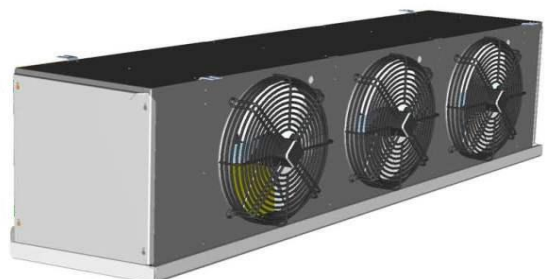


Evaporator Catalogue



Thermocoil

Thermocoil (Pty) Ltd is a Cape Town, South Africa based refrigeration and air-conditioning heat exchanger manufacturer. The technology behind Thermocoil is German, having close ties with Thermofin of Germany. This technology agreement has led to Thermocoil manufacturing the most efficient copper-aluminium heat exchangers using the most advanced manufacturing equipment.

Our standard ranges for Freon refrigeration include:

Evaporators : TEB, TEMB, TEDB, TDD and gravity coils

Condensers : TCHM, TCVM, TCV, TCD, TCPH, TCPV, TCCP and TCHS

We also manufacture Heat exchangers suitable for use with higher pressure refrigerants and CO2 (R744).

All Evaporators and Condensers are available in a format suitable for Glycol as a cooler or dry cooler.

Thermocoil also manufactures heat exchangers to OEM specifications, replacement heat exchangers and designs and produces heat exchangers for customized installations for both Freon and Chilled Water/Glycol installations.



EVAPORATORS

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Evaporator Design and Capacity Info

4

Quick Find List (Sorted by Capacity)

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Medium Temp Evaporators

5

Low Temp Evaporators

6

MEDIUM TEMP EVAPORATORS

TEB (Horizontal Blower)

8

TEB 031 Medium Temp

7

TEB 040 Medium Temp

8

TEB 050 Medium Temp

9

TEMB (Low Profile)

10

TEMB 025 & 031 Medium Temp

10

TEDB (Dual Discharge)

11

TEDB 035 Medium Temp

11

TEDB 050 Medium Temp

12

TDD (Mini Dual Discharge)

13

TDD 020 Medium Temp

13

LOW TEMP EVAPORATORS

TEB (Horizontal Blower)

14

TEB 031 Low Temp

14

TEB 040 Low Temp

15

TEB 050 Low Temp

16

TEMB (Low Profile)

17

TEMB 025 & 031 Low Temp

17

TEDB (Dual Discharge)

18

TEDB 035 Low Temp

18

TEDB 050 Low Temp

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GRAVITY COILS

Gravity Coils

20

BC & DC Gravity

20

INFORMATION

Diference between TDI & TDM and Selection Examples

21

Thermocoil reserves the right to modify or update any information within this catalogue without prior notice

Design

Housing

The standard housing is made of aluminium with food safe powder coating to RAL 9010 (Appliance White).

Heat Exchanger Coil

Featuring tube spacing of 40 x 34.6 mm in a staggered layout with inner grooved copper tube of Ø12 mm. Fins are made of pure aluminium with fin spacing of 4mm and 7mm. The heat exchangers are soldered under inert gas and are thus non-oxidizing. As standard, the refrigerant connection is located on the right side in the air direction.

Certain smaller designs utilize tube spacing of 25 x 21.65 mm with inner grooved copper tube of Ø3/8".

Drip Tray

Inside and outside drip tray are made of Aluminium. The outside tray is powder coated and can be removed for cleaning purposes.

Fans

Ø200/ 250/ 315/ 350/ 400/ 500

The data indicated in the brochure refer to silent axial fans with maintenance free external rotor motors of protection class IP54 according to DIN40050 insulation class F, (Motors & 315 protection class IP44).

The admissible operating range is -35°C to +55°C. Motor protection must be connected via thermal contacts integrated in the windings. Depending on the fan type, the motor data may vary. Please take into account the power consumption will change at low air temperature and other pressure drops. We reserve the right to use fans from different manufacturers. For the corresponding electrical data please refer to the nameplate.

Sound Pressure Levels

Sound pressure level at 1 m distance according to DIN 45635, part 14 without reflection. Since cold storage rooms have only a very low absorbing capacity, the sound pressure level will decrease slightly at other distances. The indicated value is only a reference value; the actual sound pressure level must be calculated on the basis of the acoustic capacity and taking prevailing conditions into account.

Defrosting

Electrical defrosting in coil and tray is wired ready for connection according to VDE 0720. For better heat transfer and replacement the heating rods lie in copper contact tube.

Capacity Data

The nominal cooling capacities are valid for refrigerant R22 and R404a and are based on the Air Inlet Temperature Difference ΔT_1 (difference between cooler air inlet temperature t_{L1} and evaporation temperature t_0 , $\Delta T_1 = t_{L1} - t_0$). These Conditions are marked with ΔT_1 and comply with the ENV 328 Standards and the Eurovent certification regulations.

Correction factors according to Eurovent

$$Q_N = \frac{Q_0}{F_1 \times F_2}$$

Q_N = Evaporator Nominal Capacity
 Q_0 = Evaporator Capacity

F_1 = Correction Factor for Refrigerant (Based on R404A)

Refrigerant	R404A	R 507	R134A	R 22
$t_0 = -8^\circ\text{C}$	1.00	1.00	0.91	0.95
$t_0 = -25^\circ\text{C}$	1.00	1.00	0.85	0.95

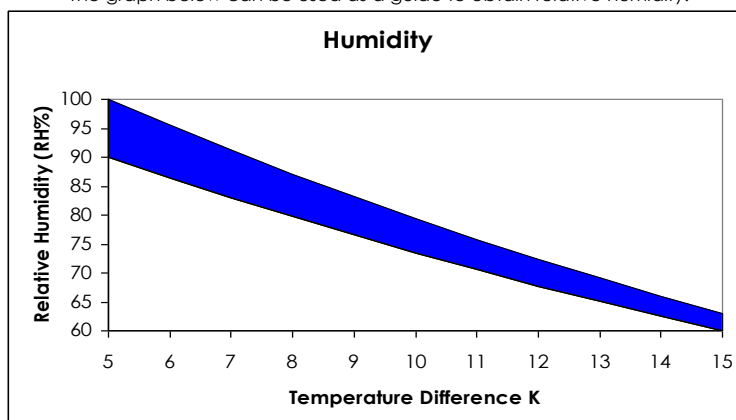
F_2 = Correction Factor for Fin Material

F_2 : Material	
1.00	Aluminium
0.97	Coated Aluminium
1.03	Copper

The technical data is acquired by theoretical means and is subject to the usual tolerance. Subject to change without prior notice.

Humidity

The graph below can be used as a guide to obtain relative humidity.



Efficient Operation at a Temperature Difference Below 7 is Only Attainable Using an Electronic Expansion Valve

QUICK FIND LIST

MEDIUM TEMP

SORTED BY CAPACITY

Type	Code	kW	Style	Page
TDD	020.1-B-1-4	0.5	Mini Dual Discharge	13
TDD	020.1-C-1-4	0.8	Mini Dual Discharge	13
TEMB	025.1-B-1-4	0.7	Low Profile	10
TDD	020.1-B-2-4	1.1	Mini Dual Discharge	13
TEMB	025.1-C-1-4	1.1	Low Profile	10
TEMB	025.1-B-2-4	1.7	Low Profile	10
TEMB	025.1-C-2-4	2.0	Low Profile	10
TEMB	031.1-B-1-4	2.1	Low Profile	10
TEB	031.1-B-1-4	2.4	Horizontal Blower	7
TEMB	025.1-B-3-4	2.7	Low Profile	10
TEMB	031.1-C-1-4	2.7	Low Profile	10
TEB	031.1-C-1-4	3.0	Horizontal Blower	7
TEMB	025.1-C-3-4	3.2	Low Profile	10
TEMB	031.1-E-1-4	3.2	Low Profile	10
TEB	031.1-E-1-4	3.4	Horizontal Blower	7
TEDB	035.1-B-1-4	3.7	Dual Discharge	11
TEMB	031.1-B-2-4	4.4	Low Profile	10
TEB	040.1-B-1-4	4.7	Horizontal Blower	8
TEB	031.1-B-2-4	5.1	Horizontal Blower	7
TEDB	035.1-C-1-4	5.1	Dual Discharge	11
TEMB	031.1-C-2-4	5.4	Low Profile	10
TEB	040.1-C-1-4	5.9	Horizontal Blower	8
TEB	031.1-C-2-4	6.0	Horizontal Blower	7
TEMB	031.1-E-2-4	6.3	Low Profile	10
TEMB	031.1-B-3-4	6.5	Low Profile	10
TEB	031.1-E-2-4	7.2	Horizontal Blower	7
TEB	040.1-E-1-4	7.3	Horizontal Blower	8
TEB	031.1-B-3-4	7.5	Horizontal Blower	7
TEMB	031.1-C-3-4	7.9	Low Profile	10
TEDB	035.1-B-2-4	8.6	Dual Discharge	11
TEB	031.1-C-3-4	9.0	Horizontal Blower	7
TEMB	031.1-E-3-4	9.5	Low Profile	10
TEB	031.1-B-4-4	9.8	Horizontal Blower	7
TEB	040.1-B-2-4	9.8	Horizontal Blower	8
TEDB	035.1-C-2-4	10.3	Dual Discharge	11
TEB	031.1-E-3-4	10.9	Horizontal Blower	7
TEB	050.1-C-1-4	10.9	Horizontal Blower	9
TEDB	050.1-C-1-4	10.9	Dual Discharge	12
TEB	040.1-C-2-4	11.9	Horizontal Blower	8
TEB	031.1-C-4-4	12.0	Horizontal Blower	7
TEDB	035.1-B-3-4	12.8	Dual Discharge	11
TEB	050.1-E-1-4	13.6	Horizontal Blower	9
TEDB	050.1-E-1-4	13.6	Dual Discharge	12
TEB	040.1-B-3-4	13.9	Horizontal Blower	8
TEB	031.1-E-4-4	14.4	Horizontal Blower	7
TEB	050.1-F-1-4	14.7	Horizontal Blower	9
TEDB	050.1-F-1-4	14.7	Dual Discharge	12
TEB	040.1-E-2-4	14.8	Horizontal Blower	8
TEDB	035.1-C-3-4	15.4	Dual Discharge	11
TEDB	035.1-B-4-4	15.8	Dual Discharge	11
TEB	040.1-C-3-4	17.4	Horizontal Blower	8
TEB	040.1-B-4-4	19.2	Horizontal Blower	8
TEDB	035.1-C-4-4	19.4	Dual Discharge	11
TEB	050.1-C-2-4	21.8	Horizontal Blower	9
TEDB	050.1-C-2-4	21.8	Dual Discharge	12
TEB	040.1-E-3-4	21.9	Horizontal Blower	8
TEB	040.1-C-4-4	23.4	Horizontal Blower	8
TEB	040.1-E-4-4	26.6	Horizontal Blower	8
TEB	050.1-E-2-4	27.3	Horizontal Blower	9
TEDB	050.1-E-2-4	27.3	Dual Discharge	12
TEB	050.1-F-2-4	29.5	Horizontal Blower	9
TEDB	050.1-F-2-4	29.5	Dual Discharge	12
TEB	050.1-C-3-4	32.1	Horizontal Blower	9
TEDB	050.1-C-3-4	32.1	Dual Discharge	12
TEB	050.1-E-3-4	41.1	Horizontal Blower	9
TEDB	050.1-E-3-4	41.1	Dual Discharge	12
TEB	050.1-C-4-4	41.3	Horizontal Blower	9
TEB	050.1-F-3-4	46.1	Horizontal Blower	9
TEDB	050.1-F-3-4	46.1	Dual Discharge	12
TEB	050.1-E-4-4	53.5	Horizontal Blower	9
TEB	050.1-F-4-4	60.9	Horizontal Blower	9

