	482×826	482×826	582×826	732×826

Note:design working condition Te/Ta:–7℃/35℃ Suction super heat:10℃

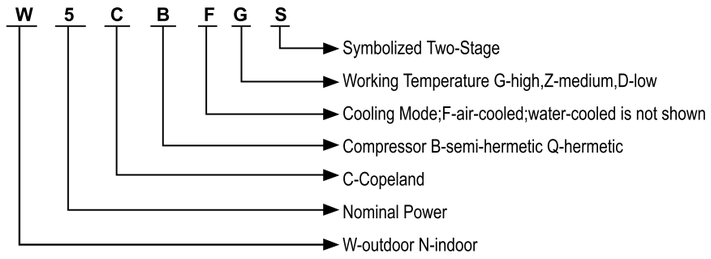
Hermetic Air–Cooled Units



Product Features:

1.Use copeland hermetic refrigerating compressors with good quality, high reliability,low noise and high efficiency.
2.Adopt copper tubes and aluminum fins condensers, efficiency of heat exchange and long service life.

Model Description:



Model of Units			W2CQFZG	W3CQFZG	W5CQFZG	W6CQFZG	W2CQFZG	W3CQFZG	W5CQFZG	W6CQFZG
Applicable Temperature(℃)			+10～－15℃				+10～－15℃			
Refrigerant			R22				R404A			
Power Supply			380V/50HZ				380V/50HZ			
Condenser	Quantity of Fan(pcs)		1	1	2	2	1	1	2	2
	Air Volume(m³/h)		1*3200	1*3200	2*3200	2*3200	1*3200	1*3200	2*3200	2*3200
	Power of Fan(w)		1*60	1*60	2*60	2*60	1*60	1*60	2*60	2*60
Refrigerating Capacity of Compressor Units	Evaporator Temperature +5℃	Cooling Capacity	5850	8220	13050	16200	5880	7910	12250	13400
		Power	1760	2630	4260	5080	1920	3020	5440	6530
	Evaporator Temperature –5℃	Cooling Capacity	4200	5970	9270	11800	3750	4930	8230	10100
		Power	1620	2380	3780	4680	1990	3180	5400	5920
	Evaporator Temperature –12℃	Cooling Capacity	3210	4600	7160	9370	2920	3960	6600	8060
		Power	1560	2250	3400	4230	1950	2980	5040	5570
Coupling	Tube Coupling		3/8"	3/8"	1/2"	1/2"	3/8"	3/8"	1/2"	1/2"
	Suction Coupling		5/8"	5/8"	3/4"	3/4"	5/8"	5/8"	3/4"	3/4"
Over Dimensions	L(mm)		970	970	980	980	970	970	980	980
	W(mm)		410	410	410	410	410	410	410	410
	H(mm)		835	835	1330	1330	835	835	1330	1330
Mounting Dimensions	L(mm)		625	625	625	625	625	625	625	625
	W(mm)		380	380	380	380	380	380	380	380

Ammonia Air Cooler





Various Type of Air Cooler for diversified operating condition

1.TSP Split Mounting Type Air Cooler for Quick Freezer
2.TSD Ceiling Suspended Type Air Cooler for Quick Freezer
3.TLD Ceiling Suspended Type Air Cooler for Cold Storage
4.TGD Ceiling Suspended Type Air Cooler for Preserving
5.TKD Ceiling Suspended Type Air Cooler for Air–Conditioning
6.TLZ Floor Type Air Cooler for Cold Storage
7.TSZ Floor Type Air Cooler for Quick Freezer

