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TianyiCOOL

■■■■ SPECIALIZE IN REFRIGERATION



青岛科凌制冷设备有限公司
QINGDAO TIANYICOOL CO.,LTD.

2024-2025

I NTRODUCTION



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Tianyicool is one of the excellent manufactures in commercial and industrial refrigeration field, serving over 20 countries worldwide building the its vision of being the first choice in refrigeration.

Our main products are

[Condensing unit](#)

[Air cooled condenser](#)

[Air cooler](#)

[Monoblock unit](#)

As part of tianyicool Worldwide Refrigeration, tianyicool continues to be the country's leading manufacturer and wholesaler catering for the refrigeration trades. Our distribution network covers over 25 branches across China and foreign countries.

We will provide products, processes and services with superior quality and value that meet the needs of our customers and strive for continuous quality improvement so that the reliability of our products, processes and services will be the best in our industry.

Tianyicool continues expanding its product range and provide reliable and cost effective refrigeration products for making people's lives better today and in the future.

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FN SERIES AIR COOLED CONDENSER

FN type, copper pipe :3/8"OD fin space :2.6mm

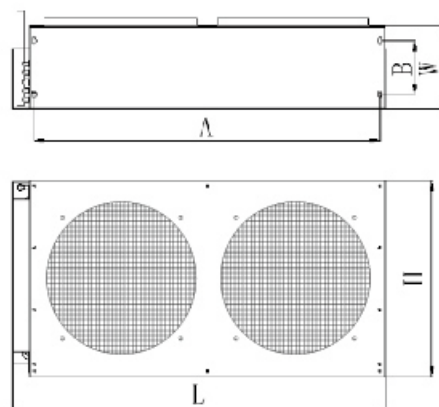
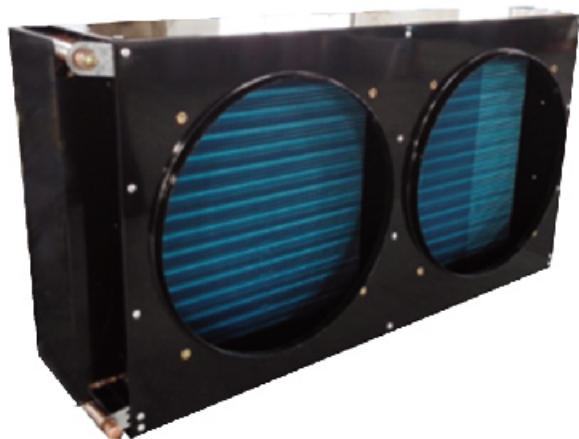
Model	Capacity ($\Delta T=15^{\circ}\text{C}$)		Surface (m^2)	Tube volume (dm^3)	Fan				Connection pipe		Overall(mm)			Install size(mm)	
	kw	hp			Input (w)	OD (mm)	Air flow (m^3/h)	Voltage (v)	Inlet	Outlet	L	W	H	A	B
FN-2	0.98	1/4	2	0.28	1x40	200	500	220	3/8"	3/8"	310	102	231	263	65
FN-3.4	1.46	3/8	3.4	0.47	1x40	200	500	220	3/8"	3/8"	312	102	235	263	65
FN-4.4	2.22	1/2	4.4	0.7	1x60	250	830	220	3/8"	3/8"	362	102	282	313	88
FN-5.4	3.27	3/4	5.4	1.01	1x75	300	940	220	3/8"	3/8"	432	102	341	383	65
FN-7.0	4.4	1	7	1.35	1x80	300	1650	220	1/2"	1/2"	434	130	340	383	90
FN-8.4	5.84	1.2	8.4	1.55	1x150	350	2350	220	5/8"	1/2"	496	130	430	443	95
FN-11.5	7.14	1.5	11.5	1.98	1x150	350	2350	220	5/8"	1/2"	476	180	430	423	145
FN-15	9.25	2	15	2.52	1x150	350	2350	220	5/8"	1/2"	536	180	480	483	145
FN-18	10.8	2.5	18	3.01	1x200	400	3490	220	3/4"	5/8"	578	180	530	523	140
FN-21	10.0	2.85	21	3.60	2x80	300	3300	220	5/8"	1/2"	834	180	430	780	140
FN-22	10.52	3	22	3.76	1x200	400	3490	220	3/4"	5/8"	578	180	530	523	140
FN-25	11.45	3.5	25	4.09	1x200	400	3490	220	3/4"	5/8"	708	180	580	653	150
FN-28	14.38	3.5	28	3.72	2x150	350	4700	220	3/4"	5/8"	900	180	430	830	145
FN-33	18.5	4	33	5.23	2x150	350	4700	220	3/4"	5/8"	900	200	480	830	130
FN-36	21.6	5	36	5.77	2x200	400	6980	380	3/4"	5/8"	1020	180	580	940	150
FN-43	23.5	6	43	6.82	2x200	400	6980	380	7/8"	5/8"	1020	180	680	940	150
FN-48	25.1	6.5	48	7.72	2x200	400	6980	380	7/8"	5/8"	1240	200	630	1160	149
FN-55	28	7.5	55	8.97	2x200	400	6980	380	7/8"	3/4"	1240	200	730	1160	149
FN-70	32.11	10	70	10.29	2x250	450	9800	380	7/8"	5/8"	1245	200	830	1160	149
FN-80	35.32	12	80	12.87	2x250	450	9800	380	1-1/8"	5/8"	1245	200	830	1160	149
FN-100	50.3	13	100	15.82	4x200	400	13960	380	1-1/8"	5/8"	1435	271	1122	1339	170
FN-130	61.87	15	130	19.9	4x200	400	13960	380	1-1/8"	7/8"	1435	271	1122	1339	170
FN-150	65.7	20	150	23.93	4x200	400	13960	380	1-1/8"	7/8"	1560	271	1222	1464	170
FN-180	78.5	25	180	28.82	4x200	400	13960	380	1-1/8"	7/8"	1560	271	1222	1464	170
FN-210	91.5	28	210	31.4	6x200	400	20940	380	1-3/8"	7/8"	1720	271	1222	1624	170

Condensing temperature 40°C , ambient temperature 25°C , $\Delta T=15^{\circ}\text{C}$, R404A

Correction factors:

Refrigerant

R404A	R134A	R22	R407C
1	0.93	0.96	0.87



DZ SERIES AIR COOLED CONDENSER

DZ type, copper pipe :3/8"OD, fin space :2.1mm

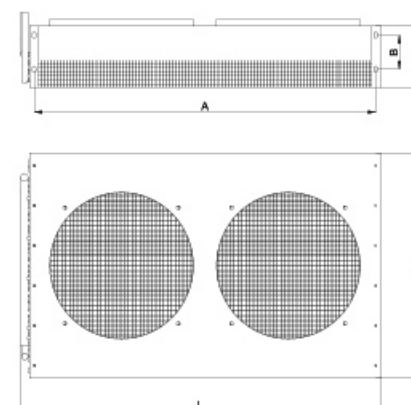
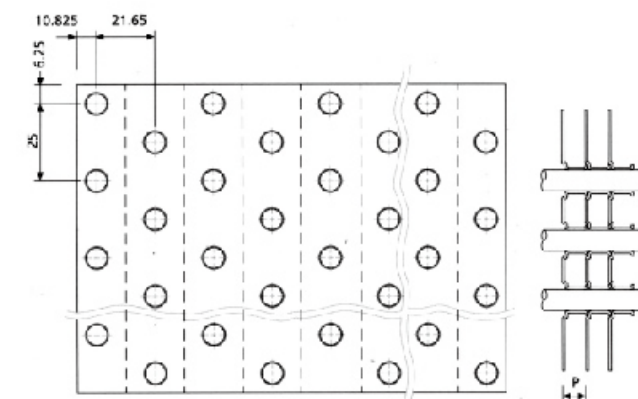
Model	Capacity ($\Delta T=15^{\circ}\text{C}$)		Surface (m^2)	Tube volume (dm^3)	Fan				Connection pipe		Overall(mm)			Install size(mm)	
	kw	hp			Input (w)	OD (mm)	Air flow (m^3/h)	Voltage (v)	Inlet	Outlet	L	W	H	A	B
D8	8.8	2	14.1	2.05	1*150	350	2350	380	5/8"	5/8"	519	155	424	463	77
G8	13	3	19.8	2.73	1*250	450	4700	380	5/8"	5/8"	712	162	524	656	77
K9	17	3.5	27.2	3.77	2*150	350	4900	380	5/8"	5/8"	908	222	424	852	77
Q7	24	5	37.7	5.12	2*250	450	9800	380	1-1/8"	3/4"	1160	222	624	1092	77
Q8	30	7.5	50	6.93	2*250	450	9800	380	1-1/8"	3/4"	1158	222	624	1092	77
T9	36	10	71.2	9.79	2*250	450	9800	380	1-1/8"	3/4"	1155	222	674	1092	146
V6A	52	13	95.9	13.09	2*380	500	13320	380	1-1/8"	7/8"	1294	235	672	1232	146
W9A	65	15	127.7	17.37	2*380	500	13320	380	1-3/8"	7/8"	1594	210	824	1532	146
Z9A	85	25	186.5	25.52	4*380	500	26640	380	1-3/8"	1-1/8"	1600	222	1224	1538	146

Condensing temperature: 40°C , ambient temperature 25°C , $\Delta T=15^{\circ}\text{C}$, R404A

Correction factors:

Refrigerant

R404A	R134A	R22	R407C
1	0.93	0.96	0.87



ACV SERIES AIR COOLED CONDENSER

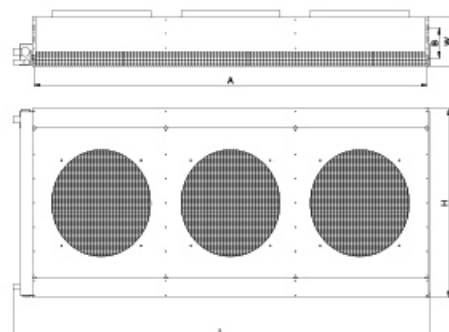
ACV type, copper pipe :3/8"OD, fin space:2.7mm

Model	Capacity ($\Delta T=15^{\circ}\text{C}$)		Surface (m^2)	Tube volume (dm^3)	Fan				Connection pipe		Overall(mm)			Install size(mm)	
					Input (w)	OD (mm)	Air flow (m^3/h)	Voltage (v)	Inlet	Outlet	L	W	H	A	B
	KW	HP													
ACV 2630 A93	93.0	20	138.4	24.2	2*800	630	24300	380	1-5/8"	1-1/8"	2192	342	1173	2038	188
ACV 2630 B104	104.0	25	189.2	30.3	2*800	630	24300	380	1-5/8"	1-1/8"	2192	342	1173	2038	188
ACV 3630 A130	129.3	30	196.6	32.7	3*800	630	36450	380	1-5/8"	1-1/8"	2792	342	1173	2638	188
ACV 3630 B150	150.8	35	277.8	44.4	3*800	630	36450	380	1-5/8"	1-1/8"	2792	342	1323	2638	188

Condensing temperature 40°C , ambient temperature 25°C , $\Delta T=15^{\circ}\text{C}$, R404A

Correction factors:

Refrigerant	R404A	R134A	R22	R407C
	1	0.93	0.96	0.87



FNV SERIES AIR COOLED CONDENSER

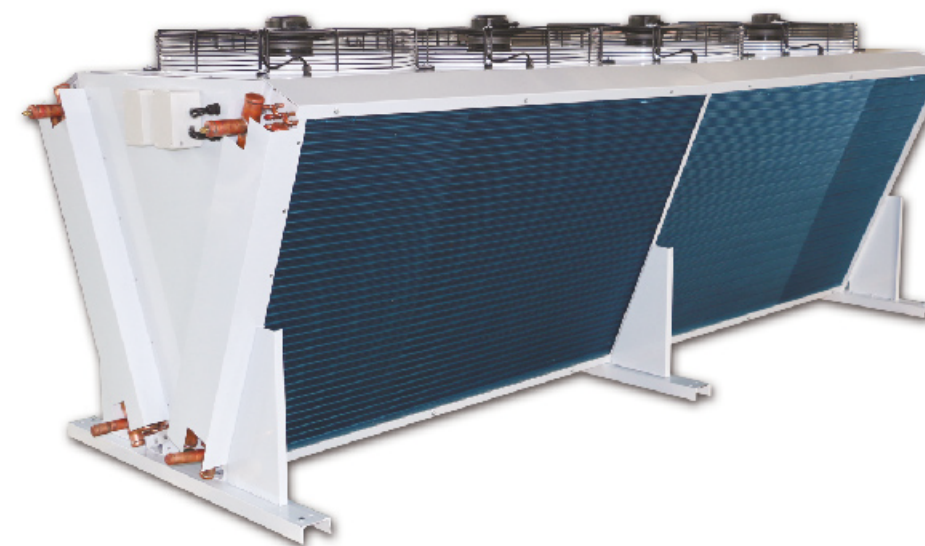
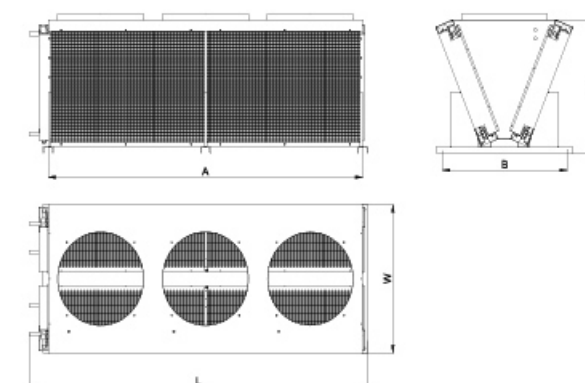
FNV type, copper pipe :3/8"OD, fin space :2.4mm

Model	Capacity ($\Delta T=15^{\circ}\text{C}$)		Surface (m^2)	Tube volume (dm^3)	Fan				Connection pipe		Overall(mm)			Install size(mm)	
					Input (w)	OD (mm)	Air flow (m^3/h)	Voltage (v)	Inlet	Outlet	L	W	H	A	B
	KW	HP													
FNV-140	72.89	20	140	21.2	2x800	630	24300	380	2*7/8"	2*5/8"	1750	1050	940	1564	982
FNV-175	103.50	25	175	28.2	2x800	630	24300	380	2*1-1/8"	2*7/8"	1750	1050	940	1564	982
FNV-195	117.77	25	195	29.6	2x800	630	24300	380	2*1-1/8"	2*7/8"	1820	1050	940	1634	982
FNV-260	146.89	30	260	44.3	3x800	630	36450	380	2*1-1/8"	2*7/8"	2610	1050	940	2424	982
FNV-295	162.33	35	295	44.3	3x800	630	36450	380	2*1-1/8"	2*7/8"	2610	1050	940	2424	982
FNV-365	195.85	40	365	55.4	3x800	630	36450	380	2*1-1/8"	2*7/8"	2610	1050	940	2424	982
FNV-405	223.56	45	405	61.2	4x800	630	48600	380	2*1-3/8"	2*1-1/8"	3185	1130	1032	2994	1032
FNV-505	267.39	50	505	76.5	4x800	630	48600	380	2*1-3/8"	2*1-1/8"	3185	1130	1032	2994	1032

Condensing temperature 40°C , ambient temperature 25°C , $\Delta T=15^{\circ}\text{C}$, R404A

Correction factors:

Refrigerant	R404A	R134A	R22	R407C
	1	0.93	0.96	0.87



TEB SERIES AIR COOLER

★ In accordance to room temperature this range is subdivided into two types:

TEB/M ($\geq -12^{\circ}\text{C}$), with 3.5/7mm dual fin space and electrical defrost heater.

TEB/L ($\geq -25^{\circ}\text{C}$), with 4.5/9mm dual fin space and electrical defrost heater.

★ Fan motor features:

Dia 200mm. single phase 230v/1ph/50/60hz

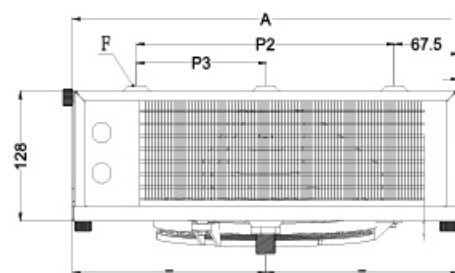
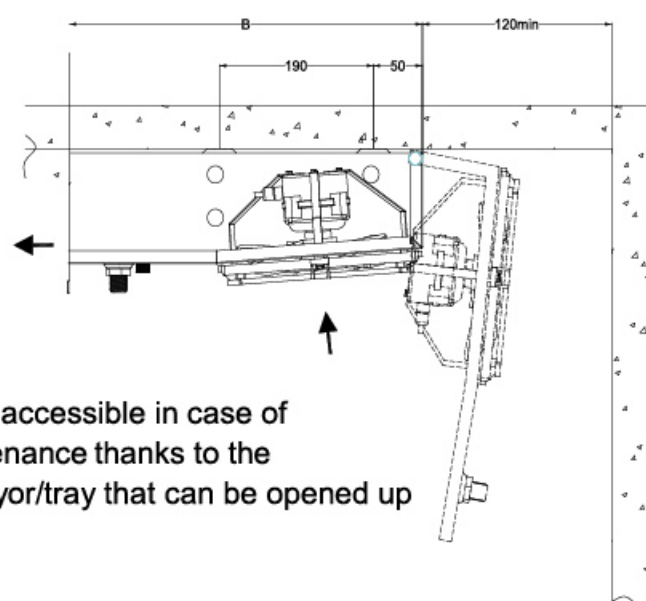
IP42 protection grade

Operating temperature : max $+40^{\circ}\text{C}$

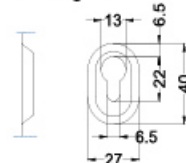
200mm

★ Aluminum casting housing.

Manufacturing features



Fastening detail "F"



Technical features

Fin space: 3.5–7mm

with electrical heater

Model	Capacity(W) R404A T.Room= $+2^{\circ}\text{C}$ $\Delta T=10\text{K}$	Air flow (m^3/h)	Air throw (m)	Surface (m^2)	Tube volume (dm^3)	Fan motor			Electrical defrost (W)	Dimensions (mm)				Connections		
						n $\times\phi$ mm	A	W		P2	P3	A	B	inlet	outlet	drain
TEB104M	406	223	3.0	1.48	0.38	1 $\times$ 200	0.25	43	290	271	—	406	438	3/8"	3/8"	1/2"
TEB106M	595	195	2.5	2.22	0.58	1 $\times$ 200	0.25	43	290	271	—	406	438	3/8"	3/8"	
TEB210M	741	382	3.0	2.42	0.6	2 $\times$ 200	0.5	86	450	471	—	606	438	3/8"	3/8"	
TEB213M	1010	337	2.5	3.63	0.91	2 $\times$ 200	0.5	86	450	471	—	606	438	3/8"	3/8"	
TEB318M	1390	705	3.0	4.77	1.15	3 $\times$ 200	0.75	129	850	971	—	1106	438	1/2"	5/8"	
TEB329M	1910	595	2.5	7.16	1.73	3 $\times$ 200	0.75	129	850	971	—	1106	438	1/2"	5/8"	
TEB438M	2360	784	2.5	9.1	2.19	4 $\times$ 200	1	172	1100	1246	623	1381	438	1/2"	5/8"	

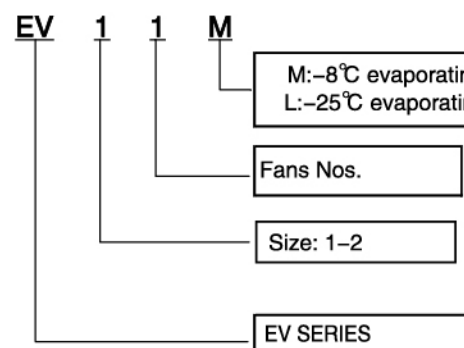
Fin space: 4.5–9mm

with electrical heater

Model	Capacity(W) R404A T.Room= -20°C $\Delta T=10\text{K}$	Air flow (m^3/h)	Air throw (m)	Surface (m^2)	Tube volume (dm^3)	Fan motor			Electrical defrost (W)	Dimensions (mm)				Connections		
						n $\times\phi$ mm	A	W		P2	P3	A	B	inlet	outlet	drain
TEB104L	346	243	3.0	1.18	0.38	1 $\times$ 200	0.25	43	290	271	—	406	438	3/8"	3/8"	1/2"
TEB106L	474	213	2.5	1.78	0.58	1 $\times$ 200	0.25	43	290	271	—	406	438	3/8"	3/8"	
TEB210L	579	426	3.0	1.94	0.6	2 $\times$ 200	0.5	86	450	471	—	606	438	3/8"	3/8"	
TEB213L	707	382	2.5	2.9	0.91	2 $\times$ 200	0.5	86	450	471	—	606	438	3/8"	3/8"	
TEB318L	1110	773	3.0	3.82	1.15	3 $\times$ 200	0.75	129	850	971	—	1106	438	1/2"	5/8"	
TEB329L	1380	684	2.5	5.72	1.73	3 $\times$ 200	0.75	129	850	971	—	1106	438	1/2"	5/8"	
TEB438L	1570	866	2.5	7.28	2.19	4 $\times$ 200	1	172	1100	1246	623	1381	438	1/2"	5/8"	

EV SERIES AIR COOLER

250mm



Fin Space: 4.5mm

with electrical heater

0.49KW 3.06KW

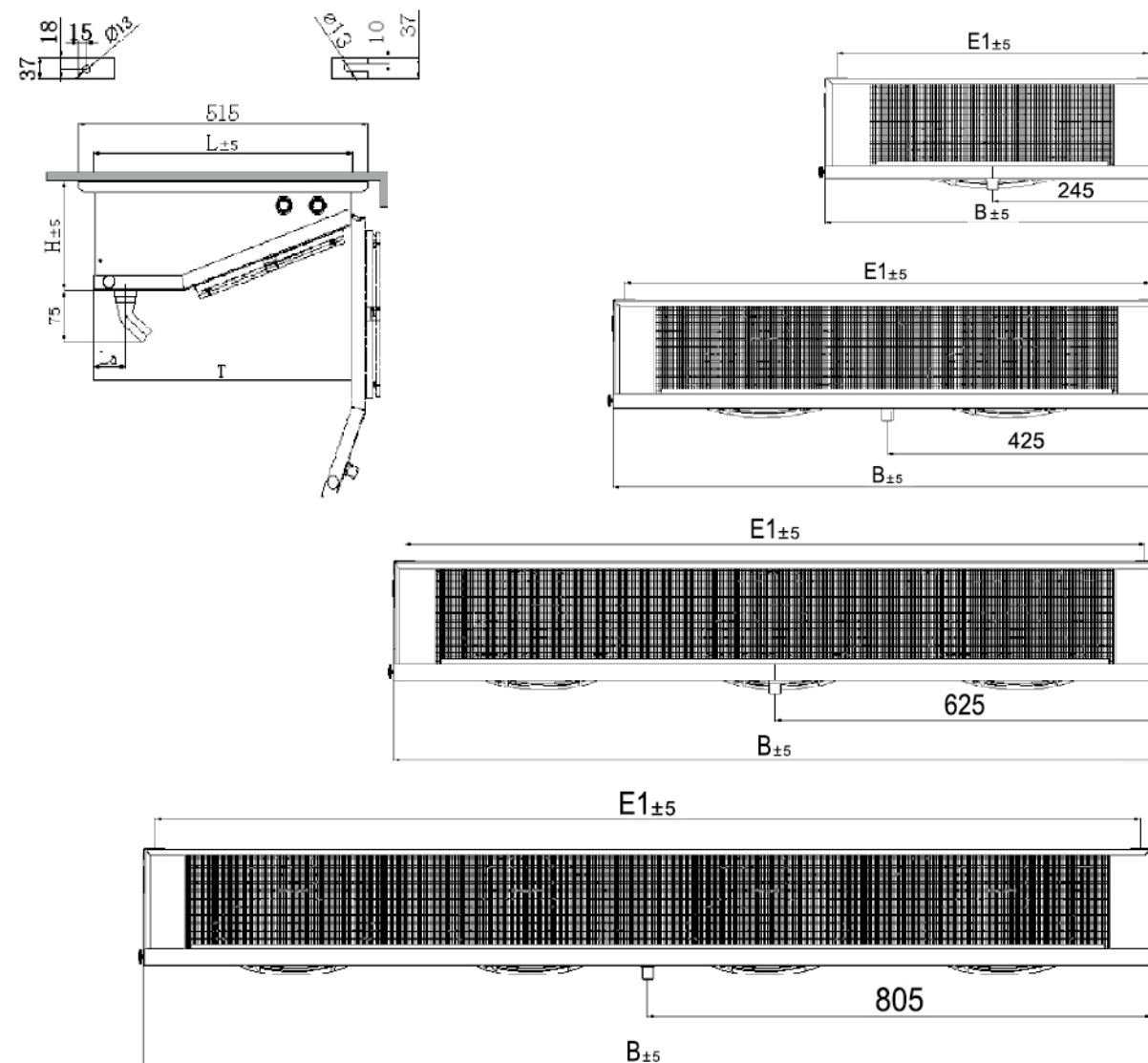
Model	Capacity (W) R404A SC2	Surface (m²)	Airflow (m³/h)	Tube Volume (dm³)	Fan					Connection pipe		Electric defrost heater (W)
	EVAP. TEMP -8℃/8KTD				Quantity	Diameter (mm)	Speed (r/min)	Input power (W)	Power source	Inlet	Outlet	
EV11M	490	2.1	700	0.7	1	250	1300	60	220-240V/50HZ	3/8"	3/8"	290
EV21M	620	3.1	700	1.0	1	250	1300	60	220-240V/50HZ	3/8"	3/8"	290
EV12M	1003	4.2	1400	1.3	2	250	1300	120	220-240V/50HZ	1/2"	1/2"	540
EV22M	1280	6.3	1400	1.9	2	250	1300	120	220-240V/50HZ	1/2"	1/2"	540
EV13M	1570	6.4	2100	1.9	3	250	1300	180	220-240V/50HZ	1/2"	5/8"	800
EV23M	1945	9.6	2100	2.9	3	250	1300	180	220-240V/50HZ	1/2"	5/8"	800
EV14M	2105	8.6	2800	2.6	4	250	1300	240	220-240V/50HZ	1/2"	5/8"	1050
EV24M	2590	12.9	2800	3.9	4	250	1300	240	220-240V/50HZ	1/2"	5/8"	1050
EV34M	3066	17.2	2800	5.1	4	250	1300	240	220-240V/50HZ	1/2"	5/8"	1050

Fin Space: 6mm

with electrical heater

0.36KW 2.3KW

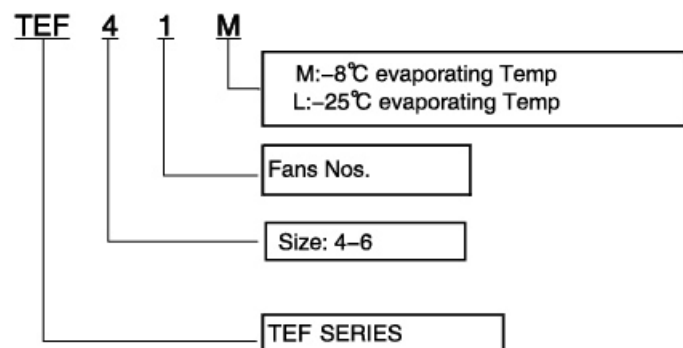
Model	Capacity (W) R404A SC3	Surface (m²)	Airflow (m³/h)	Tube Volume (dm³)	Fan					Connection pipe		Electric defrost heater (W)
	EVAP. TEMP -25℃/7KTD				Quantity	Diameter (mm)	Speed (r/min)	Input power (W)	Power source	Inlet	Outlet	
EV11L	360	1.6	700	0.7	1	250	1300	60	220-240V/50HZ	3/8"	3/8"	290
EV21L	485	2.3	700	1.0	1	250	1300	60	220-240V/50HZ	3/8"	3/8"	290
EV12L	760	3.2	1400	1.3	2	250	1300	120	220-240V/50HZ	1/2"	1/2"	540
EV22L	1008	4.8	1400	1.9	2	250	1300	120	220-240V/50HZ	1/2"	1/2"	540
EV13L	1165	4.8	2100	1.9	3	250	1300	180	220-240V/50HZ	1/2"	5/8"	800
EV23L	1535	7.3	2100	2.9	3	250	1300	180	220-240V/50HZ	1/2"	5/8"	800
EV14L	1562	6.5	2800	2.6	4	250	1300	240	220-240V/50HZ	1/2"	5/8"	1050
EV24L	1966	9.7	2800	3.9	4	250	1300	240	220-240V/50HZ	1/2"	5/8"	1050
EV34L	2308	12.9	2800	5.1	4	250	1300	240	220-240V/50HZ	1/2"	5/8"	1050



Model	Size (mm)						
	H	B	T	L	E1	La	Drain
EV 11M/11L	182	453	459	480	412	65	3/4"
EV 21M/21L	182	453	459	480	412	88	
EV 12M/12L	182	853	459	480	812	65	
EV 22M/22L	182	853	459	480	812	88	
EV 13M/13L	182	1233	459	480	1192	65	
EV 23M/23L	182	1233	459	480	1192	88	
EV 14M/14L	182	1613	459	480	1572	65	
EV 24M/24L	182	1613	459	480	1572	88	
EV 34M/34L	232	1613	459	480	1572	88	

TEF SERIES AIR COOLER

300mm

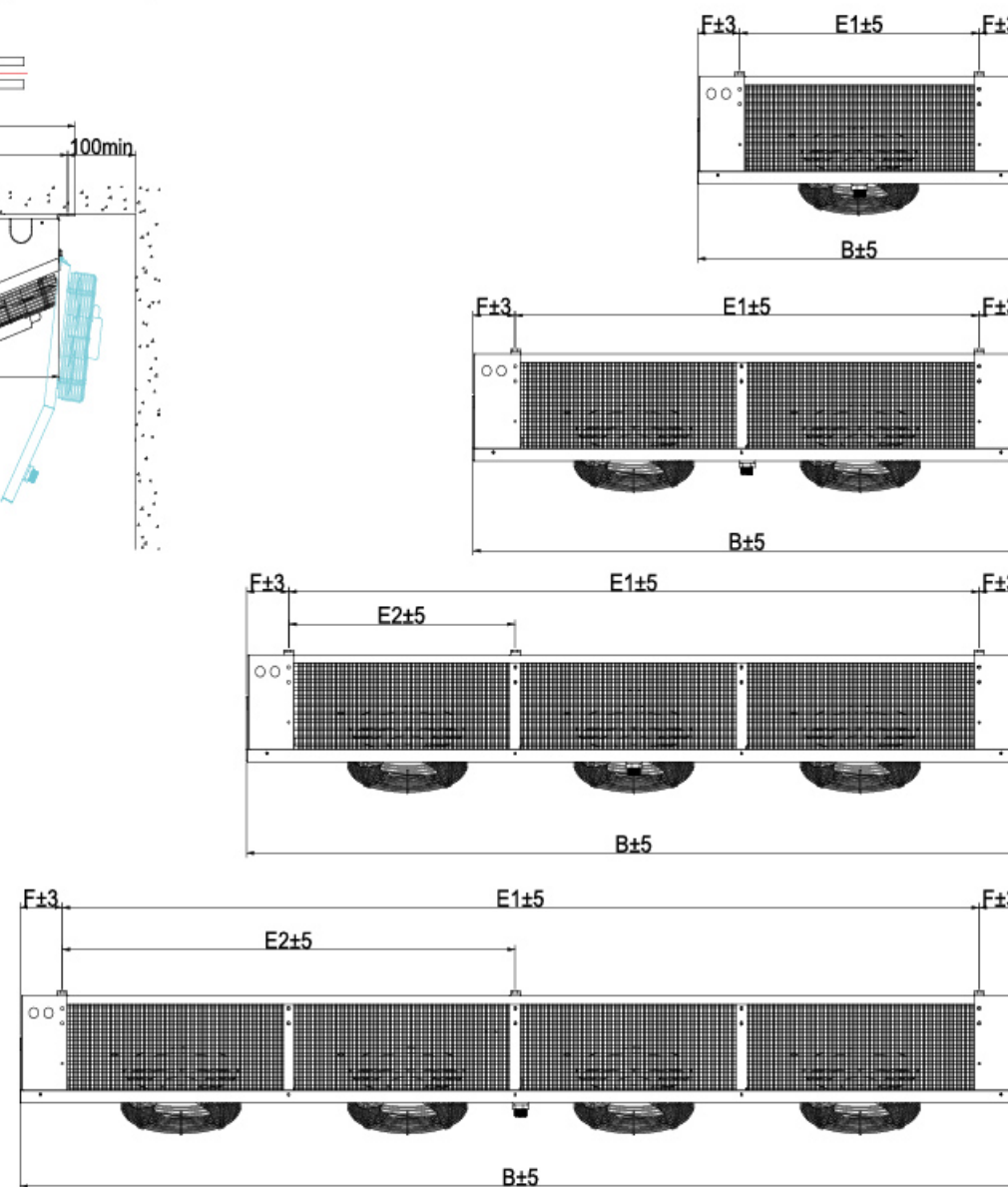
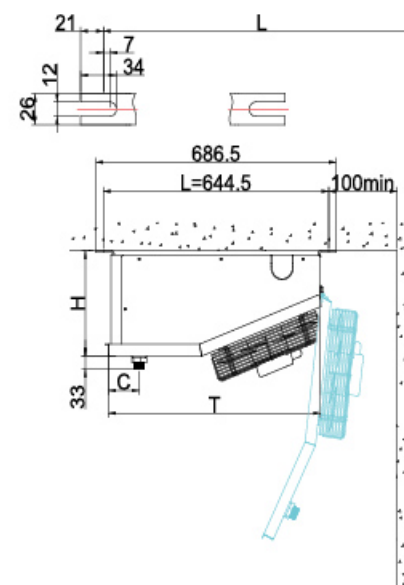


Fin space: 4.5mm with electrical heater 2.14KW 10.12KW

Model	Capacity (KW) R404A SC2	Surface m²	Air flow m³/h	Distance m	Pipe V dm³	Connection		Noise dB(A)	Fan motor					Electrical Defrost KW
	EVAP. TEMP -8℃/8KTD					Inlet	Outlet		Qty x dia mm	Voltage	Speed r/min	Input power W	Current A	
TEF41M	2.14	8.2	1100	9	2	1/2"	1/2"	65	1x300	220V-50HZ	1380	1x90	0.43	1.25
TEF61M	2.73	12.2	1035	9	2.9	1/2"	3/4"	65	1x300	220V-50HZ	1380	1x90	0.43	1.25
TEF42M	4.28	16.4	2200	11	3.6	1/2"	7/8"	68	2x300	220V-50HZ	1380	2x90	0.43	2.2
TEF62M	5.16	24.4	2070	11	5.3	1/2"	7/8"	68	2x300	220V-50HZ	1380	2x90	0.43	2.2
TEF43M	6.42	24.6	3300	12	5.1	1/2"	7/8"	70	3x300	220V-50HZ	1380	3x90	0.43	3.2
TEF63M	7.69	36.6	3105	12	7.7	1/2"	1-1/8"	70	3x300	220V-50HZ	1380	3x90	0.43	3.2
TEF44M	8.56	32.8	4400	16	6.8	1/2"	1-1/8"	71	4x300	220V-50HZ	1380	4x90	0.43	4.18
TEF64M	10.12	48.8	4140	16	10.1	5/8"	1-1/8"	71	4x300	220V-50HZ	1380	4x90	0.43	4.18

Fin space: 7mm with electrical heater 1.45KW 7.00KW

Model	Capacity (KW) R404A SC3	Surface m²	Air flow m³/h	Distance m	Pipe V dm³	Connection		Noise dB(A)	Fan motor					Electrical Defrost KW
	EVAP. TEMP -25℃/7KTD					Inlet	Outlet		Qty x dia mm	Voltage	Speed r/min	Input power W	Current A	
TEF41L	1.45	5.5	1300	9	2	1/2"	1/2"	65	1x300	220V-50HZ	1380	1x90	0.43	1.25
TEF61L	1.95	8.2	1130	9	2.9	1/2"	3/4"	65	1x300	220V-50HZ	1380	1x90	0.43	1.25
TEF42L	2.89	11	2600	11	3.6	1/2"	7/8"	68	2x300	220V-50HZ	1380	2x90	0.43	2.2
TEF62L	3.6	16.4	2260	11	5.3	1/2"	7/8"	68	2x300	220V-50HZ	1380	2x90	0.43	2.2
TEF43L	4.34	16.5	3900	12	5.1	1/2"	7/8"	70	3x300	220V-50HZ	1380	3x90	0.43	3.2
TEF63L	5.35	24.6	3390	12	7.7	1/2"	1-1/8"	70	3x300	220V-50HZ	1380	3x90	0.43	3.2
TEF44L	5.78	22	5200	16	6.8	1/2"	1-1/8"	71	4x300	220V-50HZ	1380	4x90	0.43	4.18
TEF64L	7.00	32.8	4520	16	10.1	5/8"	1-1/8"	71	4x300	220V-50HZ	1380	4x90	0.43	4.18



Model	Size (mm)									Drain
	H	B	T	L	E1	E2	F	C		
TEF41	264	874	607.5	644.5	647	—	113.5	87.5		1"
TEF61	264	874	607.5	644.5	647	—	113.5	120.5		
TEF42	264	1481	607.5	644.5	1254	—	113.5	87.5		
TEF62	264	1481	607.5	644.5	1254	—	113.5	120.5		
TEF43	264	2093	607.5	644.5	1866	612	113.5	87.5		
TEF63	264	2093	607.5	644.5	1866	612	113.5	120.5		
TEF44	264	2705	607.5	644.5	2478	1224	113.5	87.5		
TEF64	264	2705	607.5	644.5	2478	1224	113.5	120.5		

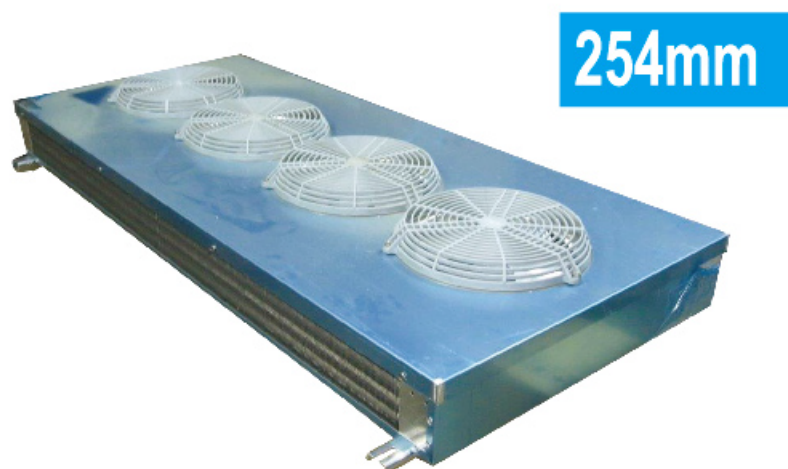
TEM SERIES DUAL DISCHARGE AIR COOLER

The TEM range dual discharge air coolers are suitable for application in reach-in/walk-in cabinets, display cases and small rectangular based cold rooms.