Nominal
Capacity
R 404a
-8°C SST
ΔT1=8K

QUICK FIND LIST

LOW TEMP

SORTED BY CAPACITY

Type	Code	kW	Style	Page
TEMB	025.1-B-1-7	0.4	Low Profile	17
TEMB	025.1-C-1-7	0.6	Low Profile	17
TEMB	025.1-B-2-7	0.9	Low Profile	17
TEB	031.1-B-1-7	1.2	Horizontal Blower	14
TEMB	025.1-C-2-7	1.2	Low Profile	17
TEMB	031.1-B-1-7	1.3	Low Profile	17
TEMB	025.1-B-3-7	1.4	Low Profile	17
TEB	031.1-C-1-7	1.6	Horizontal Blower	14
TEMB	031.1-C-1-7	1.7	Low Profile	17
TEMB	025.1-C-3-7	1.8	Low Profile	17
TEB	031.1-E-1-7	2.0	Horizontal Blower	14
TEMB	031.1-E-1-7	2.1	Low Profile	17
TEDB	035.1-B-1-7	2.3	Dual Discharge	18
TEB	040.1-B-1-7	2.4	Horizontal Blower	15
TEB	031.1-B-2-7	2.7	Horizontal Blower	14
TEMB	031.1-B-2-7	2.7	Low Profile	17
TEDB	035.1-C-1-7	2.9	Dual Discharge	18
TEB	040.1-C-1-7	3.1	Horizontal Blower	15
TEB	031.1-C-2-7	3.3	Horizontal Blower	14
TEMB	031.1-C-2-7	3.3	Low Profile	17
TEMB	031.1-B-3-7	3.9	Low Profile	17
TEB	031.1-B-3-7	4.0	Horizontal Blower	14
TEB	040.1-E-1-7	4.1	Horizontal Blower	15
TEMB	031.1-E-2-7	4.2	Low Profile	17
TEB	031.1-E-2-7	4.3	Horizontal Blower	14
TEDB	035.1-B-2-7	4.7	Dual Discharge	18
TEB	040.1-B-2-7	4.9	Horizontal Blower	15
TEMB	031.1-C-3-7	4.9	Low Profile	17
TEB	031.1-C-3-7	5.0	Horizontal Blower	14
TEB	031.1-B-4-7	5.3	Horizontal Blower	14
TEB	050.1-C-1-7	5.8	Horizontal Blower	16
TEDB	050.1-C-1-7	5.8	Dual Discharge	19
TEDB	035.1-C-2-7	5.9	Dual Discharge	18
TEB	040.1-C-2-7	6.2	Horizontal Blower	15
TEB	031.1-E-3-7	6.3	Horizontal Blower	14
TEMB	031.1-E-3-7	6.3	Low Profile	17
TEDB	035.1-B-3-7	6.4	Dual Discharge	18
TEB	031.1-C-4-7	6.5	Horizontal Blower	14
TEB	040.1-B-3-7	7.4	Horizontal Blower	15
TEB	050.1-E-1-7	7.8	Horizontal Blower	16
TEDB	050.1-E-1-7	7.8	Dual Discharge	19
TEB	040.1-E-2-7	8.0	Horizontal Blower	15
TEB	031.1-E-4-7	8.6	Horizontal Blower	14
TEDB	035.1-C-3-7	8.9	Dual Discharge	18
TEDB	035.1-B-4-7	9.0	Dual Discharge	18
TEB	050.1-F-1-7	9.2	Horizontal Blower	16
TEDB	050.1-F-1-7	9.2	Dual Discharge	19
TEB	040.1-C-3-7	9.3	Horizontal Blower	15
TEB	040.1-B-4-7	9.9	Horizontal Blower	15
TEB	050.1-C-2-7	11.3	Horizontal Blower	16
TEDB	035.1-C-4-7	11.3	Dual Discharge	18
TEDB	050.1-C-2-7	11.3	Dual Discharge	19
TEB	040.1-E-3-7	12.4	Horizontal Blower	15
TEB	040.1-C-4-7	12.4	Horizontal Blower	15
TEB	050.1-E-2-7	15.7	Horizontal Blower	16
TEDB	050.1-E-2-7	15.7	Dual Discharge	19
TEB	040.1-E-4-7	16.5	Horizontal Blower	15
TEB	050.1-C-3-7	17.6	Horizontal Blower	16
TEDB	050.1-C-3-7	17.6	Dual Discharge	19
TEB	050.1-F-2-7	18.5	Horizontal Blower	16
TEDB	050.1-F-2-7	18.5	Dual Discharge	19
TEB	050.1-C-4-7	22.6	Horizontal Blower	16
TEB	050.1-E-3-7	23.3	Horizontal Blower	16
TEDB	050.1-E-3-7	23.3	Dual Discharge	19
TEB	050.1-F-3-7	28.1	Horizontal Blower	16
TEDB	050.1-F-3-7	28.1	Dual Discharge	19
TEB	050.1-E-4-7	31.1	Horizontal Blower	16
TEB	050.1-F-4-7	37.5	Horizontal Blower	16

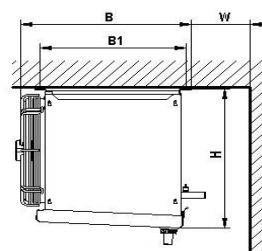
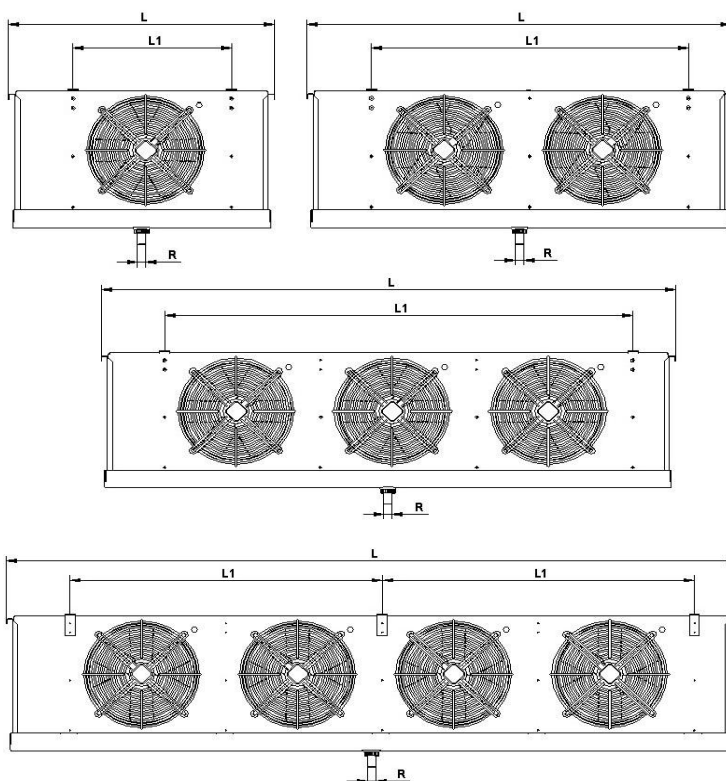
Nominal
Capacity
R 404a
-25°C SST
ΔT1=7K

MEDIUM TEMP

TEB 031

4mm Fin Spacing

	Nominal Capacity R 404a -8°C SST ΔT1=8K	Surface Area	Airflow	Dia 315 Fan Qty	Sound Pressure Level	Air Throw	Defrost * Heating (220V)				Dimensions						Mounting Points	Connections				Tube Volume	Net Weight
							Total Heat	In Coil	In Dirtray	Total Amps **	L	B	H	L1	B1	W		Refrig					
																		Inlet	Outlet	Drain			
																					kW		
031.1-B-1-4	2.4	9	1660	1	53	11	1.12	0.62	0.50	5.1	770	500	450	460	390	300	4	1/2	3/4	3/4	1.8	20	
031.1-C-1-4	3.0	12	1580	1	53	10	1.74	1.24	0.50	7.9	770	500	450	460	390	300	4	1/2	3/4	3/4	2.3	22	
031.1-E-1-4	3.4	18	1430	1	53	9	1.74	1.24	0.50	7.9	770	500	450	460	390	300	4	1/2	3/4	3/4	3.4	26	
031.1-B-2-4	5.1	18	3330	2	55	13	2.25	1.60	0.65	10.2	1230	500	450	920	390	300	4	1/2	7/8	3/4	4	34	
031.1-C-2-4	6.0	25	3170	2	55	12	2.37	1.72	0.65	10.8	1230	500	450	920	390	300	4	1/2	7/8	3/4	5	36	
031.1-E-2-4	7.2	37	2860	2	55	11	2.37	1.72	0.65	10.8	1230	500	450	920	390	300	4	1/2	11/8	3/4	7	43	
031.1-B-3-4	7.5	28	4990	3	56	14	2.40	1.40	1.00	10.9	1690	500	450	1380	390	300	4	1/2	11/8	3/4	5	45	
031.1-C-3-4	9.0	37	4750	3	56	13	3.80	2.80	1.00	17.3	1690	500	450	1380	390	300	4	1/2	11/8	3/4	7	50	
031.1-E-3-4	10.9	55	4280	3	56	12	3.80	2.80	1.00	17.3	1690	500	450	1380	390	300	4	1/2	13/8	3/4	10	62	
031.1-B-4-4	9.8	37	6650	4	57	14	3.15	2.00	1.15	14.3	2150	500	450	920	390	300	6	1/2	13/8	3/4	7	58	
031.1-C-4-4	12.0	50	6330	4	57	14	5.15	4.00	1.15	23.4	2150	500	450	920	390	300	6	1/2	13/8	3/4	9	64	
031.1-E-4-4	14.4	74	5710	4	57	13	5.15	4.00	1.15	23.4	2150	500	450	920	390	300	6	7/8	13/8	3/4	13	80	



FAN Rating D315 Fan 220V			
Frequency	Hz	50	60
Speed	RPM	1340	1490
Power Draw	Watts	86	117
Current Draw	Amps	0.38	0.51

		Temperature Difference (K)							
		5	6	7	8	9	10	11	12
Suction Temp (°C)	-10	0.46	0.63	0.81	0.99	1.18	1.37	1.54	1.7
	-5	0.48	0.64	0.83	1.03	1.22	1.42	1.6	1.8
	0	0.49	0.64	0.85	1.06	1.28	1.51	1.69	1.9
	5	0.5	0.65	0.88	1.11	1.36	1.61	1.81	2
	10	0.51	0.66	0.9	1.17	1.44	1.72	1.93	2.2

A Temp difference below 7K is only attainable via an Electronic Expansion Valve

* Defrost heaters are only supplied for medium temp coils if specifically ordered