TLD Ceiling Suspended Type

Model	Configuration Parameter											
	Area of Cooling	Wind Flow	Wind Pressure	Total Power	Water Defrosting Quantity	Refrigerant Inlet Pipe Diameter	Refrigerant outlet Pipe Diameter	Water pipe Diameter	Water Out Pipe Diameter	Piping Volume	Net weight	Max working weight
	M²	M³/h	Pa	Kw	M³/h	mm	mm	mm		L	Kg	Kg
TLD45–55W–1B816A	55	5900	130	0.37	1.0	ϕ25	ϕ32	1–1/2”	3”	24	189	387
TLD45–70W–1B612A	70	5700	138	0.37	1.3	ϕ25	ϕ32	1–1/2”	3”	24	194	393
TLD50–75W–1B816A	75	7600	136	0.75	1.3	ϕ25	ϕ45	1–1/2”	3”	30	223	447
TLD50–95W–1B612A	95	7500	150	0.75	1.6	ϕ25	ϕ45	1–1/2”	3”	30	230	460
TLD56–100W–1B816A	100	11400	179	1.1	1.7	ϕ32	ϕ45	1–1/2”	3”	41	272	538
TLD56–130W–1B612A	130	11200	192	1.1	2.3	ϕ32	ϕ45	1–1/2”	3”	41	282	553
TLD63–145W–1B816A	145	14500	169	1.5	2.5	ϕ32	ϕ45	1–1/2”	3”	58	360	706
TLD63–190W–1B612A	190	14300	180	1.5	3.3	ϕ32	ϕ45	1–1/2”	3”	58	375	768
TLD80–190W–1B816A	190	22000	170	2.2	3.3	ϕ32	ϕ57	2”	4”	72	452	912
TLD80–240W–1B612A	240	21200	178	2.2	4.2	ϕ32	ϕ57	2”	4”	72	471	946
TLD45–115W–2B816A	115	11800	130	0.74	2.0	ϕ32	ϕ45	1–1/2”	3”	44	323	640
TLD45–115W–2B612A	145	11400	138	0.74	2.6	ϕ32	ϕ45	1–1/2”	3”	44	335	657
TlD50–150W–2B816A	150	15200	136	1.5	2.6	ϕ32	ϕ45	1–1/2”	3”	57	385	754
TLD50–190W–2B612A	190	15000	150	1.5	3.4	ϕ45	ϕ45	1–1/2”	3”	57	400	820
TLD56–200W–2B816A	200	22800	179	2.2	3.5	ϕ45	ϕ76	2”	4”	77	477	964
TLD56–260W–2B612A	260	22400	192	2.2	4.6	ϕ57	ϕ76	2”	4”	77	498	1000
TLD63–295W–2B816A	295	29000	169	3	5.1	ϕ57	ϕ89	2”	5”	112	634	1268
TLD63–385W–2B612A	385	28600	180	3	6.7	ϕ57	ϕ89	2”	5”	112	664	1314
TLD80–375W–2B816A	375	44000	170	4.4	6.6	ϕ57	ϕ108	2”	5”	141	817	1602
TLD80–490W–2B612A	490	42400	178	4.4	8.6	ϕ32	ϕ108	2”	5”	141	856	1677
TLD45–175W–3B816A	175	17700	130	1.1	3.0	ϕ32	ϕ45	1–1/2”	3”	65	458	898
TLD45–225W–3B612A	225	17100	138	1.1	3.9	ϕ45	ϕ45	2”	4”	65	492	965
TLD50–225W–3B816A	225	22800	136	2.3	3.9	ϕ45	ϕ76	2”	4”	83	547	1072
TLD50–290W–3B612A	290	22500	150	2.3	5.1	ϕ45	ϕ76	2”	5”	83	592	1161
TLD56–305W–3B816A	305	34200	179	3.3	5.3	ϕ57	ϕ89	2*2”	2*5”	113	682	1337
TLD56–395W–3B612A	395	33600	192	3.3	6.9	ϕ57	ϕ89	2*2”	2*5”	113	734	1439
TLD63–445W–3B816A	445	43500	169	4.5	7.8	ϕ57	ϕ108	2*2”	2*5”	164	908	1780
TLD63–575W–3B612A	575	42900	180	4.5	10.1	ϕ57	ϕ108	2*2”	2*5”	164	1064	2085

TSD Ceiling Suspended Type

Model	Configuration Parameter											
	Area of Cooling	Wind Flow	Wind Pressure	Total Power	Water Defrosting Quantity	Refrigerant Inlet Pipe Diameter	Refrigerant outlet Pipe Diameter	Water pipe Diameter	Water Out Pipe Diameter	Piping Volume	Net weight	Max working weight
	M^2	M^3/h	Pa	Kw	M^3/h	mm	mm	mm		L	Kg	Kg
TSD45–45W–1B816A	45	5600	139	0.37	1.6	ϕ25	ϕ32	1–1/2"	3"	20	171	350
TSD50–60W–1B816A	60	7500	152	0.75	2.2	ϕ25	ϕ45	1–1/2"	3"	26	204	411
TSD56–85W–1B816A	85	11000	186	1.1	3.0	ϕ32	ϕ45	1–1/2"	3"	35	251	505
TSD64–110W–1B816A	110	13500	180	1.5	3.8	ϕ32	ϕ45	1–1/2"	3"	43	290	581
TSD71–140W–1B816A	140	17000	172	1.5	4.9	ϕ32	ϕ57	1–1/2"	3"	55	359	711
TSD80–175W–1B816A	175	21500	172	2.2	6.2	ϕ32	ϕ57	1–1/2"	3"	69	438	859
TSD45–95W–2B816A	95	11200	137	0.74	3.3	ϕ25	ϕ45	1–1/2"	3"	37	294	603
TSD50–125W–2B816A	125	15000	140	1.5	4.4	ϕ32	ϕ45	1–1/2"	3"	49	353	714
TSD56–180W–2B816A	180	22000	184	2.2	6.2	ϕ32	ϕ57	1–1/2"	3"	67	442	888
TSD64–220W–2B816A	220	27000	178	3	7.7	ϕ45	ϕ76	2"	4"	83	516	1033
TSD71–285W–2B816A	285	34000	171	3	9.9	ϕ57	ϕ89	2"	4"	107	642	1271
TSD80–355W–2B816A	355	43000	171	4.4	12.5	ϕ57	ϕ108	2"	5"	133	793	1554
TSD45–145W–3B816A	145	16800	136	1.11	5.0	ϕ32	ϕ57	2"	4"	54	417	855
TSD50–190W–3B816A	190	22500	149	2.25	6.7	ϕ32	ϕ57	2"	4"	71	503	1017
TSD56–265W–3B816A	265	33000	183	3.3	9.3	ϕ45	ϕ76	2"	2*4"	99	635	1276
TSD64–330W–3B816A	330	40500	177	4.5	11.5	ϕ45	ϕ76	2*2"	2*5"	122	740	1480
TSD71–430W–3B816A	430	51000	170	4.5	14.9	ϕ57	ϕ89	2*2"	2*5"	161	931	1844
TSD80–485W–3B816A	485	60000	213	6.6	16.9	ϕ57	ϕ108	2*2"	2*5"	180	1089	2134

Quick Freezer:



Spiral freezer
Air blowing freezer,space–saving design
Frozen products in individual form or tray alike
Upwards or downwards running spirals as well as
single drum, double–drum or triple–drum available



Plate freezer with condensing units
Used for such as fish, shrimp, seashell, meat, meat–by products and so on packed in bags or trays, and easy to operate, occupy small area.