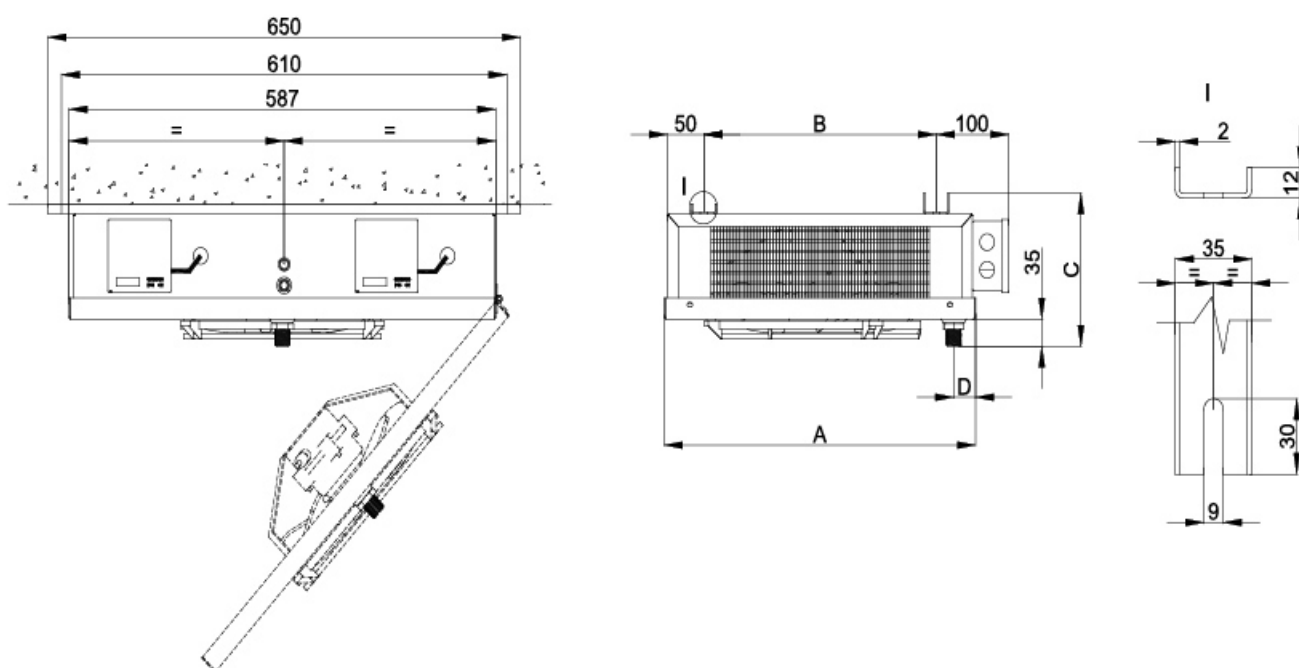
The entire range is equipped with high efficiency coils made from special profile aluminum fins and copper tube, suitable for the new generation refrigerants; with 4,5/9 mm dual fin spacing for the entire range (for room temperature $\geq -25^{\circ}\text{C}$)

The standard fan motors employed have the following features:

- Diameter 254 mm, single-phase 230V/1/50-60Hz and fiberglass charged polyamide fan guard;
- IP42 protection grade;
- Class B insulation;
- Internal thermal contact protection;
- Operating temp. $-35^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- Aluminium casting housing



Manufacturing features

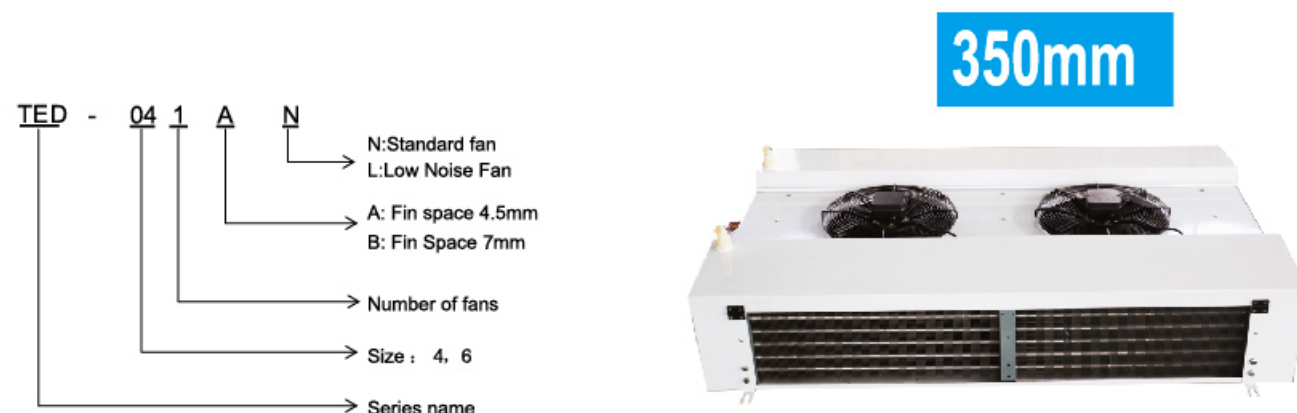


Technical features

Model	TEM	80E	100E	160E	200E	300E	400E	500E
Cooling Capacity (W) T.Room -25°C , $\Delta t=7\text{K}$ SC4		590	660	1170	1330	1990	2660	3330
Air flow	m^3/h	600	520	1200	1040	1560	2080	2600
Air throw	m	2x3.5	2x3	2x3.5	2x3	2x3	2x3	2x3
Total surface	m^2	2.6	3.9	5.2	7.9	11.8	15.7	19.7
Pipe volume	Dm^3	0.7	1	1.4	1.92	3	4	5
Fan motors	n $\times$ $\varnothing$ mm	1x254	1x254	2x254	2x254	3x254	4x254	5x254
Motor power consumption	A	0.5	0.5	1	1	1.5	2	2.5
	W	70	70	140	140	210	280	350
Electrical defrost	W	810	810	1350	1350	1890	2430	2970

Model	TEM	80E	100E	160E	200E	300E	400E	500E
Dimension (mm)	A	430	430	730	730	1030	1330	1630
	B	320	320	620	620	920	1220	1520
	C	172	172	185	185	185	185	185
	D	30	30	30	30	30	35	35
Connections	In(SAE)	1/2	1/2	1/2	1/2	1/2	1/2	1/2
	Out(mm)	12	16	16	16	22	22	22
	Φ (GAS)	1/2	1/2	1/2	1/2	1/2	1	1
Drain	1"							

TED SERIES DUAL DISCHARGE AIR COOLER



Fin space: 4.5MM

with electrical heater

3.69KW 11.32KW

Model	Cooling Capacity (R404a)	Surface	Tube volume	Axial fan (220V/50HZ)								Connection		Electrical Defrost
	Room Temp.=0℃ DT1=8KTD SC2			Air Flow	Distance	Fan Speed	Quantity	Diameter	Noise Level in 3M	Input Power	Current	Liquid	Gas	
	KW			m³/h	M	RPM	PC	MM	dB(A)	W	A	MM	MM	
TED-041AN	3.69	16.3	3.4	1720	2x11	1320	1	350	74	1*140	1*0.65	12.7	22	3.6
TED-041AL	2.66	16.3	3.4	1720	2x8	930	1	350	64	1*80	1*0.4	12.7	22	3.6
TED-061AN	4.33	24.5	5.2	1620	2x9	1320	1	350	74	1*140	1*0.65	12.7	22	3.7
TED-061AL	2.83	24.5	5.2	1620	2x5	930	1	350	64	1*80	1*0.4	12.7	22	3.7
TED-042AN	7.38	32.6	6.8	3440	2x12	1320	2	350	77	2*140	2*0.65	12.7	28	6.5
TED-042AL	5.32	32.6	6.8	3440	2x9	930	2	350	67	2*80	2*0.4	12.7	28	6.5
TED-062AN	8.66	49.1	10.4	3240	2x10	1320	2	350	77	2*140	2*0.65	12.7	28	6.6
TED-062AL	5.66	49.1	10.4	3240	2x6	930	2	350	67	2*80	2*0.4	12.7	28	6.6
TED-043AN	11.10	48.9	10.2	5160	2x13	1320	3	350	79	3*140	3*0.65	12.7	28	9.4
TED-043AL	7.98	48.9	10.2	5160	2x10	930	3	350	69	3*80	3*0.4	12.7	28	9.4
TED-063AN	12.99	73.5	15.6	4860	2x11	1320	3	350	79	3*140	3*0.65	16	35	9.5
TED-063AL	8.49	73.5	15.6	4860	2x7	930	3	350	69	3*80	3*0.4	16	35	9.5
TED-044AN	14.80	65.2	13.6	6880	2x14	1320	4	350	80	4*140	4*0.65	16	35	12.3
TED-044AL	10.60	65.2	13.6	6880	2x11	930	4	350	70	4*80	4*0.4	16	35	12.3
TED-064AN	17.32	98.1	20.8	6480	2x12	1320	4	350	80	4*140	4*0.65	22	35	12.4
TED-064AL	11.32	98.1	20.8	6480	2x8	930	4	350	70	4*80	4*0.4	22	35	12.4

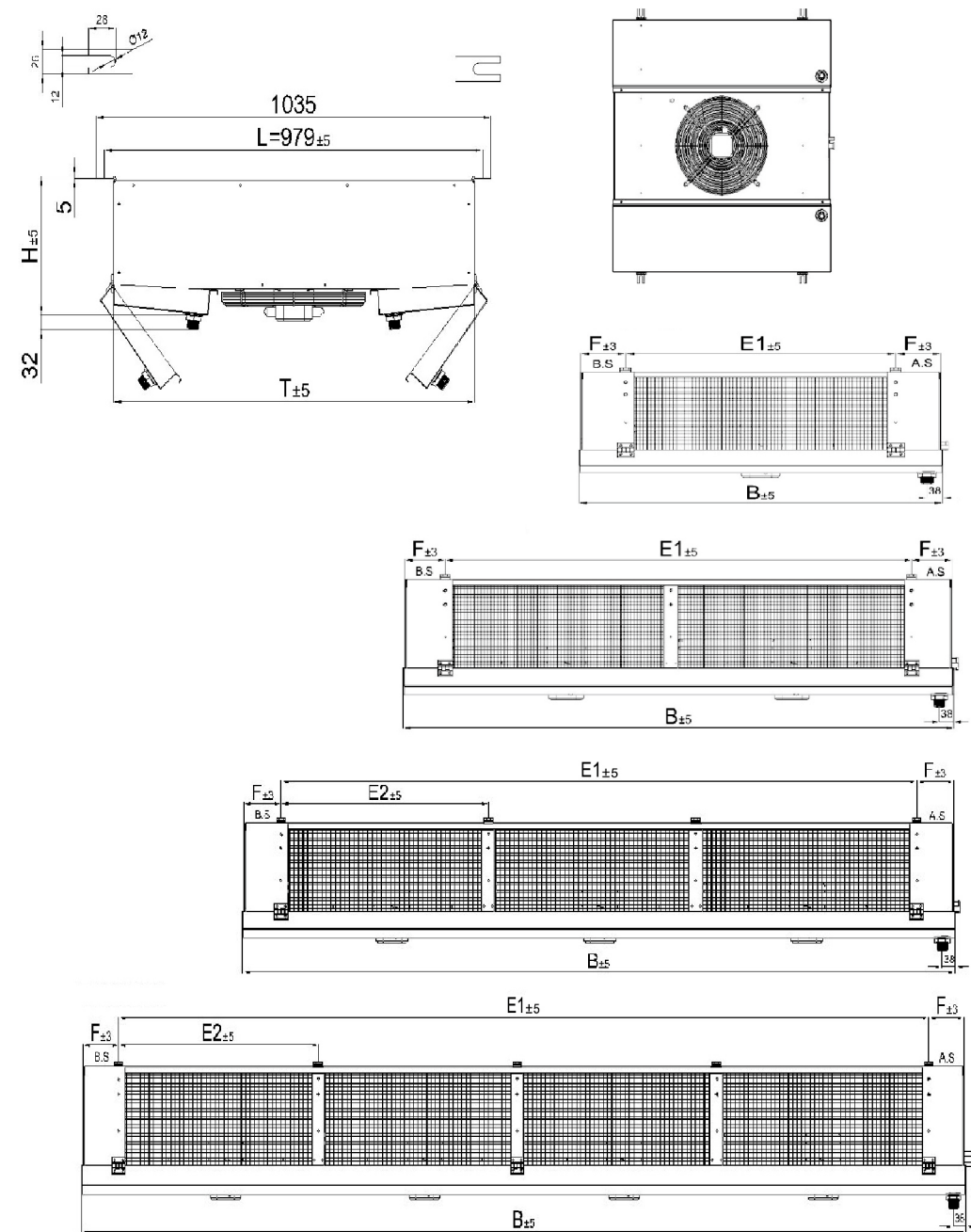
TED DUAL DISCHARGE AIR COOLER

Fin space: 7MM

with electrical heater

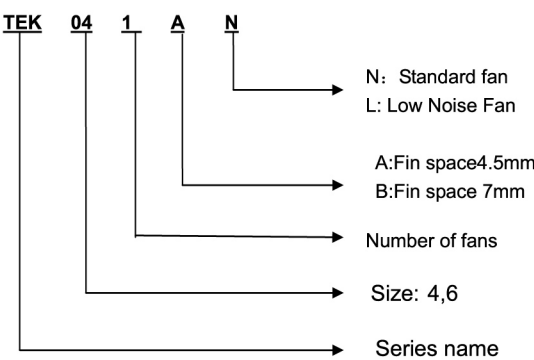
2.36KW 8.73KW

Model	Cooling Capacity (R404a)	Surface	Tube volume	Axial fan (220V/50HZ)								Connection		Electrical Defrost
	Room Temp.= -18℃ DT1=7KTD SC3			Air Flow	Distance	Fan Speed	Quantity	Diameter	Noise Level in 3M	Input Power	Current	Liquid	Gas	
	KW			m³/h	M	RPM	PC	MM	dB(A)	W	A	MM	MM	
TED-041BN	2.36	11	3.4	1850	2x11	1320	1	350	74	1*140	1*0.65	12.7	22	3.6
TED-041BL	1.95	11	3.4	1300	2x8	930	1	350	64	1*140	1*0.4	12.7	22	3.6
TED-061BN	2.95	16.4	5.2	1770	2x9	1320	1	350	74	1*140	1*0.65	12.7	22	3.7
TED-061BL	2.17	16.4	5.2	1140	2x5	930	1	350	64	1*140	1*0.4	12.7	22	3.7
TED-042BN	4.73	22	6.8	3700	2x12	1320	2	350	77	2*140	2*0.65	12.7	28	6.5
TED-042BL	3.81	22	6.8	2600	2x9	930	2	350	67	2*140	2*0.4	12.7	28	6.5
TED-062BN	5.9	32.8	10.4	3540	2x10	1320	2	350	77	2*140	2*0.65	12.7	28	6.6
TED-062BL	4.35	32.8	10.4	2280	2x6	930	2	350	67	2*140	2*0.4	12.7	28	6.6
TED-043BN	7.1	33	10.2	5550	2x13	1320	3	350	79	3*140	3*0.65	12.7	28	9.4
TED-043BL	5.7	33	10.2	3900	2x10	930	3	350	69	3*140	3*0.4	12.7	28	9.4
TED-063BN	8.89	49.2	15.6	5310	2x11	1320	3	350	79	3*140	3*0.65	16	35	9.5
TED-063BL	6.52	49.2	15.6	3420	2x7	930	3	350	69	3*140	3*0.4	16	35	9.5
TED-044BN	9.44	44	13.6	7400	2x14	1320	4	350	80	4*140	4*0.65	16	35	12.3
TED-044BL	7.69	44	13.6	5200	2x11	930	4	350	70	4*140	4*0.4	16	35	12.3
TED-064BN	11.82	65.6	20.8	7080	2x12	1320	4	350	80	4*140	4*0.65	22	35	12.4
TED-064BL	8.73	65.6	20.8	4560	2x8	930	4	350	70	4*140	4*0.4	22	35	12.4



Model	Size (mm)							Drain
	H	B	T	L	E1	E2	F	
TED 041	298	876	947	979	650	-	109	3/4"
TED 061	298	876	947	979	650	-	109	
TED 042	298	1486	947	979	1260	-	109	
TED 062	298	1486	947	979	1260	-	109	
TED 043	298	2096	947	979	1870	610	109	
TED 063	298	2096	947	979	1870	610	109	
TED 044	298	2706	947	979	2480	610	109	
TED 064	298	2706	947	979	2480	610	109	

TEK SERIES DUAL DISCHARGE AIR COOLER



Fin space: 4.5MM

with electrical heater

5.6KW 18.9KW

Model	Cooling Capacity (R404a)	Surface	Tube volume	Axial fan (220V/50HZ)								Connection		Electrical Defrost
	Room Temp. =0℃ DT1=8KTD SC2			Air Flow	Distance	Fan Speed	Quantity	Diameter	Noise Level in 3M	Input Power	Current	Liquid	Gas	
	KW			m³/h	M	r/min	PC	MM	dB(A)	W	A	Inch	Inch	
TEK-041AN	5.6	21.76	4.5	3200	2x14	1320	1	400	74	1*190	1*0.85	15.88	28	5.4
TEK-041AL	3.8	21.76	4.5	1400	2x12	930	1	400	64	1*120	1*0.56	15.88	28	5.4
TEK-061AN	7.5	32.64	6.9	3200	2x12	1320	1	400	74	1*190	1*0.85	15.88	28	5.6
TEK-061AL	4.7	32.64	6.9	1400	2x11	930	1	400	64	1*120	1*0.56	15.88	28	5.6
TEK-042AN	11	43.52	9.1	6400	2x15	1320	2	400	77	2*190	2*0.85	22	35	9.8
TEK-042AL	8	43.52	9.1	2800	2x13	930	2	400	67	2*120	2*0.56	22	35	9.8
TEK-062AN	14.5	65.27	13.9	6400	2x13	1320	2	400	77	2*190	2*0.85	22	35	9.9
TEK-062AL	9.5	65.27	13.9	2800	2x12	930	2	400	67	2*120	2*0.56	22	35	9.9
TEK-043AN	17	65.27	13.6	9400	2x16	1320	3	400	79	3*190	3*0.85	22	35	14.1
TEK-043AL	12.1	65.27	13.6	4200	2x14	930	3	400	69	3*120	3*0.56	22	35	14.1
TEK-063AN	22.5	97.91	20.8	9400	2x14	1320	3	400	79	3*190	3*0.85	22	35	14.3
TEK-063AL	15.4	97.91	20.8	4200	2x13	930	3	400	69	3*120	3*0.56	22	35	14.3
TEK-044AN	23.5	87.03	18.1	12800	2x17	1320	4	400	80	3*190	4*0.85	28	42	18.5
TEK-044AL	15.7	87.03	18.1	5600	2x15	930	4	400	70	4*120	4*0.56	28	42	18.5
TEK-064AN	28.7	130.55	27.7	12800	2x15	1320	4	400	80	4*190	4*0.85	28	42	18.6
TEK-064AL	18.9	130.55	27.7	5600	2x14	930	4	400	70	4*120	4*0.56	28	42	18.6

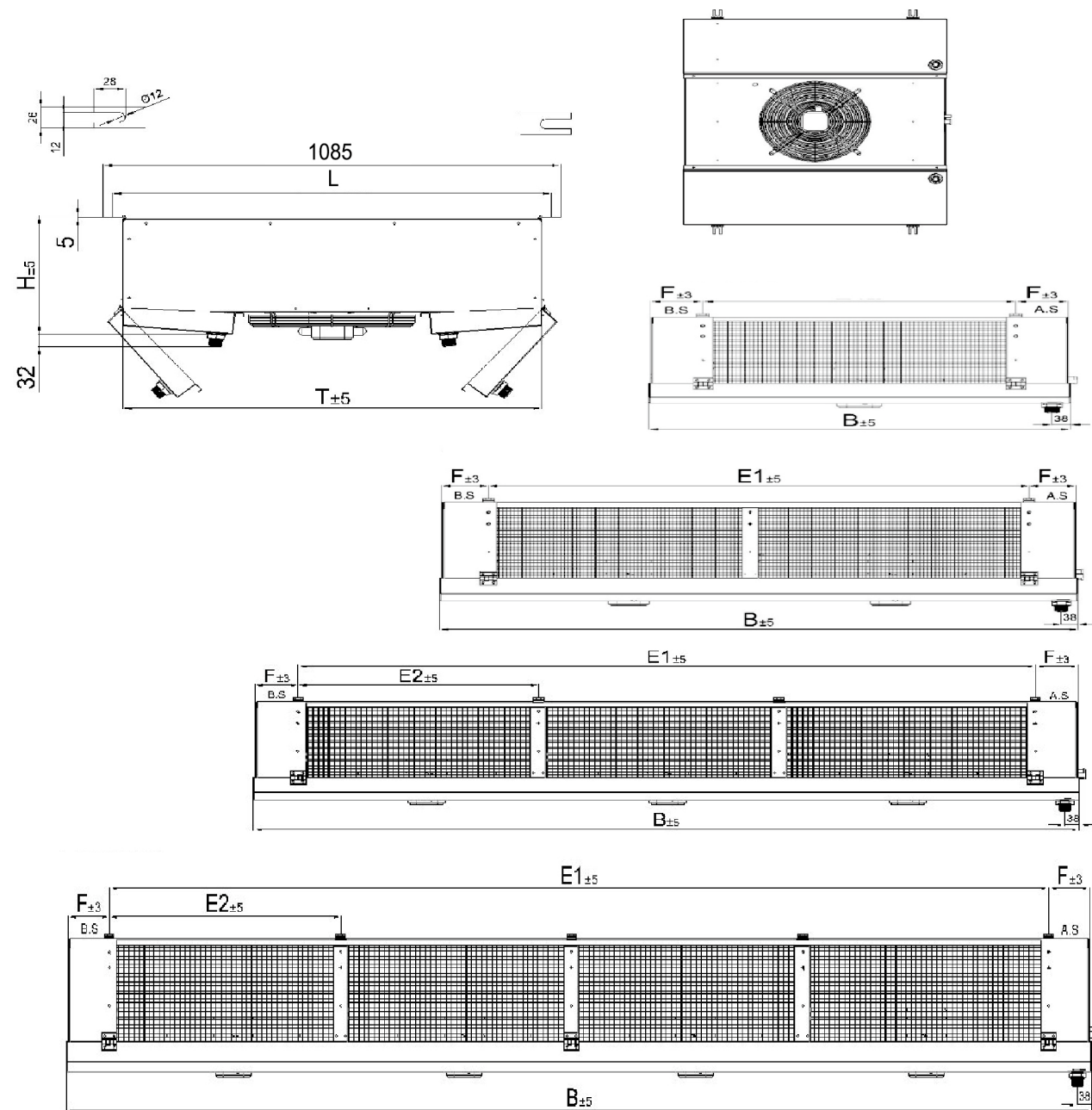
TEK SERIES DUAL DISCHARGE AIR COOLER

Fin space: 7MM

with electrical heater

3.5KW 13.6KW

Model	Cooling Capacity (R404a)	Surface	Tube volume	Axial fan (220V/50HZ)								Connection		Electrical Defrost
	Room Temp.= -18℃ DT1=7KTD SC3			Air Flow	Distance	Fan Speed	Quantity	Diameter	Noise Level in 3M	Input Power	Current	Liquid	Gas	
	KW			㎡	Dm³	m³/h	M	r/min	PC	MM	dB(A)	W	A	
TEK-041BN	3.5	13.99	4.5	3200	2x14	1320	1	400	74	1*190	1*0.85	15.88	28	5.4
TEK-041BL	2.6	13.99	4.5	1400	2x12	930	1	400	64	1*120	1*0.56	15.88	28	5.4
TEK-061BN	6.5	20.98	6.9	3200	2x12	1320	1	400	74	1*190	1*0.85	15.88	28	5.6
TEK-061BL	3.8	20.98	6.9	1400	2x11	930	1	400	64	1*120	1*0.56	15.88	28	5.6
TEK-042BN	7.1	27.97	9.1	6400	2x15	1320	2	400	77	2*190	2*0.85	22	35	9.8
TEK-042BL	5.2	27.97	9.1	2800	2x13	930	2	400	67	2*120	2*0.56	22	35	9.8
TEK-062BN	9.2	41.96	13.9	6400	2x13	1320	2	400	77	2*190	2*0.85	22	35	9.9
TEK-062BL	6.4	41.96	13.9	2800	2x12	930	2	400	67	2*120	2*0.56	22	35	9.9
TEK-043BN	10.6	41.96	13.6	9400	2x16	1320	3	400	79	3*190	3*0.85	22	35	14.1
TEK-043BL	7.7	41.96	13.6	4200	2x14	930	3	400	69	3*120	3*0.56	22	35	14.1
TEK-063BN	14.1	62.94	20.8	9400	2x14	1320	3	400	79	3*190	3*0.85	22	35	14.3
TEK-063BL	9.7	62.94	20.8	4200	2x13	930	3	400	69	3*120	3*0.56	22	35	14.3
TEK-044BN	15.0	55.95	18.1	12800	2x17	1320	4	400	80	3*190	4*0.85	28	42	18.5
TEK-044BL	11.2	55.95	18.1	5600	2x15	930	4	400	70	4*120	4*0.56	28	42	18.5
TEK-064BN	21.5	83.92	27.7	12800	2x15	1320	4	400	80	4*190	4*0.85	28	42	18.6
TEK-064BL	13.6	83.92	27.7	5600	2x14	930	4	400	70	4*120	4*0.56	28	42	18.6



Model	Size (mm)							Drain
	H	B	T	L	E1	E2	F	
TEK 041	374	868	996	1029	650	-	109	3/4"
TEK 061	374	868	996	1029	650	-	109	
TEK 042	374	1478	997	1029	1260	-	109	
TEK 062	374	1478	997	1029	1260	-	109	
TEK 043	374	2096	997	1029	1870	610	109	
TEK 063	374	2096	997	1029	1870	610	109	
TEK 044	374	2706	997	1029	2480	1260	109	
TEK 064	374	2706	997	1029	2480	1260	109	

TEC SERIES DUAL DISCHARGE AIR COOLER

TEC - 1 1 A N

- N: Standard fan
L: Low Noise Fan
- A: Fin space 4.5mm
B: Fin Space 7mm
- Number of fans
- Size :1
- Series name



500mm

Fin space: 4.5MM

with electrical heater

14.59KW 47.89KW

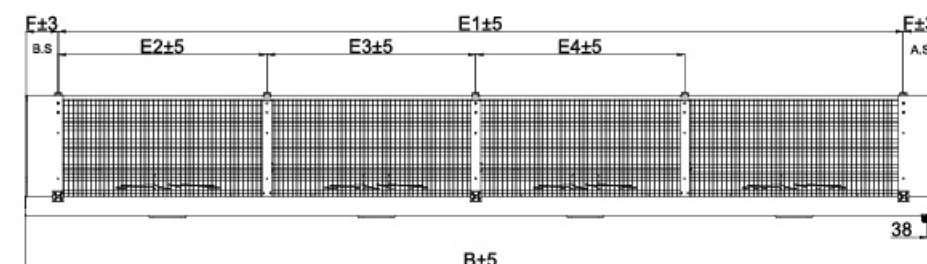
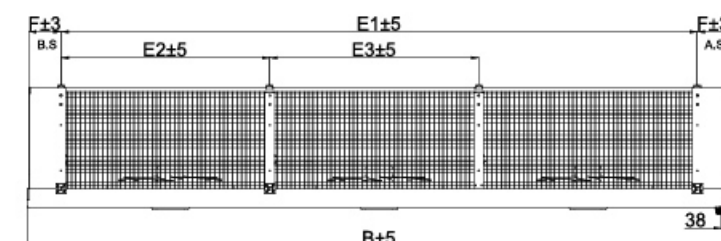
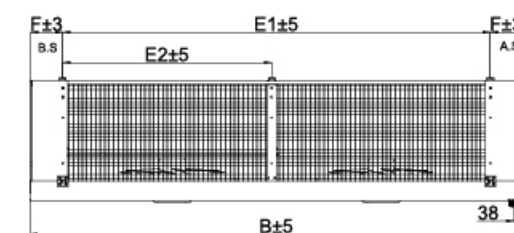
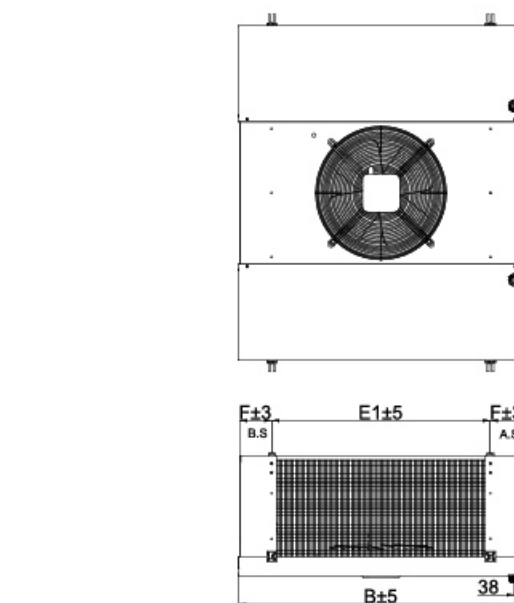
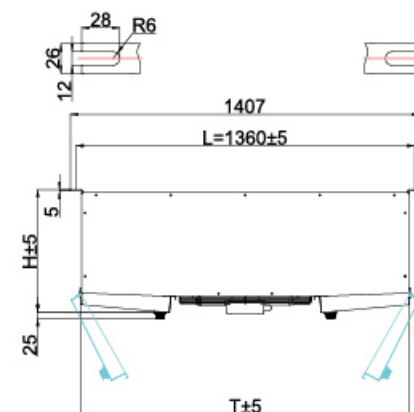
Model	Cooling Capacity (R404a)	Surface	Tube volume	Axial fan (380V/50HZ/3PH)								Connection		Electrical Defrost
	Evap Temp.-8℃ DT1=8KTD SC2			Air Flow	Distance	Fan Speed	Quantity	Diameter	Noise Level in 3M	Input Power	Current	Liquid	Gas	
	KW			m³	Dm³	m³/h	M	RPM	PC	MM	dB(A)	W	A	
TEC-11AN	14.59	89.6	13.8	6100	2x11	1300	1	500	72	450	0.9	7/8"	1-3/8"	6.7
TEC-11AL	11.97	89.6	13.8	4000	2x8	900	1	500	68	230	0.55	7/8"	1-3/8"	6.7
TEC-12AN	29.18	179.2	26.8	12200	2x14	1300	2	500	75	2x450	2x0.9	1-1/8"	1-5/8"	12
TEC-12AL	23.94	179.2	26.8	8000	2x11	900	2	500	71	2x230	2x0.55	1-1/8"	1-5/8"	12
TEC-13AN	43.77	268.8	39.8	18300	2x17	1300	3	500	77	3x450	3x0.9	1-3/8"	2-1/8"	17.3
TEC-13AL	35.91	268.8	39.8	12000	2x14	900	3	500	73	3x230	3x0.55	1-3/8"	2-1/8"	17.3
TEC-14AN	58.36	358.4	52.8	24400	2x20	1300	4	500	78	4x450	4x0.9	1-3/8"	2-1/8"	22.6
TEC-14AL	47.89	358.4	52.8	16000	2x17	900	4	500	74	4x230	4x0.55	1-3/8"	2-1/8"	22.6

Fin space: 7MM

with electrical heater

10.08KW 33.42KW

Model	Cooling Capacity (R404a)	Surface	Tube volume	Axial fan (380V/50HZ/3PH)								Connection		Electrical Defrost
	EvapTemp:-25℃ DT1=7 KTD SC3			Air Flow	Distance	Fan Speed	Quantity	Diameter	Noise Level in 3M	Input Power	Current	Liquid	Gas	
	KW			m²	Dm³	m³/h	M	RPM	PC	MM	dB(A)	W	A	
TEC-11BN	10.08	57.6	13.8	6100	2x12	1300	1	500	72	450	0.9	7/8"	1-3/8"	6.7
TEC-11BL	8.36	57.6	13.8	4000	2x9	900	1	500	68	230	0.55	7/8"	1-3/8"	6.7
TEC-12BN	20.16	115.2	26.8	12200	2x15	1300	2	500	75	2x450	2x0.9	1-1/8"	1-5/8"	12
TEC-12BL	16.71	115.2	26.8	8000	2x12	900	2	500	71	2x230	2x0.55	1-1/8"	1-5/8"	12
TEC-13BN	30.23	172.8	39.8	18300	2x18	1300	3	500	77	3x450	3x0.9	1-3/8"	2-1/8"	17.3
TEC-13BL	25.07	172.8	39.8	12000	2x15	900	3	500	73	3x230	3x0.55	1-3/8"	2-1/8"	17.3
TEC-14BN	40.31	230.4	52.8	24400	2x21	1300	4	500	78	4x450	4x0.9	1-3/8"	2-1/8"	22.6
TEC-14BL	33.42	230.4	52.8	16000	2x18	900	4	500	74	4x230	4x0.55	1-3/8"	2-1/8"	22.6



Model	Size (mm)									Drain
	H	B	T	L	E1	E2	E3	E4	F	
TEC11A/B	508	1146	1319	1360	880	-	-	-	129	1"
TEC12A/B	508	1986	1319	1360	1720	840	-	-	129	
TEC13A/B	508	2826	1319	1360	2560	840	840	-	129	
TEC14A/B	508	3666	1319	1360	3400	840	840	840	129	

TFE SERIES AIR COOLER

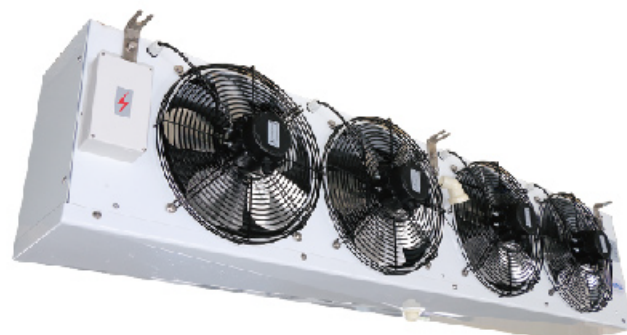
TFE 1 6 3

Size: 3-4

6: 6 fins per inch
4: 4 fins per inch

Fan Qty: 1-7

Series Name: TFE



300mm

Fin Space: 4.23mm (6 fins per inch)

with electrical heater

R404A

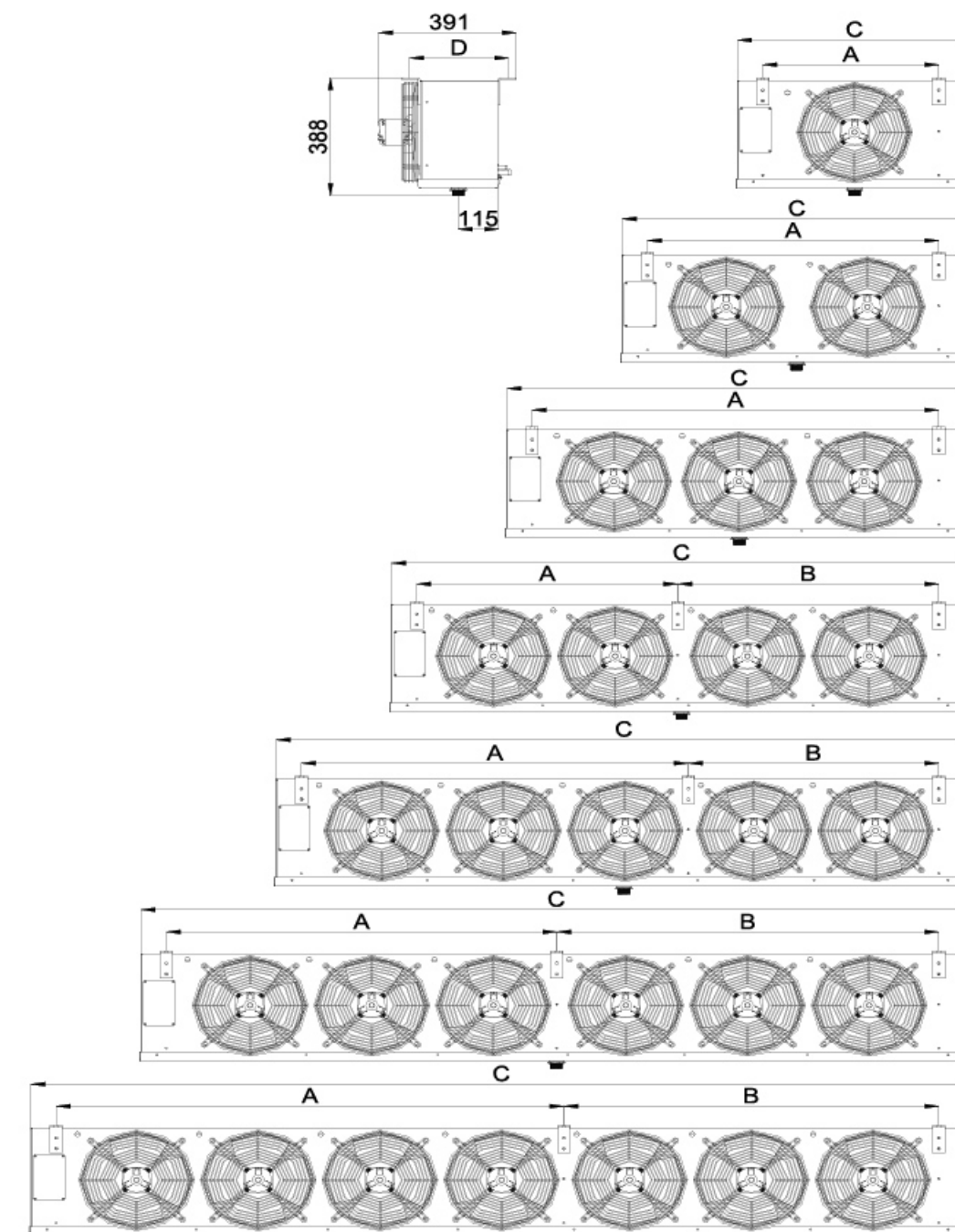
Model	Capacity(W) Evap.Temp:-8℃ DTI=8KTD SC2	Surface (m ²)	Circuit volume (dm ³)	Air flow (m ³ /h)	Fan (230V/1/50HZ)					Connections		Defrost heater	
					OD(mm)	Air throw(m)	Speed(rpm)	Power(W)	Current(A)	Inlet	Outlet	Coil(KW)	Drain pan(KW)
TFE163	1710	5.8	1	1210	300	9	1300	1x34	1x0.83	1/2"	5/8"	1	0.55
TFE164	2048	7.8	1.4	1210	300	9	1300	1x34	1x0.83	1/2"	5/8"	1	0.55
TFE263	2893	10	1.7	2420	300	9	1300	2x34	2x0.83	1/2"	3/4"	1.5	0.8
TFE264	3389	13	2.3	2420	300	9	1300	2x34	2x0.83	1/2"	3/4"	1.5	0.8
TFE363	4310	14	2.4	3630	300	9	1300	3x34	3x0.83	1/2"	7/8"	2	1.1
TFE364	5023	18.6	3.2	3630	300	9	1300	3x34	3x0.83	1/2"	1-1/8"	2	1.1
TFE463	5998	18	3	4840	300	9	1300	4x34	4x0.83	1/2"	1-1/8"	2.6	1.3
TFE464	6910	24	4	4840	300	9	1300	4x34	4x0.83	5/8"	1-1/8"	2.6	1.3
TFE564	9648	29.5	4.9	6050	300	9	1300	5x34	5x0.83	5/8"	1-1/8"	3.1	1.6
TFE664	10487	36	6	7260	300	9	1300	6x34	6x0.83	5/8"	1-1/8"	3.7	1.9
TFE764	12030	41	6.8	8470	300	9	1300	7x34	7x0.83	5/8"	1-1/8"	4.2	2.2