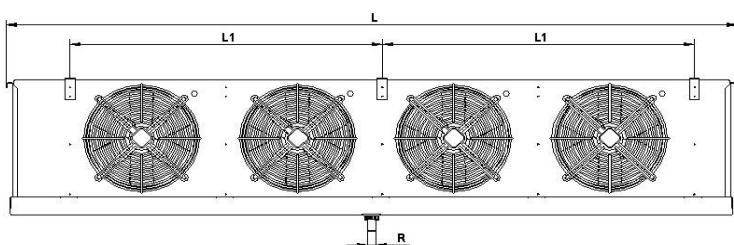
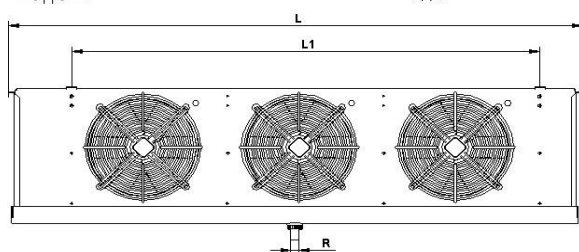
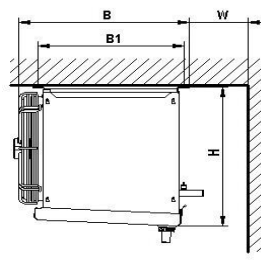
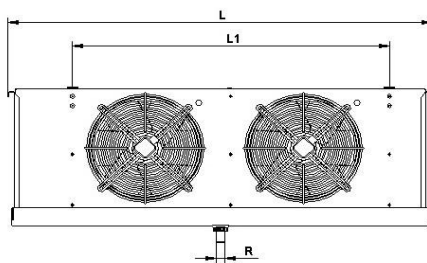
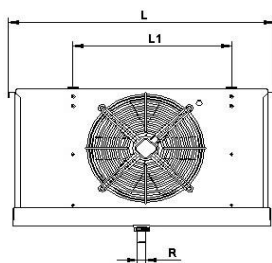
** If total amps are more than 25A then heaters are split into two sets each less than 25A and with own thermostats

MEDIUM TEMP

TEB 040

4mm Fin Spacing

	Nominal Capacity R 404a -8°C SST ΔT1=8K	Surface Area	Airflow	Dia 400 Fan Qty	Sound Pressure Level	Air Throw	Defrost * Heating (220V)				Dimensions						Mounting Points	Connections			Tube Volume	Net Weight
							Total Heat	In Coil	In Dirptay	Total Amps **	L	B	H	L1	B1	W		Refrig				
																		Inlet	Outlet	Drain		
kW	m²	m³/hr	Qty	dB-1m	m	kW	kW	kW	A	mm	mm	mm	mm	mm	mm	Qty	In."	In."	MPT "	L	Kg	
040.1-B-1-4	4.7	16	3290	1	62	14	2.06	1.46	0.60	9.4	1030	530	580	680	405	400	4	1/2	7/8"	11/4	2.9	20
040.1-C-1-4	5.9	22	3180	1	62	13	2.06	1.46	0.60	9.4	1030	530	580	680	405	400	4	5/8	7/8"	11/4	3.9	30
040.1-E-1-4	7.3	33	2900	1	62	12	2.79	2.19	0.60	12.7	1030	530	580	680	405	400	4	5/8	11/8"	11/4	5.8	38
040.1-B-2-4	9.8	33	6580	2	64	16	3.80	2.80	1.00	17.3	1710	530	580	1360	405	400	4	5/8	11/8"	11/4	6	47
040.1-C-2-4	11.9	44	6380	2	64	15	3.80	2.80	1.00	17.3	1710	530	580	1360	405	400	4	5/8	13/8	11/4	8	54
040.1-E-2-4	14.8	65	5850	2	64	14	5.20	4.20	1.00	23.6	1710	530	580	1360	405	400	4	7/8	13/8	11/4	11	69
040.1-B-3-4	13.9	49	9870	3	63	17	4.85	3.60	1.25	22.0	2390	530	580	2040	405	400	4	5/8	13/8	11/4	9	68
040.1-C-3-4	17.4	65	9540	3	63	16	4.85	3.60	1.25	22.0	2390	530	580	2040	405	400	4	11/8	15/8	11/4	11	79
040.1-E-3-4	21.9	98	8730	3	63	15	6.65	5.40	1.25	30.2	2390	530	580	2040	405	400	4	11/8	15/8	11/4	17	101
040.1-B-4-4	19.2	66	13160	4	64	18	6.65	5.00	1.65	30.2	3070	530	580	1360	405	400	6	7/8	15/8	11/4	11	88
040.1-C-4-4	23.4	88	12720	4	64	17	6.65	5.00	1.65	30.2	3070	530	580	1360	405	400	6	11/8	15/8	11/4	15	102
040.1-E-4-4	26.6	133	11750	4	64	16	9.15	7.50	1.65	41.6	3070	530	580	1360	405	400	6	11/8	15/8	11/4	22	132



FAN Rating D400 Fan 220V

Frequency	Hz	50	60
Speed	RPM	1430	1700
Power Draw	Watts	160	240
Current Draw	Amps	0.73	1.06

Temperature Difference (K)

Suction Temp (°C)	Temperature Difference (K)							
	5	6	7	8	9	10	11	12
-10	0.46	0.63	0.81	0.99	1.18	1.37	1.54	1.7
-5	0.48	0.64	0.83	1.03	1.22	1.42	1.6	1.8
0	0.49	0.64	0.85	1.06	1.28	1.51	1.69	1.9
5	0.5	0.65	0.88	1.11	1.36	1.61	1.81	2
10	0.51	0.66	0.9	1.17	1.44	1.72	1.93	2.2

A Temp difference below 7K is only attainable via an Electronic Expansion Valve

* Defrost heaters are only supplied for medium temp coils if specifically ordered

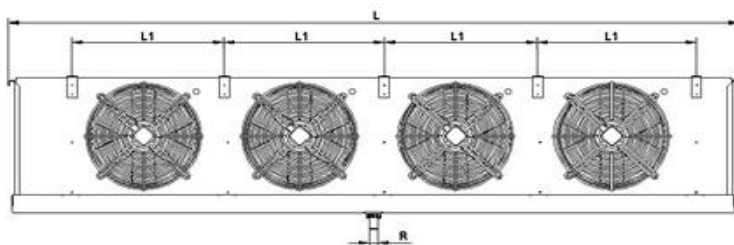
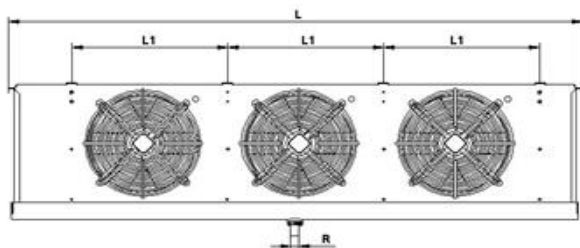
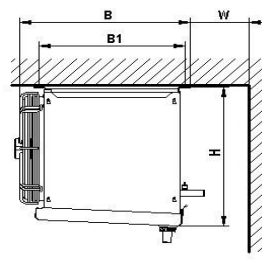
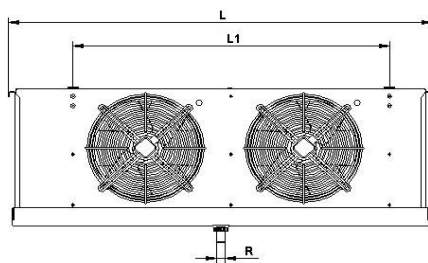
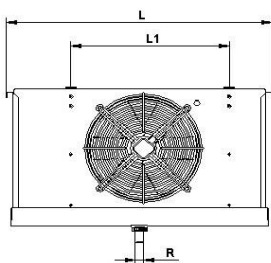
** If total amps are more than 25A then heaters are split into two sets each less than 25A and with own thermostats

MEDIUM TEMP

TEB 050

4mm Fin Spacing

	Nominal Capacity R 404a -8°C SST ΔT1=8K	Surface Area	Airflow	Dia 500 Fan Qty	Sound Pressure Level	Air Throw	Defrost * Heating (380V)				Dimensions						Mounting Points	Connections			Tube Volume	Net Weight
							Total Heat	In Coil	In Dirtray	Max Amp / Ø **	L	B	H	L1	B1	W		Refrig				
																		Inlet	Outlet	Drain		
	kW	m²	m³/hr	Qty	dB-1m	m	kW	kW	kW	A	mm	mm	mm	mm	mm	Qty	In."	In."	MPT"	L	Kg	
050.1-C-1-4	10.9	43	5970	1	63	20	4.90	3.60	1.30	7.7	1423	680	685	1000	538	500	4	7/8	11/8	11/4	7.3	63
050.1-E-1-4	13.6	64	5730	1	63	19	5.80	4.50	1.30	9.2	1423	680	685	1000	538	500	4	7/8	11/8	11/4	11	77
050.1-F-1-4	14.7	86	5410	1	63	18	5.80	4.50	1.30	9.2	1423	680	685	1000	538	500	4	7/8	13/8	11/4	14.6	93
050.1-C-2-4	21.8	86	11940	2	65	22	9.20	7.00	2.20	14.5	2423	680	685	2000	538	500	4	13/8	15/8	11/4	15	114
050.1-E-2-4	27.3	128	11470	2	65	22	10.9	8.75	2.20	17.0	2423	680	685	2000	538	500	4	13/8	15/8	11/4	22	145
050.1-F-2-4	29.5	171	10830	2	65	21	10.9	8.75	2.20	17.0	2423	680	685	2000	538	500	4	13/8	21/8	11/4	29	175
050.1-C-3-4	32.1	128	17910	3	67	24	13.5	10.4	3.10	21.4	3423	680	685	1000	538	500	8	13/8	21/8	11/4	21	165
050.1-E-3-4	41.1	193	17200	3	67	23	16.1	13.4	3.10	24.9	3423	680	685	1000	538	500	8	13/8	25/8	11/4	32	213
050.1-F-3-4	46.1	257	16250	3	67	22	18.7	15.6	3.10	30.8	3423	680	685	1000	538	500	8	13/8	25/8	11/4	42	238
050.1-C-4-4	41.3	172	23880	4	67	24	17.8	13.8	4.00	28.3	4423	680	685	1000	538	500	10	13/8	25/8	11/4	28	215
050.1-E-4-4	53.5	257	22940	4	67	24	21.3	17.3	4.00	32.8	4423	680	685	1000	538	500	10	13/8	25/8	11/4	42	273
050.1-F-4-4	60.9	343	21660	4	67	23	24.7	20.7	4.00	40.6	4423	680	685	1000	538	500	10	13/8	25/8"	11/4	56	330



FAN Rating D500 Fan 380V		
Frequency	Hz	50
Speed	RPM	1360
Power Draw	Watts	820
Current Draw	Amps	1.5

		Temperature Difference (K)							
		5	6	7	8	9	10	11	12
Suction Temp (°C)	-10	0.46	0.63	0.81	0.99	1.18	1.37	1.54	1.7
	-5	0.48	0.64	0.83	1.03	1.22	1.42	1.6	1.8
	0	0.49	0.64	0.85	1.06	1.28	1.51	1.69	1.9
	5	0.5	0.65	0.88	1.11	1.36	1.61	1.81	2
	10	0.51	0.66	0.9	1.17	1.44	1.72	1.93	2.2

A Temp difference below 7K is only attainable via an Electronic Expansion Valve

* Defrost heaters are only supplied for medium temp coils if specifically ordered

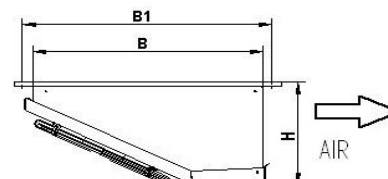
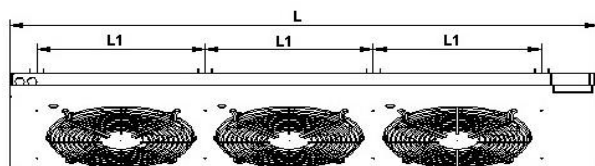
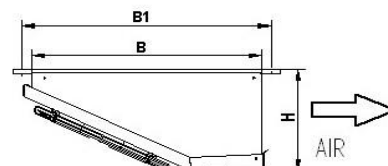
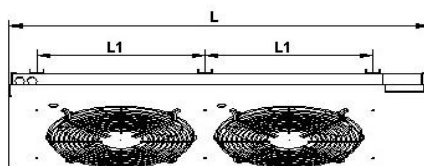
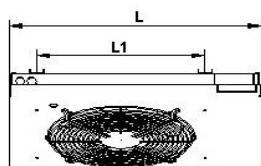
** If total amps are more than 25A then heaters are split into two sets each less than 25A and with own thermostats

MEDIUM TEMP

TEMB 025/031

4mm Fin Spacing

	Nominal Capacity R 404a -8°C SST ΔT1=8K	Surface Area	Airflow	Dia 250 / 315 Fan Qty	Sound Pressure Level	Air Throw	Defrost * Heating (220V)				Dimensions					Mounting Points	Exp. Valve Type To Use	Connections			Tube Volume	Net Weight
							Total Heat	In Coil	In Dirtray	Total Amps	L	B	H	L1	B1			Inlet	Outlet	Drain		
kW	m²	m³/hr	Qty	dB-1m	m	kW	kW	kW	A	mm	mm	mm	mm	mm	Qty		In."	In."	MPT "	L	Kg	
025.1-B-1-4	0.7	3.5	581	1	49	6	0.30	0	0.30	1.4	524	509	242	350	532	4	Int	1/2	5/8	3/4	0.7	8
025.1-C-1-4	1.1	4.7	529	1	49	6	0.30	0	0.30	1.4	524	509	242	350	532	4	Int	1/2	5/8	3/4	0.9	9
025.1-B-2-4	1.7	7.0	1162	2	52	8	0.60	0	0.60	2.7	874	509	242	350	532	6	Int	1/2	5/8	3/4	1.3	16
025.1-C-2-4	2.0	9.4	1059	2	52	8	0.60	0	0.60	2.7	874	509	242	350	532	6	Int	1/2	5/8	3/4	1.6	17
025.1-B-3-4	2.7	11	1743	3	55	10	0.84	0	0.84	3.8	1224	509	242	350	532	8	Int	1/2	5/8	3/4	1.8	21
025.1-C-3-4	3.2	14	1588	3	55	10	0.84	0	0.84	3.8	1224	509	242	350	532	8	Int	1/2	5/8	3/4	2.3	22
031.1-B-1-4	2.1	8.2	1710	1	50	9	0.73	0.00	0.73	3.3	884	554	285	680	597	4	Int	1/2	5/8	3/4	1.4	15
031.1-C-1-4	2.7	11	1564	1	50	8	1.46	0.73	0.73	6.6	884	554	285	680	597	4	Int	1/2	5/8	3/4	1.9	17
031.1-E-1-4	3.2	16	1358	1	50	7	1.46	0.73	0.73	6.6	884	554	285	680	597	4	Ext	1/2	3/4	3/4	2.9	20
031.1-B-2-4	4.4	16	3426	2	53	11	1.40	0.00	1.40	6.4	1564	554	285	680	597	6	Int	1/2	3/4	3/4	2.8	29
031.1-C-2-4	5.4	22	3128	2	53	10	2.80	1.40	1.40	12.7	1564	554	285	680	597	6	Ext	1/2	3/4	3/4	3.8	33
031.1-E-2-4	6.3	33	2716	2	53	9	2.80	1.40	1.40	12.7	1564	554	285	680	597	6	Ext	1/2	3/4	3/4	5.8	39
031.1-B-3-4	6.5	25	5139	3	54	12	1.80	0.00	1.80	8.2	2244	554	285	680	597	8	Ext	1/2	11/8	3/4	4.2	43
031.1-C-3-4	7.9	33	4692	3	54	11	3.60	1.80	1.80	16.4	2244	554	285	680	597	8	Ext	1/2	11/8	3/4	5.7	49
031.1-E-3-4	9.5	49	4074	3	54	10	3.60	1.80	1.80	16.4	2244	554	285	680	597	8	Ext	5/8	11/8	3/4	8.7	58



FAN Rating 220V		D250		D315	
Frequency	Hz	50	60	50	60
Speed	RPM	1390	1600	1340	1490
Power Draw	Watts	63	69	86	117
Current Draw	Amps	0.45	0.53	0.38	0.51

		Temperature Difference (K)									
Suction Temp (°C)		5	6	7	8	9	10	11	12		
	-10	0.46	0.63	0.81	0.99	1.18	1.37	1.54	1.7		
	-5	0.48	0.64	0.83	1.03	1.22	1.42	1.6	1.8		
	0	0.49	0.64	0.85	1.06	1.28	1.51	1.69	1.9		
	5	0.5	0.65	0.88	1.11	1.36	1.61	1.81	2		
	10	0.51	0.66	0.9	1.17	1.44	1.72	1.93	2.2		

A Temp difference below 7K is only attainable via an Electronic Expansion Valve

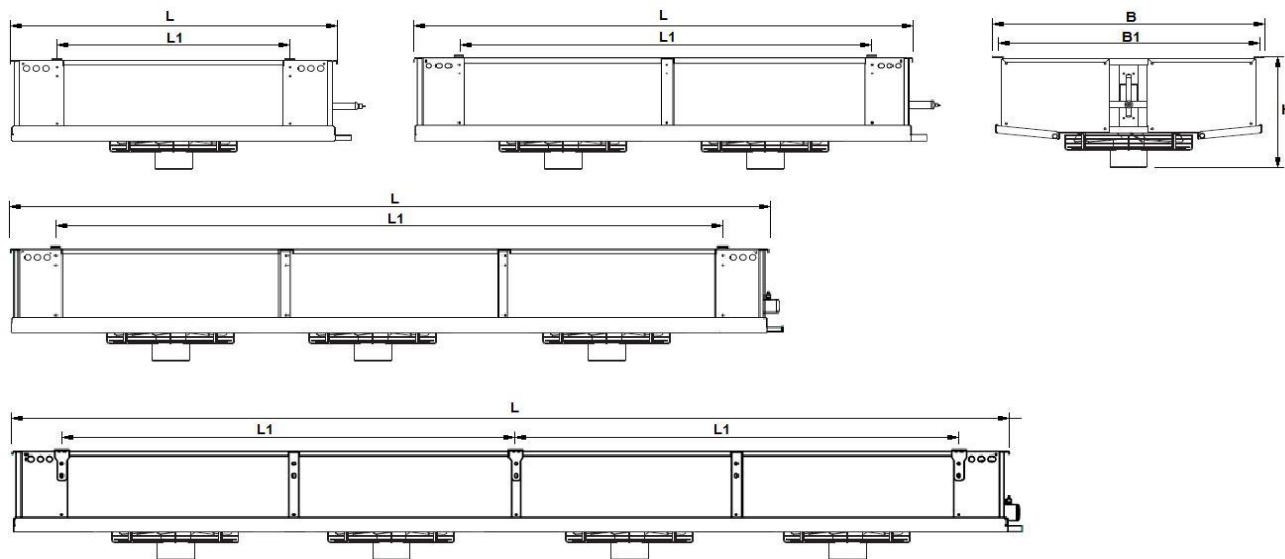
* Defrost heaters are only supplied for medium temp coils if specifically ordered

MEDIUM TEMP

TEDB 035

4mm Fin Spacing

	Nominal Capacity R 404a -8°C SST ΔT1=8K	Surface Area	Airflow	Dia 350 Fan Qty	Sound Pressure Level	Air Throw (Each side)	Defrost *			Dimensions					Mounting Points	Connections			Tube Volume	Net Weight	
							Heating (220V)			L	B	H	L1	B1		Refrig	Inlet	Outlet			Drain
							Total Heat	Per Coil	Total Amps												
kW	m²	m³/hr	Qty	dB-1m	m	kW	kW	A	mm	mm	mm	mm	mm	Qty	In."	In."	In."	L	Kg		
035.1-B-1-4	3.7	16	2686	1	52	6	1.46	0.73	10	1010	841	375	720	806	4	5/8	7/8	2x5/8	2.9	31	
035.1-C-1-4	5.1	22	2606	1	52	5	1.46	0.73	10	1010	841	375	720	806	4	5/8	7/8	2x5/8	3.9	34	
035.1-B-2-4	8.6	33	5364	2	54	8	2.80	1.40	16	1690	841	375	1400	806	4	5/8	11/8	2x5/8	4.9	53	
035.1-C-2-4	10.3	44	5220	2	54	8	2.80	1.40	16	1690	841	375	1400	806	4	5/8	11/8	2x5/8	7.4	58	
035.1-B-3-4	12.8	49	8064	3	56	10	3.60	1.80	20	2370	841	375	2070	806	4	7/8	11/8	2x5/8	8.2	73	
035.1-C-3-4	15.4	65	7812	3	56	9	3.60	1.80	20	2370	841	375	2070	806	4	7/8	13/8	2x5/8	10.9	82	
035.1-B-4-4	15.8	65	10728	4	57	11	5.00	2.50	16 (3~)	3050	863	375	1390	828	6	7/8	15/8	2x5/8	10.9	94	
035.1-C-4-4	19.4	87	10440	4	57	11	5.00	2.50	16 (3~)	3050	863	375	1390	282	6	7/8	15/8	2x5/8	14.5	106	



FAN Rating D350 Fan 220V		
Frequency	Hz	50
Speed	RPM	1400
Power Draw	Watts	130
Current Draw	Amps	0.58

		Temperature Difference (K)							
Suction Temp (°C)		5	6	7	8	9	10	11	12
	-10	0.46	0.63	0.81	0.99	1.18	1.37	1.54	1.73
	-5	0.48	0.64	0.83	1.03	1.22	1.42	1.6	1.79
	0	0.49	0.64	0.85	1.06	1.28	1.51	1.69	1.9
	5	0.5	0.65	0.88	1.11	1.36	1.61	1.81	2.03
	10	0.51	0.66	0.9	1.17	1.44	1.72	1.93	2.18

A Temp difference below 7K is only attainable via an Electronic Expansion Valve

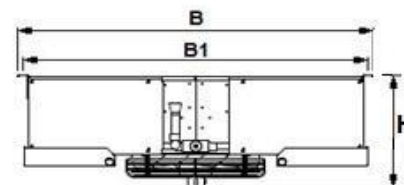
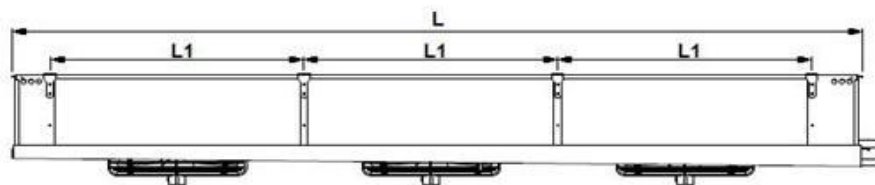
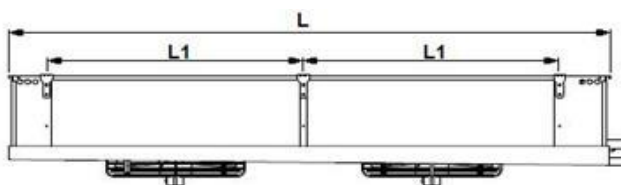
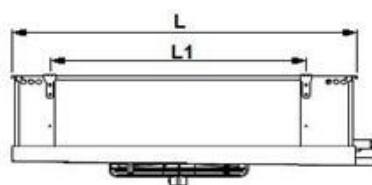
* Defrost heaters are only supplied for medium temp coils if specifically ordered