Fin Space: 6.35mm (4 fins per inch)

with electrical heater

R404A

Model	Capacity(W) Evap.Temp:-25℃ DTI=7KTD SC3	Surface (m ²)	Circuit volume (dm ³)	Air flow (m ³ /h)	Fan (230V/1/50HZ)					Connections		Defrost heater	
					OD(mm)	Air throw(m)	Speed(rpm)	Power(W)	Current(A)	Inlet	Outlet	Coil(KW)	Drain pan(KW)
TFE143	1130	3.9	1	1210	300	9	1300	1x34	1x0.83	1/2"	5/8"	1	0.55
TFE144	1380	5.2	1.4	1210	300	9	1300	1x34	1x0.83	1/2"	5/8"	1	0.55
TFE243	2335	6.6	1.7	2420	300	9	1300	2x34	2x0.83	1/2"	3/4"	1.5	0.8
TFE244	2843	8.8	2.3	2420	300	9	1300	2x34	2x0.83	1/2"	3/4"	1.5	0.8
TFE343	3460	9.4	2.4	3630	300	9	1300	3x34	3x0.83	1/2"	7/8"	2	1.1
TFE344	4140	12.5	3.2	3630	300	9	1300	3x34	3x0.83	1/2"	1-1/8"	2	1.1
TFE443	4536	12	3	4840	300	9	1300	4x34	4x0.83	1/2"	1-1/8"	2.6	1.3
TFE444	5003	16	4	4840	300	9	1300	4x34	4x0.83	5/8"	1-1/8"	2.6	1.3
TFE544	6810	18	4.9	6050	300	9	1300	5x34	5x0.83	5/8"	1-1/8"	3.1	1.6
TFE644	7503	24	6	7260	300	9	1300	6x34	6x0.83	5/8"	1-1/8"	3.7	1.9
TFE744	8606	27	6.8	8470	300	9	1300	7x34	7x0.83	5/8"	1-1/8"	4.2	2.2

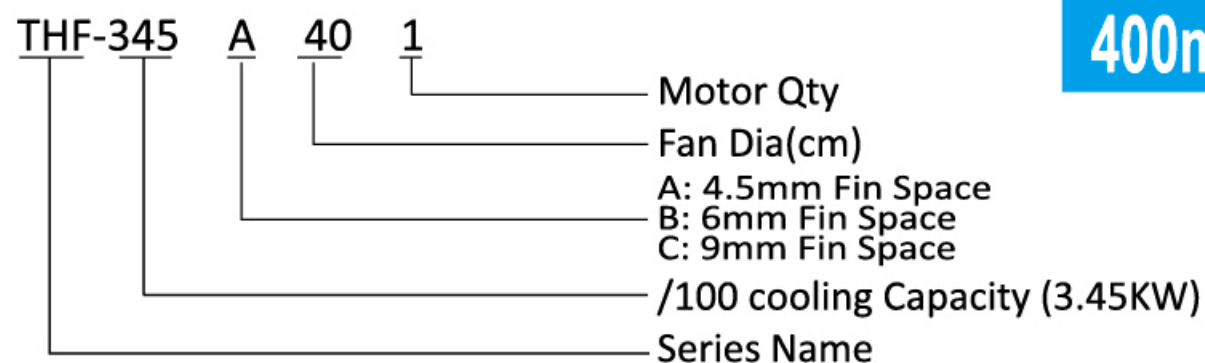


Products size

	Model	A	B	C	D	Drain
1	TFE163/164/143/144	499	—	663	269	1"
2	TFE263/264/243/244	826	—	990	269	
3	TFE363/364/343/344	1153	—	1317	269	
4	TFE463/464/443/444	740	740	1644	269	
5	TFE564/544	1097	710	1971	269	
6	TFE664/644	1107	1083	2354	269	
7	TFE764/744	1439	1063	2666	269	

Option: Axial fan available, contact us for more information.

THF SERIES AIR COOLER



THF series unit air coolers apply high-efficiency inner grooved copper pipes & staggered pattern design, and the diverting technology and advanced fin flanging technology that have been improved through continuous tests ensure that the air cooler has high efficiency, delayed frosting time and stable room temperature. It can greatly improve the heat transfer coefficient of the refrigerant and the heat transfer coefficient in the heat transfer tube, and reduce energy consumption, so improve heat transfer efficiency. Through fluidics and aerodynamics, the airflow organization is optimized, so that the refrigerant is evenly distributed in the evaporator, and the fin coils are frosted evenly.

The design of THF air cooler products meets but is not limited to the national standard requirements for air coolers. It has undergone strict testing and passed the audit in the laboratory of the National Commercial Refrigeration Equipment Quality Inspection and Testing Center.

Motor assembly: Blade dia, $\phi 400\text{mm}$, Power Supply, 380V/50Hz/3Ph or 220V/50Hz

Electrical junction box protection grade: IP54

electric defrost

Air nozzle (optional)

Longer air supply distance

Even air distribution in the cold room



THF SERIES AIR COOLER

Fin Space: 4.5mm

Model	Capacity R404a(KW)	Area M ²	Inner pipe volume Dm ³	Axial Fan								Defrost Heater		Inlet Outlet mm
				Air Flow M ³ /h	Distance M	Qty pc	Diameter mm	Noise Level in 3M dB(A)	Voltage V	Power W	Current A	Coil W	Water Tray W	
THF-345A401	3.45	14	2.53	3100	18	1	400	75	380V/50HZ/3PH	1×180	1x0.91	1120	640	12x16
THF-421A401	4.21	17	3.16	3100	18	1	400	75	380V/50HZ/3PH	1×180	1x0.91	1680	640	12x16
THF-480A401	4.80	20	3.79	3100	18	1	400	75	380V/50HZ/3PH	1×180	1x0.91	1680	640	12x16
THF-678A402	6.78	27	5.03	6200	18	2	400	76	380V/50HZ/3PH	2×180	2x0.91	2000	1040	12x16
THF-843A402	8.43	33	6.29	6200	18	2	400	76	380V/50HZ/3PH	2×180	2x0.91	3000	1040	16x22
THF-968A402	9.68	40	7.55	6200	18	2	400	76	380V/50HZ/3PH	2×180	2x0.91	3000	1040	16x22
THF-1079A403	10.79	40	6.92	9300	18	3	400	77	380V/50HZ/3PH	3×180	3x0.91	2800	1480	16x28
THF-1250A403	12.50	50	8.65	9300	18	3	400	77	380V/50HZ/3PH	3×180	3x0.91	4200	1480	16x28
THF-1462A403	14.62	60	10.37	9300	18	3	400	77	380V/50HZ/3PH	3×180	3x0.91	4200	1480	16x28

Fin Space: 6mm

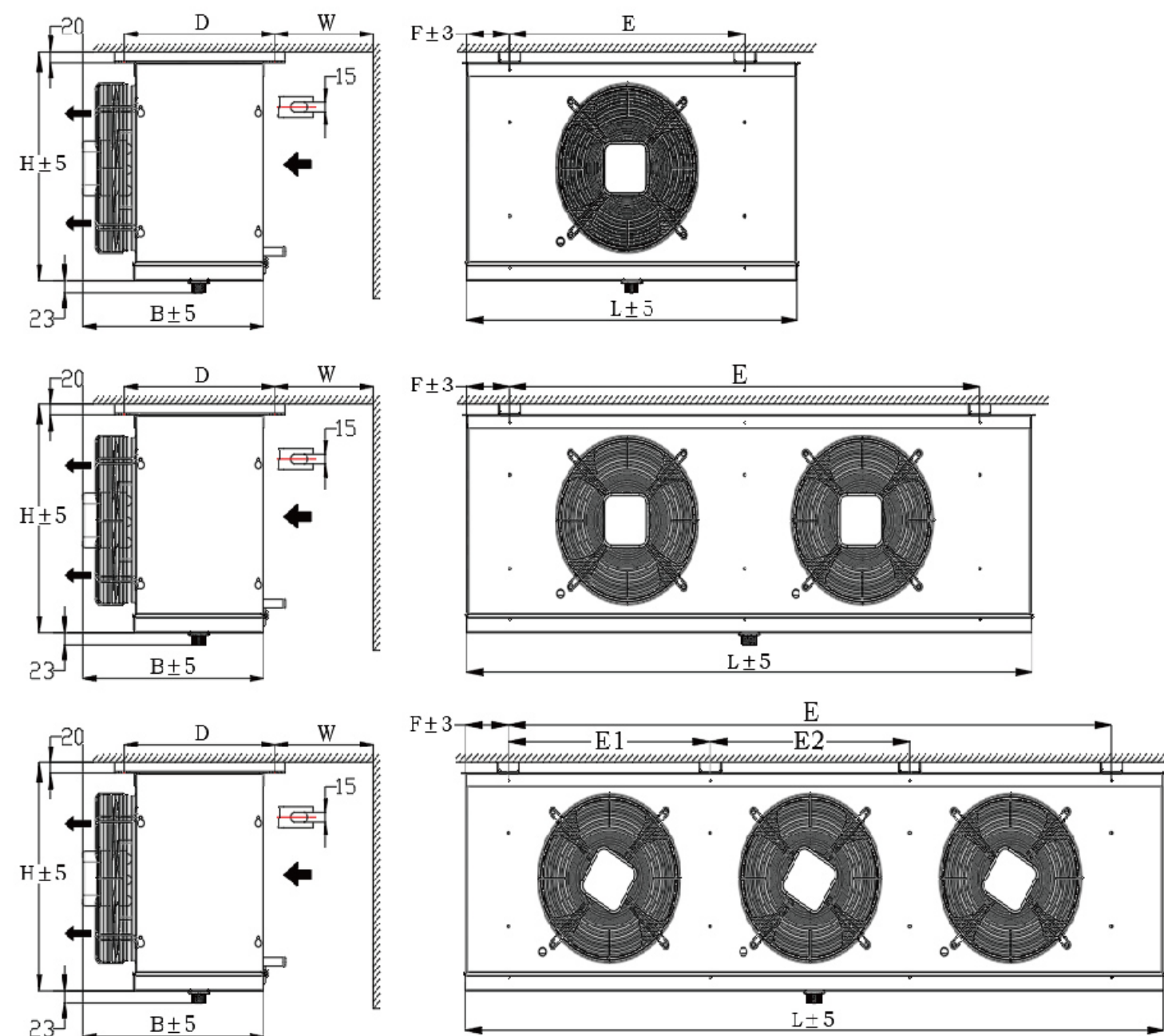
Model	Capacity R404a(KW)	Area M ²	Inner pipe volume Dm ³	Axial Fan								Defrost Heater		Inlet Outlet mm
				Air Flow M ³ /h	Distance M	Qty pc	Diameter mm	Noise Level in 3M dB(A)	Voltage V	Power W	Current A	Coil W	Water Tray W	
THF-207B401	2.07	10	2.53	3100	18	1	400	75	380V/50HZ/3PH	1×180	1x0.91	1120	640	12x16
THF-261B401	2.61	13	3.16	3100	18	1	400	75	380V/50HZ/3PH	1×180	1x0.91	1680	640	12x16
THF-297B401	2.97	15	3.79	3100	18	1	400	75	380V/50HZ/3PH	1×180	1x0.91	1680	640	12x16
THF-405B402	4.05	20	5.03	6200	18	2	400	76	380V/50HZ/3PH	2×180	2x0.91	2000	1040	12x16
THF-513B402	5.13	25	6.29	6200	18	2	400	76	380V/50HZ/3PH	2×180	2x0.91	3000	1040	16x22
THF-594B402	5.94	30	7.55	6200	18	2	400	76	380V/50HZ/3PH	2×180	2x0.91	3000	1040	16x22
THF-666B403	6.66	30	6.92	9300	18	3	400	77	380V/50HZ/3PH	3×180	3x0.91	2800	1480	16x28
THF-744B403	7.74	38	8.65	9300	18	3	400	77	380V/50HZ/3PH	3×180	3x0.91	4200	1480	16x28
THF-918B403	9.18	45	10.37	9300	18	3	400	77	380V/50HZ/3PH	3×180	3x0.91	4200	1480	16x28

Fin Space: 9.0mm

Model	Capacity R404a(KW)	Area M ²	Inner pipe volume Dm ³	Axial Fan								Defrost Heater		Inlet Outlet mm
				Air Flow M ³ /h	Distance M	Qty pc	Diameter mm	Noise Level in 3M dB(A)	Voltage V	Power W	Current A	Coil W	Water Tray W	
THF-121C401	1.21	7	2.53	3100	18	1	400	75	380V/50HZ/3PH	1×180	1x0.91	1120	640	12x16
THF-160C401	1.60	9	3.16	3100	18	1	400	75	380V/50HZ/3PH	1×180	1x0.91	1680	640	12x16
THF-194C401	1.94	10	3.79	3100	18	1	400	75	380V/50HZ/3PH	1×180	1x0.91	1680	640	12x16
THF-281C402	2.81	13	5.03	6200	18	2	400	76	380V/50HZ/3PH	2×180	2x0.91	2000	1040	12x16
THF-319C402	3.19	17	6.29	6200	18	2	400	76	380V/50HZ/3PH	2×180	2x0.91	3000	1040	16x22
THF-390C402	3.90	20	7.55	6200	18	2	400	76	380V/50HZ/3PH	2×180	2x0.91	3000	1040	16x22
THF-423C403	4.23	20	6.92	9300	18	3	400	77	380V/50HZ/3PH	3×180	3x0.91	2800	1480	16x28
THF-519C403	5.19	25	8.65	9300	18	3	400	77	380V/50HZ/3PH	3×180	3x0.91	4200	1480	16x28
THF-588C403	5.88	30	10.37	9300	18	3	400	77	380V/50HZ/3PH	3×180	3x0.91	4200	1480	16x28

THF Air Cooler Overall Size

Model	L	B	H	Install Size mm						Drain
				D	E	E ₁	E ₂	F	W	
THF-345A401	800	515	620	386	570			105	300	G1"
THF-207B401										
THF-121C401										
THF-421A401	800	515	620	386	570			105	300	G1"
THF-261B401										
THF-160C401										
THF-480A401	800	515	620	386	570			105	300	G1"
THF-297B401										
THF-194C401										
THF-678A402	1325	515	620	386	570			105	300	G1"
THF-405B402										
THF-281C402										
THF-843A402	1325	515	620	386	570			105	300	G1"
THF-513B402										
THF-319C402										
THF-968A402	1325	515	620	386	570			105	300	G1"
THF-594B402										
THF-390C402										
THF-1079A403	1860	515	620	386	570	557	542	105	300	G1"
THF-666B403										
THF-423C403										
THF-1250A403	1860	515	620	386	570	557	542	105	300	G1"
THF-744B403										
THF-519C403										
THF-1462AB403	1860	515	620	386	570	557	542	105	300	G1"
THF-918B403										
THF-588C403										



THD SERIES AIR COOLER



THD 4 1 50 7

- Fin space mm
- Fan motor Dia(cm)
- Fan motor Qty
- Size:4-6
- Series name

THD series unit air coolers apply high-efficiency inner grooved copper pipes & staggered pattern design, and the diverting technology and advanced fin flanging technology that have been improved through continuous tests ensure that the air cooler has high efficiency, delayed frosting time and stable room temperature. It can greatly improve the heat transfer coefficient of the refrigerant and the heat transfer coefficient in the heat transfer tube, and reduce energy consumption, so improve heat transfer efficiency. Through fluidics and aerodynamics, the airflow organization is optimized, so that the refrigerant is evenly distributed in the evaporator, and the fin coils are frosted evenly.

The design of THD air cooler products meets but is not limited to the national standard requirements for air coolers. It has undergone strict testing and passed the audit in the laboratory of the National Commercial Refrigeration Equipment Quality Inspection and Testing Center.

THD SERIES AIR COOLER

Low Temp. Technical Data

Fin space:7mm

Model	Capacity W		Internal Volume dm ³	Surface (m ²)	Fan Data (380V/50HZ/3PH)					Heaters (220V/50HZ)
	SC3,R404A	SC4,R404A			Qty×Diam	Air Flow (m ³ /h)	Air Throw (m)	Total Power (w)	Total Current (A)	Total Power (W)
THD41507	6177	4932	9.7	33	1X500	7056	18	620	1.4	6740
THD61507	8338	6738	14.6	49	1X500	6912	18	620	1.4	6740
THD32507	10217	8163	14.3	49	2X500	14256	20	1240	2.8	11220
THD42507	12694	10324	19.1	65	2X500	14112	20	1240	2.8	12820
THD52507	15112	12200	23.9	82	2X500	13968	20	1240	2.8	12820
THD62507	16978	13828	28.6	98	2X500	13824	20	1240	2.8	14420
THD53507	21445	17182	35.6	123	3X500	20952	22	1860	4.2	23630
THD63507	25761	20444	42.7	147	3X500	20772	22	1860	4.2	23630
THD64507	32984	26667	52.4	181	4X500	27684	23	2480	5.6	27310
THD65507	41446	33710	65.4	226	5X500	34596	24	3100	7	33910

1.SC3 Condition:-25℃ evaporating temperature,-18℃ room temperature,7KTD

2.SC4 Condition:-31℃ evaporating temperature,-25℃ room temperature,6KTD

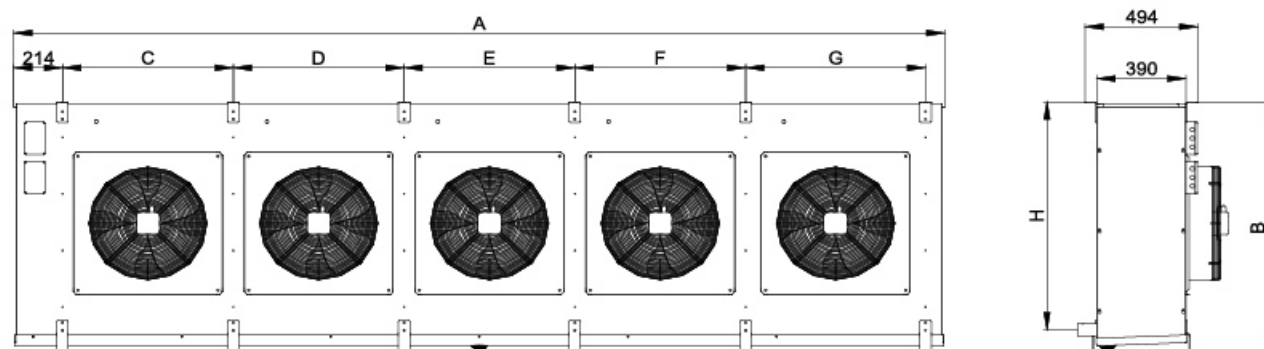
Medium Temp. Technical Data

Fin space:4mm

Model	Capacity W		Internal Volume dm ³	Surface (m ²)	Fan Data (380V/50HZ/3PH)					Heaters (220V/50HZ)
	SC2,R404A				Qty×Diam	Air Flow (m ³ /h)	Air Throw (m)	Total Power (w)	Total Current (A)	Total Power (W)
THD41504	11498		9.7	57	1X500	7056	18	620	1.4	6740
THD61504	14974		14.6	86	1X500	6912	18	620	1.4	6740
THD32504	18775		14.3	86	2X500	14256	20	1240	2.8	11220
THD42504	23160		19.1	114	2X500	14112	20	1240	2.8	12820
THD52504	26927		23.9	143	2X500	13968	20	1240	2.8	12820
THD62504	29497		28.6	172	2X500	13824	20	1240	2.8	14420
THD53504	40174		35.6	215	3X500	20952	22	1860	4.2	23630
THD63504	45432		42.7	258	3X500	20772	22	1860	4.2	23630
THD64504	58885		52.4	316	4X500	27996	23	2480	5.6	27310
THD65504	72160		65.4	395	5X500	34596	23	3100	7	33910

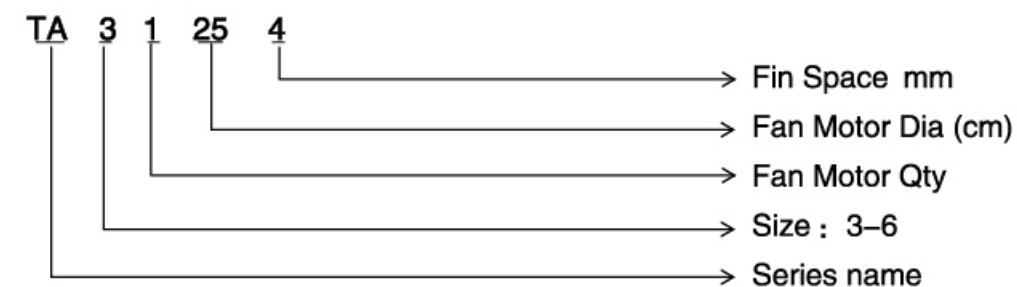
SC2 Condition:-8℃ evaporating temperature,0℃ room temperature,8KTD

THD SERIES AIR COOLER



Model	THD41504	THD61504	THD32504	THD42504	THD52504	THD62504	THD53504	THD63504	THD64504	THD65504
	THD41507	THD61507	THD32507	THD42507	THD52507	THD62507	THD53507	THD63507	THD64507	THD65507
Dimension Amm	1280	1280	2230	2230	2230	2230	3180	3180	3330	4080
B mm	1100	1100	1100	1100	1100	1100	1100	1100	1255	1255
C mm	1000	1000	945	945	945	945	752.5	752.5	750	750
D mm			1005	1005	1005	1005	712.5	712.5	750	750
E mm							712.5	712.5	750	750
F mm							712.5	712.5	790	790
G mm										790
H mm	1100	1100	1100	1100	1100	1100	1100	1100	1255	1255
Suction Connection mm	28.6	28.6	34.9	34.9	34.9	41.3	41.3	41.3	54	54
Liquid Connection mm	12.7	12.7	12.7	12.7	15.9	15.9	15.9	19.1	22.2	22.2
Ext.Equaliser Conn.mm	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3

TA SERIES AIR COOLER



TA efficient unit coolers are suitable for small and medium-sized refrigerators to store fresh and frozen products. The compact and reliable design enables customers to maximize the utilization of storage space and meet customers' ultimate pursuit of temperature.

The heat exchangers use the high efficiency design, 12mm copper tube staggered arrangement, sinusoidal fin of the imported European unit coolers, which are applicable to the new generation refrigerant.

According to the refrigeratory conditions, this series of unit coolers are divided into the following three types:

TA...4 High temperature type (cold room 0℃), fan spacing of 4mm

TA...7 Medium temperature type (cold room -18℃), fan spacing of 7mm

TA...9 Low temperature type (cold room -25℃), fan spacing of 9mm

This series uses fans with the diameters from 250-500mm. The standard fan has the following features, IP45 protection grade, Finsulation grade, built-in thermal protection, operating temperature: -40℃ ~ +40℃.

The product is equipped with transport installation feet to facilitate on-site lifting. We can customize the coil based on customer needs, use other defrosting methods and configure fans of different specifications.

TA SERIES AIR COOLER

Fin space: 4MM

with electrical heater

1.57KW

53.19KW

Model	Cooling Capacity (R404a)	Surface	Tube volume	Axial fan									Connection	
	Room Temp.=0℃ DT1=8KTD SC2			Air Flow	Distance	Fan Speed	Quantity	Diameter	Noise Level in 3M	Voltage	Input Power	Current	Liquid	Gas
	KW			m³/h	M	RPM	PC	MM	dB(A)		W	A	Inch	Inch
TA-31254	1.57	7	1.4	820	4	1350	1	250	63	220V/50HZ	1X55	0.24	3/8"	1/2"
TA-41254	1.86	10	1.9	760	4	1350	1	250	63	220V/50HZ	1X55	0.24	3/8"	1/2"
TA-31304	2.63	11	2.1	1380	6	1350	1	300	70	220V/50HZ	1X90	0.43	3/8"	3/4"
TA-41304	2.85	14	2.8	1300	5	1350	1	300	70	220V/50HZ	1X90	0.43	1/2"	7/8"
TA-41404	5.75	22	4.2	3020	8	1350	1	400	77	220V/50HZ	1X195	0.9	1/2"	1-1/8"
TA-61404	6.49	33	6.3	2720	7	1350	1	400	77	220V/50HZ	1X195	0.9	1/2"	1-1/8"
TA-41504	10.82	39	7.6	5800	17	1350	1	500	83	380V/50HZ/3PH	1X380	0.82	5/8"	1-3/8"
TA-61504	12.45	58	11.1	5270	16	1350	1	500	83	380V/50HZ/3PH	1X380	0.82	5/8"	1-3/8"
TA-42254	3.74	19	3.6	1520	6	1350	2	250	66	220V/50HZ	2X55	0.24	1/2"	7/8"
TA-32304	5.26	22	4.1	2760	8	1350	2	300	73	220V/50HZ	2X90	0.43	1/2"	1-1/8"
TA-42304	5.72	29	5.5	2600	7	1350	2	300	73	220V/50HZ	2X90	0.43	1/2"	1-1/8"
TA-42404	11.31	43	8.2	6040	12	1350	2	400	80	220V/50HZ	2X195	0.9	5/8"	1-3/8"
TA-62404	14.05	65	12.1	5440	11	1350	2	400	80	220V/50HZ	2X195	0.9	5/8"	1-3/8"
TA-42504	20.62	77	14.3	11600	22	1350	2	500	86	380V/50HZ/3PH	2X380	0.82	5/8"	1-3/8"
TA-62504	26.38	116	21.5	10540	21	1350	2	500	86	380V/50HZ/3PH	2X380	0.82	7/8"	1-5/8"
TA-43304	8.92	43	8	3900	10	1350	3	300	75	220V/50HZ	3X90	0.43	5/8"	1-3/8"
TA-43404	17.34	65	12	9060	15	1350	3	400	82	220V/50HZ	3X195	0.9	7/8"	1-5/8"
TA-63404	20.06	98	18	8160	13	1350	3	400	82	220V/50HZ	3X195	0.9	7/8"	1-5/8"
TA-43504	31.73	116	21.3	17400	26	1350	3	500	88	380V/50HZ/3PH	3X380	0.82	7/8"	1-5/8"
TA-63504	39.89	174	32.2	15810	24	1350	3	500	88	380V/50HZ/3PH	3X380	0.82	7/8"	1-5/8"
TA-44304	12.50	60.2	10.6	5200	12	1350	4	300	76	220V/50HZ	4X90	0.43	5/8"	1-3/8"
TA-64404	28.35	130	23.7	10880	16	1350	4	400	83	220V/50HZ	4X195	0.9	7/8"	1-5/8"
TA-44504	44.48	155	28.6	23200	28	1350	4	500	89	380V/50HZ/3PH	4X380	0.82	7/8"	2-1/8"
TA-64504	53.19	232	41	21080	26	1350	4	500	89	380V/50HZ/3PH	4X380	0.82	1-1/8"	2-1/8"

TA SERIES AIR COOLER

Fin space: 7MM

with electrical heater

0.93KW

31.93KW

Model	Cooling Capacity (R404a)	Surface	Tube volume	Axial fan									Connection	
	Room Temp.= -18℃ DT1=7KTD SC3			Air Flow	Distance	Fan Speed	Quantity	Diameter	Noise Level in 3M	Voltage	Input Power	Current	Liquid	Gas
	KW			m³/h	M	RPM		MM	dB(A)		W	A	Inch	Inch
TA-31257	0.93	4	1.4	880	4	1350	1	250	63	220V/50HZ	1X55	0.24	3/8"	1/2"
TA-41257	1.11	6	1.9	850	4	1350	1	250	63	220V/50HZ	1X55	0.24	3/8"	1/2"
TA-31307	1.49	7	2.1	1450	7	1350	1	300	70	220V/50HZ	1X90	0.43	3/8"	3/4"
TA-41307	1.78	9	2.8	1420	6	1350	1	300	70	220V/50HZ	1X90	0.43	1/2"	7/8"
TA-41407	3.48	13	4.2	3320	9	1350	1	400	77	220V/50HZ	1X195	0.9	1/2"	1-1/8"
TA-61407	4.33	20	6.3	3080	8	1350	1	400	77	220V/50HZ	1X195	0.9	1/2"	1-1/8"
TA-41507	6.37	23	7.6	6250	18	1350	1	500	83	380V/50HZ/3PH	1X380	0.82	5/8"	1-3/8"
TA-61507	8.06	35	11.1	5880	17	1350	1	500	83	380V/50HZ/3PH	1X380	0.82	5/8"	1-3/8"
TA-42257	2.22	12	3.6	1700	6	1350	2	250	66	220V/50HZ	2X55	0.24	1/2"	7/8"
TA-32307	2.96	13	4.1	2900	9	1350	2	300	73	220V/50HZ	2X90	0.43	1/2"	1-1/8"
TA-42307	3.57	17	5.5	2840	8	1350	2	300	73	220V/50HZ	2X90	0.43	1/2"	1-1/8"
TA-42407	6.92	26	8.2	6640	13	1350	2	400	80	220V/50HZ	2X195	0.9	5/8"	1-3/8"
TA-62407	8.57	39	12.1	6160	12	1350	2	400	80	220V/50HZ	2X195	0.9	5/8"	1-3/8"
TA-42507	12.43	46	14.3	12500	23	1350	2	500	86	380V/50HZ/3PH	2X380	0.82	5/8"	1-3/8"
TA-62507	16.01	69	21.5	11760	22	1350	2	500	86	380V/50HZ/3PH	2X380	0.82	7/8"	1-5/8"
TA-43307	5.34	26	8	4260	11	1350	3	300	75	220V/50HZ	3X90	0.43	5/8"	1-3/8"
TA-43407	10.49	39	12	9960	16	1350	3	400	82	220V/50HZ	3X195	0.9	7/8"	1-5/8"
TA-63407	12.98	59	18	9240	14	1350	3	400	82	220V/50HZ	3X195	0.9	7/8"	1-5/8"
TA-43507	18.96	69	21.3	18750	27	1350	3	500	88	380V/50HZ/3PH	3X380	0.82	7/8"	1-5/8"
TA-63507	23.83	104	32.2	17640	25	1350	3	500	88	380V/50HZ/3PH	3X380	0.82	7/8"	1-5/8"
TA-44307	7.05	34.3	10.6	5200	13	1350	4	300	76	220V/50HZ	4X90	0.43	5/8"	1-3/8"
TA-64407	17.21	78	23.7	12320	17	1350	4	400	83	220V/50HZ	4X195	0.9	7/8"	1-5/8"
TA-44507	24.96	93	28.6	25000	30	1350	4	500	89	380V/50HZ/3PH	4X380	0.82	7/8"	2-1/8"
TA-64507	31.93	139	41	23520	28	1350	4	500	89	380V/50HZ/3PH	4X380	0.82	1-1/8"	2-1/8"

TA SERIES AIR COOLER

Fin space: 9MM

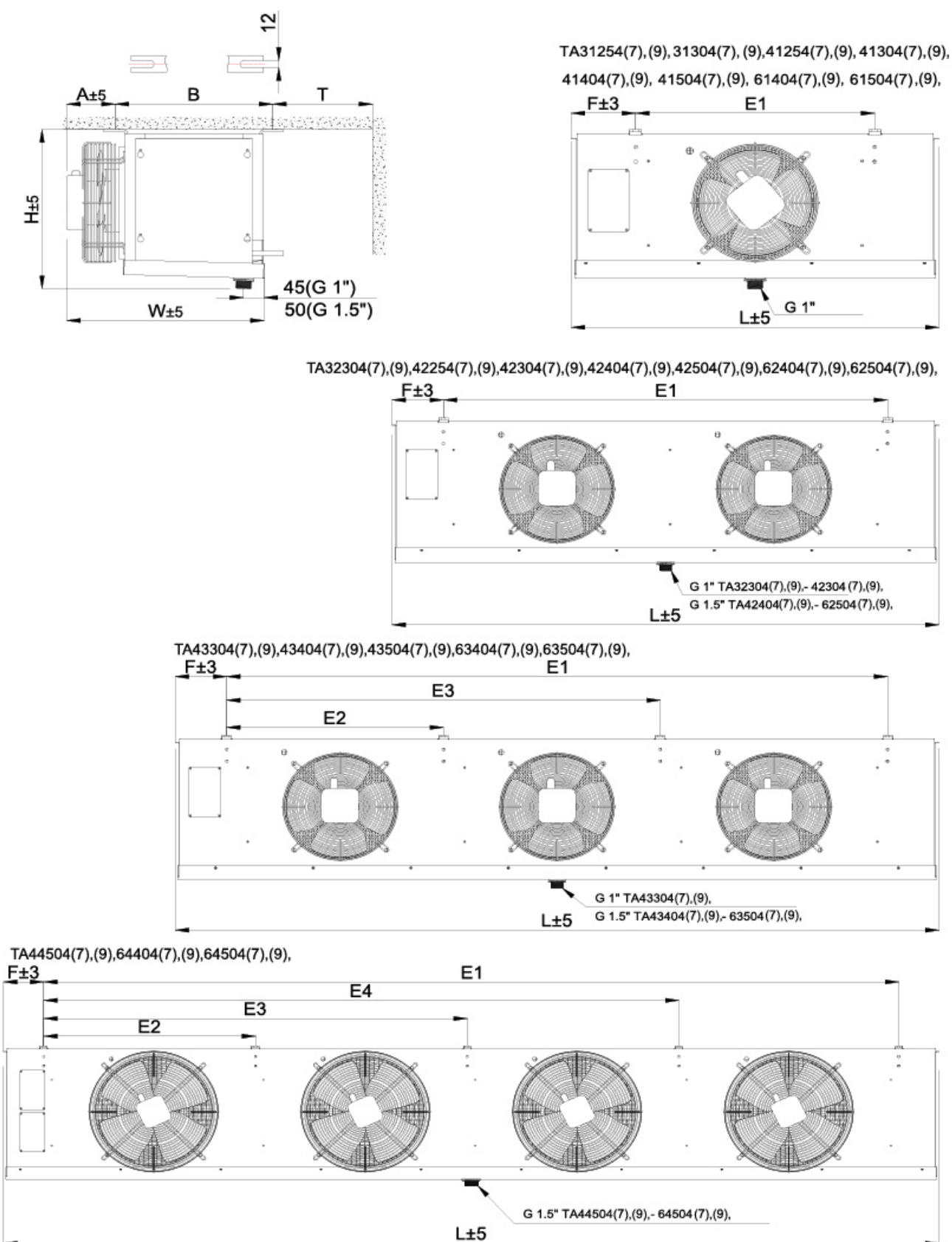
with electrical heater

0.79KW 25.96KW

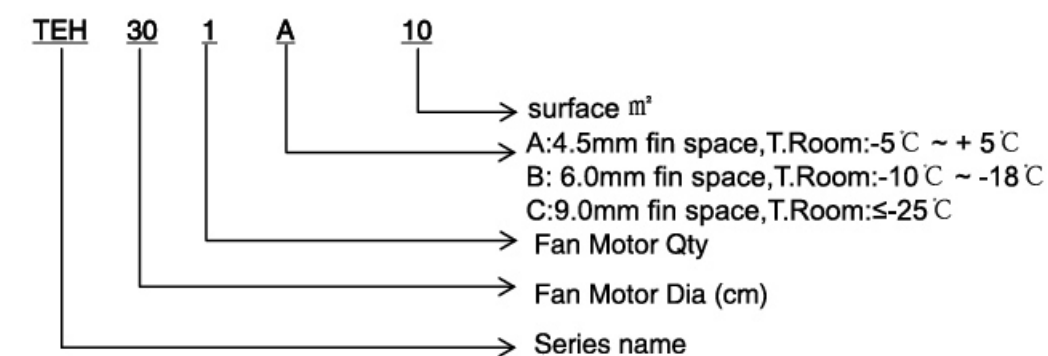
Model	Cooling Capacity (R404a)	Surface	Tube volume	Axial fan									Connection	
	Room Temp.= -25℃ DT1=6KTD SC4			Air Flow	Distance	Fan Speed	Quantity	Diameter	Noise Level in 3M	Voltage	Input Power	Current	Liquid	Gas
	KW			m³/h	M	RPM		MM	dB(A)		W	A	Inch	Inch
TA-31259	0.79	3.58	1.4	920	5	1350	1	250	63	220V/50HZ	1X55	0.24	3/8"	1/2"
TA-41259	0.89	4.67	1.9	900	4	1350	1	250	63	220V/50HZ	1X55	0.24	3/8"	1/2"
TA-31309	1.27	5.37	2.1	1500	8	1350	1	300	70	220V/50HZ	1X90	0.43	3/8"	3/4"
TA-41309	1.45	7.08	2.8	1480	7	1350	1	300	70	220V/50HZ	1X90	0.43	1/2"	7/8"
TA-41409	2.61	10.66	4.2	3520	10	1350	1	400	77	220V/50HZ	1X195	0.9	1/2"	1-1/8"
TA-61409	3.28	15.87	6.3	3320	9	1350	1	400	77	220V/50HZ	1X195	0.9	1/2"	1-1/8"
TA-41509	5.06	18.9	7.6	6550	19	1350	1	500	83	380V/50HZ/3PH	1X380	0.82	5/8"	1-3/8"
TA-61509	6.50	28.23	11.1	6020	18	1350	1	500	83	380V/50HZ/3PH	1X380	0.82	5/8"	1-3/8"
TA-42259	1.79	9.49	3.6	1840	6	1350	2	250	66	220V/50HZ	2X55	0.24	1/2"	7/8"
TA-32309	2.53	10.66	4.1	3000	9	1350	2	300	73	220V/50HZ	2X90	0.43	1/2"	1-1/8"
TA-42309	2.90	14.16	5.5	2960	8	1350	2	300	73	220V/50HZ	2X90	0.43	1/2"	1-1/8"
TA-42409	5.20	21.23	8.2	7040	13	1350	2	400	80	220V/50HZ	2X195	0.9	5/8"	1-3/8"
TA-62409	6.55	31.66	12.1	6640	12	1350	2	400	80	220V/50HZ	2X195	0.9	5/8"	1-3/8"
TA-42509	10.11	37.8	14.3	13100	23	1350	2	500	86	380V/50HZ/3PH	2X380	0.82	5/8"	1-3/8"
TA-62509	12.99	56.39	21.5	12040	22	1350	2	500	86	380V/50HZ/3PH	2X380	0.82	7/8"	1-5/8"
TA-43309	4.35	21.23	8	4440	11	1350	3	300	75	220V/50HZ	3X90	0.43	5/8"	1-3/8"
TA-43409	7.81	31.89	12	10560	16	1350	3	400	82	220V/50HZ	3X195	0.9	7/8"	1-5/8"
TA-63409	9.83	47.52	18	9960	14	1350	3	400	82	220V/50HZ	3X195	0.9	7/8"	1-5/8"
TA-43509	15.18	56.78	21.3	19650	27	1350	3	500	88	380V/50HZ/3PH	3X380	0.82	7/8"	1-5/8"
TA-63509	19.49	84.62	32.2	18060	25	1350	3	500	88	380V/50HZ/3PH	3X380	0.82	7/8"	1-5/8"
TA-44309	5.81	28.39	10.6	5920	13	1350	4	300	76	220V/50HZ	4X90	0.43	5/8"	1-3/8"
TA-64409	13.12	63.47	23.7	13280	17	1350	4	400	83	220V/50HZ	4X195	0.9	7/8"	1-5/8"
TA-44509	20.21	75.52	28.6	26200	30	1350	4	500	89	380V/50HZ/3PH	4X380	0.82	7/8"	2-1/8"
TA-64509	25.96	112.6	41	24080	28	1350	4	500	89	380V/50HZ/3PH	4X380	0.82	1-1/8"	2-1/8"