MEDIUM TEMP

TEDB 050

4mm Fin Spacing

	Nominal Capacity R 404a -8°C SST ΔT1=8K	Surface Area	Airflow	Dia 500 Fan Qty	Sound Pressure Level	Air Throw (each side)	Defrost*				Dimensions					Mounting Points	Connections			Tube Volume	Net Weight
							Heating (380V)				L	B	H	L1	B1		Inlet	Outlet	Drain		
							Total Heat	Per Coil	Per Driptray	Max Amp / Ø **											
kW	m²	m³/hr	Qty	dB-1m	m	kW	kW	kW	A	mm	mm	mm	mm	mm	Qty	In."	In."	MPT "	L	Kg	
050.1-C-1-4	10.9	43	5970	1	63	16	4.90	1.80	0.65	7.7	1350	1410	472	1000	1360	4	7/8	11/8	2x11/4	7.3	68
050.1-E-1-4	13.6	64	5730	1	63	15	6.70	2.70	0.65	11.2	1350	1410	472	1000	1360	4	7/8	11/8	2x11/4	11	82
050.1-F-1-4	14.7	86	5410	1	63	14	6.70	2.70	0.65	11.2	1350	1410	472	1000	1360	4	7/8	13/8	2x11/4	15	97
050.1-C-2-4	21.8	86	11940	2	65	18	9.20	3.50	1.10	14.5	2350	1410	472	1000	1360	6	13/8	15/8	2x11/4	15	123
050.1-E-2-4	27.3	128	11470	2	65	18	12.7	5.3	1.10	21.0	2350	1410	472	1000	1360	6	13/8	15/8	2x11/4	22	148
050.1-F-2-4	29.5	171	10830	2	65	17	12.7	5.3	1.10	21.0	2350	1410	472	1000	1360	6	13/8	21/8	2x11/4	29	174
050.1-C-3-4	32.1	128	17910	3	67	20	13.5	5.2	1.55	21.4	3350	1410	472	1000	1360	8	13/8	21/8	2x11/4	21	178
050.1-E-3-4	41.1	193	17200	3	67	19	18.7	7.8	1.55	30.8	3350	1410	472	1000	1360	8	13/8	25/8	2x11/4	32	214
050.1-F-3-4	46.1	257	16250	3	67	18	18.7	7.8	1.55	30.8	3350	1410	472	1000	1360	8	13/8	25/8	2x11/4	42	251



FAN Rating D500 Fan 380V		
Frequency	Hz	50
Speed	RPM	1360
Power Draw	Watts	820
Current Draw	Amps	1.5

		Temperature Difference (K)							
		5	6	7	8	9	10	11	12
Suction Temp (°C)	-10	0.46	0.63	0.81	0.99	1.18	1.37	1.54	1.73
	-5	0.48	0.64	0.83	1.03	1.22	1.42	1.6	1.79
	0	0.49	0.64	0.85	1.06	1.28	1.51	1.69	1.9
	5	0.5	0.65	0.88	1.11	1.36	1.61	1.81	2.03
	10	0.51	0.66	0.9	1.17	1.44	1.72	1.93	2.18

A Temp difference below 7K is only attainable via an Electronic Expansion Valve

* Defrost heaters are only supplied for medium temp coils if specifically ordered

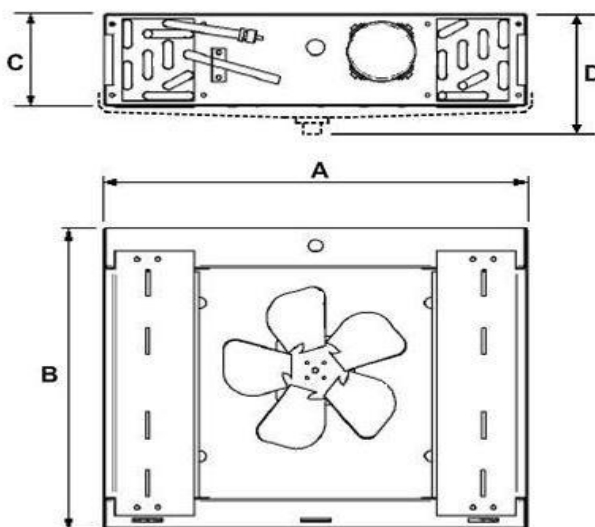
** If total amps are more than 25A then heaters are split into two sets each less than 25A and with own thermostats

MEDIUM TEMP

TDD

5mm Fin Spacing

	Nominal Capacity	Surface Area	Airflow	Dia 200 Fan Qty	Dimensions				Conns		Tube Volume	Net Weight
	R 404a -8°C SST ΔT1=7K				A	B	C	D	Inlet	Outlet		
	kW	m²	m³/hr	Qty	mm	mm	mm	mm	In."	In."	L	Kg
020.1-B-1-4	0.50	1.5	280	1	450	365	114	160	3/8	3/8	0.32	5
020.1-C-1-4	0.75	2.3	275	1	450	365	114	160	3/8	3/8	0.49	5.4
020.1-B-2-4	1.05	3.0	270	1	450	365	114	160	3/8	3/8	0.7	5.8



FAN Rating 220V		D200	
Frequency	Hz	50	60
Speed	RPM	1400	1400
Power Draw	Watts	36	34
Current Draw	Amps	0.24	0.22

		Temperature Difference (K)									
Suction Temp (°C)		5	6	7	8	9	10	11	12		
	-10	0.46	0.63	0.81	0.99	1.18	1.37	1.54	1.73		
	-5	0.48	0.64	0.83	1.03	1.22	1.42	1.6	1.79		
	0	0.49	0.64	0.85	1.06	1.28	1.51	1.69	1.9		
	5	0.5	0.65	0.88	1.11	1.36	1.61	1.81	2.03		
	10	0.51	0.66	0.9	1.17	1.44	1.72	1.93	2.18		

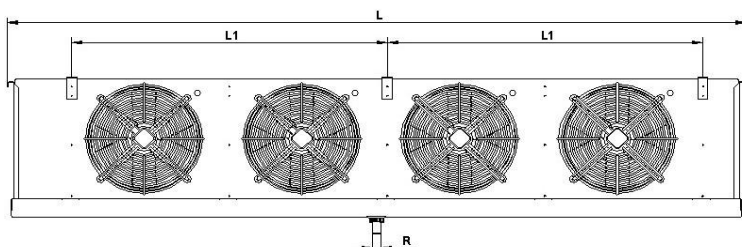
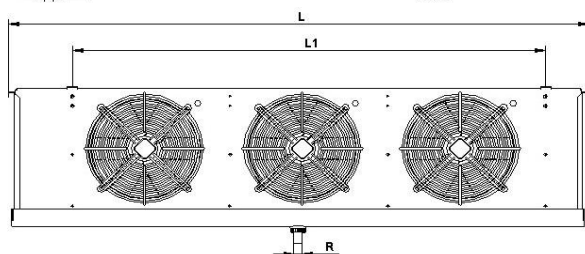
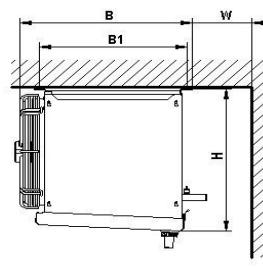
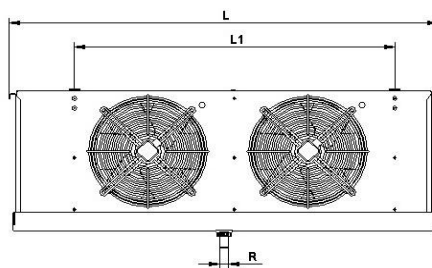
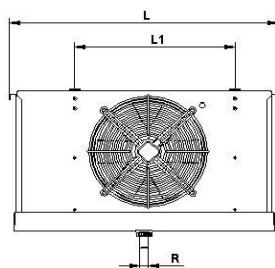
A Temp difference below 7K is only attainable via an Electronic Expansion Valve

LOW TEMP

TEB 031

7mm Fin Spacing

	Nominal Capacity R 404a -25°C SST ΔT1=7K	Surface Area	Airflow	Dia 315 Fan Qty	Sound Pressure Level	Air Throw	Defrost Heating (220V)				Dimensions						Mounting Points	Connections			Tube Volume	Net Weight
							Total Heat	In Coil	In Diriptray	Total Amps **	L	B	H	L1	B1	W		Inlet	Outlet	Drain		
							kW	kW	kW	A	mm	mm	mm	mm	mm	mm		In."	In."	MPT"	L	Kg
031.1-B-1-7	1.2	6	1750	1	53	11	1.12	0.62	0.50	5.1	770	500	450	460	390	300	4	1/2	3/4	3/4	1.8	18
031.1-C-1-7	1.6	7	1690	1	53	11	1.74	1.24	0.50	7.9	770	500	450	460	390	300	4	1/2	3/4	3/4	2.3	21
031.1-E-1-7	2.0	11	1570	1	53	10	1.74	1.24	0.50	7.9	770	500	450	460	390	300	4	1/2	3/4	3/4	3.4	23
031.1-B-2-7	2.7	11	3510	2	55	13	2.25	1.60	0.65	10.2	1230	500	450	920	390	300	4	1/2	3/4	3/4	4	32
031.1-C-2-7	3.3	15	3390	2	55	12	2.37	1.72	0.65	10.8	1230	500	450	920	390	300	4	1/2	3/4	3/4	5	35
031.1-E-2-7	4.3	22	3150	2	55	12	2.37	1.72	0.65	10.8	1230	500	450	920	390	300	4	1/2	7/8	3/4	7	40
031.1-B-3-7	4.0	17	5260	3	56	14	2.40	1.40	1.00	10.9	1690	500	450	1380	390	300	4	1/2	11/8	3/4	5	37
031.1-C-3-7	5.0	22	5080	3	56	13	3.80	2.80	1.00	17.3	1690	500	450	1380	390	300	4	1/2	11/8	3/4	7	48
031.1-E-3-7	6.3	33	4720	3	56	12	3.80	2.80	1.00	17.3	1690	500	450	1380	390	300	4	1/2	11/8	3/4	10	56
031.1-B-4-7	5.3	22	7010	4	57	15	3.15	2.00	1.15	14.3	2150	500	450	920	390	300	6	1/2	13/8	3/4	7	54
031.1-C-4-7	6.5	30	6770	4	57	14	5.15	4.00	1.15	23.4	2150	500	450	920	390	300	6	1/2	13/8	3/4	9	62
031.1-E-4-7	8.6	44	6290	4	57	13	5.15	4.00	1.15	23.4	2150	500	450	920	390	300	6	7/8	13/8	3/4	13	74



FAN Rating D315 Fan 220V

Frequency	Hz	50
Speed	RPM	1340
Power Draw	Watts	86
Current Draw	Amps	0.38

Temperature Difference (K)

Suction Temp (°C)	Temperature Difference (K)							
	5	6	7	8	9	10	11	12
-35	0.65	0.82	0.98	1.13	1.27	1.45	1.60	1.76
-30	0.65	0.82	0.98	1.14	1.30	1.45	1.62	1.78
-25	0.67	0.84	1.00	1.16	1.32	1.48	1.65	1.81
-20	0.69	0.86	1.04	1.21	1.39	1.56	1.74	1.91
-15	0.71	0.89	1.08	1.27	1.46	1.65	1.83	2.02
-10	0.72	0.92	1.13	1.33	1.54	1.75	1.95	2.16
-5	0.74	0.95	1.16	1.38	1.60	1.82	2.03	2.24