TA SERIES AIR COOLER OVERALL SIZE

Model	Electrical Defrosting			Net Weight		Gross weight		Size										
	Coil	Water tray	amount	TA...4	TA...7	TA...4	TA...7	L	W	H	B	E1	E2	E3	E4	F	A	T
	w	w	w	kg	kg	kg	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
TA-31254(7)(9)	1070	575	1645	20.5	20	31	30.5	774	409	375	342	529	-	-	-	123	82	200
TA-41254(7)(9)	1070	575	1645	25	24	35.5	34.5	774	409	375	342	529	-	-	-	123	82	200
TA-31304(7)(9)	1230	690	1920	26.5	25.5	37.5	36.5	874	424	452	342	629	-	-	-	123	97	200
TA-41304(7)(9)	1230	690	1920	35	33.5	46	44.5	874	424	452	342	629	-	-	-	123	97	200
TA-41404(7)(9)	2070	880	2950	39.5	37	54.5	52.5	1024	514	532	412	779	-	-	-	123	117	300
TA-61404(7)(9)	2900	880	3780	44	39.5	59.5	55	1024	514	532	412	779	-	-	-	123	117	300
TA-41504(7)(9)	3520	995	5510	66	62.5	86	82.5	1275	594	680	491	1030	-	-	-	123	117	400
TA-61504(7)(9)	5520	1990	7510	75.5	69.5	95.5	89.5	1275	594	680	491	1030	-	-	-	123	117	400
TA-42254(7)(9)	1840	955	2795	43	41	58	56	1274	409	375	342	1029	-	-	-	123	82	200
TA-32304(7)(9)	2140	1145	3285	44	42	60	58	1474	424	452	342	1229	-	-	-	123	97	200
TA-42304(7)(9)	2140	1145	3285	47	44	63	60	1474	424	452	342	1229	-	-	-	123	97	200
TA-42404(7)(9)	3900	1435	5335	68.5	63	88.5	83	1774	514	532	412	1529	-	-	-	123	117	300
TA-62404(7)(9)	5200	1435	6635	87.5	80.5	107.5	100.5	1774	514	532	412	1529	-	-	-	123	117	300
TA-42504(7)(9)	6740	1270	10180	110.5	102.5	146	138	2295	594	680	491	2030	-	-	-	123	117	400
TA-62504(7)(9)	10110	3440	13550	135.5	123.5	171	159	2295	594	680	491	2030	-	-	-	123	117	400
TA-43304(7)(9)	3180	1590	4770	70.5	66	95.5	91	2074	424	452	342	1829	600	1200	-	123	97	200
TA-43404(7)(9)	5625	1950	7575	95.5	89	131.5	125	2544	514	532	412	2279	750	1500	-	123	117	300
TA-63404(7)(9)	7500	1950	9450	114	103.5	150	139.5	2544	514	532	412	2279	750	1500	-	123	117	300
TA-43504(7)(9)	9200	1815	12830	163.5	151.5	213.5	201.5	3275	594	680	491	3030	1000	2000	-	143	117	400
TA-63504(7)(9)	13800	3630	17430	192	174	242	224	3275	594	680	491	3030	1000	2000	-	143	117	400
TA-44304(7)(9)	4240	2120	6360	94	88	127	121	2674	424	452	342	1829	600	1200	1800	123	97	200
TA-64404(7)(9)	9200	3630	12830	125	111	171	157	3274	514	532	412	3029	750	1500	2250	123	117	300
TA-44504(7)(9)	12720	2385	17490	203.5	187.5	268.5	252.5	4274	594	680	491	4030	1000	2000	3000	143	117	400
TA-64504(7)(9)	19080	4770	23850	252	228	317	293	4274	594	680	491	4030	1000	2000	3000	143	117	400



TEH SERIES AIR COOLER



To satisfy your special requirement, we have three different fans for option. The AC axial fan, axial fan with wall plate, axial fan with air duct.



TEH SERIES AIR COOLER

Fin space: 4.5MM

with electrical heater

2.3KW  116KW

Model	Capacity R404a(W) SC2	Surface	Tube volume	Axial Fan								Defrost Heater		Inlet Outlet
				Air Flow	Distance	Qty	Diameter	Noise Level in 3M	Voltage	Power	Current	Coil	Water Tray	
				M³/h	M	pc	mm	dB(A)	V	W	A	W	W	
	Te=-8℃ Δt=8K	M²	Dm³											mm
TEH301A10	2312	10	1.74	1800	9	1	300	68	220V/50HZ	1×83	0.43	1040	600	12x16
TEH302A15	3977	15	2.63	3600	9	2	300	68	220V/50HZ	2×83	2x0.43	1900	1040	12x16
TEH302A20	4839	20	3.51	3600	9	2	300	68	220V/50HZ	2×83	2x0.43	1900	1040	12x16
TEH303A25	6564	25	4.45	5400	9	3	300	68	220V/50HZ	3×83	3x0.43	2400	1300	12x16
TEH402A40	8400	40	5.81	6200	17	2	400	75	220V/50HZ	2×180	2x0.91	2000	1110	16x22
TEH402A55	11000	55	7.68	6200	17	2	400	75	220V/50HZ	2×180	2x0.91	2560	1350	16x22
THE402A65	13523	65	10.24	6200	17	2	400	75	220V/50HZ	2×180	2x0.91	3840	1350	16x22
TEH502A80	17723	80	13.68	11020	25	2	500	80	380V/50HZ/3PH	2×495	2x1.14	7080	1560	19x32
TEH502A105	23100	105	17.11	11020	25	2	500	80	380V/50HZ/3PH	2×495	2x1.14	7080	1560	19x32
TEH503A125	27995	125	22.17	16530	25	3	500	80	380V/50HZ/3PH	3×495	3x1.14	9080	1960	19x38
TEH503A160	34640	160	25.2	16530	25	3	500	80	380V/50HZ/3PH	3×495	3x1.14	10280	2200	19x38
TEH504A185	40320	185	29.25	22040	25	4	500	80	380V/50HZ/3PH	4×495	4x1.14	11880	2520	28x42
TEH504A210	46080	210	33.29	22040	25	4	500	80	380V/50HZ/3PH	4×495	4x1.14	13480	2800	28x42
TEH504A260	52000	260	43.27	22040	25	4	500	80	380V/50HZ/3PH	4×495	4x1.14	21600	2800	28x54
TEH604A330	67665	330	53.24	40000	30	4	600	83	380V/50HZ/3PH	4×750	4x1.7	21600	2800	28x54
TEH604A410	82000	410	63.98	40000	30	4	600	83	380V/50HZ/3PH	4×750	4x1.7	31600	3020	28x54
TEH605A510	98390	510	83.62	50000	30	5	600	83	380V/50HZ/3PH	5×750	5x1.7	38400	3400	28x54
TEH605A570	116000	570	89.6	50000	30	5	600	83	380V/50HZ/3PH	5×750	5x1.7	44500	3400	32x54

TEH SERIES AIR COOLER

Fin Space: 6mm

with electrical heater

1.66KW  81.4KW

Model	Capacity R404a(W) SC3	Surface	Tube volume	Axial Fan								Defrost Heater		Inlet Outlet
				Air Flow	Distance	Qty	Diameter	Noise Level in 3M	Voltage	Power	Current	Coil	Water Tray	
				M³/h	M	pc	mm	dB(A)	V	W	A	W	W	
	Te=-25℃ Δt=7K	M²	Dm³											mm
TEH301B7	1668	7	1.74	1800	10	1	300	68	220V/50HZ	1×83	0.43	1040	600	12x16
TEH302B12	2864	12	2.63	3600	10	2	300	68	220V/50HZ	2×83	2x0.43	1900	1040	12x16
TEH302B15	3503	15	3.51	3600	10	2	300	68	220V/50HZ	2×83	2x0.43	1900	1040	12x16
TEH303B22	4748	22	4.45	5400	10	3	300	68	220V/50HZ	3×83	3x0.43	2400	1300	12x16
TEH402B30	6039	30	5.81	6200	18	2	400	75	220V/50HZ	2×180	2x0.91	2000	1110	16x22
TEH402B40	7459	40	7.68	6200	18	2	400	75	220V/50HZ	2×180	2x0.91	2560	1350	16x22
TEH402B50	9580	50	10.24	6200	18	2	400	75	220V/50HZ	2×180	2x0.91	3840	1350	16x22
TEH502B60	13067	60	13.68	11020	26	2	500	80	380V/50HZ/3PH	2×495	2x1.14	7080	1560	19x32
TEH502B80	16280	80	17.11	11020	26	2	500	80	380V/50HZ/3PH	2×495	2x1.14	7080	1560	19x32
TEH503B100	20630	100	22.17	16530	26	3	500	80	380V/50HZ/3PH	3×495	3x1.14	9080	1840	19x35
TEH503B120	24420	120	25.2	16530	26	3	500	80	380V/50HZ/3PH	3×495	3x1.14	10080	2120	19x35
TEH504B140	28490	140	29.25	22040	26	4	500	80	380V/50HZ/3PH	4×495	4x1.14	11680	2400	28x42
TEH504B160	32560	160	33.29	22040	26	4	500	80	380V/50HZ/3PH	4×495	4x1.14	13480	2800	28x42
TEH504B200	37000	200	43.27	22040	26	4	500	80	380V/50HZ/3PH	4×495	4x1.14	21600	2800	28x54
TEH604B250	50141	250	53.24	40000	31	4	600	83	380V/50HZ/3PH	4×750	4x1.7	21600	2800	28x54
TEH604B310	57350	310	63.98	40000	31	4	600	83	380V/50HZ/3PH	4×750	4x1.7	31600	3020	28x54
TEH605B380	72045	380	83.62	50000	31	5	600	83	380V/50HZ/3PH	5×750	5x1.7	38400	3400	28x54
TEH605B440	81400	440	89.6	50000	31	5	600	83	380V/50HZ/3PH	5×750	5x1.7	44500	3400	32x54
TEH802B440	71200	440	96.3	36000	35	2	800	85	380V/50HZ/3PH	2x1477	2x3.27	36000	4480	28x54

TEH SERIES AIR COOLER

Fin Space: 9.0mm

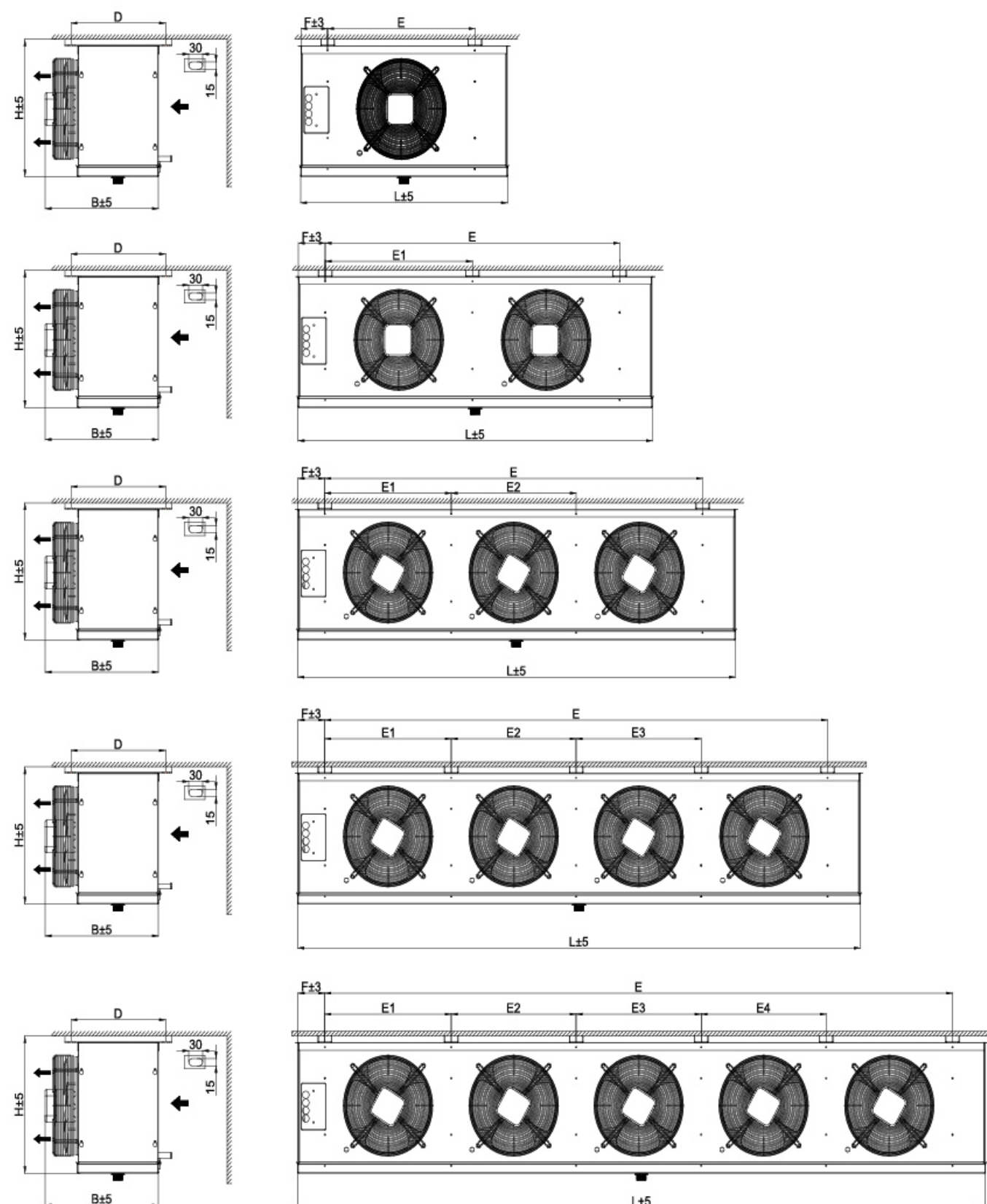
with electrical heater

1.92KW  49.7KW

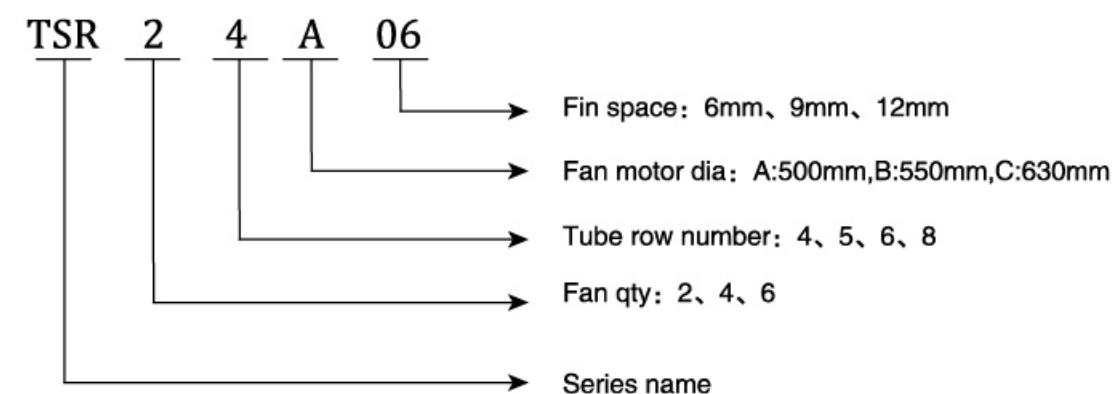
Model	Capacity R404a(W) SC4	Surface	Tube volume	Axial Fan								Defrost Heater		Inlet Outlet
				Air Flow	Distance	Qty	Diameter	Noise Level in 3M	Voltage	Power	Current	Coil	Water Tray	
				M³/h	M	pc	mm	dB(A)	V	W	A	W	W	
TEH302C8	1921	8	2.63	3600	11	2	300	68	220V/50HZ	2×83	2x0.43	1900	1040	12x16
TEH302C12	2340	12	3.51	3600	11	2	300	68	220V/50HZ	2×83	2x0.43	1900	1040	12x16
TEH303C15	3189	15	4.45	5400	11	3	300	68	220V/50HZ	3×83	3x0.43	2400	1300	12x16
TEH402C20	4090	20	5.81	6200	19	2	400	75	220V/50HZ	2×180	2x0.91	2000	1110	16x22
TEH402C30	5930	30	7.68	6200	19	2	400	75	220V/50HZ	2×180	2x0.91	2560	1350	16x22
TEH402C35	6095	35	10.24	6200	19	2	400	75	220V/50HZ	2×180	2x0.91	3840	1350	16x22
TEH502C40	8821	40	13.68	11020	27	2	500	80	380V/50HZ/3PH	2×495	2x1.14	7080	1560	19x32
TEH502C55	10063	55	17.11	11020	27	2	500	80	380V/50HZ/3PH	2×495	2x1.14	7080	1560	19x32
TEH503C70	13957	70	22.17	16530	27	3	500	80	380V/50HZ/3PH	3×495	3x1.14	9080	1960	19x35
TEH503C85	15104	85	25.2	16530	27	3	500	80	380V/50HZ/3PH	3×495	3x1.14	10280	2200	19x35
TEH504C100	18603	100	29.25	22040	27	4	500	80	380V/50HZ/3PH	4×495	4x1.14	11880	2520	28x42
TEH504C115	20142	115	33.29	22040	27	4	500	80	380V/50HZ/3PH	4×495	4x1.14	13480	2800	28x42
TEH504C140	23366	140	43.27	22040	27	4	500	80	380V/50HZ/3PH	4×495	4x1.14	24300	5520	28x54
TEH604C170	33931	170	53.24	40000	32	4	600	83	380V/50HZ/3PH	4×750	4x1.7	24300	5520	28x54
TEH604C210	37122	210	63.98	40000	32	4	600	83	380V/50HZ/3PH	4×750	4x1.7	31600	6040	28x54
TEH605C250	46491	250	79.64	50000	32	5	600	83	380V/50HZ/3PH	5×750	5x1.7	33400	6400	28x54
TEH605C300	49729	300	89.6	50000	32	5	600	83	380V/50HZ/3PH	5×750	5x1.7	44500	6800	32x54
TEH802C300	47230	300	96.3	36000	35	2	800	85	380V/50HZ/3PH	2x1477	2x3.27	36000	4480	28x54

TEH SERIES AIR COOLER OVERALL SIZE

Model	L	B	H	Install Size mm							Drain
				D	E	E ₁	E ₂	E ₃	E ₄	F	
TEH301A10	740	420	435	340	510					95	1"
TEH301B7											
TEH302A15	1290	420	435	340	1060					95	1"
TEH302B12											
TEH302C8											
TEH302A20	1290	420	435	340	1060					95	1"
TEH302B15											
TEH302C12											
TEH303A25	1590	420	435	340	1360					95	1"
TEH303B22											
TEH303C15											
TEH402A40	1550	495	550	415	1250					97	1"
TEH402B30											
TEH402C20											
TEH402A55	1550	545	550	465	1250					97	1"
TEH402B40											
TEH402C30											
TEH402A65	1850	545	550	465	1550					97	1"
TEH402B50											
TEH402C35											
TEH502A80	1940	590	650	510	1650	820				97	1-1/2"
TEH502B60											
TEH502C40											
TEH502A105	1940	590	650	510	1650	820				97	1-1/2"
TEH502B80											
TEH502C55											
TEH503A125	2340	640	650	560	2050	685	670			97	1-1/2"
TEH503B100											
TEH503C70											
TEH503A160	2340	640	650	560	2050	685	670			97	1-1/2"
TEH503B120											
TEH503C85											
TEH504A185	3140	640	650	560	2850	720	700	700		97	1-1/2"
TEH504B140											
TEH504C100											
TEH504A210	3140	640	650	560	2850	720	700	700		97	1-1/2"
TEH504B160											
TEH504C115											
TEH504A260	3540	660	700	580	3250	820	800	800		97	1-1/2"
TEH504B200											
TEH504C140											
TEH604A330	3540	660	845	630	3250	820	800	800		97	1-1/2"
TEH604B250											
TEH604C170											
TEH604A410	3040	760	920	720	2750	715	675	675		97	1-1/2"
TEH604B310											
TEH604C210											
TEH605A510	3940	760	870	720	3650	740	720	720	720	97	1-1/2"
TEH605B380											
TEH605C250											
TEH605A580	3940	760	970	720	3650	740	720	720	720	97	1-1/2"
TEH605B440											
TEH605C300											



TSR INDUSTRIAL QUICK FREEZING AIR COOLER



The TSR range has been developed in order to meet the food refrigeration sector's most demanding requirements in terms of efficiency and effectiveness for all those applications where fast cooling is essential.

The models of this product range are specifically designed for blast chilling and blast freezing rooms, and are the ideal solution for a wide variety of installations (and room dimensions).

The units are floor-mounted, consisting of vertical modules with 2 blow-through horizontal air flow direction fan motors, with a choice of 3 different diameters (500, 550 and 630 mm—operating temperature: $-40 \div +60^{\circ}\text{C}$), equipped with special profile blades which guarantee appropriate air circulation thanks to the high pressure they produce.

The units are equipped with high pressure blow through fan motors, therefore it is important to check whether during operation there will be an excessive level of dehumidification that, in cases of low added static pressure, would lead to the projection (in terms of splashing) of water from the heat exchanger into the cold room. To avoid this phenomena the unit can be supplied with suction fan motors (FI option).

On request the models can be equipped with non-standard coils, defrosting and fan motors.

For special applications and further information contact our Technical Dept.



Fin space: 6mm

Model	Capacity(W) R404a	Surface	Tube volume	Axial fan								Defrost heater		Inlet outlet
	Te=-7℃	M ²	dm ³	Air flow	Distance	Qty	Diameter	Noise level in 3M	Voltage	Power	Current	Coil	Water tray	
				m ³ /h	M	pc	mm	dB(A)	V	W	A	W	W	
TSR24A06	11620	86	19.1	15000	21	2	500	78	380V/50HZ	2x610	2x1.43	8240	1650	19x35
TSR24B06	12300	86	19.1	18400	26	2	550	78	380V/50HZ	2x666	2x1.45	8240	1650	19x35
TSR25B06	14620	108	23.9	18400	26	2	550	78	380V/50HZ	2x666	2x1.45	11540	1650	19x35
TSR24C06	18860	133	29.6	25600	33	2	630	84	380V/50HZ	2x1012	2x1.98	12290	2050	28x42
TSR26C06	25280	200	44.4	25600	33	2	630	84	380V/50HZ	2x1012	2x1.98	15360	2050	28x54
TSR28C06	31310	266	59.2	25600	33	2	630	84	380V/50HZ	2x1012	2x1.98	16390	2050	28x54
TSR44A06	23350	171	36.3	30000	21	4	500	79	380V/50HZ	4x610	4x1.43	15040	3010	28x42
TSR44B06	24730	171	36.3	36800	26	4	550	79	380V/50HZ	4x666	4x1.45	15040	3010	28x42
TSR45B06	29450	214	45.4	36800	26	4	550	79	380V/50HZ	4x666	4x1.45	21060	3010	28x54
TSR44C06	37510	265	56.3	51200	33	4	630	85	380V/50HZ	4x1012	4x1.98	29830	3680	28x54
TSR46C06	53130	398	84.4	51200	33	4	630	85	380V/50HZ	4x1012	4x1.98	44740	3680	2x35 2x54
TSR48C06	64880	530	112.6	51200	33	4	630	85	380V/50HZ	4x1012	4x1.98	59650	3680	2x35 2x67
TSR64A06	35390	256	54.3	45000	21	6	500	80	380V/50HZ	6x610	6x1.43	30020	4290	28x54
TSR64B06	37410	256	54.3	55200	26	6	550	80	380V/50HZ	6x666	6x1.45	30020	4290	28x54
TSR65B06	44160	320	67.9	55200	26	6	550	80	380V/50HZ	6x666	6x1.45	42880	4290	28x54
TSR64C06	56350	397	84.3	76800	33	6	630	86	380V/50HZ	6x1012	6x1.98	43910	5490	2x35 2x67
TSR66C06	77540	596	126.5	76800	33	6	630	86	380V/50HZ	6x1012	6x1.98	65860	5490	2x35 2x67
TSR68C06	97660	794	168.6	76800	33	6	630	86	380V/50HZ	6x1012	6x1.98	87810	5490	2x35 2x67

Te=-7℃ ΔT=7K

Fin space: 9mm

Model	Capacity(W) R404a	Surface	Tube volume	Axial fan								Defrost heater		Inlet outlet
	Te=-38℃	M ²	dm ³	Air flow	Distance	Qty	Diameter	Noise level in 3M	Voltage	Power	Current	Coil	Water tray	
				m ³ /h	M	pc	mm	dB(A)	V	W	A	W	W	
TSR24A09	6380	57	19.1	15000	22	2	500	78	380V/50HZ	2x610	2x1.43	8240	1650	19x35
TSR24B09	6820	57	19.1	18400	27	2	550	78	380V/50HZ	2x666	2x1.45	8240	1650	19x35
TSR25B09	8120	72	23.9	18400	27	2	550	78	380V/50HZ	2x666	2x1.45	11540	1650	19x35
TSR24C09	10380	89	29.6	25600	34	2	630	84	380V/50HZ	2x1012	2x1.98	12290	2050	28x42
TSR26C09	13800	133	44.4	25600	34	2	630	84	380V/50HZ	2x1012	2x1.98	15360	2050	28x54
TSR28C09	15100	178	59.2	25600	34	2	630	84	380V/50HZ	2x1012	2x1.98	16390	2050	28x54
TSR44A09	12920	114	36.3	30000	22	4	500	79	380V/50HZ	4x610	4x1.43	15040	3010	28x42
TSR44B09	13840	114	36.3	36800	27	4	550	79	380V/50HZ	4x666	4x1.45	15040	3010	28x42
TSR45B09	16430	143	45.4	36800	27	4	550	79	380V/50HZ	4x666	4x1.45	21060	3010	28x54
TSR44C09	20980	177	56.3	51200	34	4	630	85	380V/50HZ	4x1012	4x1.98	29830	3680	28x54
TSR46C09	29960	265	84.4	51200	34	4	630	85	380V/50HZ	4x1012	4x1.98	44740	3680	2x35 2x54
TSR48C09	37010	354	112.6	51200	34	4	630	85	380V/50HZ	4x1012	4x1.98	59650	3680	2x35 2x67
TSR64A09	19980	171	54.3	45000	22	6	500	80	380V/50HZ	6x610	6x1.43	30020	4290	28x54
TSR64B09	21290	171	54.3	55200	27	6	550	80	380V/50HZ	6x666	6x1.45	30020	4290	28x54
TSR65B09	24750	213	67.9	55200	27	6	550	80	380V/50HZ	6x666	6x1.45	42880	4290	28x54
TSR64C09	31590	265	84.3	76800	34	6	630	86	380V/50HZ	6x1012	6x1.98	43910	5490	2x35 2x67
TSR66C09	43030	397	126.5	76800	34	6	630	86	380V/50HZ	6x1012	6x1.98	65860	5490	2x35 2x67
TSR68C09	55430	530	168.6	76800	34	6	630	86	380V/50HZ	6x1012	6x1.98	87810	5490	2x35 2x67

Te=-38℃ ΔT=6K

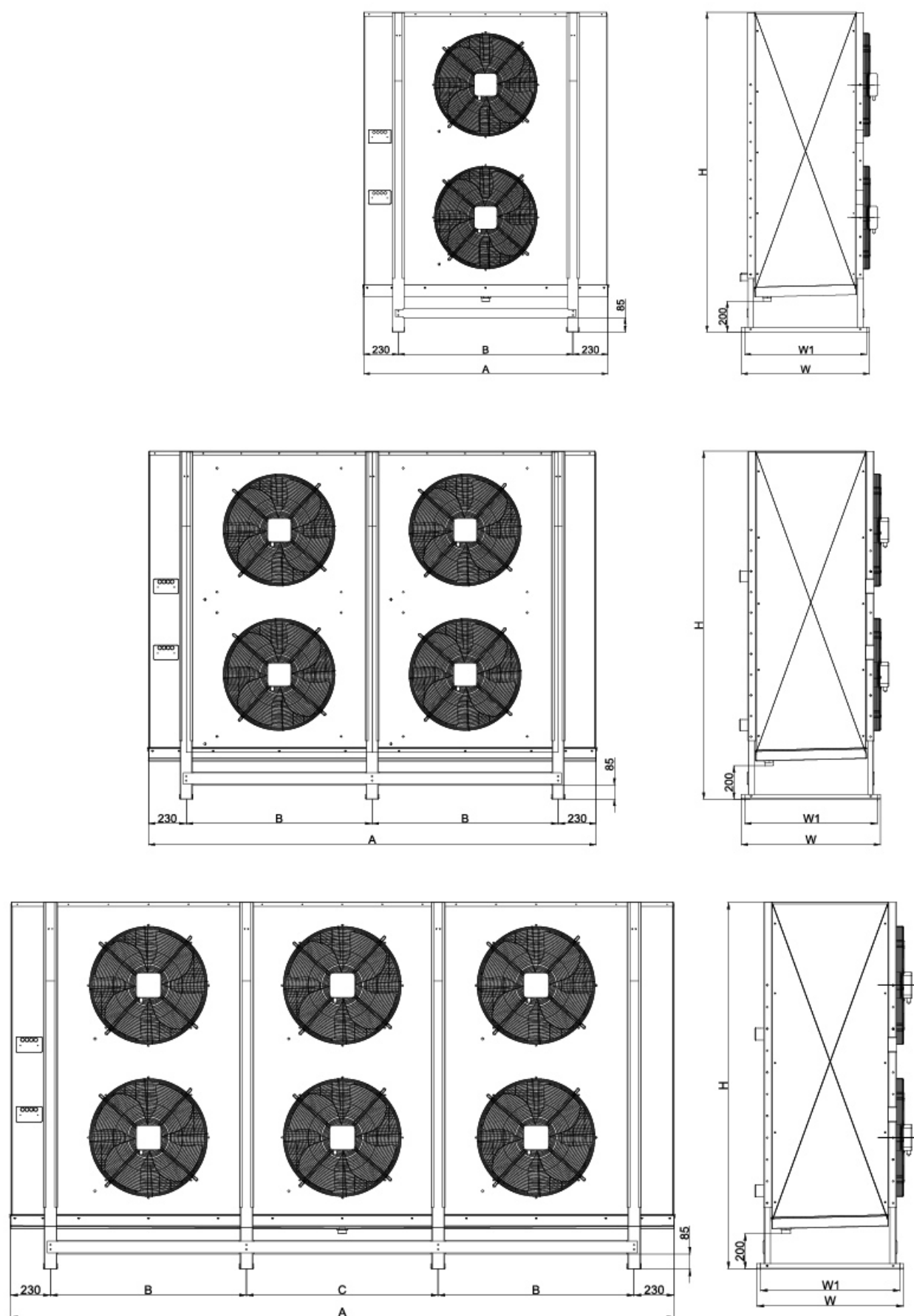
Fin space: 12mm

Model	Capacity(W) R404a	Surface	Tube volume	Axial fan								Defrost heater		Inlet outlet
	Te=-38℃	M ²	dm ³	Air flow	Distance	Qty	Diameter	Noise level in 3M	Voltage	Power	Current	Coil	Water tray	
				m ³ /h	M	pc	mm	dB(A)	V	W	A	W	W	
TSR24A12	5290	43	19.1	15000	23	2	500	78	380V/50HZ	2x610	2x1.43	8240	1650	19x35
TSR24B12	5670	43	19.1	18400	28	2	550	78	380V/50HZ	2x666	2x1.45	8240	1650	19x35
TSR25B12	6780	54	23.9	18400	28	2	550	78	380V/50HZ	2x666	2x1.45	11540	1650	19x35
TSR24C12	8620	67	29.6	25600	35	2	630	84	380V/50HZ	2x1012	2x1.98	12290	2050	28x42
TSR26C12	11060	100	44.4	25600	35	2	630	84	380V/50HZ	2x1012	2x1.98	15360	2050	28x54
TSR28C12	15560	133	59.2	25600	35	2	630	84	380V/50HZ	2x1012	2x1.98	16390	2050	28x54
TSR44A12	10650	86	36.3	30000	23	4	500	79	380V/50HZ	4x610	4x1.43	15040	3010	28x42
TSR44B12	11420	86	36.3	36800	28	4	550	79	380V/50HZ	4x666	4x1.45	15040	3010	28x42
TSR45B12	13660	107	45.4	36800	28	4	550	79	380V/50HZ	4x666	4x1.45	21060	3010	28x54
TSR44C12	17360	133	56.3	51200	35	4	630	85	380V/50HZ	4x1012	4x1.98	29830	3680	28x54
TSR46C12	25260	199	84.4	51200	35	4	630	85	380V/50HZ	4x1012	4x1.98	44740	3680	2x35 2x54
TSR48C12	32250	265	112.6	51200	35	4	630	85	380V/50HZ	4x1012	4x1.98	59650	3680	2x35 2x67
TSR64A12	16690	128	54.3	45000	23	6	500	80	380V/50HZ	6x610	6x1.43	30020	4290	28x54
TSR64B12	17850	128	54.3	55200	28	6	550	80	380V/50HZ	6x666	6x1.45	30020	4290	28x54
TSR65B12	20530	160	67.9	55200	28	6	550	80	380V/50HZ	6x666	6x1.45	42880	4290	28x54
TSR64C12	26100	199	84.3	76800	35	6	630	86	380V/50HZ	6x1012	6x1.98	43910	5490	2x35 2x67
TSR66C12	38140	298	126.5	76800	35	6	630	86	380V/50HZ	6x1012	6x1.98	65860	5490	2x35 2x67
TSR68C12	47010	397	168.6	76800	35	6	630	86	380V/50HZ	6x1012	6x1.98	87810	5490	2x35 2x67