A Temp difference below 7K is only attainable via an Electronic Expansion Valve

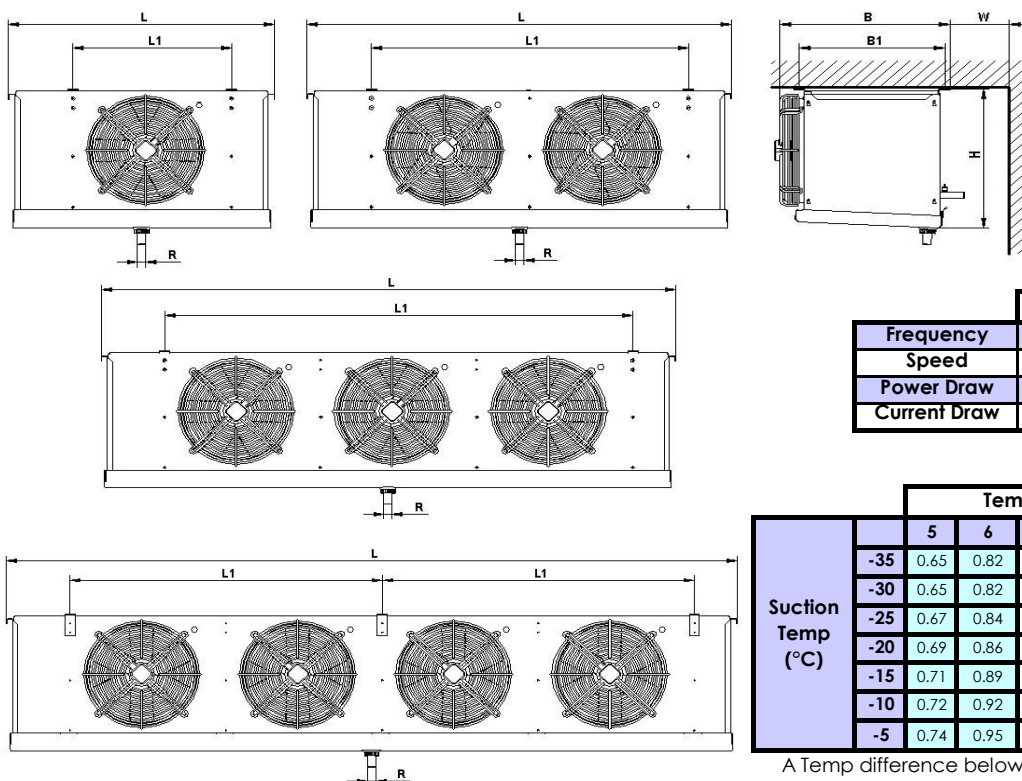
** If total amps are more than 25A then heaters are split into two sets each less than 25A and with own thermostats

LOW TEMP

TEB 040

7mm Fin Spacing

	Nominal Capacity R 404a -25°C SST ΔT1=7K	Surface Area	Airflow	Dia 400 Fan Qty	Sound Pressure Level	Air Throw	Defrost				Dimensions						Mounting Points	Connections			Tube Volume	Net Weight
							Heating (220V)				L	B	H	L1	B1	W		Refrig				
							Total Heat	In Coil	In Dirtray	Total Amps **								Inlet	Outlet	Drain		
kW	m²	m³/hr	Qty	dB-1m	m	kW	kW	kW	A	mm	mm	mm	mm	mm	mm	Qty	In."	In."	MPT "	L	Kg	
040.1-B-1-7	2.4	10	3410	1	60	16	2.06	1.46	0.60	9.4	1030	530	580	680	405	400	4	1/2	3/4	11/4	2.9	21
040.1-C-1-7	3.1	13	3325	1	60	15	2.06	1.46	0.60	9.4	1030	530	580	680	405	400	4	1/2	7/8	11/4	3.9	23
040.1-E-1-7	4.1	20	3160	1	60	14	2.79	2.19	0.60	12.7	1030	530	580	680	405	400	4	5/8	7/8	11/4	5.8	24
040.1-B-2-7	4.9	20	6820	2	62	18	3.80	2.80	1.00	17.3	1710	530	580	1360	405	400	4	5/8	11/8	11/4	6	42
040.1-C-2-7	6.2	26	6650	2	62	17	3.80	2.80	1.00	17.3	1710	530	580	1360	405	400	4	5/8	11/8	11/4	8	48
040.1-E-2-7	8.0	39	6320	2	62	16	5.20	4.20	1.00	23.6	1710	530	580	1360	405	400	4	5/8	13/8	11/4	11	59
040.1-B-3-7	7.4	29	10220	3	63	17	4.85	3.60	1.25	22.0	2390	530	580	2040	405	400	4	5/8	13/8	11/4	9	61
040.1-C-3-7	9.3	39	9970	3	63	16	4.85	3.60	1.25	22.0	2390	530	580	2040	405	400	4	7/8	13/8	11/4	11	69
040.1-E-3-7	12.4	59	9480	3	63	15	6.65	5.40	1.25	30.2	2390	530	580	2040	405	400	4	11/8	15/8	11/4	17	87
040.1-B-4-7	9.9	39	13640	4	64	18	6.65	5.00	1.65	30.2	3070	530	580	1360	405	400	6	7/8	13/8	11/4	11	78
040.1-C-4-7	12.4	52	13300	4	64	17	6.65	5.00	1.65	30.2	3070	530	580	1360	405	400	6	11/8	15/8	11/4	15	89
040.1-E-4-7	16.5	78	12640	4	64	16	9.15	7.50	1.65	41.6	3070	530	580	1360	405	400	6	11/8	15/8	11/4	22	112



FAN Rating D400 Fan 220V		
Frequency	Hz	50
Speed	RPM	1430
Power Draw	Watts	160
Current Draw	Amps	0.73

		Temperature Difference (K)							
		5	6	7	8	9	10	11	12
Suction Temp (°C)	-35	0.65	0.82	0.98	1.13	1.27	1.45	1.60	1.76
	-30	0.65	0.82	0.98	1.14	1.30	1.45	1.62	1.78
	-25	0.67	0.84	1.00	1.16	1.32	1.48	1.65	1.81
	-20	0.69	0.86	1.04	1.21	1.39	1.56	1.74	1.91
	-15	0.71	0.89	1.08	1.27	1.46	1.65	1.83	2.02
	-10	0.72	0.92	1.13	1.33	1.54	1.75	1.95	2.16
	-5	0.74	0.95	1.16	1.38	1.60	1.82	2.03	2.24

A Temp difference below 7K is only attainable via an Electronic Expansion Valve

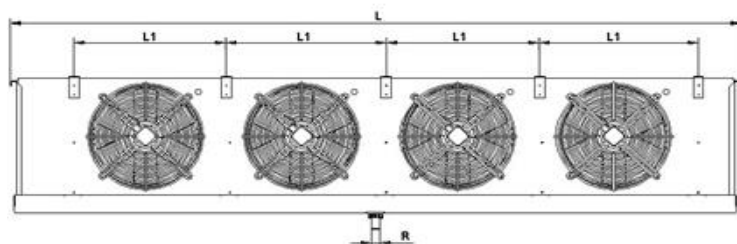
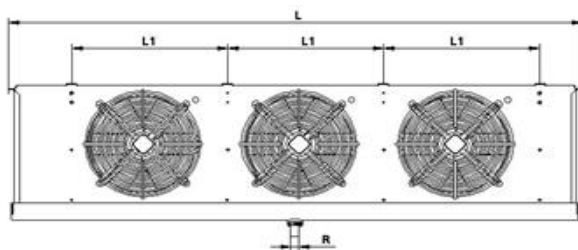
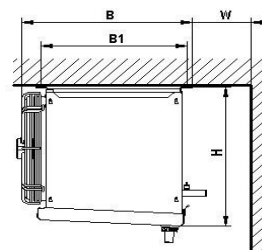
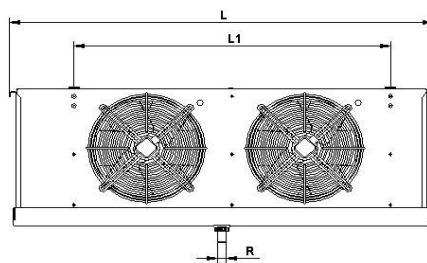
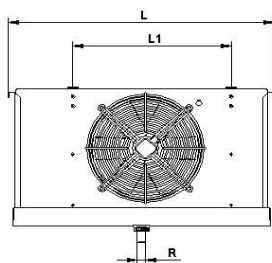
** If total amps are more than 25A then heaters are split into two sets each less than 25A and with own thermostats

LOW TEMP

TEB 050

7mm Fin Spacing

	Nominal Capacity R 404a -25°C SST ΔT1=7K	Surface Area	Airflow	Dia 500 Fan Qty	Sound Pressure Level	Air Throw	Defrost Heating (380V)				Dimensions						Mounting Points	Connections Refrig			Tube Volume	Net Weight
							Total Heat	In Coil	In Dirtray	Max Amp / Ø **	L	B	H	L1	B1	W		Inlet	Outlet	Drain		
							kW	kW	kW	A	mm	mm	mm	mm	mm	mm		In."	In."	MPT"	L	Kg
050.1-C-1-7	5.8	26	6130	1	63	22	4.90	3.60	1.30	7.7	1423	680	685	1000	538	500	4	7/8	13/8	11/4	7.3	55
050.1-E-1-7	7.8	38	5950	1	63	21	5.80	4.50	1.30	9.2	1423	680	685	1000	538	500	4	7/8	13/8	11/4	11	68
050.1-F-1-7	9.2	51	5760	1	63	21	5.80	4.50	1.30	9.2	1423	680	685	1000	538	500	4	7/8	13/8	11/4	14.6	79
050.1-C-2-7	11.3	51	12270	2	65	25	9.20	7.00	2.20	14.5	2423	680	685	2000	538	500	4	7/8	13/8	11/4	15	105
050.1-E-2-7	15.7	77	11910	2	65	24	10.9	8.75	2.20	17.0	2423	680	685	2000	538	500	4	13/8	15/8	11/4	22	126
050.1-F-2-7	18.5	102	11530	2	65	23	10.9	8.75	2.20	17.0	2423	680	685	2000	538	500	4	13/8	21/8	11/4	29	150
050.1-C-3-7	17.6	77	18400	3	67	26	13.5	10.4	3.10	21.4	3423	680	685	1000	538	500	8	13/8	21/8	11/4	21	144
050.1-E-3-7	23.3	115	17860	3	67	25	16.1	13.4	3.10	24.9	3423	680	685	1000	538	500	8	13/8	25/8	11/4	32	178
050.1-F-3-7	28.1	153	17290	3	67	24	18.7	15.6	3.10	30.8	3423	680	685	1000	538	500	8	13/8	25/8	11/4	42	222
050.1-C-4-7	22.6	103	24540	4	67	26	17.8	13.8	4.00	28.3	4423	680	685	1000	538	500	10	13/8	21/8	11/4	28	189
050.1-E-4-7	31.1	154	23810	4	67	26	21.3	17.3	4.00	32.8	4423	680	685	1000	538	500	10	13/8	25/8	11/4	42	234
050.1-F-4-7	37.5	205	23060	4	67	25	24.7	20.7	4.00	40.6	4423	680	685	1000	538	500	10	13/8	25/8	11/4	56	279