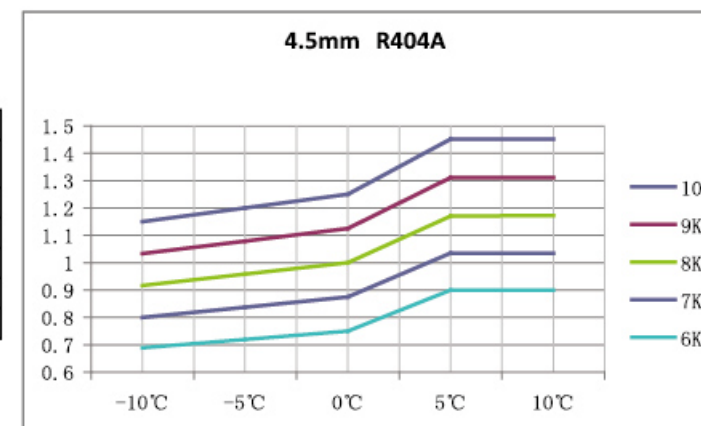
Te=-38℃ ΔT=6K

TSR SERIES AIR COOLER OVERALL SIZE

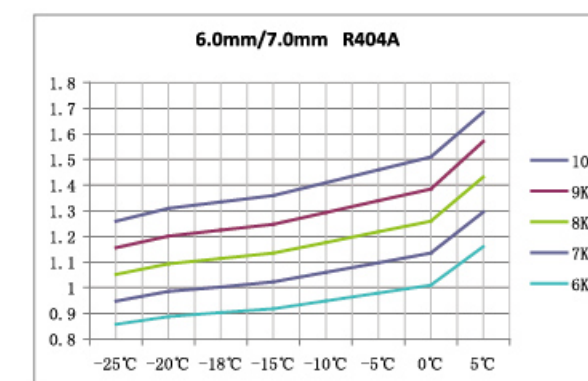
Model	A	W	H	Install size (mm)			Drain
				B	C	W1	
TSR24A06	1359	743	1805	900	-	703	1.5"
TSR24A09							
TSR24A12							
TSR24B06	1359	743	1805	900	-	703	1.5"
TSR24B09							
TSR24B12							
TSR25B06	1359	743	1805	900	-	703	1.5"
TSR25B09							
TSR25B12							
TSR24C06	1609	843	2105	1150	-	803	1.5"
TSR24C09							
TSR24C12							
TSR26C06	1609	843	2105	1150	-	803	1.5"
TSR26C09							
TSR26C12							
TSR28C06	1609	843	2105	1150	-	803	1.5"
TSR28C09							
TSR28C12							
TSR44A06	2209	743	1805	875	-	703	1.5"
TSR44A09							
TSR44A12							
TSR44B06	2209	743	1805	875	-	703	1.5"
TSR44B09							
TSR44B12							
TSR45B06	2209	743	1805	875	-	703	1.5"
TSR45B09							
TSR45B12							
TSR44C06	2709	843	2105	1125	-	803	1.5"
TSR44C09							
TSR44C12							
TSR46C06	2709	843	2105	1125	-	803	1.5"
TSR46C09							
TSR46C12							
TSR48C06	2709	843	2105	1125	-	803	1.5"
TSR48C09							
TSR48C12							
TSR64A06	3059	743	1805	875	850	703	1.5"
TSR64A09							
TSR64A12							
TSR64B06	3059	743	1805	875	850	703	1.5"
TSR64B09							
TSR64B12							
TSR65B06	3059	743	1805	875	850	703	1.5"
TSR65B09							
TSR65B12							
TSR64C06	3809	843	2105	1125	1100	803	1.5"
TSR64C09							
TSR64C12							
TSR66C06	3809	843	2105	1125	1100	803	1.5"
TSR66C09							
TSR66C12							
TSR68C06	3809	843	2105	1125	1100	803	1.5"
TSR68C09							
TSR68C12							



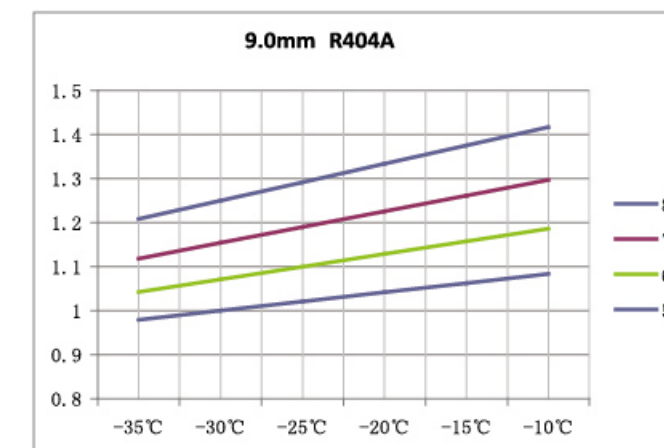
F1 (Temperature Corrector Factor)						
ΔT	T_r	-10°C	-5°C	0°C	2°C	5°C
10K		1.15	1.2	1.25	1.3	1.452
9K		1.033	1.079	1.125	1.2175	1.31
8K		0.917	0.9585	1	1.085	1.17
7K		0.8	0.8375	0.875	0.905	1.035
6K		0.689	0.7195	0.75	0.825	0.9



F1 (Temperature Corrector Factor)								
ΔT	T_r	-25°C	-20°C	-18°C	-15°C	-10°C	-5°C	0°C
10K		1.26	1.31	1.335	1.36	1.41	1.46	1.51
9K		1.156	1.2018	1.225	1.2476	1.2934	1.3392	1.385
8K		1.052	1.0936	1.114	1.1352	1.1768	1.2184	1.26
7K		0.948	0.9854	1.003	1.0228	1.0602	1.0976	1.135
6K		0.857	0.8876	0.903	0.9182	0.9488	0.9794	1.01



F1 (Temperature Corrector Factor)						
ΔT	T_r	-35°C	-30°C	-25°C	-20°C	-15°C
8K		1.208	1.2498	1.2916	1.3334	1.3752
7K		1.118	1.1538	1.1896	1.2254	1.2612
6K		1.042	1.0708	1.0996	1.1284	1.1572
5K		0.979	0.9998	1.0206	1.0414	1.0622



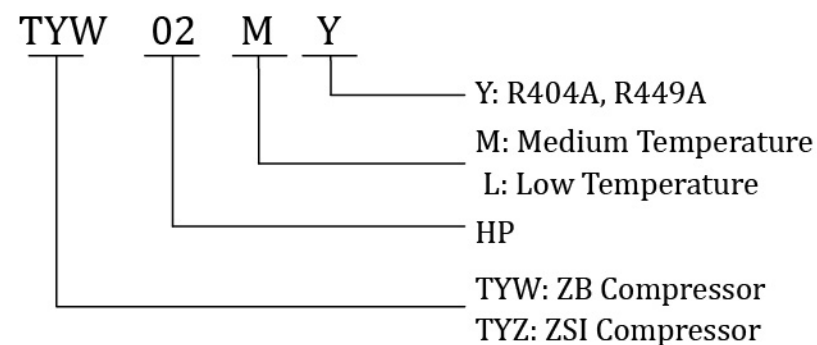
F2										
T.room(°C)	-35°C	-30°C	-25°C	-20°C	-15°C	-10°C	-5°C	0°C	5°C	10°C
R22	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
R134a	-	-	-	-	0.86	0.88	0.89	0.91	0.92	0.93
R404A(R507)	1	1	1	1	1	1	1	1	1	1

Actual capacity=Nominal capacity X F1 X F2

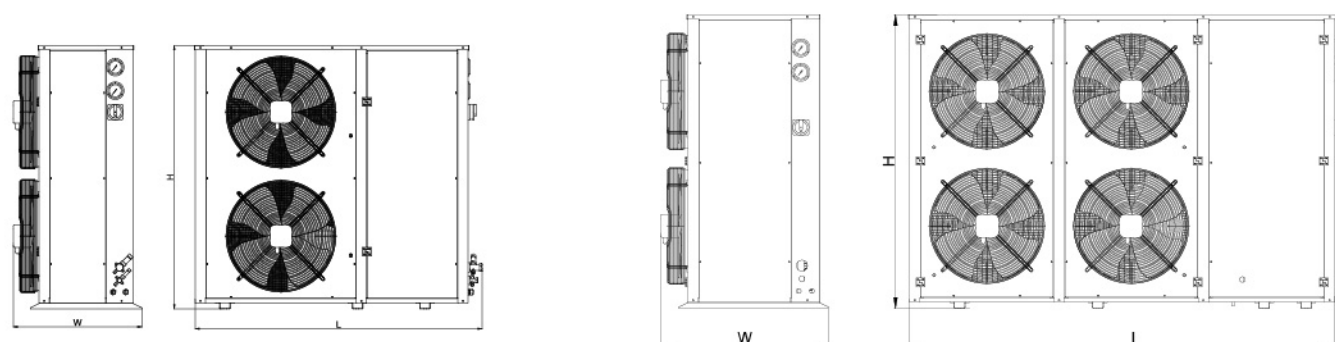
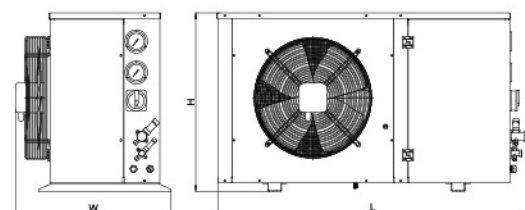
Standard: EN328

Standard condition	Air inlet temp.(°C)	Evaporation temp.(°C)	Superheat	Relative humidity	correction factor
SC1	10	0	6.5K	85%	1.35
SC2	0	-8	5.2K	85%	1.15
SC3	-18	-25	4.6K	95%	1.05
SC4	-25	-31	3.9K	95%	1.01
SC5	-34	-40	3.9K	95%	1.01

PACKAGE COPELAND SCROLL CONDENSING UNIT



- Low noise quality condensing unit
- Quick Install range 2HP -- 15 HP
- Copeland scroll **ZB**, **ZSI** compressor
- Crankcase heater
- Axial fan motor 6 pole with low noise
- Emerson HP/LP pressure switch
- Emerson sight glass
- Emerson filter drier
- Liquid receiver
- Pressure gauges
- Acoustic case lining
- Service valves
- Siemens switch
- Schneider AC contactor
- Schneider overload protector
- Carlo phase protector
- Oil separator(for low temperature)
- Suction accumulator(for low temperature)
- Alco fan speed controller(Optional)
- CE marked



PACKAGE COPELAND SCROLL **ZB** CONDENSING UNIT

R404A

MBP

Copeland

Model	Compressor		Condenser		Axial Fan				Dimension LxWxH(mm)	Connect	
	Model	H.P.	Surface (m ²)	nominal capacity (kw)	N°xΦ	Air Flow m ³ /h	Noise dist=10m	Voltage		Dis	Suction
TYW02MY	ZB15KQE	2	19.3	10.03	1X450	3775	46	220V/50HZ	1120*570*632	3/8"	3/4"
TYW025MY	ZB19KQE	2.5	24	13.48	1X450	3775	46	220V/50HZ	1120*570*632	3/8"	3/4"
TYW03MY	ZB21KQE	3	31.8	16.11	1X450	3775	46	220V/50HZ	1120*570*632	3/8"	3/4"
TYW035MY	ZB26KQE	3.5	41	23.38	1X450	3775	46	220V/50HZ	1255*570*832	3/8"	3/4"
TYW04MY	ZB29KQE	4	41	26.98	1X500	5705	48	220V/50HZ	1255*570*832	1/2"	7/8"
TYW05MY	ZB38KQE	5	46	30.49	2X450	7550	50	220V/50HZ	1255*570*1232	1/2"	7/8"
TYW065MY	ZB45KQE	6	62	35.32	2X450	7550	50	220V/50HZ	1255*570*1232	1/2"	7/8"
TYW07MY	ZB48KQE	7	70	41.87	2X450	7550	50	220V/50HZ	1255*570*1232	5/8"	7/8"
TYW08MY	ZB58KQE	8	77	45.66	2X500	11410	50	220V/50HZ	1320*620*1232	5/8"	1-1/8"
TYW09MY	ZB66KQE	9	87	52.8	2X500	11410	50	220V/50HZ	1320*620*1232	5/8"	1-3/8"
TYW10MY	ZB76KQE	10	96	58.57	2X500	11410	50	220V/50HZ	1320*620*1232	5/8"	1-3/8"
TYW13MY	ZB95KQE	13	128	76.8	4X500	22820	54	220V/50HZ	2005*770*1333	5/8"	1-3/8"
TYW15MY	ZB114KQE	15	160	95.3	4X500	22820	54	220V/50HZ	2005*770*1333	7/8"	1-3/8"

PACKAGE COPELAND SCROLL **ZSI** CONDENSING UNIT

R404A

LBP

Copeland

Model	Compressor		Condenser	Axial Fan				Dimension LxWxH (mm)	Connect	
	Model	H.P.		N°xφ mm	Air Flow m ³ /h	Noise dist=10m	Voltage		Dis	Suction
TYZ02LY	ZSI06KQE	2	19	1x400	3295	44	220V/50HZ	1380x620x632	3/8"	3/4"
TYZ025LY	ZSI08KQE	2.5	19	1x400	3295	44	220V/50HZ	1380x620x632	3/8"	3/4"
TYZ03LY	ZSI09KQE	3	24	1x450	3375	44	220V/50HZ	1380x620x632	3/8"	3/4"
TYZ035LY	ZSI11KQE	3.5	24	1x450	3375	44	220V/50HZ	1380x620x632	3/8"	7/8"
TYZ045LY	ZSI14KQE	4.5	32	1x450	3375	48	220V/50HZ	1510x620x832	1/2"	7/8"
TYZ05LY	ZSI15KQE	5	41	1x500	5705	48	220V/50HZ	1510x620x832	1/2"	7/8"
TYZ06LY	ZSI18KQE	6	51	1x500	5705	48	220V/50HZ	1510x620x832	1/2"	7/8"
TYZ07LY	ZSI21KQE	7	61	1x500	5705	48	220V/50HZ	1510x620x832	1/2"	7/8"

PACKAGE COPELAND SCROLL **ZB** CONDENSING UNIT

R404A

MBP

Copeland®

Model	Ambient Temp.	Capacity(Watts)					
		Evaporating Temperature (°C)					
	°C	5	0	-5	-10	-15	-20
TYW02MY	30	5430	4750	4130	3530	2900	2390
	32	5330	4650	4040	3440	2800	2300
	38	4910	4270	3660	3100	2450	1970
	43			3300	2800	2140	1680
TYW025MY	30	6770	5930	5150	4440	3660	3090
	32	6660	5830	5040	4340	3560	2990
	38	6200	5410	4640	3970	3210	2670
	43		5000	4280	3650	2900	2400
TYW03MY	30	7630	6710	5870	5080	4230	3570
	32	7530	6620	5760	4970	4130	3470
	38	7070	6180	5340	4580	3740	3110
	43				4220	3390	2800
TYW035MY	30	8840	7770	6830	5920	4900	4160
	32	8730	7670	6720	5800	4780	4040
	38	8200	7170	6230	5330	4310	3620
	43				4900	3900	3250
TYW04MY	30	10810	9460	8270	7150	5910	4980
	32	10650	9300	8110	6990	5750	4830
	38	9940	8650	7480	6400	5180	4310
	43			6890	5860	4680	3870
TYW05MY	30	13300	11680	10230	8840	7330	6180
	32	13120	11500	10040	8650	7130	5990
	38	12290	10720	9280	7930	6440	5360
	43			8570	7280	5830	4810
TYW065MY	30	15320	13470	11810	10230	8510	7180
	32	15120	13280	11600	10020	8290	6970
	38	14190	12410	10760	9220	7480	6250
	43			9950	8480	6760	5620
TYW07MY	30	18150	15840	13820	11890	9820	8250
	32	17850	15550	13530	11610	9540	7990
	38	16570	14400	12440	10590	8560	7120
	43		13300	11430	9690	7720	6390
TYW08MY	30	20960	18420	16090	13890	11430	9430
	32	20660	18160	15810	13600	11120	9120
	38	19400	16980	14660	12470	9920	7930
	43			13580	11430	8860	6890
TYW09MY	30	23150	20330	17810	15470	12860	10850
	32	22810	20010	17490	15140	12520	10540
	38	21350	18690	16210	13930	11330	9420
	43			15010	12830	10270	8440
TYW10MY	30	26120	23080	20320	17670	14690	12350
	32	25850	22820	20030	17350	14340	12010
	38		21510	18710	16070	13020	10760
	43				14860	11820	9660
TYW13MY	30	32000	28300	24950	21770	18090	14920
	32	31600	27960	24580	21360	17650	14520
	38		26220	22770	19320	15230	12580
	43				17880	13820	11290
TYW15MY	30	38560	33980	29800	25790	21270	17510
	32	38070	33570	29360	25310	20760	17030
	38		31400	27040	22790	17930	14810
	43				21090	16270	13300

PACKAGE COPELAND SCROLL **ZSI** CONDENSING UNIT

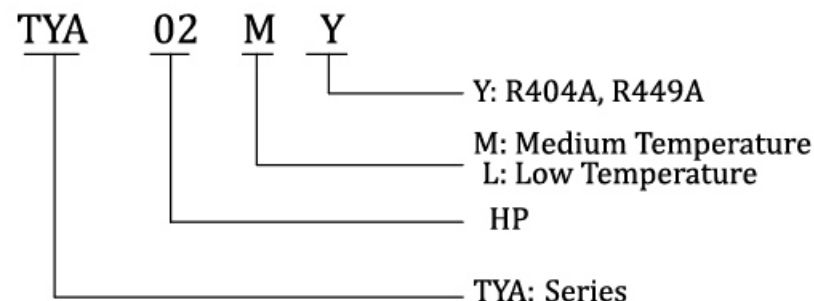
R404A

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Copeland®

Model	Ambient Temperature °C	Capacity(watts)						
		Evaporating Temperature(°C)						
		-30	-25	-20	-15	-10	-5	0
TYZ02LY	32	1470	1840	2280	2810	3440	4170	5000
	35	1310	1660	2070	2560	3130	3780	4530
	38	1150	1460	1840	2280	2790	3380	4060
	43				2020	2470	2990	3580
TYZ025LY	32	1860	2290	2820	3460	4180	5030	5980
	35	1680	2070	2550	3110	3780	4540	5410
	38	1530	1870	2300	2800	3400	4080	4860
	43				2550	3070	3680	4360
TYZ03LY	32	2030	2570	3180	3870	4660	5580	6630
	35	1760	2270	2830	3470	4180	5020	5980
	38	1570	2030	2540	3110	3750	4500	5360
	43				2840	3420	4080	4840
TYZ035LY	32	2560	3270	4040	4900	5900	7100	8520
	35	2380	3040	3730	4510	5420	6500	7800
	38	2200	2780	3410	4100	4910	5870	7060
	43				3650	4350	5200	6250
TYZ045LY	32	3280	4120	5010	6240	7590	9120	10880
	35	3010	3760	4650	5680	6890	8290	9900
	38	2750	3420	4200	5130	6200	7460	8900
	43				4590	5530	6620	7900
TYZ05LY	32	3710	4730	5810	7030	8440	10120	12120
	35	3480	4430	5420	6520	7780	9300	11110
	38	3170	4040	4930	5910	7040	8380	10000
	43				5160	6140	7310	8730
TYZ06LY	32	4680	5790	7090	8600	10340	12360	14670
	35	4290	5310	6500	7860	9450	11290	13400
	38	3900	4820	5880	7110	8530	10180	12080
	43				6330	7590	9050	10730
TYZ07LY	32	5240	6460	7900	9590	11550	13790	16330
	35	4810	5930	7250	8800	10580	12620	14930
	38	4370	5390	6590	7980	9580	11420	13490
	43				7130	8560	10180	12020

PACKAGE COPELAND SCROLL CONDENSING UNIT



- Low noise quality condensing unit
- Quick Install range 2HP -- 7HP
- Copeland scroll compressor
- Crankcase heater
- Low noise fan motor
- HP/LP pressure switch
- Sight glass
- Filter drier
- Solenoid valve
- Liquid receiver
- Oil separator(Low temperature)
- Pressure gauges
- Acoustic case lining
- Service valves
- CHINT Switch
- Schneider contactor
- Schneider overhead protector
- Carlo phase protector



ZF



ZB



ZSI

PACKAGE COPELAND ZB CONDENSING UNIT

R404A

MBP

Copeland

Model	Compressor		Condenser	Fan Motor			Dimension	Noise	Connect	
Code	Model	H.P.	Surface (m ²)	Q'ty X power	m ³ /h	Voltge	LXWXH(mm)	dist=10m	DIS	SU
TYA02MY	ZB15KQE	2	25	1X60W	1810	220V/50HZ	1020*420*840	42	3/8"	5/8"
TYA025MY	ZB19KQE	2.5	25	1X60W	1810	220V/50HZ	1020*420*840	42	3/8"	5/8"
TYA03MY	ZB21KQE	3	32	1X60W	1810	220V/50HZ	1020*420*840	43	3/8"	5/8"
TYA035MY	ZB26KQE	3.5	32	1X60W	1810	220V/50HZ	1020*420*840	43	3/8"	5/8"
TYA04MY	ZB29KQE	4	40	2X60W	3620	220V/50HZ	1020*420*1240	45	1/2"	3/4"
TYA05MY	ZB38KQE	5	50	2X60W	3620	220V/50HZ	1020*420*1240	45	1/2"	3/4"
TYA06MY	ZB45KQE	6	60	2X60W	3620	220V/50HZ	1020*420*1240	45	1/2"	3/4"

MODEL	Compressor	Cooling Capacity(watts)					
		Evaporating Temperature(°C)					
		+5°C	0°C	-5°C	-10°C	-15°C	-20°C
TYA02MY	ZB15KQE	4910	4270	3660	3100	2450	1970
TYA025MY	ZB19KQE	6200	5410	4640	3970	3210	2670
TYA03MY	ZB21KQE	7070	6180	5340	4580	3740	3110
TYA035MY	ZB26KQE	8200	7170	6230	5330	4310	3620
TYA04MY	ZB29KQE	9940	8650	7480	6400	5180	4310
TYA05MY	ZB38KQE	12290	10720	9280	7930	6440	5360
TYA06MY	ZB45KQE	14190	12410	10760	9220	7480	6250

Condensing temperature 45°C, Ambient temperature 30°C

PACKAGE COPELAND ZSI CONDENSING UNIT

R404A

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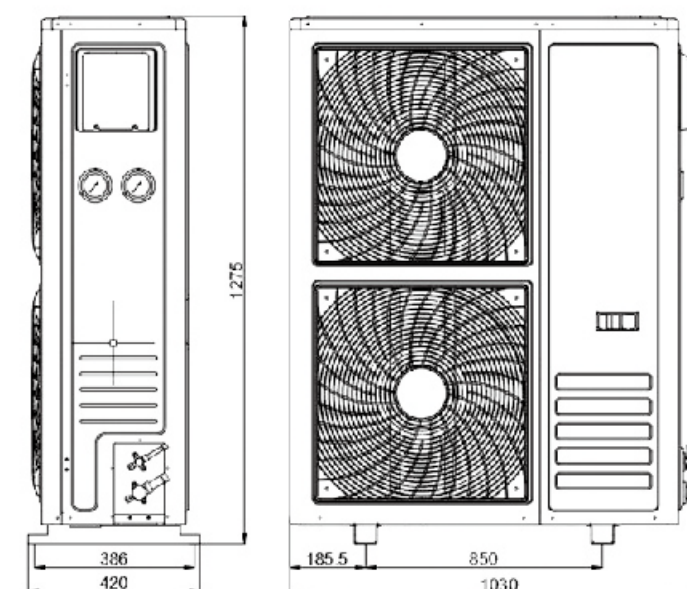
Copeland

Model	Compressor		Condenser	Axial Fan Motor			DIMENSION	Noise	Pipe Fittings	
Code	Model	H.P.	Surface (m ²)	Q'ty X power	m ³ /h	Voltage	L*W*H(mm)	dist=10m	D	S
									inch	inch
TYA02LY	ZSI06KQE	2	20	1X60W	1810	220V/50HZ	1020*420*840	42	3/8"	5/8"
TYA025LY	ZSI08KQE	2.5	20	1X60W	1810	220V/50HZ	1020*420*840	42	3/8"	5/8"
TYA03LY	ZSI09KQE	3	30	1X60W	1810	220V/50HZ	1020*420*840	43	3/8"	5/8"
TYA035LY	ZSI11KQE	3.5	32	1X60W	1810	220V/50HZ	1020*420*840	43	3/8"	5/8"
TYA04LY	ZSI14KQE	4.5	40	1X60W	1810	220V/50HZ	1020*420*840	43	1/2"	3/4"
TYA05LY	ZSI15KQE	5	50	2X60W	3620	220V/50HZ	1020*420*1240	45	1/2"	3/4"
TYA06LY	ZSI18KQE	6	60	2X60W	3620	220V/50HZ	1020*420*1240	45	1/2"	3/4"
TYA07LY	ZSI21KQE	7	70	2X60W	3620	220V/50HZ	1020*420*1240	45	1/2"	3/4"

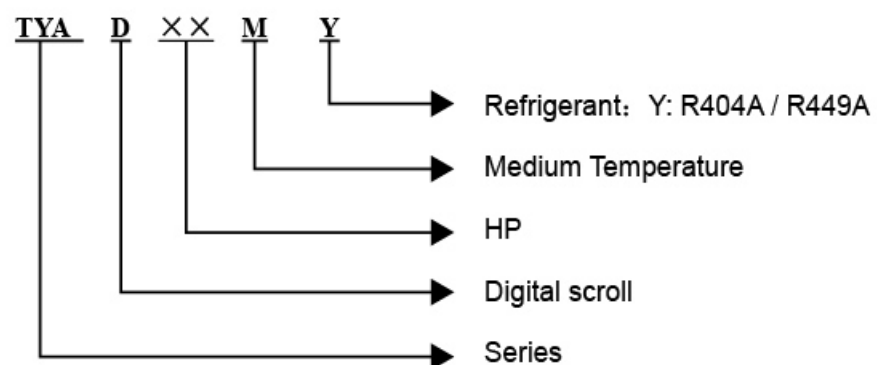
MODEL	Compressor	Cooling Capacity(Watts)						
		Evaporating Temperature(°C)						
		0°C	-5°C	-10°C	-15°C	-20°C	-25°C	-30°C
TYA02LY	ZSI06KQE	4530	3780	3130	2560	2070	1660	1310
TYA025LY	ZSI08KQE	5410	4540	3780	3110	2550	2070	1680
TYA03LY	ZSI09KQE	5980	5020	4180	3470	2830	2270	1760
TYA035LY	ZSI11KQE	7870	6560	5420	4510	3730	3040	2380
TYA04LY	ZSI14KQE	9900	8290	6890	5680	4650	3760	3010
TYA05LY	ZSI15KQE	11100	9300	7780	6520	5420	4430	3480
TYA06LY	ZSI18KQE	13400	11290	9450	7860	6500	5310	4290
TYA07LY	ZSI21KQE	14930	12620	10580	8800	7250	5930	4810

Condensing temperature 45°C, Ambient temperature 30°C

COPELAND DIGITAL SCROLL CONDENSING UNIT



COPELAND DIGITAL SCROLL CONDENSING UNIT



Main features and advantages:

Precise temperature control: 10-100% stepless energy adjustment, ensure accurate temperature control and reduce dry consumption of goods.

High reliability: Compared with other energy-adjustable technologies, because there is no oil return problem, digital scroll is more reliable

Lower structural complexity: Compared with frequency conversion technology, digital scroll compressors have lower structural complexity

Higher reliability and energy efficiency: The combination of scroll technology and mechanical unloading system can provide higher reliability and efficiency

Technical Parameter

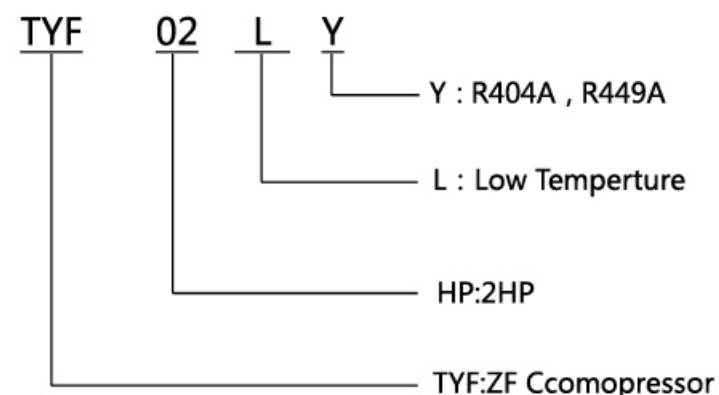
Model	Compressor		Condenser	Fan Motor			Noise	Dimension	Pipe Fitting	
	Model	HP	Area (m ²)	N° x Power	m ³ /h	Voltage	Dist=10m	LXWXH(mm)	Discharge	Suction
TYAD04MY	ZBD29KQE	4	40	2X80W	3620	220V/50HZ	42	1030*420*1275	1/2"	7/8"
TYAD05MY	ZBD38KQE	5	49	2X80W	3620	220V/50HZ	42	1030*420*1275	1/2"	7/8"
TYAD06MY	ZBD45KQE	6	60	2X80W	3620	220V/50HZ	42	1030*420*1275	1/2"	7/8"
TYAD07MY	ZBD48KQE	7	70	2X80W	3620	220V/50HZ	42	1030*420*1275	1/2"	7/8"

Cooling Capacity performance

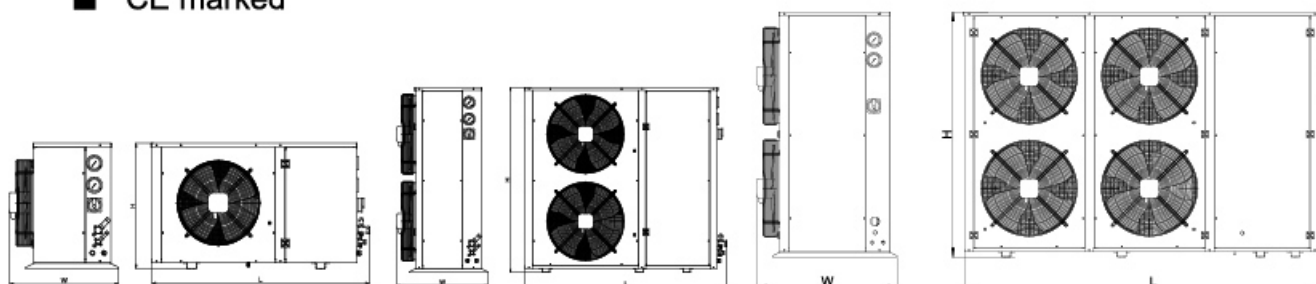
R404A

MODEL	Compressor Model	Ambient Temp °C	Evaporating Temperature (°C)							
				- 20	- 15	- 10	- 5	0	5	10
TYAD04MY	ZBD29KQE	Q (KW)	32	5.04	6.14	7.40	8.86	10.55	12.50	14.75
			38	4.21	5.11	6.15	7.36	8.76	10.40	12.30
			43	—	3.97	4.77	5.70	6.80	8.10	9.62
		P (KW)	32	2.79	2.88	2.94	2.98	3.02	3.07	3.14
			38	3.44	3.57	3.66	3.71	3.74	3.77	3.82
			43	—	4.63	4.73	4.79	4.82	4.83	4.85
TYAD05MY	ZBD38KQE	Q (KW)	32	6.28	7.64	9.23	11.05	13.15	15.50	18.20
			38	5.33	6.46	7.77	9.29	11.05	13.05	15.30
			43	—	6.15	6.14	7.30	8.66	10.25	12.05
		P (KW)	32	3.53	3.68	3.83	3.95	4.06	4.15	4.21
			38	4.17	4.34	4.51	4.66	4.80	4.91	5.00
			43	—	5.19	5.37	5.54	5.69	5.83	5.95
TYAD06MY	ZBD45KQE	Q (KW)	32	7.47	9.09	10.95	13.15	15.65	18.45	21.60
			38	6.35	7.69	9.24	11.05	13.15	15.50	18.20
			43	—	6.12	7.30	8.68	10.30	12.15	14.30
		P (KW)	32	3.56	4.36	4.53	4.68	4.81	4.92	4.98
			38	4.18	5.15	5.34	5.53	5.69	5.83	5.94
			43	—	6.17	6.38	6.58	6.77	6.93	7.07
TYAD07MY	ZBD48KQE	Q (KW)	32	8.40	10.25	12.35	14.80	17.60	20.80	24.30
			38	7.14	8.65	10.40	12.45	14.75	17.45	20.50
			43	—	6.89	8.21	9.77	11.60	13.70	16.10
		P (KW)	32	4.57	4.77	4.96	5.13	5.27	5.39	5.46
			38	5.41	5.64	5.85	6.05	6.23	6.39	6.51
			43	—	6.76	6.99	7.21	7.41	7.59	7.74

BOX TYPE COPELAND SCROLL ZF CONDENSING UNIT



- Low noise quality condensing unit
- Quick Install range 2HP -- 15 HP
- Copeland scroll **ZF** compressor
- Crankcase heater
- Axial fan motor 6 pole with low noise
- Emerson HP/LP pressure switch
- Emerson sight glass
- Emerson filter drier
- Liquid receiver
- Pressure gauges
- Acoustic case lining
- Service valves
- Siemens switch
- Schneider AC contactor
- Schneider overload protector
- Carlo phase protector
- Oil separator
- Suction accumulator
- Alco fan speed controller(Optional)
- CE marked



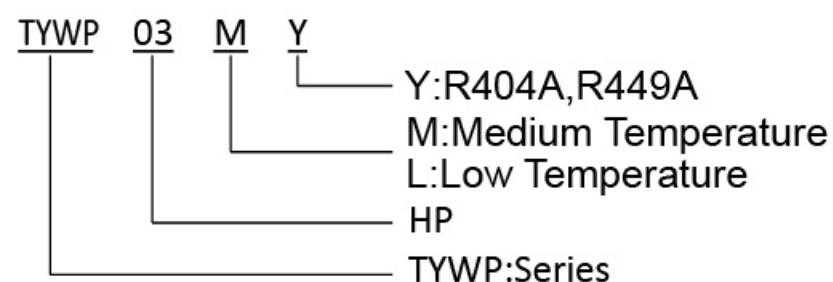
Box type Copeland scroll ZF condensing unit

Model	Compressor		Condenser	Axial Fan				Dimension	Connect	
	Model	H.P.	Surface (m ²)	N°xΦ	Air Flow m ³ /h	Noise dist=10 m	Voltage	LXWXH(mm)	Dis	Suction
TYF02LY	ZF06KQE	2	20	1X450	3775	46	220V/50HZ	1228*620*632	3/8"	3/4"
TYF025LY	ZF08KQE	2.5	27	1X450	3775	46	220V/50HZ	1228*620*632	3/8"	3/4"
TYF03LY	ZF09KQE	3	30	1X500	5705	48	220V/50HZ	1285*620*732	3/8"	3/4"
TYF035LY	ZF11KQE	3.5	35	1X500	5705	48	220V/50HZ	1285*620*732	3/8"	3/4"
TYF04LY	ZF13KQE	4	40	1X500	5705	48	220V/50HZ	1285*620*732	1/2"	7/8"
TYF05LY	ZF15KQE	5	52	2X500	11410	52	220V/50HZ	1285*620*1232	1/2"	7/8"
TYF06LY	ZF18KQE	6	69	2X500	11410	52	220V/50HZ	1285*620*1232	1/2"	7/8"
TYF075LY	ZF25KQE	7.5	69	2X500	11410	52	220V/50HZ	1285*620*1232	5/8"	7/8"
TYF09LY	ZF28KQE	9	101	2X500	11410	52	220V/50HZ	1510*620*1232	5/8"	7/8"
TYF10LY	ZF34KQE	10	101	2X500	11410	52	220V/50HZ	1510*620*1232	5/8"	1-3/8"
TYF13LY	ZF41KQE	13	128	4X500	22820	54	220V/50HZ	2005*770*1333	5/8"	1-3/8"
TYF15LY	ZF49KQE	15	160	4X500	22820	54	220V/50HZ	2005*770*1333	7/8"	1-3/8"

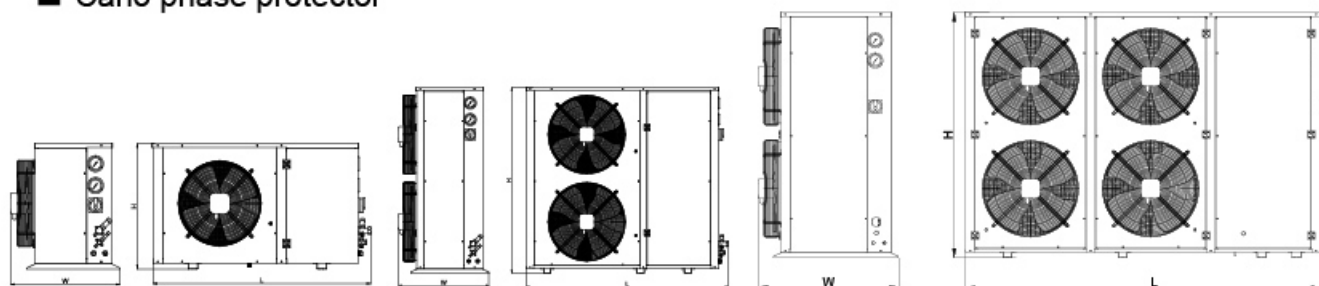
Model	Compressor	Cooling Capacity(Watts)							
		Evaporating Temperature(°C)							
		0°C	-5°C	-10°C	-15°C	-20°C	-25°C	-30°C	-40°C
TYF02LY	ZF06KQE	4700	3960	3320	2770	2290	1880	1530	970
TYF025LY	ZF08KQE	5780	4870	4090	3400	2820	2320	1890	1190
TYF03LY	ZF09KQE	6520	5500	4600	3830	3160	2590	2110	1340
TYF035LY	ZF11KQE	8040	6780	5670	4720	3890	3190	2590	1650
TYF04LY	ZF13KQE	9410	7930	6630	5510	4550	3720	3020	1930
TYF05LY	ZF15KQE	11460	9680	8110	6740	5560	4540	3680	2340
TYF06LY	ZF18KQE	13730	11550	9650	7990	6560	5340	4300	2690
TYF075LY	ZF25KQE		14480	12090	10020	8220	6690	5390	3370
TYF09LY	ZF28KQE		17020	14210	11770	9660	7860	6330	3960
TYF10LY	ZF34KQE		19060	15950	13220	10840	8790	7030	4220
TYF13LY	ZF41KQE		22150	18560	15430	12720	10380	8360	5090
TYF15LY	ZF49KQE					15710	12720	10160	6230

Condensing temperature 45°C, Ambient temperature 30°C

PANASONIC SCROLL CONDENSING UNIT



- Low noise quality Condensing unit: 3-15HP
- Panasonic scroll compressor
- Crankcase heater
- Low noise fan motor
- Emerson HP/LP pressure switch
- Emerson Sight glass
- Emerson Filter drier
- Emerson Solenoid valve
- Liquid receiver
- Oil separator(Low temperature)
- Suction accumulator(Low temperature)
- Pressure gauges
- Service valves
- Siemens Switch
- Schneider AC contactor
- Schneider overload protector
- Carlo phase protector



PANASONIC SCROLL CONDENSING UNIT

MBP

Model	Compressor		Condenser	Axial Fan Motor			Dimension	Noise	Connect	
Code	Model	H.P.	Surface(m ²)	N° X Φ	m ³ /h	voltage	L*W*H(mm)	dist=10m	D	S
TYWP03MY	3CB052SA0M	3	24.2	1X450	3775	220V/50HZ	1120*570*633	46	3/8"	7/8"
TYWP04MY	3CB067SA0M	4	41.4	1X500	5705	220V/50HZ	1270*620*832	47	1/2"	7/8"
TYWP05MY	3CB084SA0M	5	51.2	1X500	5705	220V/50HZ	1270*620*832	48	1/2"	7/8"
TYWP06MY	3CB100SA0M	6	61.1	1X500	5705	220V/50HZ	1270*620*832	48	1/2"	7/8"
TYWP07MY	3CB110SA0M	7	64.4	2X500	11410	220V/50HZ	1335*620*1233	52	5/8"	7/8"
TYWP08MY	3CC137LA0M	8	76.9	2X500	11410	220V/50HZ	1335*620*1233	52	5/8"	1-1/8"
TYWP09MY	3CC149LA0M	9	88.3	2X500	11410	220V/50HZ	1335*620*1233	52	5/8"	1-1/8"
TYWP10MY	3CC171LA0M	10	96.1	2X500	11410	220V/50HZ	1335*620*1233	52	5/8"	1-1/8"
TYWP12MY	3CC205LA0M	12	128.6	4X500	22820	220V/50HZ	2005*770*1333	54	5/8"	1-1/8"
TYWP15MY	3CC260LA0M	15	160.6	4X500	22820	220V/50HZ	2005*770*1333	54	7/8"	1-3/8"