FAN Rating D500 Fan 380V

Frequency	Hz	50
Speed	RPM	1360
Power Draw	Watts	820
Current Draw	Amps	1.5

Temperature Difference (K)

Suction Temp (°C)	Temperature Difference (K)							
	5	6	7	8	9	10	11	12
-35	0.65	0.82	0.98	1.13	1.27	1.45	1.60	1.76
-30	0.65	0.82	0.98	1.14	1.30	1.45	1.62	1.78
-25	0.67	0.84	1.00	1.16	1.32	1.48	1.65	1.81
-20	0.69	0.86	1.04	1.21	1.39	1.56	1.74	1.91
-15	0.71	0.89	1.08	1.27	1.46	1.65	1.83	2.02
-10	0.72	0.92	1.13	1.33	1.54	1.75	1.95	2.16
-5	0.74	0.95	1.16	1.38	1.60	1.82	2.03	2.24

A Temp difference below 7K is only attainable via an Electronic Expansion Valve

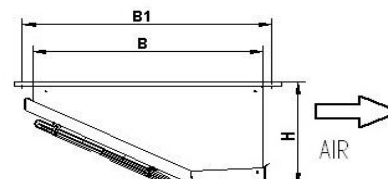
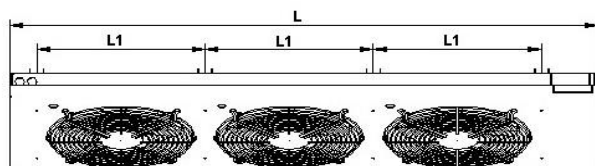
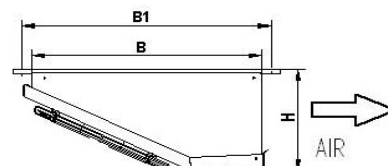
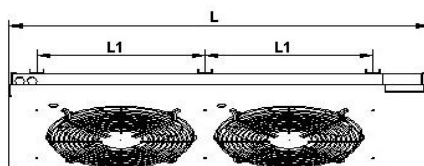
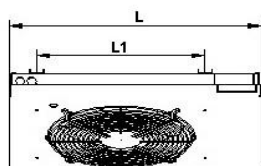
** If total amps are more than 25A then heaters are split into two sets each less than 25A and with own thermostats

LOW TEMP

TEMB 025/031

7mm Fin Spacing

	Nominal Capacity R 404a -25°C SST ΔT1=7K	Surface Area	Airflow	Dia 250 / 315 Fan Qty	Sound Pressure Level	Air Throw	Defrost				Dimensions					Mounting Points	Exp. Valve Type To Use	Connections			Tube Volume	Net Weight
							Heating (220V)				L	B	H	L1	B1			Inlet	Outlet	Drain		
							Total Heat	In Coil	In Dirtray	Total Amps												
025.1-B-1-7	0.4	2.1	667	1	49	6	0.30	0	0.30	1.4	524	509	242	350	532	4	Int	1/2	5/8	3/4	0.7	7
025.1-C-1-7	0.6	2.8	613	1	49	6	0.30	0	0.30	1.4	524	509	242	350	532	4	Int	1/2	5/8	3/4	0.9	8
025.1-B-2-7	0.9	4.2	1333	2	52	8	0.60	0	0.60	2.7	874	509	242	350	532	6	Int	1/2	5/8	3/4	1.3	14
025.1-C-2-7	1.2	5.6	1226	2	52	8	0.60	0	0.60	2.7	874	509	242	350	532	6	Int	1/2	5/8	3/4	1.6	15
025.1-B-3-7	1.4	6.3	1999	3	55	10	0.84	0	0.84	3.8	1224	509	242	350	532	8	Int	1/2	5/8	3/4	1.8	19
025.1-C-3-7	1.8	8.4	1839	3	55	10	0.84	0	0.84	3.8	1224	509	242	350	532	8	Int	1/2	5/8	3/4	2.3	20
031.1-B-1-7	1.3	4.9	1919	1	50	9	0.73	0.00	0.73	3.3	884	554	285	680	597	4	Int	1/2	5/8	3/4	1.4	13
031.1-C-1-7	1.7	6.5	1815	1	50	8	1.46	0.73	0.73	6.6	884	554	285	680	597	4	Int	1/2	5/8	3/4	1.9	15
031.1-E-1-7	2.1	9.8	1622	1	50	7	1.46	0.73	0.73	6.6	884	554	285	680	597	4	Ext	5/8	3/4	3/4	2.9	18
031.1-B-2-7	2.7	9.8	3838	2	53	11	1.40	0.00	1.40	6.4	1564	554	285	680	597	6	Int	5/8	7/8	3/4	2.8	27
031.1-C-2-7	3.3	13	3620	2	53	10	2.80	1.40	1.40	12.7	1564	554	285	680	597	6	Ext	5/8	7/8	3/4	3.8	31
031.1-E-2-7	4.2	20	3284	2	53	9	2.80	1.40	1.40	12.7	1564	554	285	680	597	6	Ext	5/8	11/8	3/4	5.8	37
031.1-B-3-7	3.9	15	5757	3	54	12	1.80	0.00	1.80	8.2	2244	554	285	680	597	8	Ext	5/8	11/8	3/4	4.2	40
031.1-C-3-7	4.9	20	5445	3	54	11	3.60	1.80	1.80	16.4	2244	554	285	680	597	8	Ext	5/8	11/8	3/4	5.7	46
031.1-E-3-7	6.3	29	4866	3	54	10	3.60	1.80	1.80	16.4	2244	554	285	680	597	8	Ext	5/8	11/8	3/4	8.7	55



FAN Rating 220V		D250		D315	
Frequency	Hz	50	60	50	60
Speed	RPM	1390	1600	1340	1490
Power Draw	Watts	63	69	86	117
Current Draw	Amps	0.45	0.53	0.38	0.51

		Temperature Difference (K)							
Suction Temp (°C)		5	6	7	8	9	10	11	12
	-35	0.65	0.82	0.98	1.13	1.27	1.45	1.60	1.76
	-30	0.65	0.82	0.98	1.14	1.30	1.45	1.62	1.78
	-25	0.67	0.84	1.00	1.16	1.32	1.48	1.65	1.81
	-20	0.69	0.86	1.04	1.21	1.39	1.56	1.74	1.91
	-15	0.71	0.89	1.08	1.27	1.46	1.65	1.83	2.02
	-10	0.72	0.92	1.13	1.33	1.54	1.75	1.95	2.16
	-5	0.74	0.95	1.16	1.38	1.60	1.82	2.03	2.24

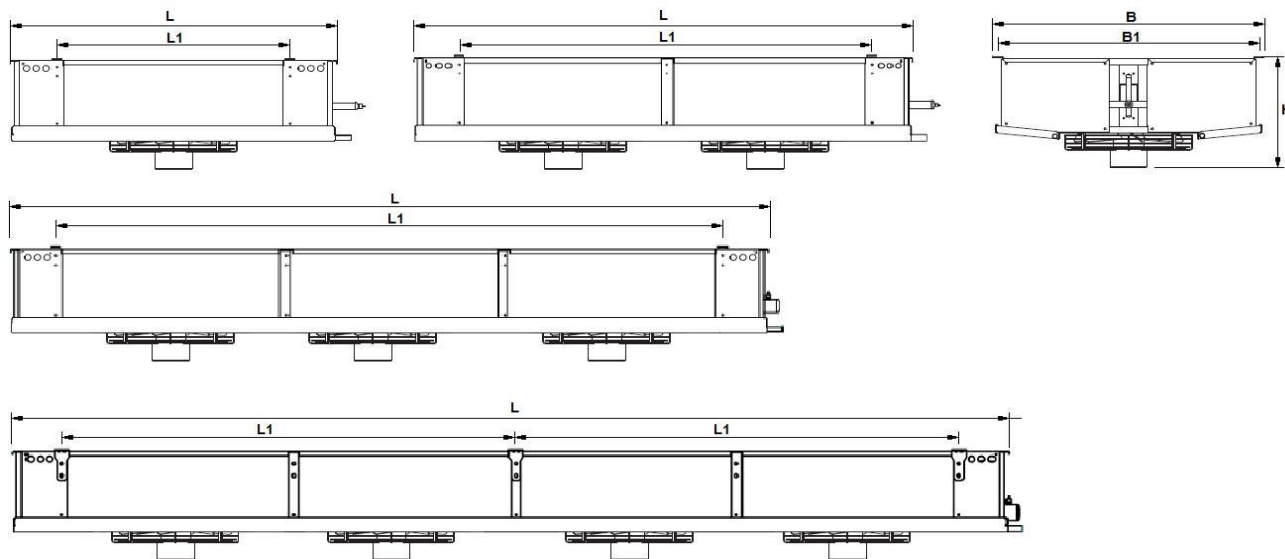
A Temp difference below 7K is only attainable via an Electronic Expansion Valve

LOW TEMP

TEDB 035

7mm Fin Spacing

	Nominal Capacity R 404a -25°C SST ΔT1=7K	Surface Area	Airflow	Dia 350 Fan Qty	Sound Pressure Level	Air Throw (Each side)	Defrost			Dimensions					Mounting Points	Connections			Tube Volume	Net Weight	
							Heating (220V)			L	B	H	L1	B1		Refrig	Inlet	Outlet			Drain
							Total Heat	Per Coil	Total Amps												
kW	m²	m³/hr	Qty	dB-1m	m	kW	kW	A	mm	mm	mm	mm	mm	Qty	In."	In."	In."	L	Kg		
035.1-B-1-7	2.3	10	2754	1	52	6	1.46	0.73	10	1010	841	375	720	806	4	5/8	3/4	2x5/8	2.9	29	
035.1-C-1-7	2.9	13	2693	1	52	5	1.46	0.73	10	1010	841	375	720	806	4	5/8	7/8	2x5/8	3.9	31	
035.1-B-2-7	4.7	20	5508	2	54	8	2.80	1.40	16	1690	841	375	1400	806	4	5/8	11/8	2x5/8	4.9	47	
035.1-C-2-7	5.9	26	5400	2	54	8	2.80	1.40	16	1690	841	375	1400	806	4	5/8	11/8	2x5/8	7.4	51	
035.1-B-3-7	6.4	29	8280	3	56	10	3.60	1.80	20	2370	841	375	2070	806	4	7/8	13/8	2x5/8	8.2	73	
035.1-C-3-7	8.9	39	8064	3	56	9	3.60	1.80	20	2370	841	375	2070	806	4	7/8	13/8	2x5/8	10.9	82	
035.1-B-4-7	9.0	39	11016	4	57	11	5.00	2.50	16 (3~)	3050	863	375	1390	828	6	7/8	13/8	2x5/8	10.9	94	
035.1-C-4-7	11.3	52	10764	4	57	11	5.00	2.50	16 (3~)	3050	863	375	1390	282	6	7/8	15/8	2x5/8	14.5	106	



FAN Rating D350 Fan 220V		
Frequency	Hz	50
Speed	RPM	1400
Power Draw	Watts	130
Current Draw	Amps	0.58

		Temperature Difference (K)							
		5	6	7	8	9	10	11	12
Suction Temp (°C)	-35	0.65	0.82	0.98	1.13	1.27	1.45	1.60	1.76
	-30	0.65	0.82	0.98	1.14	1.30	1.45	1.62	1.78
	-25	0.67	0.84	1.00	1.16	1.32	1.48	1.65	1.81
	-20	0.69	0.86	1.04	1.21	1.39	1.56	1.74	1.91
	-15	0.71	0.89	1.08	1.27	1.46	1.65	1.83	2.02
	-10	0.72	0.92	1.13	1.33	1.54	1.75	1.95	2.16
	-5	0.74	0.95	1.16	1.38	1.60	1.82	2.03	2.24