Model	Compressor	Cooling Capacity(Watts)						
		Evaporating Temperature(°C)						
		-20	-15	-10	-6.5	0	5	10
TYWP03MY	3CB052SA0M	3.40	4.07	4.87	5.53	6.99	8.37	10.02
TYWP04MY	3CB067SA0M	4.34	5.21	6.25	7.10	9.01	10.81	12.97
TYWP05MY	3CB084SA0M	5.34	6.44	7.79	8.88	11.22	13.31	15.63
TYWP06MY	3CB100SA0M	6.30	7.61	9.23	10.55	13.40	15.95	18.80
TYWP07MY	3CB110SA0M	7.18	8.58	10.24	11.59	14.59	17.42	20.80
TYWP08MY	3CC137LA0M	8.83	10.53	12.57	14.23	17.91	21.37	25.50
TYWP09MY	3CC149LA0M	9.60	11.45	13.67	15.47	19.47	23.24	27.74
TYWP10MY	3CC171LA0M	11.03	13.15	15.67	17.72	22.26	26.53	31.61
TYWP12MY	3CC205LA0M	12.62	15.06	17.98	20.34	25.60	30.55	36.46
TYWP15MY	3CC260LA0M		20.08	23.65	26.57	33.21	39.63	45.95

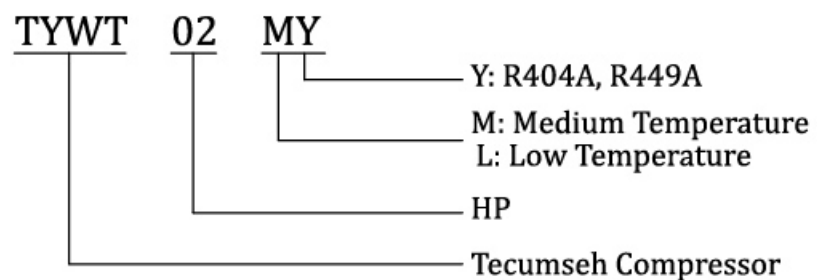
Condensing temperature 45°C, Ambient temperature 30°C

LBP

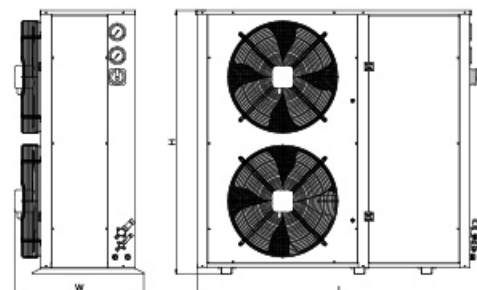
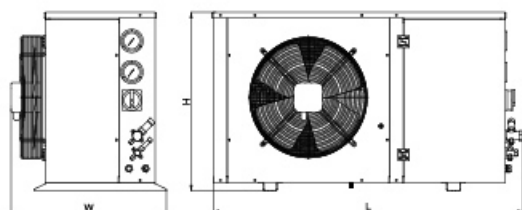
Model	Compressor		Condenser	Axial Fan Motor			Dimension	Noise	Connect	
Code	Model	H.P.	Surface(m ²)	N° X Φ	m ³ /h	voltage	L*W*H(mm)	dist=10m	D	S
TYWP04LY	C-SBN303L8A	4	32.2	1X450	3775	220V/50HZ	1020*420*840	47	1/2"	7/8"
TYWP05LY	C-SBN373L8A	5	41.1	1X500	5705	220V/50HZ	1020*420*1240	47	1/2"	7/8"
TYWP06LY	C-SBN453L8A	6	51.2	1X500	5705	220V/50HZ	1020*420*1240	48	1/2"	7/8"
TYWP07LY	3CC120SA03	7	61.1	1X500	5705	220V/50HZ	1020*420*1240	48	1/2"	7/8"
TYWP08LY	3CC137SA03	8	64.4	2X500	11410	220V/50HZ	1370*620*1233	52	5/8"	7/8"
TYWP10LY	3CC171SA03	10	88.3	2X500	11410	220V/50HZ	1370*620*1233	52	5/8"	1-1/8"
TYWP12.5LY	3CC216SA03	12.5	128.6	4X500	22820	220V/50HZ	2005*770*1333	54	5/8"	1-1/8"

Model	Compressor	Cooling Capacity(Watts)								
		Evaporating Temperature(°C)								
		-45	-40	-35	-30	-25	-20	-15	-10	-5
TYWP04LY	C-SBN303L8A	1.35	1.68	2.13	2.73	3.45	4.31	5.30	6.42	7.68
TYWP05LY	C-SBN373L8A	1.57	2.01	2.60	3.35	4.25	5.30	6.50	7.86	9.36
TYWP06LY	C-SBN453L8A	1.99	2.48	3.10	3.87	4.84	6.04	7.55	9.43	11.78
TYWP07LY	3CC120SA03	2.80	3.43	4.19	5.12	6.26	7.65	9.35	11.43	13.97
TYWP08LY	3CC137SA03	3.02	3.70	4.53	5.55	6.80	8.33	10.20	12.49	15.30
TYWP10LY	3CC171SA03	3.19	4.26	5.58	7.15	8.95	11.01	13.30	15.84	18.62
TYWP12.5LY	3CC216SA03	4.51	5.60	6.96	8.65	10.75	13.36	16.60	20.63	25.64

Condensing temperature 45°C, Ambient temperature 30°C

PACKAGE **TECUMSEH** CONDENSING UNIT

- Low noise quality condensing unit
- Quick Install range 3/4HP -- 7 HP
- Tecumseh compressor
- Crankcase heater
- Axial fan motor 6 pole with low noise
- Emerson HP/LP pressure switch
- Emerson sight glass
- Emerson filter drier
- Liquid receiver
- Pressure gauges
- Acoustic case lining
- Service valves
- Siemens switch
- Schneider AC contactor
- Schneider overload protector
- Oil separator(for low temperature)
- Suction accumulator(for low temperature)
- Alco fan speed controller(Optional)
- CE marked

PACKAGE **TECUMSEH** CONDENSING UNIT

R404A

MBP



Model	Compressor		Condenser	Axial Fan Motor			Dimension	Noise	Connect	
	Model	HP	Surface(m ²)	N°xΦ	Air Flow m ³ /h	Voltage	LXWXH (mm)	dist=10m dBA	D inch	S inch
TYWT0.6MY	CAJ9480Z	3/4	7.4	1x350	1615	220V/50HZ	1060*570*533	36	3/8"	1/2"
TYWT01MY	CAJ9510Z	1	11.3	1x400	3295	220V/50HZ	1060*570*533	38	3/8"	5/8"
TYWT1.7MY	CAJ4519Z	1.7	17	1x400	3295	220V/50HZ	1060*570*533	38	3/8"	5/8"
TYWT02MY	TFH4524Z	2	19	1x400	3295	220V/50HZ	1120*570*633	38	3/8"	5/8"
TYWT03MY	TFH4531Z	3	24	1x450	3775	220V/50HZ	1120*570*633	40	3/8"	7/8"
TYWT04MY	TAG4546Z	4	41.4	1x500	5705	220V/50HZ	1270*620*832	48	1/2"	7/8"
TYWT05MY	TAG4561Z	5	51.2	1x500	5705	220V/50HZ	1270*620*832	48	1/2"	1-1/8"
TYWT06MY	TAG4568Z	6	61.1	1x500	5705	220V/50HZ	1270*620*832	48	1/2"	1-1/8"
TYWT07MY	TAG4573Z	7	64.4	2x500	11410	220V/50HZ	1370*620*1233	50	5/8"	1-1/8"

Model	Compressor	Cooling Capacity(watts)					
		Evaporating Temperature (°C)					
		+5°C	0°C	-5°C	-10°C	-15°C	-20°C
TYWT0.6MY	CAJ9480Z	2217	1784	1420	1115	859	642
TYWT01MY	CAJ9510Z	2768	2230	1779	1400	1083	815
TYWT1.7MY	CAJ4519Z	5139	4151	3313	2599	1989	1460
TYWT02MY	TFH4524Z	6175	4921	3841	2915	2122	1446
TYWT03MY	TFH4531Z	8448	6812	5417	4223	3194	2300
TYWT04MY	TAG4546Z	11779	9156	6979	5179	3699	2484
TYWT05MY	TAG4561Z	14611	11525	8940	6782	4970	3429
TYWT06MY	TAG4568Z	16986	13500	10565	8109	6065	4373
TYWT07MY	TAG4573Z	18210	14504	11398	8803	6638	4831

Condensing temperature 45°C, Ambient temperature 30°C

PACKAGE TECUMSEH CONDENSING UNIT

R404A

LBP



Model	Compressor		Condenser	Axial Fan Motor			Dimension	Noise	Connect	
	Model	HP	Surface(m²)	N°xΦ	Air Flow m³/h	Voltage	LXWXH (mm)	dist=10m dBA	D inch	S inch
TYWT01LY	CAJ2446Z	1	7.4	1x350	1615	220V/50HZ	1060*570*533	36	3/8"	1/2"
TYWT1.5LY	CAJ2464Z	1.5	11.3	1x400	3295	220V/50HZ	1060*570*533	38	3/8"	5/8"
TYWT02LY	TFH2480Z	2	17	1x400	3295	220V/50HZ	1060*570*533	38	3/8"	5/8"
TYWT03LY	TFH2511Z	3	19	1x400	3295	220V/50HZ	1120*570*633	38	3/8"	5/8"
TYWT04LY	TAG2516Z	4	24	1x450	3775	220V/50HZ	1120*570*633	40	3/8"	7/8"
TYWT06LY	TAG2522Z	6	51.2	1x500	5705	220V/50HZ	1270*620*832	48	1/2"	1-1/8"

Model	Compressor	Cooling Capacity(watts)					
		Evaporating Temperature(°C)					
		-10°C	-15°C	-20°C	-25°C	-30°C	-35°C
TYWT01LY	CAJ2446Z	2451	1974	1560	1203	898	638
TYWT1.5LY	CAJ2464Z	3131	2523	1998	1551	1170	847
TYWT02LY	TFH2480Z	4532	3674	2910	2229	1625	1089
TYWT03LY	TFH2511Z	6587	5204	4019	3014	2174	1477
TYWT04LY	TAG2516Z	9602	7593	5856	3708	3191	2264
TYWT06LY	TAG2522Z	11819	9293	7162	5378	3896	2667

CONDENSING TEMPERATURE: 45°C, AMBIENT TEMPERATURE: 30°C

PACKAGE INVOTECH CONDENSING UNIT

TYWM 02 MY

Y: R404A, R449A, R452A

M: Medium Temperature

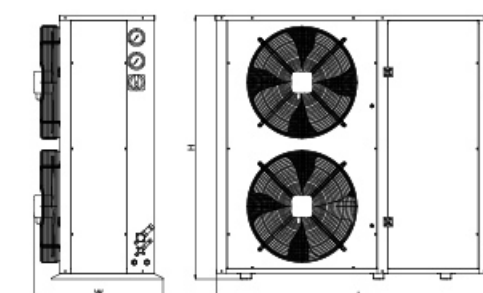
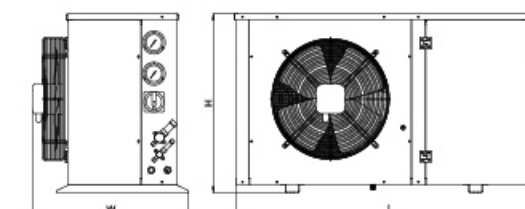
L: Low Temperature

HP

TYWM: INVOTECH 50HZ

TYWN: INVOTECH 60HZ

- Quick Install range 2HP -- 10HP
- INVOTECH scroll compressor
- Crankcase heater
- Axial fan motor 6 pole with low noise
- HP/LP pressure switch
- Sight glass
- Filter drier
- Liquid receiver
- Pressure gauges
- Acoustic case lining
- Service valves
- Siemens switch
- Schneider AC contactor
- Schneider overload protector
- Carlo phase protector
- Timer delay
- Oil separator(for low temperature)
- Suction accumulator (for low temperature)
- CE marked



PACKAGE INVOTECH SCROLL CONDENSING UNIT

R404A

INVOTECH

Model	Compressor		Condenser	Axial Fan Motor				Dimension	Connect	
	Model	H.P.	Surface (m ²)	N°xΦ	Air Flow m ³ /h	Noise dist=10m	Voltage	LXWXH(mm)	Dis	Suction
TYWM02MY	YM34E2G-100	2	19.5	1X400	3295	44	220V/50HZ	1120*570*633	3/8"	7/8"
TYWM025MY	YM43E2G-100	2.5	24.2	1X450	3775	46	220V/50HZ	1120*570*633	3/8"	7/8"
TYWM03MY	YM49E2G-100	3	32	1X450	3775	46	220V/50HZ	1120*570*633	3/8"	7/8"
TYWM04MY	YM70E1G-100	4	41.4	1X500	5705	47	220V/50HZ	1270*620*832	1/2"	7/8"
TYWM05MY	YM86E1G-100	5	51.2	1X500	5705	48	220V/50HZ	1270*620*832	1/2"	7/8"
TYWM06MY	YM102E1G-100	6	61.1	1X500	5705	48	220V/50HZ	1270*620*832	1/2"	7/8"
TYWM07MY	YM125E1G-100	7	64.4	2X500	11410	52	220V/50HZ	1370*620*1233	5/8"	1-1/8"
TYWM08MY	YM132E1G-100	8	76.9	2X500	11410	52	220V/50HZ	1370*620*1233	5/8"	1-1/8"
TYWM09MY	YM158E1G-100	9	88.3	2X500	11410	52	220V/50HZ	1370*620*1233	5/8"	1-1/8"
TYWM10MY	YM182E1G-100	10	96.1	2X500	11410	52	220V/50HZ	1370*620*1233	5/8"	1-1/8"

Model	Compressor	Refrigeration Capacity (watts)							
		Evaporating Temperature (°C)							
		+5°C	0°C	-5°C	-10°C	-15°C	-20°C	-25°C	-30°C
TYWM02MY	YM34E2G-100	5214	4373	3659	3041	2478	2045	1577	1110
TYWM025MY	YM43E2G-100	6614	5548	4640	3858	3142	2594	2000	1408
TYWM03MY	YM49E2G-100	7544	6328	5293	4400	3585	2958	2282	1605
TYWM04MY	YM70E1G-100	11027	9250	7738	6432	5240	4324	3335	2348
TYWM05MY	YM86E1G-100	13516	11339	9484	7885	6422	5300	4088	2876
TYWM06MY	YM102E1G-100	16030	13448	11248	9350	7616	6286	4848	3412
TYWM07MY	YM125E1G-100	18736	15718	13147	10928	8902	7348	5668	3988
TYWM08MY	YM132E1G-100	19948	16734	13996	11635	9478	7822	6034	4245
TYWM09MY	YM158E1G-100	23584	19784	16548	13755	11205	9248	7134	5018
TYWM10MY	YM182E1G-100	27125	22755	19033	15822	12888	10636	8205	5772

CONDENSING TEMPERATURE: 45°C, AMBIENT TEMPERATURE: 30°C

220V/60HZ

PACKAGE INVOTECH SCROLL CONDENSING UNIT

R404A

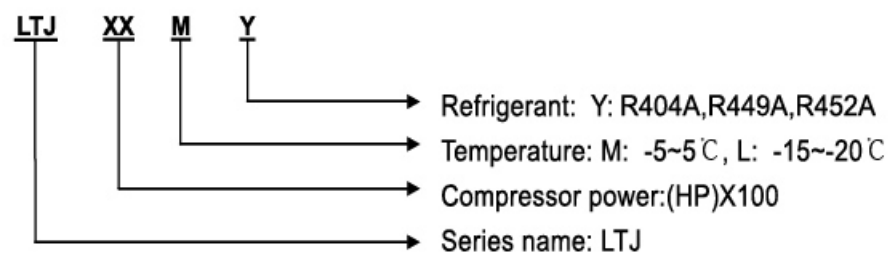
INVOTECH

Model	Compressor			Condenser	Axial Fan Motor				Dimension	Connect	
	Model	Voltage	H.P.	Surface (m ²)	N°xΦ	Air Flow m ³ /h	Noise dist=10m	Voltage	LXWXH(mm)	Dis	Suction
TYWN02MY	YM34E3G-100	220V/60HZ	2	24	1X450	3775	50	220V/60HZ	1120*570*633	3/8"	3/4"
TYWN025MY	YM43E3G-100	220V/60HZ	2.5	24	1X450	3775	52	220V/60HZ	1120*570*633	3/8"	3/4"
TYWN03MY	YM49E3G-100	220V/60HZ	3	32	1X450	3775	52	220V/60HZ	1120*570*633	3/8"	3/4"
TYWN04MY	YM70E3G-100	220V/60HZ	4	50	1X500	5705	53	220V/60HZ	1270*620*832	1/2"	3/4"
TYWN05MY	YM86E7G-100	220V/60HZ/3PH	5	60	1X500	5705	55	220V/60HZ	1270*620*832	1/2"	7/8"
TYWN06MY	YM102E7G-100	220V/60HZ/3PH	6	65	2X500	11410	55	220V/60HZ	1370*620*1233	1/2"	7/8"
TYWN07MY	YM125E7G-100	220V/60HZ/3PH	7	76	2X500	11410	55	220V/60HZ	1370*620*1233	5/8"	7/8"
TYWN08MY	YM132E7G-100	220V/60HZ/3PH	8	88	2X500	11410	55	220V/60HZ	1370*620*1233	5/8"	1-1/8"
TYWN09MY	YM158E7G-100	220V/60HZ/3PH	9	96	2X500	11410	55	220V/60HZ	1370*620*1233	5/8"	1-3/8"
TYWN10MY	YM182E7G-100	220V/60HZ/3PH	10	114	2X500	11410	58	220V/60HZ	1370*620*1233	5/8"	1-3/8"

Model	Compressor	Refrigeration Capacity (watts)							
		Evaporating Temperature (°C)							
		+5°C	0°C	-5°C	-10°C	-15°C	-20°C	-25°C	-30°C
TYWN02MY	YM34E3G-100	6308	5292	4426	3679	2997	2473	1908	1342
TYWN025MY	YM43E3G-100	8002	6712	5614	4667	3802	3138	2420	1703
TYWN03MY	YM49E3G-100	9128	7658	6405	5324	4337	3579	2760	1942
TYWN04MY	YM70E7G-100	13342	11192	9361	7782	6339	5232	4035	2839
TYWN05MY	YM86E7G-100	16354	13719	11474	9539	7770	6413	4947	3479
TYWN06MY	YM102E7G-100	19396	16270	13609	11313	9215	7605	5866	4128
TYWN07MY	YM125E7G-100	22858	19174	16038	13332	10861	8963	6913	4864
TYWN08MY	YM132E7G-100	26529	21421	16937	13163	10189	8099	6985	6539
TYWN09MY	YM158E7G-100	28771	24135	20188	16781	13671	11281	8702	6123
TYWN10MY	YM182E7G-100	33093	27760	23220	19302	15724	12976	10009	7042

CONDENSING TEMPERATURE: 45°C, AMBIENT TEMPERATURE: 30°C

MONOBLOCK UNIT



HOT GAS DEFROSTING

R404A/R448A

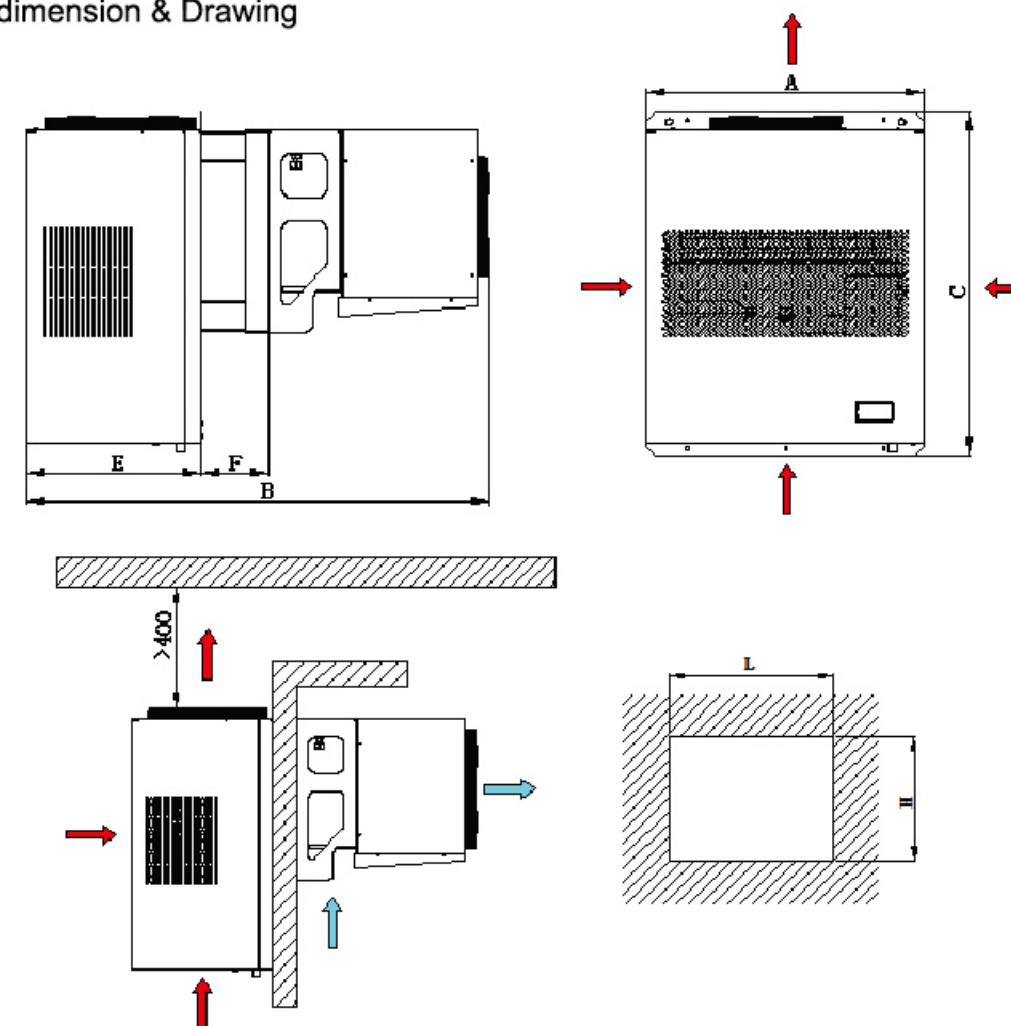
Model	Voltage	Compressor			Condenser fans			Evaporator fans				Cooling Capacity(W) Ta=38°C			Cold room volume	Weight
		HP	KW	Model	Input power (w)	N°x Ø	m³/h	Input power (w)	N°x Ø	m³/h	Distance (m)	Te=-10°C	Te=-5°C	Te=0°C	m³	
LTJ33MY	230/1/50	1/3	0.53	AEZ3440Z	1x75	1x250	1000	1x75	1x250	1000	3	465	588	731	3-6	57
LTJ50MY	230/1/50	1/2	0.81	CAE9460Z	1x75	1x250	1000	1x75	1x250	1000	3	695	875	1080	6-9	60
LTJ63MY	230/1/50	5/8	1.05	CAE9470Z	1x75	1x250	1000	1x75	1x250	1000	3	840	1056	1300	10-14	62
LTJ100MY	230/1/50	1	1.56	CAJ9510Z	1x80	1x300	1650	1x80	1x300	1650	5	1222	1524	1866	15-20	87
LTJ125MY	230/1/50	1.25	2.23	CAJ4517Z	1x80	1x300	1650	1x80	1x300	1650	5	1672	2098	2574	21-25	90
LTJ175MY	230/1/50	1.75	2.95	CAJ4518Z	1x80	1x300	1650	1x80	1x300	1650	5	2235	2807	3431	26-35	117
LTJ200MY	230/1/50	2	3.25	FH4524Z	1x80	1x300	1650	1x80	1x300	1650	5	2540	3210	3934	36-40	120
LTJ275MY	400/3/50	2.75	4.4	TFH4531Z	2x80	2x300	3300	2x80	2x300	3300	7	3305	4194	5081	41-50	150
LTJ350MY	400/3/50	3.5	5.2	TFH4540Z	2x80	2x300	3300	2x80	2x300	3300	7	4174	5145	6178	51-60	155
LTJ400MY	400/3/50	4	5.8	TAG4546Z	2x150	2x350	4700	2x150	2x350	4700	10	4414	5825	7473	61-80	195
LTJ500MY	400/3/50	5	7.5	TAG4561Z	2x150	2x350	4700	2x150	2x350	4700	10	5825	7518	9455	81-100	215

Suction gas temp. +20°C

Model	Voltage	Compressor			Condenser fans			Evaporator fans				Cooling Capacity(W) Ta=38°C			Cold room volume	Weight
		HP	KW	Model	Input power (w)	N°x Ø	m³/h	Input power (w)	N°x Ø	m³/h	Distance (m)	Te=-25°C	Te=-20°C	Te=-15°C	m³	
LTJ50LY	230/1/50	1/2	0.55	CAE2420Z	1x75	1x250	1000	1x75	1x250	1000	3	502	634	793	2-3	60
LTJ63LY	230/1/50	3/5	0.66	CAE2424Z	1x75	1x250	1000	1x75	1x250	1000	3	608	760	934	3-4	62
LTJ100LY	230/1/50	1	0.75	CAJ2446Z	1x80	1x300	1650	1x80	1x300	1650	6	1102	1380	1725	4-5	88
LTJ150LY	230/1/50	1.5	1.05	CAJ2464Z	1x80	1x300	1650	1x80	1x300	1650	6	1441	1793	2216	5-8	92
LTJ200LY	230/1/50	2	1.58	FH2480Z	1x80	1x300	1650	1x80	1x300	1650	6	1935	2511	3183	8-10	123
LTJ300LY	400/3/50	3	2.06	TFH2511Z	1x80	1x300	1650	1x80	1x300	1650	6	2757	3484	4369	11-20	128
LTJ400LY	400/3/50	4	3.1	TAG2516Z	2x80	2x300	3300	2x80	2x300	3300	8	3792	4906	6237	21-35	160
LTJ600LY	400/3/50	6	5.2	TAG2522Z	2x150	2x350	4700	2x150	2x350	4700	11	5245	6350	8275	36-50	230

Suction gas temp. 0°C

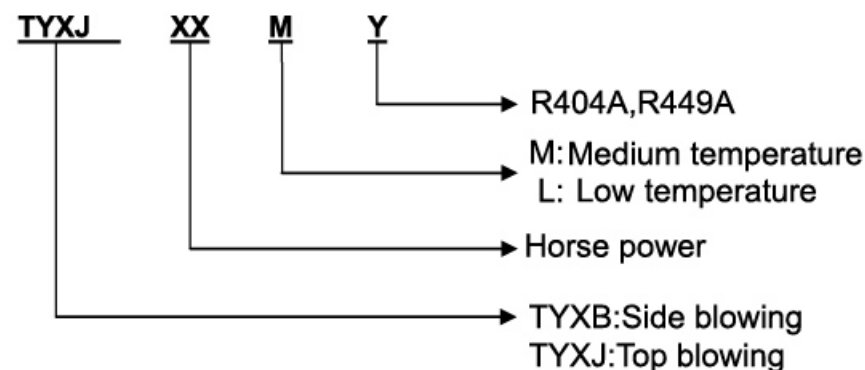
Overall dimension & Drawing



Model	LTJ33MY	LTJ50MY	LTJ63MY	LTJ100MY	LTJ125MY	LTJ175MY	LTJ200MY	LTJ275MY	LTJ350MY	LTJ400MY	LTJ500MY
A	490	490	490	620	620	800	800	1090	1090	1206	1206
B	970	970	970	995	995	995	995	995	995	1207	1207
C	665	665	665	765	765	765	765	765	765	910	910
E	340	340	340	390	390	390	390	390	390	490	490
F	100	100	100	100	100	100	100	100	100	100	100
L	476	476	476	607	607	786	786	1077	1077	1195	1195
H	404	404	404	470	470	470	470	470	470	595	595

Model	LTJ50LY	LTJ63LY	LTJ100LY	LTJ150LY	LTJ200LY	LTJ300LY	LTJ400LY	LTJ600LY
A	490	490	620	620	800	800	1090	1206
B	1020	1020	1045	1045	1045	1045	1045	1257
C	665	665	765	765	765	765	765	910
E	340	340	390	390	390	390	390	490
F	150	150	150	150	150	150	150	150
L	476	476	607	607	786	786	1077	1195
H	404	404	470	470	470	470	470	595

PACKAGE BITZER CONDENSING UNIT



Standard Features

- Bitzer semi hermetic compressor
- Crankcase heater
- Air cooled condenser
- Axial fan
- Liquid receiver
- Emerson HP/LP controls
- Pressure gauges
- Emerson filter drier
- Emerson sight glass
- Oil separator (5HP-50HP Medium temperature, 5HP-44HP Low temperature)
- Vibration absorber (5HP-50HP Medium temperature, 5HP-44HP Low temperature)
- Oil pressure difference controls (TYXJ25M~TYXJ50M, TYXJ18L~TYXJ44L)
- Emerson solenoid valve
- Head fan (TYXJ34L~TYXJ44L)

Options:

- Fan speed controls
- Suction accumulator
- Fully wired control panel



(2-12HP MBP)
(2-14HP LBP)



(15-50HP MBP)
(18-44HP LBP)

PACKAGE BITZER CONDENSING UNIT

R404A

MBP



Model	Compressor	H.P.	Condenser	Cooling Capacity(Watts)				Axial Fan			Connect		Dimension(mm)		
			surface (m ²)	Te 0°C	Te -5°C	Te -10°C	Te -15°C	Q'ty X DIA	Air Flow (m ³ /H)	Power (W)	Suction	Liquid	L	W	H
TYXB02MY	2GES-2Y	2	20	4620	3820	3740	2510	2X350	4700	260	5/8"	3/8"	1265	890	635
TYXB03MY	2DES-3Y	3	30	8780	7270	5940	4790	2X350	4700	260	7/8"	1/2"	1265	890	635
TYXB04MY	2CES-4Y	4	40	10830	8990	7380	5990	2X400	7980	260	7/8"	1/2"	1265	890	835
TYXB05MY	4FES-5Y	5	50	11760	9740	7960	6440	2X400	7980	450	7/8"	1/2"	1265	890	835
TYXB06MY	4EES-6Y	6	60	14860	12250	9990	8050	2X400	7980	450	1-1/8"	1/2"	1265	890	835
TYXB07MY	4DES-7Y	7	69	18060	14910	12190	9830	2X500	13320	260X2	1-1/8"	5/8"	1465	890	1035
TYXB09MY	4CES-9Y	9	91	22050	18140	14770	11870	2X500	13320	260X2	1-1/8"	5/8"	1465	890	1035
TYXB10MY	4VES-10Y	10	103	23070	18790	15110	11950	2x500	13320	450X2	1-1/8"	5/8"	1465	890	1035
TYXB12MY	4TES-12Y	12	120	27930	22830	18440	14690	2x500	13320	450X2	1-3/8"	5/8"	1465	890	1035
TYXJ15MY	4PES-15Y	15	150	31750	25820	20730	16350	2X630	24300	800X2	1-5/8"	7/8"	1765	1080	1902
TYXJ20MY	4NES-20Y	20	200	37920	31060	25130	20040	2X630	24300	800X2	1-5/8"	7/8"	1765	1080	1902
TYXJ25MY	4HE-25Y	25	230	49680	41060	33560	27040	2X630	24300	800X2	2-1/8"	7/8"	2105	1313	2056
TYXJ30MY	4GE-30Y	30	290	56740	47040	38510	31160	2X630	24300	800X2	2-1/8"	7/8"	2105	1313	2056
TYXJ35MY	6HE-35Y	35	320	73010	60370	49390	39830	3X630	36450	800X3	2-1/8"	1-1/8"	3095	1134	2042
TYXJ40MY	6GE-40Y	40	400	82410	68500	56250	45620	3X630	36450	800X3	2-1/8"	1-1/8"	3095	1134	2042
TYXJ50MY	6FE-50Y	50	500	100150	83400	68700	55950	3X630	36450	800X3	2-1/8"	1-1/8"	3095	1134	2042

CONDENSING TEMPERATURE: 45°C, AMBIENT TEMPERATURE: 30°C

PACKAGE BITZER CONDENSING UNIT

R404A

LBP



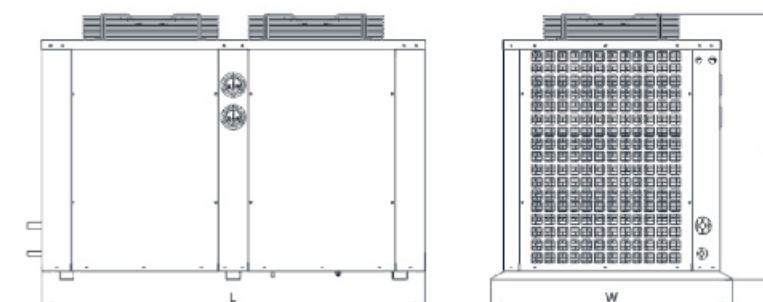
Model	Compressor	H.P.	Condenser	Cooling Capacity(Watts)				Axial Fan			Connect		Dimension(mm)		
			surface (m2)	Te -15°C	Te -20°C	Te -25°C	Te -30°C	Q'ty X DIA	Air Flow (m³/H)	Power (W)	Suction	Liquid	L	W	H
TYXB02LY	2DES-2Y	2	18	4790	3790	2930	2190	2X350	4700	260	7/8"	1/2"	1265	890	635
TYXB03LY	4FES-3Y	3	20	6440	5140	4030	3100	2X350	4700	260	7/8"	1/2"	1265	890	635
TYXB04LY	4EES-4Y	4	30	8220	6550	5130	3930	2X350	4700	260	1-1/8"	1/2"	1265	890	635
TYXB05LY	4DES-5Y	5	40	9830	7840	6130	4700	2X400	7980	260	1-1/8"	1/2"	1265	890	835
TYXB06LY	4CES-6Y	6	50	11870	9410	7330	5570	2X400	7980	450	1-1/8"	1/2"	1265	890	835
TYXB09LY	4TES-9Y	9	70	14730	11540	8840	6600	2x500	13320	260X2	1-3/8"	5/8"	1465	890	1035
TYXB12LY	4PES-12Y	12	103	16450	12740	9630	7050	2x500	13320	450X2	1-3/8"	5/8"	1465	890	1035
TYXB14LY	4NES-14Y	14	120	19940	15630	11990	8960	2x500	13320	800X2	1-3/8"	7/8"	1465	890	1035
TYXJ18LY	4HE-18Y	18	150	27780	22150	17360	13300	2x630	24300	800X2	1-5/8"	7/8"	1765	1080	1902
TYXJ23LY	4GE-23Y	23	200	32390	26020	20580	15960	2x630	24300	800X2	2-1/8"	1-1/8"	1765	1080	1902
TYXJ28LY	6HE-28Y	28	230	40915	32630	25580	19570	2x630	24300	800X2	2-1/8"	1-1/8"	2105	1313	2056
TYXJ34LY	6GE-34Y	34	290	48410	39150	31160	24350	2x630	24300	800X2	2-1/8"	1-1/8"	2105	1313	2056
TYXJ44LY	6FE-44Y	44	400	57920	46700	37000	28660	3X 630	36450	800X3	2-1/8"	1-1/8"	3095	1134	2042

CONDENSING TEMPERATURE: 45°C , AMBIENT TEMPERATURE: 30°C

COPELAND PACKAGE TOP BLOWING CONDENSING UNIT



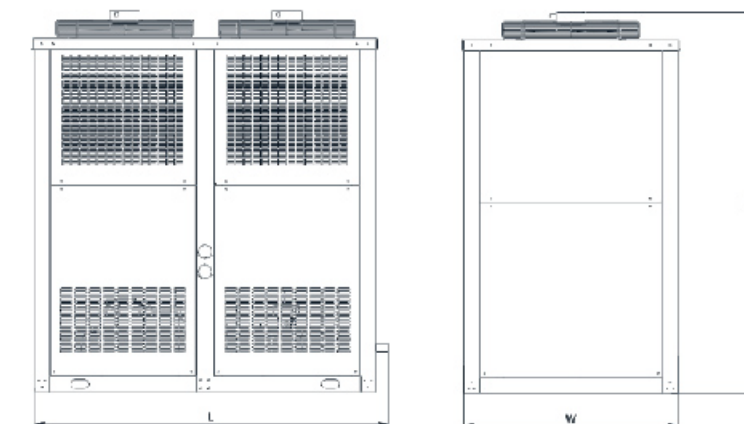
TYU (7 - 15HP)



TYU

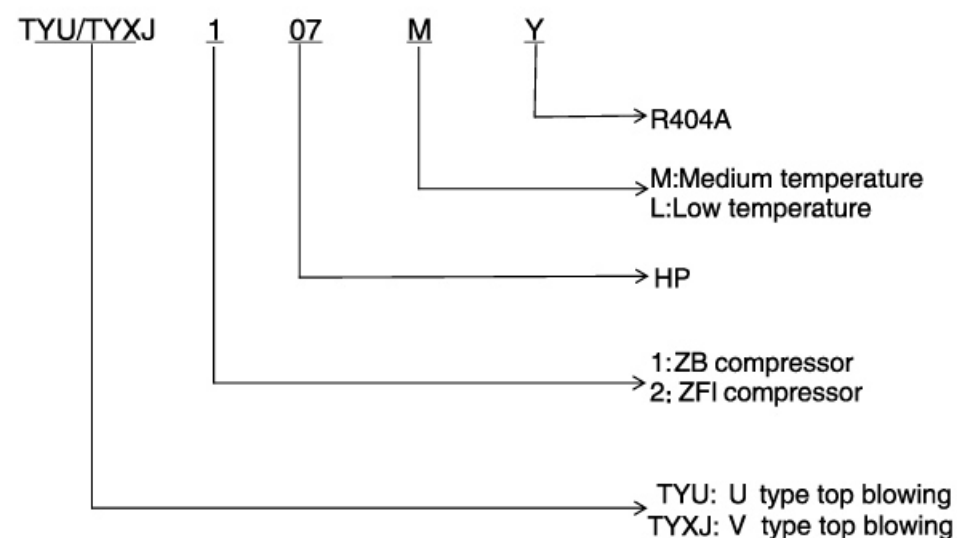


TYXJ (15 - 50HP)



TYXJ

PACKAGE TOP BLOWING CONDENSING UNIT



- Low noise quality condensing unit
- Quick Install range 7HP-50HP
- Copeland scroll **ZB**, **ZFI** compressor
- Crankcase heater
- Axial fan motor 6 pole with low noise
- Emerson HP/LP pressure switch
- Emerson sight glass
- Emerson filter drier
- Liquid receiver
- Pressure gauges
- Acoustic case lining
- Service valves
- Siemens switch
- Schneider AC contactor
- Schneider overload protector
- Carlo phase protector
- Oil separator
- Suction accumulator
- Alco fan speed controller(Optional)
- CE marked

COPELAND ZB PACKAGE
TOP BLOWING CONDENSING UNIT

R404A

Model	Compressor	HP	Condenser	Axial fan motor			Connect		Dimension (mm)		
			Surface (m ²)	Qty X Dia	Air Flow (m ³ /h)	Power (w)	Suction	Liquid	L	W	H
TYU107MY	ZB48KQE	7	87	2 × 500	14000	450 × 2	7/8"	5/8"	1345	845	968
TYU108MY	ZB58KQE	8	95	2 × 500	14000	450 × 2	1-1/8"	5/8"	1345	845	968
TYU109MY	ZB66KQE	9	107	2 × 500	14000	450 × 2	1-3/8"	5/8"	1345	845	1068
TYU110MY	ZB76KQE	10	121	2 × 500	14000	450 × 2	1-3/8"	7/8"	1345	845	1068
TYU113MY	ZB95KQE	13	153	2 × 600	21000	780 × 2	1-3/8"	7/8"	1550	983	1218
TYU115MY	ZB114KQE	15	175	2 × 600	21000	780 × 2	1-3/8"	7/8"	1550	983	1218
TYXJ120MY	ZB130KQE	20	200	2 × 630	24000	800 × 2	1-5/8"	7/8"	1765	1080	1902
TYXJ122MY	ZB150KQE	22	220	2 × 630	24000	800 × 2	1-5/8"	7/8"	1765	1080	1902
TYXJ125MY	ZB190KQE	25	240	2 × 630	24000	800 × 2	1-5/8"	7/8"	2105	1313	2056
TYXJ130MY	ZB220KQE	30	300	2 × 630	24000	800 × 2	1-5/8"	7/8"	2105	1313	2056

COPELAND ZFI PACKAGE
TOP BLOWING CONDENSING UNIT

R404A

Model	Compressor	HP	Condenser	Axial fan motor			Connect		Dimension (mm)		
			Surface (m ²)	Qty X Dia	Air Flow (m ³ /h)	Power (w)	Suction	Liquid	L	W	H
TYU204LY	ZFI20KQE	4	49	1x500	7000	450	7/8"	1/2"	910	845	968
TYU206LY	ZFI26KQE	6	70	2×500	14000	450×2	7/8"	1/2"	1345	845	968
TYU208LY	ZFI36KQE	8	87	2×500	14000	450×2	7/8"	5/8"	1345	845	968
TYU210LY	ZFI39KQE	10	107	2×500	14000	450×2	7/8"	5/8"	1345	845	1068
TYU212LY	ZFI50KQE	12	121	2×500	14000	450×2	1-3/8"	5/8"	1345	845	1068
TYU215LY	ZFI59KQE	15	153	2×600	21000	780×2	1-3/8"	7/8"	1550	983	1218
TYXJ220LY	ZFI81KQE	20	200	2×630	24000	800×2	1-3/8"	7/8"	1765	1080	1902
TYXJ225LY	ZFI96KQE	25	240	2×630	24000	800×2	1-5/8"	7/8"	2105	1313	2056
TYXJ230LY	ZFI122KQE	30	290	2×630	24000	800×2	1-5/8"	7/8"	2105	1313	2056

COPELAND ZB PACKAGE TOP BLOWING CONDENSING UNIT

R404A

Model	Condensing temperature ℃		Cooling capacity(kw)		Power(kw)			
			Evaporating Temperature ℃					
			-20	-15	-10	-5	0	5
TYU107MY (ZB48KQE)	30	Q	9.45	11.55	13.95	16.75	20.0	23.65
		P	3.69	3.69	3.68	3.67	3.66	3.64
	40	Q	8.15	10.0	12.1	14.5	17.3	20.5
		P	4.66	4.66	4.65	4.63	4.6	4.57
	50	Q	6.75	8.3	10.05	12.05	14.4	17.1
		P	5.90	5.9	5.88	5.86	5.82	5.77
TYU108MY (ZB58KQE)	30	Q	11.10	13.65	16.60	19.95	23.8	28.2
		P	4.48	4.54	4.62	4.69	4.73	4.71
	40	Q	9.45	11.85	14.50	17.45	20.8	24.6
		P	5.63	5.63	5.67	5.72	5.77	5.77
	50	Q	7.40	9.65	12.00	14.6	17.5	20.7
		P	7.21	7.12	7.08	7.09	7.1	7.1
TYU109MY (ZB66KQE)	30	Q	12.75	15.55	18.80	22.55	26.9	31.9
		P	5.03	5.09	5.16	5.25	5.35	5.48
	40	Q	11.05	13.5	16.35	19.55	23.25	27.5
		P	6.24	6.29	6.34	6.39	6.46	6.54
	50	Q	9.10	11.25	13.65	16.35	19.45	22.95
		P	7.83	7.85	7.88	7.9	7.92	7.95
TYU110MY (ZB76KQE)	30	Q	14.90	18.25	22.15	26.6	31.70	37.45
		P	5.82	5.93	6.03	6.13	6.22	6.27
	40	Q	12.90	15.9	19.35	23.25	27.65	32.65
		P	7.23	7.31	7.39	7.48	7.56	7.62
	50	Q	10.60	13.25	16.20	19.5	23.25	27.45
		P	9.10	9.12	9.16	9.21	9.26	9.3
TYU113MY (ZB95KQE)	30	Q	18.55	22.70	27.40	32.75	38.95	46.15
		P	7.44	7.54	7.67	7.81	7.94	8.04
	40	Q	15.60	19.6	23.85	28.55	33.90	40
		P	9.4	9.43	9.50	9.59	9.69	9.78
	50	Q		15.5	19.50	23.75	28.35	33.55
		P		11.94	11.92	11.94	11.98	12.02
TYU115MY (ZB114KQE)	30	Q	21.9	27.0	32.75	39.35	46.80	55.35
		P	8.94	9.05	9.17	9.31	9.45	9.61
	40	Q	18.3	23.05	28.25	34.10	40.7	48.2
		P	11.22	11.26	11.31	11.38	11.47	11.57
	50	Q		18.25	23.0	28.20	33.95	40.45
		P		14.20	14.15	14.12	14.11	14.13
TYXJ120MY (ZB130KQE)	30	Q	23.66	28.87	34.9	41.90	49.96	59.22
		P	9.12	9.24	9.38	9.53	9.67	9.78
	40	Q	20.64	25.42	30.83	36.98	44.0	52.0
		P	11.24	11.36	11.5	11.65	11.79	11.9
	50	Q		21.57	26.32	31.61	37.56	44.28
		P			17.48	17.55	17.62	17.66
TYXJ122MY (ZB150KQE)	30	Q	29.08	35.42	42.78	51.25	60.96	71.98
		P	11.72	11.83	11.99	12.27	12.74	13.45
	40	Q	25.52	31.0	37.39	44.78	53.27	62.98
		P	14.36	14.53	14.65	14.81	15.05	15.46
	50	Q			31.77	37.99	45.20	53.51
		P			18.06	18.22	18.38	18.60
TYXJ125MY (ZB190KQE)	30	Q	36.41	44.34	53.55	64.17	76.31	90.11
		P	14.74	14.87	15.08	15.43	16.02	16.92
	40	Q	31.95	38.81	46.81	56.06	66.70	78.85
		P	18.06	18.27	18.43	18.62	18.93	19.44
	50	Q			39.78	47.56	56.59	66.99
		P			22.72	22.91	23.11	23.39
TYXJ130MY (ZB220KQE)	30	Q	44.95	54.74	66.11	79.22	94.21	111.25
		P	17.75	17.92	18.17	18.59	19.30	20.38
	40	Q	39.44	47.91	57.78	69.21	82.34	97.34
		P	21.76	22.01	22.20	22.44	22.81	23.42
	50	Q			49.11	58.72	69.86	82.70
		P			27.37	27.61	27.85	28.19

COPELAND ZFI PACKAGE TOP BLOWING CONDENSING UNIT

R404A

Model	Condensing temperature °C		Cooling capacity(kw)				Power(kw)		
			Evaporating Temperature °C						
			-40	-35	-30	-25	-20	-10	0
TYU204LY (ZFI20KQE)	30	Q	3.43	4.28	5.23	6.30	7.50	10.40	14.09
		P	2.17	2.23	2.3	2.38	2.46	2.58	2.62
	40	Q	3.25	4.07	4.99	6.04	7.23	10.14	13.88
		P	2.73	2.78	2.84	2.92	3.01	3.16	3.25
	50	Q	2.92	3.70	4.59	5.62	6.80	9.73	13.51
		P	3.56	3.58	3.62	3.68	3.75	3.90	4.01
TYU206LY (ZFI26KQE)	30	Q	5.14	6.29	7.61	9.14	10.90	15.20	20.72
		P	3.22	3.38	3.54	3.70	3.84	4.11	4.37
	40	Q	5.09	6.12	7.33	8.74	10.39	14.49	19.86
		P	3.85	4.07	4.28	4.47	4.65	4.97	5.26
	50	Q	5.08	5.97	7.03	8.32	9.84	13.70	18.83
		P	4.74	5.01	5.26	5.50	5.70	6.07	6.38
TYU208LY (ZFI36KQE)	30	Q	6.48	8.01	9.76	11.70	13.85	16.20	21.45
		P	3.78	4.05	4.29	4.52	4.75	4.97	5.42
	40	Q	6.29	7.67	9.27	11.08	13.09	15.32	20.32
		P	4.46	4.86	5.21	5.52	5.80	6.05	6.47
	50	Q	6.24	7.42	8.82	10.43	12.26	14.30	18.97
		P	5.21	5.78	6.29	6.72	7.09	7.42	7.91
TYU210LY (ZFI39KQE)	30	Q	7.44	9.19	11.19	13.43	15.89	18.58	24.61
		P	4.49	4.81	5.10	5.38	5.64	5.91	6.45
	40	Q	7.22	8.80	10.63	12.71	15.04	17.58	23.34
		P	5.30	5.78	6.19	6.56	6.90	7.19	7.70
	50	Q	7.16	8.51	10.12	11.97	14.06	16.41	21.76
		P	6.19	6.87	7.47	7.99	8.43	8.82	9.40
TYU212LY (ZFI50KQE)	30	Q	9.11	10.80	12.99	15.63	18.68	22.06	29.59
		P	5.04	5.42	5.76	6.08	6.38	6.67	7.31
	40	Q	8.66	10.29	12.40	14.91	17.77	20.94	27.91
		P	6.06	6.49	6.89	7.26	7.61	7.97	8.72
	50	Q	8.04	9.65	11.68	14.07	16.79	19.75	26.23
		P	7.31	7.79	8.25	8.67	9.09	9.50	10.38
TYU215LY (ZFI59KQE)	30	Q	11.10	13.15	15.82	19.05	22.74	26.86	36.02
		P	6.15	6.61	7.03	7.41	7.77	8.14	8.92
	40	Q	10.55	12.53	15.09	18.16	21.65	25.51	34.01
		P	7.39	7.91	8.39	8.85	9.29	9.71	10.65
	50	Q	9.80	11.75	14.21	17.14	20.45	24.05	31.93
		P	8.92	9.51	10.05	10.58	11.09	11.58	12.66
TYXJ220LY (ZFI81KQE)	30	Q	14.37	17.01	20.46	24.63	29.43		
		P	8.26	8.87	9.44	9.96	10.45		
	40	Q	13.66	16.23	19.55	23.50	28.03		
		P	9.94	10.64	11.30	11.90	12.49		
	50	Q	12.68	15.21	18.41	22.18	26.47		
		P	11.98	12.78	13.53	14.23	14.91		
TYXJ225LY (ZFI96KQE)	30	Q	18.35	21.90	26.50	32.10	39.10	57.50	
		P	10.80	11.30	11.85	12.45	13.15	14.80	
	40	Q	17.40	21.20	25.70	30.90	37.00	52.80	
		P	13.30	13.95	14.60	15.25	15.90	17.45	
	50	Q		19.60	24.20	29.10	34.70	48.30	
		P		17.35	18.10	18.85	19.50	20.90	
TYXJ230LY (ZFI122KQE)	30	Q	23.14	27.67	33.39	40.53	49.30	59.91	87.50
		P	13.14	13.77	14.45	15.18	16.01	16.96	19.53
	40	Q	21.96	26.81	32.42	38.99	46.75	55.91	79.27
		P	16.21	17.02	17.80	18.59	19.40	20.28	22.32
	50	Q	18.04	23.62	30.52	36.81	43.84	51.83	71.51
		P	20.57	21.72	22.09	22.95	23.78	24.62	26.39

COPELAND SCROLL ZB CONDENSING UNIT

Model:

ZB15KQE-P-G8

Condenser

P:220V/50HZ,T:380 V-3PH-50HZ

Compressor model

Technical Data

Model	Displacement	Max. Oper. Current	Receiver	Overall Dimension (mm)			Installing Size (mm)		Connection	
	m ³ /h	A	L	L	W	H	A	B	SL	FL
ZB15KQE-P-G8	5.90	16.00	3	735	650	563	695	368	3/4"	3/8"
ZB19KQE-P-K9	6.80	18.00	3	950	590	464	915	320	3/4"	3/8"
ZB21KQE-P-K9	8.60	23.00	3	950	590	464	915	320	3/4"	3/8"
ZB26KQE-P-P8	9.90	24.00	3	950	590	604	915	320	3/4"	3/8"
ZB29KQE-T-Q7	11.40	11.00	6	1190	680	663	1155	395	7/8"	3/8"
ZB38KQE-T-Q7	14.40	13.50	6	1190	680	663	1155	395	7/8"	1/2"
ZB45KQE-T-Q8	17.20	16.10	6	1190	680	663	1155	395	7/8"	1/2"
ZB48KQE-T-Q8	18.80	17.00	6	1190	680	663	1155	395	7/8"	1/2"
ZB58KQE-T-T9	22.10	23.00	12	1190	740	714	1155	395	11/8"	5/8"
ZB66KQE-T-T9	25.70	24.20	12	1190	740	714	1155	395	13/8"	5/8"
ZB76KQE-T-V6A	28.80	26.90	14	1315	750	712	1275	410	13/8"	5/8"
ZB95KQE-T-W9A	33.20	31.00	14	1315	750	712	1275	410	13/8"	5/8"
ZB114MCE-T-W9A	43.30	38.00	18	1620	800	864	1580	440	13/8"	7/8"

Standard Features

- Copeland scroll ZB compressor
- Crankcase heater
- Air cooled condenser
- Axial fan
- Liquid receiver
- Emerson HP/LP controls
- Pressure gauges
- Emerson filter drier
- Emerson sight glass
- Emerson oil separator
- Emerson solenoid valve
- Schneider contactor
- Carlo phase protector(3 Phase Only)

Options:

- Fan speed controller
- Suction accumulator

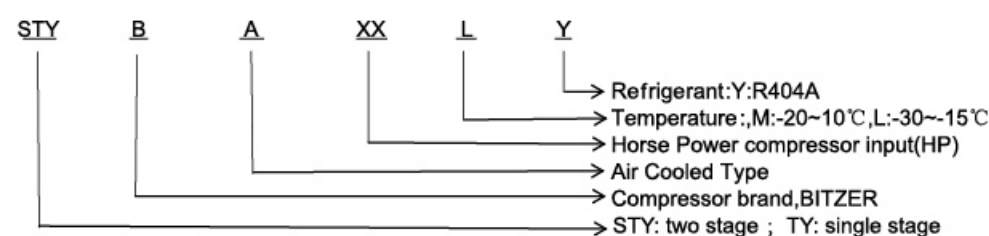


R404A/R448A

Model	ambient temp. °C	Capacity(watts) Evaporating Temperature °C							
		10	7	5	0	-5	-10	-15	-20
ZB15KQE-P-G8	Q	32	6900	6380	6060	5220	4440	3750	3160
		38	6140	5660	5370	4660	4010	3380	2820
		43	5370	4920	4680	4070	3470	2960	2430
ZB19KQE-P-K9	Q	32	7940	7340	6830	6030	5130	4370	3670
		38	7170	6610	6270	5450	4690	4000	3370
		43	6490	5960	5640	4920	4230	3620	3090
ZB21KQE-P-K9	Q	32	9360	8660	8200	7120	6120	5210	4350
		38	8460	7810	7470	6500	5610	4750	4000
		43	7610	7030	6650	5790	5020	4300	3650
ZB26KQE-P-P8	Q	32	11470	10590	10040	8590	7460	6310	5320
		38	10380	9550	9090	7880	6800	5770	4920
		43	9370	8650	8180	7090	6150	5220	4460
ZB29KQE-T-Q7	Q	32	13370	12420	11760	10270	8810	7480	6280
		38	12170	11240	10730	9320	8010	6830	5760
		43	11080	10210	9670	8400	7220	6120	5180
ZB38KQE-T-Q7	Q	32	15300	14520	13820	12630	10830	9210	7710
		38	13820	13150	12510	11470	9880	8400	7100
		43	12510	11890	11310	10310	8880	7530	6400
ZB45KQE-T-Q8	Q	32	18060	17160	16350	14920	12840	10880	9140
		38	16200	15490	14650	13450	11610	9900	8490
		43	14650	13870	13080	12080	10460	8910	7570
ZB48KQE-T-Q8	Q	32	19890	18830	18000	16350	14040	11890	9960
		38	17760	16980	16070	14800	12800	10910	9180
		43	15980	15200	14340	13340	11510	9810	8300
ZB58KQE-T-T9	Q	32	22390	21200	20010	18400	15860	13490	10710
		38	20010	19130	18070	16670	14420	12310	10400
		43	18000	17120	16020	14960	13150	11150	9580
ZB66KQE-T-T9	Q	32	25900	24540	23150	21310	18330	15630	13150
		38	23150	22150	20990	19320	16700	14290	12150
		43	20990	19900	18740	17420	15110	13000	11110
ZB76KQE-T-V6A	Q	32	31420	29700	28340	26210	22210	18950	15940
		38	27810	26860	25520	24210	21140	18330	15760
		43	25520	24210	22140	21140	18330	15760	13490
ZB95KQE-T-W9A	Q	32	36510	34590	32970	31990	27560	23020	19160
		38	32800	31390	29700	28340	25070	21210	18120
		43	29770	28100	26550	25320	21320	18330	15740
ZB114KQE-T-W9A	Q	32	45270	43070	40700	37340	31990	27560	23020
		38	41120	38980	36160	33380	29380	25070	21210
		43	37340	35210	32830	30600	26600	22720	19400

BITZER SEMI HERMETIC CONDENSING UNIT

Model:



Standard Features

- Bitzer semi-hermetic compressor
- Crankcase heater
- Air cooled condenser
- Axial fan
- Liquid receiver
- Emerson HP/LP controls
- Pressure gauges
- Emerson filter drier
- Emerson sight glass
- Oil separator (TYBA07M~TYBA50M, TYBA05L~TYBA44L)
- Vibration absorber (TYBA07M~TYBA50M, TYBA05L~TYBA44L)
- Oil pressure difference controls (TYBA25M~TYBA50M, TYBA15L~TYBA44L)
- Emerson solenoid valve
- Head Fan (TYBA34L~TYBA44L)

Options:

- Fan speed controller
- Suction accumulator
- Fully wired electrical panel



R404A

Model	Ambient Temperature °C	Capacity (watts) Evaporating Temperature °C							
		5	0	-5	-10	-15	-20	-25	-30
TYBA02MY (2HES-2Y)	Q 32	5712	4883	4148	3392	2867	2331	1848	1449
	Q 38	5103	4389	3717	3108	2562	2079	1649	1281
	Q 43		4022	3371	2825	2363	1901	1502	1208
	P 32	2.01	1.93	1.83	1.71	1.58	1.44	1.29	1.13
TYBA02MY (2GES-2Y)	Q 32	6531	5597	4746	4001	3308	2688	2142	1680
	Q 38	5806	5019	4253	3560	2961	2405	1932	1533
	Q 43		4599	3875	3276	2762	2247	1827	1491
	P 32	2.35	2.25	2.13	1.99	1.84	1.68	1.51	1.33
TYBA03MY (2FES-3Y)	Q 32	7665	6710	5754	4904	4095	3350	2688	2142
	Q 38	6940	6048	5187	4389	3686	3024	2447	1943
	Q 43		5565	4725	4043	3434	2814	2289	1890
	P 32	2.85	2.73	2.57	2.40	2.24	2.01	1.79	1.57
TYBA03MY (2EES-3Y)	Q 32		7980	6794	5859	4904	4032	3234	2562
	Q 38		7214	6216	5271	4473	3665	2972	2352
	Q 43			5723	4914	4190	3455	2814	2321
	P 32		3.38	3.20	2.99	2.77	2.52	2.26	1.99
TYBA03MY (2DES-3Y)	Q 32		9051	7844	6678	5597	4641	3791	2982
	Q 38		8190	7014	6017	5019	4158	3381	2657
	Q 43			6384	5439	4568	3759	3024	2384
	P 32		3.86	3.66	3.42	3.15	2.86	2.55	2.23
TYBA04MY (2CES-4Y)	Q 32		11928	10217	8610	7182	5901	4809	3770
	Q 38		10742	9230	7770	6510	5345	4337	3402
	Q 43			8421	7109	5943	4914	3948	3140
	P 32		4.74	4.47	4.17	3.84	3.49	3.12	2.73
TYBA05MY (4FES-5Y)	Q 32	14963	12947	11109	9482	7928	6500	5219	4148
	Q 38	13388	11697	10038	8495	7172	5891	4746	3780
	Q 43	12548	10784	9188	7865	6699	5523	4515	3738
	P 32	5.33	5.13	4.86	4.55	4.20	3.81	3.40	2.97
TYBA06MY (4EES-6Y)	Q 32	18449	15992	13829	11687	9776	8085	6468	5061
	Q 38	16317	14270	12264	10437	8726	7151	5733	4484
	Q 43		13146	11099	9450	7907	6521	5250	4137
	P 32	6.63	6.36	6.01	5.60	5.14	4.64	4.10	3.54
TYBA07MY (4DES-7Y)	Q 32		18449	15971	13619	11456	9461	7655	6017
	Q 38		16181	13997	11939	10028	8253	6626	5156
	Q 43			12663	10584	8862	7287	5828	4505
	P 32		7.51	7.13	6.67	6.15	5.56	4.93	4.26
TYBA09MY (4CES-9Y)	Q 32		22271	19310	16548	13997	11634	9503	7550
	Q 38		19583	17052	14637	12369	10280	8358	6615
	Q 43			15414	13157	11130	9240	7487	5880
	P 32		9.09	8.63	8.08	7.46	6.77	6.04	5.27
TYBA10MY (4VES-10Y)	Q 32			20391	17472	14763	12212	9870	7718
	Q 38			17829	15236	12800	10542	8421	6521
	Q 43				13409	11225	9198	7319	5618
	P 32			8.57	7.91	7.19	6.41	5.60	4.79

R404A

Model	Ambient Temperature °C	Capacity(watts) Evaporating Temperature °C						
		0	-5	-10	-15	-20	-25	-30
TYBA12MY (4TES-12Y)	32	30345	25967	22019	18470	15131	12159	9060
	Q 38	27122	23258	19656	16328	13335	10605	7840
	43		20874	17619	14522	11739	9198	6630
	P 32	11.30	10.59	9.79	8.93	8.02	7.08	6.12
TYBA15MY (4PES-15Y)	32	33695	29337	25106	21168	17525	14186	10560
	Q 38	29957	26030	22271	18774	15446	12390	9180
	43		23247	19698	16433	13388	10563	7650
	P 32	12.87	11.98	11.05	10.05	9.03	7.96	6.86
TYBA20MY (4NES-20Y)	32	38787	33810	28949	24497	20328	16527	12350
	Q 38	34503	29925	25589	21546	17703	14217	10530
	43		27174	22701	18900	15330	12096	8750
	P 32	15.21	14.15	12.99	11.74	10.44	9.11	7.79
TYBA25MY (4HE25Y)	32	54044	46074	38735	32403	26093	20759	15920
	Q 38	49035	41601	34734	28728	23216	18312	14020
	43		38010	32004	26009	20874	16611	12490
	P 32	20.53	19.27	17.83	16.29	14.67	12.98	11.27
TYBA30MY (4GE-30Y)	32		51870	44352	41255	30009	24056	18610
	Q 38		47051	39564	32960	26807	21252	16380
	43			36498	29820	24129	19278	14550
	P 32		22.38	20.64	18.81	16.93	15.03	13.16
TYBA35MY (6HE-35Y)	32	81060	69846	58968	49224	39480	31301	23490
	Q 38	73626	63042	52889	43607	34808	27521	20430
	43		57509	48752	39417	31605	25179	18200
	P 32	30.84	28.90	26.78	24.52	22.13	19.65	17.10
TYBA40MY (6GE-40Y)	32		77921	66654	61929	44951	36047	27850
	Q 38		70497	59178	49371	40163	32141	24640
	43			54705	44825	36341	29096	22060
	P 32		33.53	31.00	28.36	25.62	22.79	19.90
TYBA50MY (6FE-50Y)	32	110303	95330	80798	67767	54768	43838	33360
	Q 38	100338	86184	72608	60228	48342	38577	29060
	43		78488	66644	54233	43701	35049	25600
	P 32	43.68	40.61	37.37	34.00	30.56	27.11	23.69

R404A

Model	Ambient Temperature °C	Capacity(watts) Evaporating Temperature °C						
		-10	-15	-20	-25	-30	-35	-40
TYBA02LY (2FES-2Y)	32	4505	3822	3213	2699	2163	1691	1271
	Q 38	3980	3339	2825	2363	1869	1428	1040
	43	3434	3003	2541	2100	1638	1197	
	P 32	2.40	2.21	2.01	1.79	1.57	1.34	1.12
TYBA02LY (2EES-2Y)	32	5460	4652	3885	3234	2583	2048	1533
	Q 38	4883	4106	3476	2867	2279	1764	1292
	43		3738	3192	2583	2027	1512	
	P 32	2.86	2.61	2.35	2.09	1.84	1.58	1.33
TYBA02LY (2DES-2Y)	32		5481	4683	3896	3129	2436	1806
	Q 38		4893	4179	3434	2709	2069	1512
	43		4578	3780	3035	2363	1743	
	P 32		3.00	2.70	2.39	2.07	1.74	1.42
TYBA03LY (2CES-3Y)	32		6878	5660	4673	3633	2940	2184
	Q 38		6122	5030	4127	3329	2562	1890
	43			4610	3759	2982	2226	
	P 32		3.75	3.40	3.03	2.66	2.28	1.90
TYBA03LY (4FES-3Y)	32		7844	6563	5408	4337	3371	2531
	Q 38		6962	5817	4778	3822	2909	2153
	43			5292	4305	3381	2520	
	P 32		4.20	3.80	3.38	2.95	2.53	2.10
TYBA04LY (4EES-4Y)	32	11613	9587	8001	6584	5261	4085	3045
	Q 38	10238	8432	7014	5744	4568	3476	2573
	43		7623	6342	5145	4043	2993	
	P 32	5.52	5.06	4.58	4.07	3.53	2.99	2.44
TYBA05LY (4DES-5Y)	32	14826	12243	10164	8358	6678	5219	3875
	Q 38	13146	10773	8967	7340	5859	4463	3318
	43		9818	8127	6626	5198	3875	
	P 32	6.60	6.08	5.50	4.89	4.24	3.58	2.92
TYBA06LY (4CES-6Y)	32	17682	14396	11834	9786	7896	6195	4673
	Q 38	15467	12653	10574	8705	7014	5460	4127
	43		11645	9681	7896	6248	4694	
	P 32	7.94	7.32	6.63	5.90	5.13	4.34	3.54

R404A

Model	Ambient Temperature °C	Capacity(watts) Evaporating Temperature °C						
		-10	-15	-20	-25	-30	-35	-40
TYBA09LY (4TES-9Y)	Q	32	18911	15488	12726	10164	7875	5828
		38	16464	13671	11141	8862	6804	5019
		43	14952	12338	9975	7781	5733	
	P	32	8.96	8.01	7.06	6.09	5.11	4.10
TYBA12LY (4PES-12Y)	Q	32	21231	17588	14417	11477	8883	6552
		38	18816	15540	12674	10038	7581	5523
		43		14102	11382	8852	6489	
	P	32	10.26	9.13	7.97	6.82	5.68	4.57
TYBA14LY (4NES-14Y)	Q	32	30408	24749	20559	16853	13451	10427
		38	27059	22428	18333	14942	11855	8967
		43		20087	16622	13419	10416	7634
	P	32	13.53	12.23	10.89	9.53	8.17	6.82
TYBA18LY (4HE-18Y)	Q	32		24308	20234	16370	12968	9251
		38		22250	17850	14343	10259	8222
		43		19772	15887	11445	8747	
	P	32		15.03	13.30	11.56	9.83	8.14
TYBA23LY (4GE-23Y)	Q	32		26922	22386	18228	14375	10080
		38		24234	20160	16212	11424	8495
		43		21525	18312	13073	10028	
	P	32		17.20	15.22	13.24	11.27	9.35
TYBA28LY (6HE-28Y)	Q	32	45171	37716	30912	24948	19415	13262
		38	40929	33894	27657	22145	15173	11109
		43	33663	30965	25295	20150	13272	
	P	32	24.91	22.33	19.70	17.03	14.38	11.78
TYBA34LY (6GE-34Y)	Q	32	67620	55881	45896	37538	30020	27794
		38	60764	50505	41591	33915	27090	17042
		43		46505	38378	31574	25190	15078
	P	32	31.32	28.53	25.63	22.66	19.64	16.57
TYBA44LY (6FE-44Y)	Q	32		67515	55776	45434	36194	32424
		38		60407	49907	40499	32078	19982
		43		54915	45266	36855	29106	18354
	P	32		33.19	29.79	26.28	22.69	19.10

BITZER TWO STAGE CONDENSING UNIT
R404A

Model	Ambient Temperature °C	Capacity(watts) Evaporating Temperature °C				
		-30	-35	-40	-45	-50
STYBA05JY (S4T5.2Y)	Q	32	7455	6311	5177	4211
		38	7319	6153	5072	4116
		43	7245	6090	5009	4053
	P	32	5.37	4.96	4.53	4.10
STYBA08JY (S4N8.2Y)	Q	32	10553	8946	7361	5985
		38	10385	8852	7224	5870
		43	10238	8757	7119	5775
	P	32	7.52	6.92	6.31	5.69
STYBA12JY (S4G12.2Y)	Q	32	16359	14070	11897	9776
		38	16118	14018	11582	9524
		43	15876	13755	11382	9377
	P	32	11.54	10.62	9.68	8.72
STYBA16JY (S6J16.2Y)	Q	32	23090	19856	16863	13934
		38	22638	19499	16443	13356
		43	22208	19163	16170	13146
	P	32	16.14	14.68	13.28	11.93
STYBA20JY (S6H20.2Y)	Q	32	26030	22502	19110	15887
		38	25694	22197	18848	15593
		43	25211	21861	18575	15498
	P	32	18.57	16.89	15.27	13.71
STYBA25JY (S6G25.2Y)	Q	32	29684	25704	21872	18197
		38	29358	25316	21567	17819
		43	28802	24833	21231	17525
	P	32	21.22	19.28	17.42	15.64
STYBA30JY (S6F30.2Y)	Q	32	34818	30135	25589	21200
		38	34262	29694	25232	20906
		43	33548	29106	24812	20528
	P	32	25.27	23.06	20.88	18.76

Technical Data

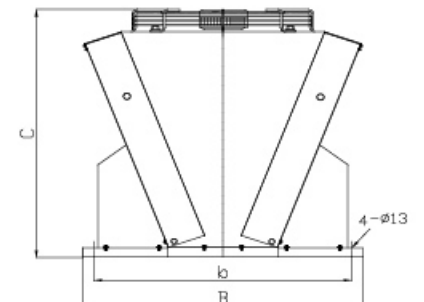
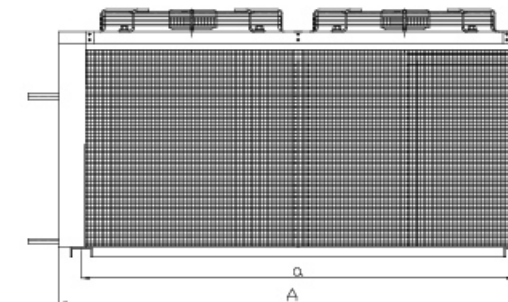
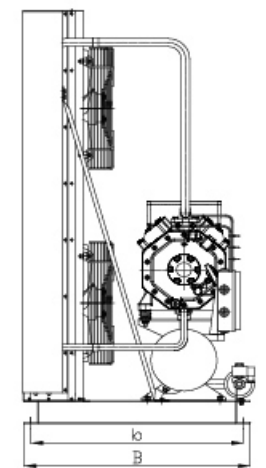
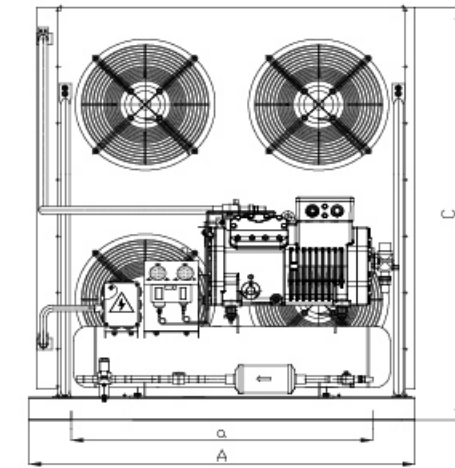
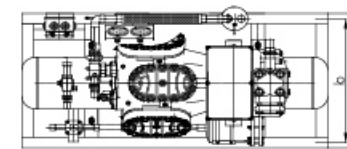
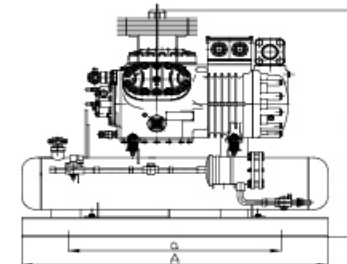
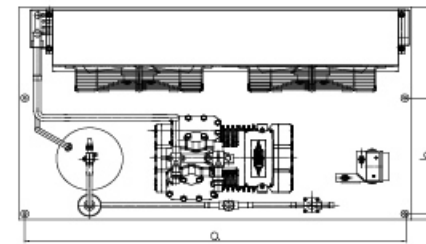
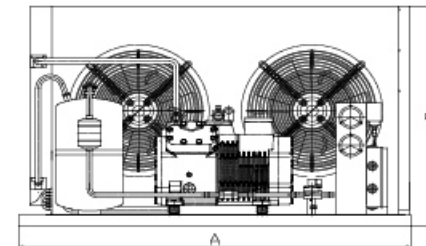
380/420V-3Ph-50Hz

Model	Displacement	Max. Oper. Current	Receiver	Overall Dimension (mm)			Install Size (mm)			Tube Connection	
	m ³ /h	A	L	B	T	H	b	t	Φ	SL	FL
TYBA02MY(2HES-2Y)	6.51	7.4	6	720	670	554	680	330	11	3/8"	5/8"
TYBA02MY(2GES-2Y)	7.58	8.1	6	720	700	554	680	330	11	3/8"	5/8"
TYBA03MY(2FES-3Y)	9.54	10.0	6	760	670	604	720	330	11	3/8"	5/8"
TYBA03MY(2EES-3Y)	11.40	12.0	6	900	690	454	860	300	11	1/2"	7/8"
TYBA03MY(2DES-3Y)	13.40	13.5	6	900	710	504	860	300	11	1/2"	7/8"
TYBA04MY(2CES-4Y)	16.20	16.4	8	1020	690	704	980	300	11	1/2"	7/8"
TYBA05MY(4FES-5Y)	18.10	18.7	10	1280	760	674	1250	420	14	1/2"	7/8"
TYBA06MY(4EES-6Y)	22.70	22.9	12	1280	760	774	1250	420	14	1/2"	1-1/8"
TYBA07MY(4DES-7Y)	26.80	27.5	14	1280	730	880	1250	410	14	5/8"	1-1/8"
TYBA09MY(4CES-9Y)	32.50	34.5	18	1280	820	724	1250	500	14	5/8"	1-1/8"
TYBA10MY(4VES-10Y)	34.70	21.00	18	1280	820	724	1250	500	14	5/8"	1-1/8"
TYBA12MY(4TES-12Y)	41.30	24.00	18	1354	830	722	1324	500	14	5/8"	1-3/8"
TYBA15MY(4PES-15Y)	48.50	31.00	35	1654	820	874	1624	410	14	7/8"	1-5/8"
TYBA20MY(4NES-20Y)	56.20	37.00	35	1360	880	1373	1330	500	14	7/8"	1-5/8"
TYBA25MY(4HE-25Y)	73.70	45.00	38	1660	830	1274	1630	410	14	7/8"	2-1/8"
TYBA30MY(4GE-30Y)	84.60	53.00	38	---	---	---	---	---	---	7/8"	2-1/8"
TYBA35MY(6HE-35Y)	110.50	61.00	50	---	---	---	---	---	---	1-1/8"	2-1/8"
TYBA40MY(6GE-40Y)	126.80	78.00	50	---	---	---	---	---	---	1-1/8"	2-1/8"
TYBA50MY(6FE-50Y)	151.60	92.00	85	---	---	---	---	---	---	1-3/8"	2-1/8"
TYBA02LY(2FES-2Y)	9.54	8.5	3	706	686	500	666	320	11	3/8"	5/8"
TYBA02LY(2EES-2Y)	11.40	9.9	6	740	700	554	700	330	11	3/8"	7/8"
TYBA02LY(2DES-2Y)	13.40	11.9	6	740	700	554	700	330	11	1/2"	7/8"
TYBA03LY(2CES-3Y)	16.20	14.8	6	900	690	454	860	300	11	1/2"	7/8"
TYBA03LY(4FES-3Y)	18.10	15.9	6	900	690	454	860	300	11	1/2"	7/8"
TYBA04LY(4EES-4Y)	22.70	18.5	8	1062	710	604	1022	300	11	1/2"	1-1/8"
TYBA05LY(4DES-5Y)	26.80	23.4	10	1020	690	704	980	300	11	1/2"	1-1/8"
TYBA06LY(4CES-6Y)	32.50	27.5	12	1237	780	654	1190	300	11	1/2"	1-1/8"
TYBA09LY(4TES-9Y)	41.30	17.00	18	1320	800	881	1290	520	14	5/8"	1-3/8"
TYBA12LY(4PES-12Y)	48.50	21.00	18	1320	800	881	1290	520	14	5/8"	1-3/8"
TYBA14LY(4NES-14Y)	56.20	24.00	35	1340	860	734	1310	580	14	7/8"	1-3/8"
TYBA18LY(4HE-18Y)	73.70	31.00	35	1660	780	874	1630	520	14	7/8"	1-5/8"
TYBA23LY(4GE-23Y)	84.60	37.00	35	1360	880	1373	1330	580	14	7/8"	2-1/8"
TYBA28LY(6HE-28Y)	110.50	45.00	38	1410	960	1373	1380	680	14	7/8"	2-1/8"
TYBA34LY(6GE-34Y)	126.80	53.00	38	1660	830	1274	1630	550	14	7/8"	2-1/8"

Technical Data

380/420V-3Ph-50Hz

Model	Displacement	Max. Oper. Current	Receiver	Overall Dimension (mm)			Install Size (mm)		Tube Connection	
	m ³ /h	A	L	A	B	C	A	B	SL	FL
TYBA44LY(6FE-44Y)	151.60	78.00	50	---	---	---	---	---	1-1/8"	2-1/8"
STYBA05JY(S4T5.2Y)	19.7	14.00	14	1162	900	605	1122	300	5/8"	1-1/8"
STYBA08JY(S4N8.2Y)	28	17.00	14	1280	900	775	1250	560	5/8"	1-1/8"
STYBA12JY(S4G12.2Y)	42.3	24.00	35	1340	1150	760	1310	750	7/8"	1-3/8"
STYBA16JY(S6J16.2Y)	63.5	31.00	35	1310	1080	1431	1280	780	7/8"	1-5/8"
STYBA20JY(S6H20.2Y)	73.6	37.00	35	1380	1105	1373	1350	805	7/8"	1-5/8"
STYBA25JY(S6G25.2Y)	84.5	45.00	35	1410	1080	1373	1380	680	7/8"	1-5/8"
STYBA30JY(S6F30.2Y)	101.1	53.00	35	---	---	---	---	---	7/8"	1-5/8"



MANEUROP CONDENSING UNIT

Model:

HGZ18-FN15

→ Condenser model

→ Compressor MTZ18

Technical Data

Model R404A	Displacement	Max. Oper Current	Receiver	Overall Dimension (mm)			Installing Size (mm)		Connection	
	m³/h	A	L	L	W	H	A	B	SL	FL
HGZ18-FN15	5.26	5	3	710	670	515	670	368	1/2"	3/8"
HGZ22-FN18	6.63	6	3	710	670	564	670	368	1/2"	3/8"
HGZ28-FN22	8.36	7.5	3	750	670	564	710	378	1/2"	3/8"
HGZ32-FN25	9.37	8	3	750	670	614	710	378	5/8"	3/8"
HGZ36-FN33	10.52	9	6	920	675	515	885	320	5/8"	3/8"
HGZ40-FN36	11.81	10	6	1045	740	614	1010	395	5/8"	1/2"
HGZ50-FN43	14.90	12	8	1045	740	715	1010	395	7/8"	1/2"
HGZ64-FN55	18.74	15	8	1260	740	765	1225	395	7/8"	1/2"
HGZ80-FN70	23.63	18	10	1260	740	871	1225	395	1-1/8"	1/2"
HGZ100-FN80	29.80	22	12	1260	800	871	1225	395	1-1/8"	5/8"
HGZ125-V6A	37.49	27	14	1305	850	712	1265	440	1-1/8"	5/8"
HGZ144-W9A	42.09	30	14	1615	850	864	1575	440	1-1/8"	5/8"
HGZ160-W9A	47.25	36	14	1615	850	864	1575	440	1-1/8"	5/8"

Standard Features

- Maneurop compressor
- Crankcase heater
- Air cooled condenser
- Axial fan
- Liquid receiver
- Emerson HP/LP controller
- Emerson filter drier
- Emerson sight glass
- Emerson solenoid valve
- Pressure gauges



MANEUROP HERMETIC CONDENSING UNIT

R404A

Model	Ambient Temperature °C	Capacity(watts) Evaporating Temperature °C							
		5	0	-5	-10	-15	-20	-25	-30
HGZ18	27	6034	4820	3779	2898	2162	1558	1074	693
	32	5005	3970	3096	2356	1742	1240	830	517
	38	4029	3176	2454	1851	1354	946	617	349
HGZ22	27	7972	6440	5124	4002	3060	2272	1652	1140
	32	6707	5372	4231	3265	2462	1804	1273	850
	38	5440	4304	3344	2542	1882	1349	924	588
HGZ-28	27	7160	6170	5150	4440	3420	2700	2150	1510
	32	6380	5380	4470	3620	2890	2280	1750	1140
	38	5330	4660	3840	3080	2430	1800	1340	677
HGZ-32	27	11160	9140	7392	5882	4597	3513	2610	1877
	32	9492	7718	6183	4867	3750	2812	2030	1380
	38	7780	6272	4964	3850	2912	2193	1478	938
HGZ-36	27	12653	10434	8459	6755	5297	4111	3045	2205
	32	10810	8845	7135	5662	4403	3338	2445	1701
	38	8903	7238	4795	4555	3498	2598	1837	1189
HGZ-40	27	13813	11419	9324	7508	5948	4624	3512	2588
	32	11840	9772	7945	6366	5007	3849	2869	2041
	38	9830	8056	6508	5172	4024	3042	2202	1479
HGZ-50	27	18145	14697	11769	9316	7292	5653	4352	3347
	32	15285	12246	9673	7524	5753	4313	3162	2252
	38	12302	9742	7599	5825	4377	3211	2279	1539
HGZ-64	27	22271	18277	14810	11834	9307	7189	5443	4027
	32	19054	15514	12445	9807	7562	5668	4087	2779
	38	15618	12614	10022	7950	5921	4332	2997	1875
HGZ-80	27	27990	23171	18954	15288	12159	9498	7272	5438
	32	23988	19703	15965	12696	9891	7491	5460	3753
	38	19704	16051	12873	10101	7719	5679	3937	2451
HGZ-100	27	33862	27606	22188	17545	13617	10337	7643	5472
	32	28709	23337	18698	14726	11360	8532	6181	4241
	38	23567	19057	15172	11850	9022	6625	4589	2849
HGZ-125	27	43853	39515	29032	23127	18085	13932	10488	7702
	32	36910	29995	24041	18970	14702	11155	8251	5909
	38	30298	24396	19363	15121	11588	8681	6318	4419
HGZ-144	27	49253	40600	33068	26574	21033	16361	12472	9279
	32	42003	34412	27841	22202	17407	13375	10013	7239
	38	34712	28209	22622	17864	13848	10485	7683	5360
HGZ-160	27	53630	44235	36057	29001	22978	17893	13652	10162
	32	45884	37620	30462	24315	19084	14676	10997	7948
	38	38107	30998	24886	19675	15269	11572	8485	5911

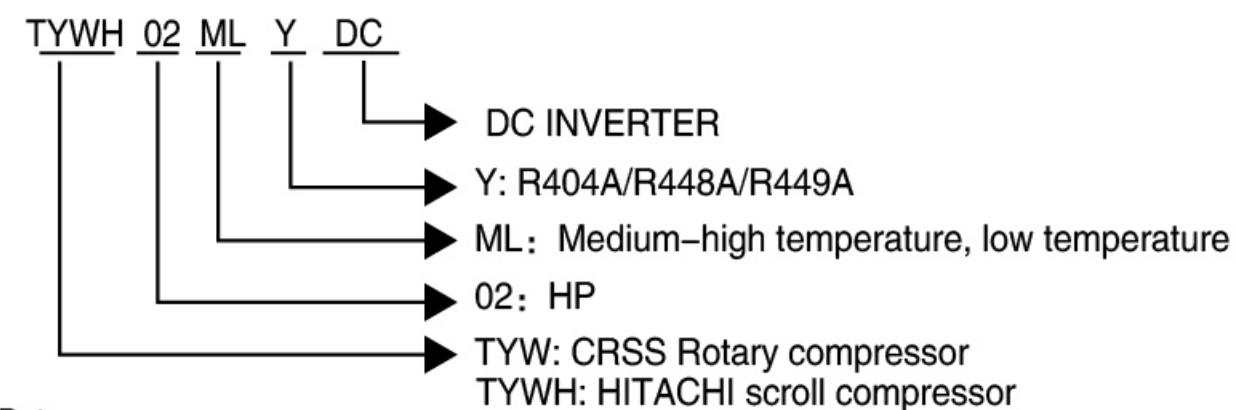
DC INVERTER CONDENSING UNIT



INVERTER
TECHNOLOGY



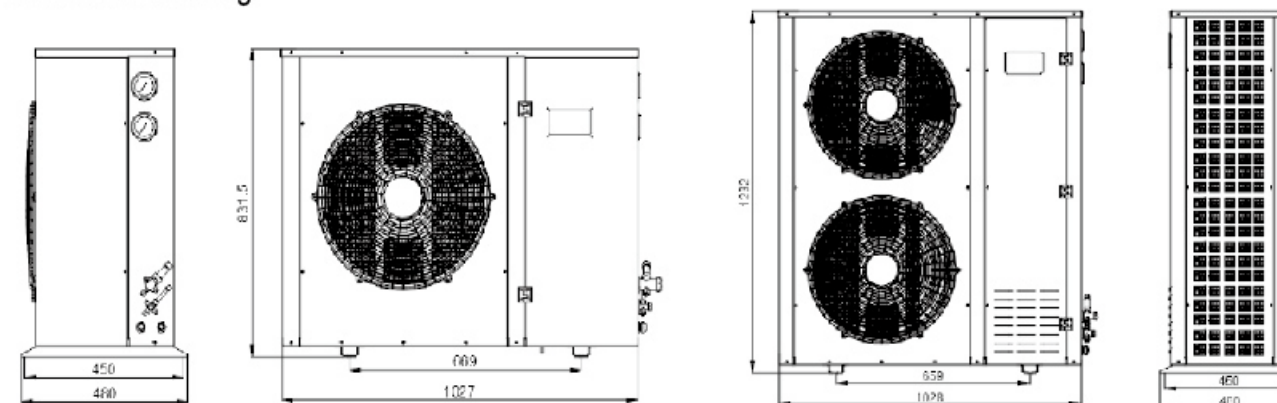
DC INVERTER CONDENSING UNIT



Technical Data

Model	Compressor		Fan Motor			Noise	Dimension	Pipe Fitting	
	Model	HP	N° x Power	DIA(mm)	Voltage	Dist=10m	LxWxH(mm)	Discharge	Suction
TYW02MLY-DC	C-7RVN113L0B	2	1X100W	456	220V/50HZ	52	1148X493X932	3/8"	5/8"
TYW03MLY-DC	C-7RVN153L0B	3	1X100W	456	220V/50HZ	53	1148X493X932	3/8"	5/8"
TYW04MLY-DC	C-8RZ420L4BAL	4	2X100W	456	220V/50HZ	56	1248X493X1232	1/2"	5/8"
TYW05MLY-DC	C-8RZ486L4BAL	5	2X100W	456	220V/50HZ	56	1248X493X1232	1/2"	5/8"
TYW08MLY-DC	C-9RZ700L4AAL	8	2X100W	456	220V/50HZ	57	1428X588X1534	5/8"	7/8"
TYWH03MLY-DC	CA47LHDG-D1KA	3	1X100W	456	220V/50HZ	53	1148X493X932	3/8"	7/8"
TYWH04MLY-DC	CA64LHDG-D1YA	4	2X100W	456	220V/50HZ	56	1248X493X1232	1/2"	7/8"
TYWH06MLY-DC	CA90LHDG-D1YA	6	2X100W	456	220V/50HZ	56	1428X588X1534	5/8"	7/8"

Dimension Drawing



DC INVERTER CONDENSING UNIT(CRSS)

Cooling Capacity performance

Compressor: C-7RVN113L0B

2HP

Frequency	30Hz			40Hz			50Hz			60Hz			70Hz			80Hz			90Hz		
Displacement	21.1Kg/h			31.2Kg/h			40.7Kg/h			50.4Kg/h			59.7Kg/h			70Kg/h			81.9Kg/h		
Evap.Temp.Te	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)
-40℃	0.43	0.58	0.74	0.57	0.77	0.74	0.75	0.91	0.82	0.99	1.07	0.93	1.15	1.19	0.97	1.37	1.52	0.90	1.61	1.81	0.89
-35℃	0.54	0.60	0.90	0.71	0.80	0.89	0.93	0.95	0.98	1.23	1.12	1.10	1.43	1.24	1.15	1.70	1.59	1.07	2.00	1.89	1.06
-30℃	0.68	0.63	1.08	0.90	0.84	1.07	1.17	1.00	1.18	1.55	1.17	1.32	1.80	1.30	1.39	2.14	1.65	1.30	2.52	1.96	1.28
-25℃	0.85	0.65	1.31	1.12	0.86	1.30	1.46	1.02	1.44	1.94	1.20	1.62	2.26	1.33	1.69	2.68	1.71	1.57	3.15	2.04	1.55
-20℃	1.06	0.67	1.58	1.40	0.89	1.57	1.82	1.05	1.73	2.41	1.24	1.94	2.80	1.38	2.03	3.33	1.77	1.88	3.92	2.11	1.86
-15℃	1.29	0.68	1.90	1.71	0.92	1.86	2.23	1.09	2.05	2.96	1.28	2.31	3.44	1.42	2.42	4.09	1.81	2.26	4.81	2.15	2.23
-10℃	1.56	0.70	2.23	2.07	0.94	2.20	2.63	1.11	2.36	3.48	1.31	2.66	4.05	1.46	2.78	4.85	1.88	2.58	5.71	2.22	2.57
-5℃	1.95	0.71	2.75	2.58	0.95	2.72	3.26	1.14	2.86	4.17	1.34	3.11	4.85	1.49	3.26	5.81	1.94	2.99	6.84	2.31	2.96
0℃	2.33	0.72	3.24	3.09	0.97	3.19	3.77	1.17	3.21	4.65	1.38	3.37	5.41	1.53	3.53	6.91	2.01	3.44	8.13	2.39	3.40
5℃	2.80	0.75	3.73	3.71	0.98	3.79	4.21	1.20	3.51	5.17	1.41	3.67	6.01	1.57	3.84	8.11	2.13	3.81	9.54	2.49	3.83

Note: ambient temperature 32℃, Suction temperature 18℃,Cooling capacity & power data ±5%.

Compressor: C-7RVN153L0B

3HP

Frequency	30Hz			40Hz			50Hz			60Hz			70Hz			80Hz			90Hz		
Displacement	30.3Kg/h			43.6Kg/h			56.2Kg/h			69Kg/h			81.3Kg/h			93.1Kg/h			106.8Kg/h		
Evap.Temp.Te	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)
-40℃	0.64	0.68	0.94	0.85	0.93	0.91	1.15	1.26	0.91	1.43	1.45	0.99	1.68	1.73	0.97	1.89	1.92	0.98	2.15	2.31	0.93
-35℃	0.79	0.72	1.10	1.06	0.98	1.07	1.43	1.33	1.07	1.78	1.52	1.17	2.09	1.81	1.16	2.35	2.00	1.18	2.67	2.41	1.11
-30℃	1.00	0.75	1.34	1.33	1.03	1.30	1.80	1.39	1.30	2.24	1.58	1.42	2.64	1.88	1.40	2.96	2.08	1.42	3.36	2.51	1.34
-25℃	1.25	0.77	1.62	1.67	1.06	1.58	2.26	1.43	1.58	2.81	1.63	1.72	3.31	1.94	1.70	3.71	2.16	1.72	4.22	2.60	1.62
-20℃	1.56	0.80	1.94	2.07	1.10	1.89	2.81	1.48	1.89	3.48	1.68	2.07	4.09	2.00	2.05	4.61	2.22	2.08	5.24	2.67	1.96
-15℃	1.90	0.82	2.32	2.54	1.13	2.25	3.43	1.53	2.25	4.27	1.73	2.47	5.02	2.06	2.44	5.65	2.28	2.48	6.42	2.75	2.34
-10℃	2.30	0.84	2.73	3.07	1.16	2.66	4.16	1.57	2.65	5.17	1.78	2.90	6.08	2.12	2.87	6.84	2.34	2.92	7.77	2.82	2.76
-5℃	2.76	0.89	3.09	3.67	1.22	3.01	4.97	1.65	3.01	6.18	1.85	3.34	7.27	2.20	3.30	8.17	2.39	3.42	9.28	2.88	3.22
0℃	3.32	0.98	3.39	4.42	1.34	3.30	5.98	1.82	3.29	7.27	2.06	3.53	8.55	2.45	3.49	9.61	2.61	3.68	10.92	3.14	3.47
5℃	3.90	1.02	3.82	5.20	1.40	3.71	7.04	1.90	3.71	8.45	2.30	3.67	9.94	2.74	3.63	11.17	2.98	3.75	12.69	3.59	3.54

Note: ambient temperature 32℃, Suction temperature 18℃,Cooling capacity & power data ±5%.

Compressor: C-8RZ420L4BAL

4HP

Frequency	30Hz			40Hz			50Hz			60Hz			70Hz			80Hz			90Hz		
Displacement	37.4Kg/h			55.8Kg/h			67.4Kg/h			89.3Kg/h			103.9Kg/h			119.1Kg/h			137.6Kg/h		
Evap.Temp.Te	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)
-40℃	0.88	1.01	0.87	1.19	1.29	0.92	1.47	1.53	0.96	1.89	1.93	0.98	2.21	2.25	0.98	2.55	2.63	0.97	2.87	3.21	0.89
-35℃	1.11	1.06	1.05	1.48	1.35	1.10	1.82	1.59	1.14	2.38	2.02	1.18	2.76	2.38	1.16	3.18	2.75	1.16	3.57	3.35	1.07
-30℃	1.39	1.11	1.25	1.88	1.41	1.33	2.31	1.71	1.35	2.98	2.11	1.41	3.44	2.48	1.39	4.01	2.86	1.40	4.51	3.49	1.29
-25℃	1.76	1.13	1.56	2.35	1.45	1.62	2.84	1.77	1.60	3.75	2.18	1.72	4.33	2.57	1.68	5.02	2.96	1.70	5.64	3.61	1.56
-20℃	2.16	1.18	1.83	2.92	1.50	1.95	3.62	1.85	1.96	4.65	2.25	2.07	5.35	2.61	2.05	6.23	3.06	2.04	7.00	3.73	1.88
-15℃	2.69	1.21	2.22	3.58	1.54	2.32	4.30	1.87	2.30	5.70	2.31	2.47	6.51	2.73	2.38	7.64	3.15	2.43	8.58	3.84	2.23
-10℃	3.26	1.24	2.63	4.35	1.58	2.75	5.37	1.93	2.78	6.91	2.37	2.92	7.97	2.79	2.86	9.25	3.23	2.86	10.39	3.94	2.64
-5℃	3.83	1.26	3.04	5.18	1.61	3.22	6.36	1.97	3.23	8.24	2.42	3.40	9.48	2.84	3.34	11.06	3.29	3.36	12.43	4.01	3.10
0℃	4.67	1.32	3.54	6.17	1.72	3.59	7.56	2.13	3.55	9.14	2.55	3.58	11.52	2.96	3.89	11.97	3.37	3.55	13.46	4.12	3.27
5℃	5.51	1.47	3.75	7.24	1.96	3.69	8.84	2.38	3.71	10.71	2.91	3.68	12.64	3.39	3.73	13.13	3.59	3.66	15.77	4.49	3.51

Note: ambient temperature 32℃, Suction temperature 18℃,Cooling capacity & power data ±5%.

DC INVERTER CONDENSING UNIT(CRSS)

Cooling Capacity performance

Compressor: C-8RZ486L4BAL

5HP

Frequency	30Hz			40Hz			50Hz			60Hz			70Hz			80Hz			90Hz		
Displacement	43.3Kg/h			64.6Kg/h			78Kg/h			103.3Kg/h			120.2Kg/h			137.8Kg/h			159.2Kg/h		
Evap.Temp.Te	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)
-40℃	0.99	1.24	0.80	1.41	1.64	0.86	1.84	2.05	0.90	2.26	2.45	0.92	2.68	2.89	0.93	3.09	3.33	0.93	3.51	3.77	0.93
-35℃	1.20	1.30	0.92	1.73	1.72	1.01	2.26	2.14	1.06	2.79	2.56	1.09	3.29	3.02	1.09	3.79	3.47	1.09	4.29	3.93	1.09
-30℃	1.51	1.36	1.11	2.17	1.79	1.21	2.83	2.23	1.27	3.49	2.66	1.31	4.12	3.14	1.31	4.75	3.61	1.32	5.38	4.09	1.32
-25℃	1.88	1.40	1.35	2.71	1.85	1.46	3.54	2.31	1.54	4.37	2.76	1.58	5.16	3.25	1.59	5.94	3.74	1.59	6.73	4.23	1.59
-20℃	2.35	1.44	1.63	3.37	1.91	1.76	4.40	2.38	1.85	5.42	2.85	1.90	6.40	3.36	1.90	7.38	3.87	1.91	8.36	4.38	1.91
-15℃	2.88	1.49	1.93	4.14	1.97	2.10	5.41	2.45	2.21	6.67	2.93	2.28	7.87	3.46	2.28	9.07	3.98	2.28	10.27	4.51	2.28
-10℃	3.49	1.53	2.28	5.02	2.02	2.49	6.55	2.51	2.61	8.08	3.00	2.69	9.54	3.54	2.69	11.00	4.08	2.70	12.46	4.62	2.70
-5℃	4.18	1.56	2.69	6.01	2.06	2.92	7.84	2.57	3.06	9.67	3.07	3.15	11.42	3.62	3.15	13.17	4.17	3.16	14.92	4.72	3.16
0℃	5.04	1.58	3.19	7.00	2.10	3.33	8.96	2.62	3.42	10.92	3.14	3.48	13.01	3.70	3.52	15.10	4.26	3.54	17.19	4.82	3.57
5℃	5.75	1.61	3.58	7.90	2.14	3.69	10.05	2.68	3.76	12.20	3.21	3.80	14.20	3.78	3.76	16.20	4.35	3.72	18.20	4.92	3.70

Note: ambient temperature 32℃, Suction temperature 18℃,Cooling capacity & power data ±5%.

Compressor: C-9RZ700L4AAL

5HP

Frequency	30Hz			40Hz			50Hz			60Hz			70Hz			80Hz			90Hz		
Displacement	62.3Kg/h			93Kg/h			112.3Kg/h			148.8Kg/h			173.2Kg/h			198.5Kg/h			229.3Kg/h		
Evap. Temp. Te	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)
-40℃	1.26	1.41	0.89	1.93	1.99	0.97	2.61	2.57	1.01	3.28	3.15	1.04	3.89	3.85	1.01	4.50	4.55	0.99	5.05	5.16	0.98
-35℃	1.56	1.48	1.05	2.38	2.08	1.14	3.21	2.69	1.19	4.03	3.29	1.22	4.79	4.02	1.19	5.54	4.75	1.17	6.22	5.39	1.15
-30℃	1.95	1.53	1.27	2.98	2.16	1.38	4.02	2.79	1.44	5.05	3.42	1.48	5.99	4.18	1.43	6.93	4.94	1.40	7.78	5.61	1.39
-25℃	2.44	1.59	1.53	3.73	2.24	1.67	5.03	2.89	1.74	6.32	3.54	1.79	7.50	4.33	1.73	8.68	5.12	1.70	9.75	5.81	1.68
-20℃	3.02	1.64	1.84	4.63	2.31	2.00	6.25	2.99	2.09	7.86	3.66	2.15	9.32	4.48	2.08	10.78	5.29	2.04	12.11	6.00	2.02
-15℃	3.71	1.69	2.20	5.69	2.38	2.39	7.67	3.07	2.50	9.65	3.76	2.57	11.45	4.60	2.49	13.24	5.44	2.43	14.87	6.17	2.41
-10℃	4.50	1.73	2.60	6.90	2.44	2.83	9.30	3.15	2.95	11.70	3.86	3.03	13.88	4.72	2.94	16.06	5.58	2.88	18.04	6.33	2.85
-5℃	5.39	1.78	3.03	8.26	2.50	3.30	11.14	3.23	3.45	14.01	3.95	3.55	16.62	4.83	3.44	19.23	5.70	3.37	21.60	6.47	3.34
0℃	6.73	1.82	3.71	9.52	2.56	3.72	12.31	3.31	3.72	15.10	4.05	3.73	18.58	4.95	3.76	22.05	5.84	3.78	24.75	6.61	3.74
5℃	7.20	1.86	3.87	10.10	2.62	3.85	13.00	3.38	3.85	15.90	4.14	3.84	19.45	5.06	3.84	23.00	5.98	3.85	25.85	6.75	3.83

DC INVERTER CONDENSING UNIT(HITACHI)

Cooling Capacity performance

Compressor:CA47LHDG-D1KA

3HP

Frequency	30Hz			40Hz			50Hz			60Hz			70Hz			80Hz			90Hz		
Evap.Temp.Te	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)
-40℃	0.90	1.68	0.54	1.16	2.18	0.53	1.43	2.69	0.53	1.69	3.19	0.53	1.96	3.76	0.52	2.24	4.34	0.52	2.51	4.91	0.51
-35℃	1.08	1.64	0.66	1.46	2.14	0.68	1.84	2.64	0.70	2.22	3.14	0.71	2.56	3.70	0.69	2.91	4.27	0.68	3.25	4.83	0.67
-30℃	1.34	1.64	0.82	1.84	2.13	0.86	2.34	2.62	0.89	2.84	3.11	0.91	3.27	3.67	0.89	3.71	4.23	0.88	4.14	4.79	0.86
-25℃	1.68	1.65	1.02	2.31	2.14	1.08	2.94	2.62	1.12	3.57	3.11	1.15	4.11	3.67	1.12	4.66	4.22	1.10	5.20	4.78	1.09
-20℃	2.09	1.67	1.25	2.86	2.16	1.33	3.63	2.64	1.37	4.40	3.13	1.41	5.08	3.69	1.38	5.75	4.24	1.36	6.43	4.80	1.34
-15℃	2.56	1.69	1.51	3.49	2.18	1.60	4.43	2.66	1.66	5.36	3.15	1.70	6.19	3.71	1.67	7.02	4.28	1.64	7.85	4.84	1.62
-10℃	3.09	1.70	1.82	4.21	2.19	1.92	5.33	2.68	1.99	6.45	3.17	2.03	7.46	3.74	1.99	8.47	4.32	1.96	9.48	4.89	1.94
-5℃	3.66	1.68	2.18	5.01	2.18	2.30	6.35	2.68	2.37	7.70	3.18	2.42	8.91	3.77	2.36	10.11	4.36	2.32	11.32	4.95	2.29
0℃	4.27	1.63	2.62	5.88	2.15	2.74	7.49	2.66	2.81	9.10	3.18	2.86	10.53	3.79	2.78	11.96	4.40	2.72	13.39	5.01	2.67

Note: ambient temperature 32℃, Suction temperature 18℃,Cooling capactNF & power data ±5%.

Compressor: CA64LHDG-D1YA

4HP

Frequency	30Hz			40Hz			50Hz			60Hz			70Hz			80Hz			90Hz		
Evap.Temp.Te	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)
-40℃	1.25	2.13	0.59	1.61	2.77	0.58	1.98	3.41	0.58	2.34	4.05	0.58	2.72	4.78	0.57	3.22	5.75	0.56	3.47	6.23	0.56
-35℃	1.49	2.09	0.71	2.02	2.72	0.74	2.54	3.35	0.76	3.07	3.98	0.77	3.54	4.70	0.75	4.17	5.65	0.74	4.49	6.13	0.73
-30℃	1.85	2.08	0.89	2.54	2.70	0.94	3.24	3.33	0.97	3.93	3.95	0.99	4.53	4.66	0.97	5.32	5.61	0.95	5.72	6.08	0.94
-25℃	2.32	2.10	1.10	3.19	2.72	1.17	4.05	3.33	1.22	4.92	3.95	1.25	5.67	4.66	1.22	6.67	5.61	1.19	7.17	6.08	1.18
-20℃	2.88	2.13	1.35	3.95	2.74	1.44	5.01	3.36	1.49	6.08	3.97	1.53	7.01	4.68	1.50	8.26	5.63	1.47	8.88	6.10	1.46
-15℃	3.54	2.15	1.65	4.83	2.77	1.74	6.11	3.38	1.81	7.40	4.00	1.85	8.55	4.72	1.81	10.08	5.67	1.78	10.84	6.15	1.76
-10℃	4.26	2.16	1.97	5.81	2.78	2.09	7.36	3.41	2.16	8.91	4.03	2.21	10.30	4.76	2.16	12.15	5.73	2.12	13.08	6.22	2.10
-5℃	5.06	2.13	2.38	6.92	2.77	2.50	8.77	3.40	2.58	10.63	4.04	2.63	12.30	4.79	2.57	14.52	5.79	2.51	15.63	6.29	2.48
0℃	5.90	2.07	2.85	8.12	2.73	2.98	10.34	3.38	3.06	12.56	4.04	3.11	14.53	4.82	3.02	17.16	5.85	2.93	18.48	6.37	2.90

Note: ambient temperature 32℃, Suction temperature 18℃,Cooling capactNF & power data ±5%.

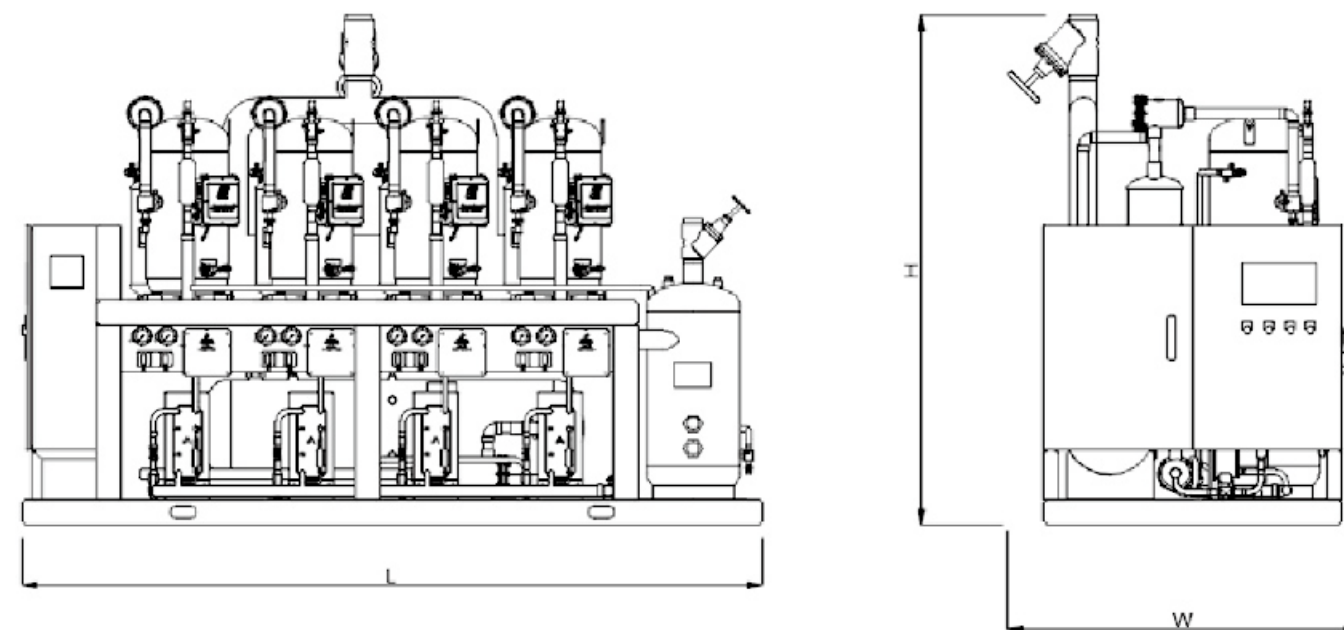
Compressor: CA90LHDG-D1YA

6HP

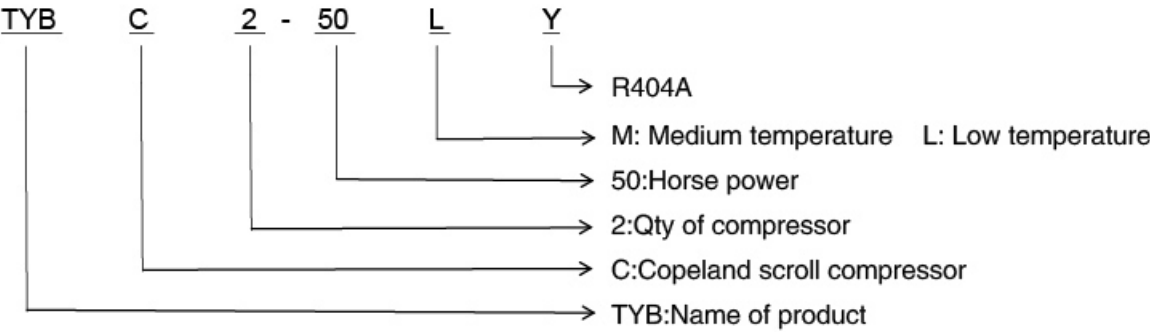
Frequency	30Hz			40Hz			50Hz			60Hz			70Hz			80Hz			90Hz		
Evap.Temp.Te	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)	Q(KW)	P(KW)	COP(W/W)
-40℃	1.38	2.67	0.52	1.98	3.55	0.56	2.59	4.44	0.58	3.19	5.32	0.60	3.60	6.22	0.58	4.02	7.13	0.56	4.43	8.03	0.55
-35℃	2.03	2.71	0.75	2.78	3.57	0.78	3.53	4.42	0.80	4.28	5.28	0.81	4.96	6.24	0.79	5.63	7.19	0.78	6.31	8.15	0.77
-30℃	2.68	2.74	0.98	3.63	3.59	1.01	4.58	4.43	1.03	5.53	5.28	1.05	6.45	6.26	1.03	7.37	7.24	1.02	8.29	8.22	1.01
-25℃	3.36	2.76	1.22	4.56	3.61	1.26	5.77	4.46	1.29	6.97	5.31	1.31	8.12	6.29	1.29	9.28	7.28	1.27	10.43	8.26	1.26
-20℃	4.12	2.77	1.49	5.62	3.63	1.55	7.11	4.49	1.58	8.61	5.35	1.61	10.01	6.33	1.58	11.41	7.31	1.56	12.81	8.29	1.55
-15℃	4.99	2.78	1.79	6.81	3.65	1.86	8.64	4.53	1.91	10.46	5.40	1.94	12.14	6.37	1.90	13.81	7.35	1.88	15.49	8.32	1.86
-10℃	6.00	2.79	2.15	8.18	3.67	2.23	10.37	4.55	2.28	12.55	5.43	2.31	14.55	6.41	2.27	16.55	7.38	2.24	18.55	8.36	2.22
-5℃	7.19	2.81	2.56	9.76	3.69	2.65	12.32	4.56	2.70	14.89	5.44	2.74	17.28	6.44	2.68	19.66	7.44	2.64	22.05	8.44	2.61
0℃	8.60	2.85	3.02	11.56	3.70	3.13	14.53	4.55	3.19	17.49	5.40	3.24	20.35	6.45	3.15	23.20	7.51	3.09	26.06	8.56	3.04

Note: ambient temperature 32℃, Suction temperature 18℃,Cooling capactNF & power data ±5%.

COPELAND RACK SCROLL CONDENSING UNIT



COPELAND RACK SCROLL CONDENSING UNIT



Model of unit (TYBC)		2- 50LY	3-75LY	4-100LY	2- 60LY	3-90LY	4-120LY	5-150LY
Applicable evaporation temperature (°C)		-5℃ ~ -40℃						
Refrigerant		R404A						
Power		380V/50HZ						
Compressor	Type	Fully enclosed scroll type						
	Model (ZFI)	ZFI96KQE	ZFI96KQE	ZFI96KQE	ZFI122KQE	ZFI122KQE	ZFI122KQE	ZFI122KQE
	Qty	2	3	4	2	3	4	5
Cooling capacity and power	Evaporation - 20℃	Cooling capacity(KW)	69.6	104.4	139.2	87.68	131.52	175.36
		Power(KW)	39	58.5	78	47.56	71.34	95.12
	Evaporation - 25℃	Cooling capacity(KW)	58.4	87.6	116.8	73.62	110.43	147.24
		Power(KW)	37.6	56.4	75.2	45.9	68.85	91.8
	Evaporation - 30℃	Cooling capacity(KW)	48.4	72.6	96.8	61.04	91.56	122.08
		Power(KW)	36.2	54.3	72.4	44.18	66.27	88.36
	Evaporation - 35℃	Cooling capacity(KW)	37.4	56.1	74.8	47.24	70.86	94.48
		Power(KW)	35.6	53.4	71.2	43.44	65.16	86.88
Connection	Evaporation - 40℃	Cooling capacity(KW)	28.6	42.9	57.2	36.08	54.12	72.16
		Power(KW)	33.7	50.55	67.4	41.14	61.71	82.28
	Suction connection(mm)	76	89	108	89	108	108	133
	Outlet connection(mm)	35	35	42	35	35	42	42
Overall size	Exhaust connection(mm)	42	54	54	42	54	54	67
	Liquid inlet connection(mm)	42	42	54	42	42	54	54
	L (mm)	1980	2480	2980	1980	2480	2980	3480
Overall size	W (mm)	1425	1425	1475	1425	1425	1475	1525
	H (mm)	2050	2050	2050	2050	2050	2050	2150

Condensing temperature 45℃
Ambient temperature 30℃