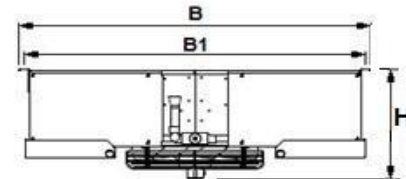
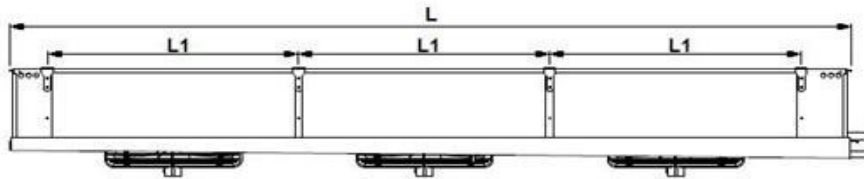
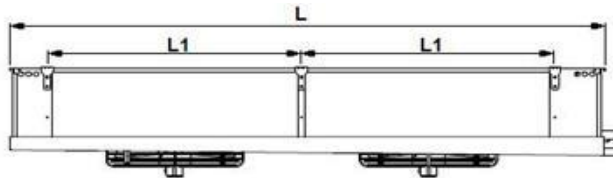
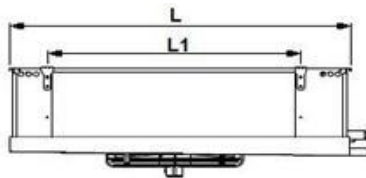
A Temp difference below 7K is only attainable via an Electronic Expansion Valve

LOW TEMP

TEDB 050

7mm Fin Spacing

	Nominal Capacity R 404a -25°C SST ΔT1=7K	Surface Area m²	Airflow m³/hr	Dia 500 Fan Qty	Sound Pressure Level dB-1m	Air Throw m	Defrost Heating (380V)				Dimensions					Mounting Points Qty	Connections Refrig			Tube Volume L	Net Weight Kg
							Total Heat	Per Coil	Per Diptray	Max Amp / Ø *	L	B	H	L1	B1		Inlet	Outlet	Drain		
							kW	kW	kW	A	mm	mm	mm	mm	mm		In."	In."	MPT "		
050.1-C-1-7	5.8	26	6130	1	63	18	4.90	0.90	0.33	7.7	1350	1410	472	1000	1360	4	7/8	11/8	2x11/4	7.3	62
050.1-E-1-7	7.8	38	5950	1	63	17	6.70	1.35	0.33	11.2	1350	1410	472	1000	1360	4	7/8	11/8	2x11/4	11	73
050.1-F-1-7	9.2	51	5760	1	63	17	6.70	1.35	0.33	11.2	1350	1410	472	1000	1360	4	7/8	13/8	2x11/4	14.6	84
050.1-C-2-7	11.3	51	12270	2	65	21	9.20	1.75	0.55	14.5	2350	1410	472	1000	1360	6	13/8	15/8	2x11/4	15	111
050.1-E-2-7	15.7	77	11910	2	65	20	12.7	2.6	0.55	21.0	2350	1410	472	1000	1360	6	13/8	15/8	2x11/4	22	130
050.1-F-2-7	18.5	102	11530	2	65	19	12.7	2.6	0.55	21.0	2350	1410	472	1000	1360	6	13/8	21/8	2x11/4	29	149
050.1-C-3-7	17.6	77	18400	3	67	22	13.5	2.6	0.78	21.4	3350	1410	472	1000	1360	8	13/8	21/8	2x11/4	21	161
050.1-E-3-7	23.3	115	17860	3	67	21	18.7	3.9	0.78	30.8	3350	1410	472	1000	1360	8	13/8	25/8	2x11/4	32	196
050.1-F-3-7	28.1	153	17290	3	67	20	18.7	3.9	0.78	30.8	3350	1410	472	1000	1360	8	13/8	25/8	2x11/4	42	226



FAN Rating D500 Fan 380V		
Frequency	Hz	50
Speed	RPM	1360
Power Draw	Watts	820
Current Draw	Amps	1.5

		Temperature Difference (K)									
		5	6	7	8	9	10	11	12		
Suction Temp (°C)	-35	0.65	0.82	0.98	1.13	1.27	1.45	1.60	1.76		
	-30	0.65	0.82	0.98	1.14	1.30	1.45	1.62	1.78		
	-25	0.67	0.84	1.00	1.16	1.32	1.48	1.65	1.81		
	-20	0.69	0.86	1.04	1.21	1.39	1.56	1.74	1.91		
	-15	0.71	0.89	1.08	1.27	1.46	1.65	1.83	2.02		
	-10	0.72	0.92	1.13	1.33	1.54	1.75	1.95	2.16		
	-5	0.74	0.95	1.16	1.38	1.60	1.82	2.03	2.24		

A Temp difference below 7K is only attainable via an Electronic Expansion Valve

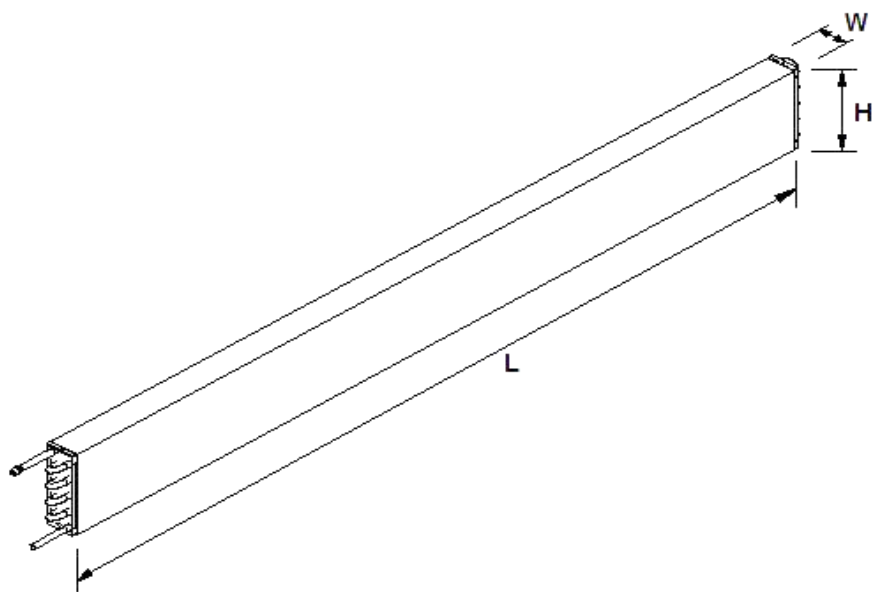
** If total amps are more than 25A then heaters are split into two sets each less than 25A and with own thermostats

GRAVITY COILS

BC & DC

9mm Fin Spacing

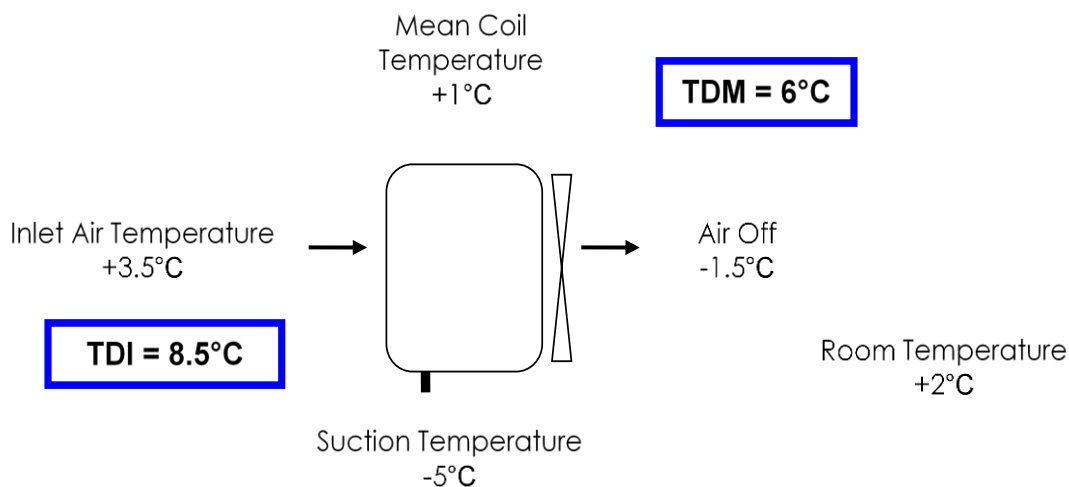
	Mini Air Spacing										
	Nominal Capacity	Nominal Capacity	Surface Area	Tube Configuration	Dimensions			Conns Refrig		Tube Volume	Net Weight
	11K TD	11K TD			L	W	H	Inlet	Outlet		
	W	W	m²		mm	mm	mm	In."	In."	L	Kg
4BC	130	190	1.95	2x5	790	70	200	1/2"	1/2"	1.0	1.4
5BC	220	283	2.75	2x5	1095	70	200	1/2"	1/2"	1.4	1.9
6BC	263	385	3.6	2x5	1400	70	200	1/2"	1/2"	1.9	2.3
7BC	310	452	4.4	2x5	1705	70	200	1/2"	1/2"	2.3	2.5
8BC	370	537	5.25	2x5	2010	70	200	1/2"	1/2"	2.7	2.8
9BC	438	645	6.05	2x5	2315	70	200	1/2"	1/2"	3.1	2.9
10BC	502	733	6.9	2x5	2620	70	200	1/2"	1/2"	3.6	3.3
11BC	560	819	7.7	2x5	2925	70	200	1/2"	1/2"	4.0	3.7
12BC	624	910	8.55	2x5	3230	70	200	1/2"	1/2"	4.4	4.1
4DC	181	268	2.73	2x7	790	70	280	1/2"	1/2"	1.4	2.3
5DC	271	394	3.85	2x7	1095	70	280	1/2"	1/2"	2.0	3.2
6DC	359	523	5.04	2x7	1400	70	280	1/2"	1/2"	2.7	4.0
7DC	448	645	6.16	2x7	1705	70	280	1/2"	1/2"	3.2	4.3
8DC	536	783	7.35	2x7	2010	70	280	1/2"	1/2"	3.8	4.7
9DC	643	939	8.47	2x7	2315	70	280	1/2"	1/2"	4.3	5
10DC	741	1083	9.66	2x7	2620	70	280	1/2"	1/2"	5.0	5.7
11DC	841	1228	10.78	2x7	2925	70	280	1/2"	1/2"	5.6	6.3
12DC	947	1382	11.97	2x7	3230	70	280	1/2"	1/2"	6.2	7.0



Difference between TDI and TDM

It is important to note the difference between TDI and TDM. TDM is the difference between the mean/average temperature across the evaporator and the suction temperature. The trend worldwide and that prescribed by Eurovent is for manufacturers to state capacities at a TDI condition. TDI allows for easier confirmation of the delivered refrigeration capacity as the inlet air temperature is referenced. The capacity of an evaporator at the same TDI and TDM condition can in fact differ by as much as 35%.

Standard Cold Room Operating Conditions



Selection Example for Blower Coils Cold Room Application

Compressor Capacity: 3500 Watts @-5°C SST and +45°C Cond.
 Evaporating Temperature: -5°C
 Return Air Temperature: +4°C
 Inlet Air Temperature Difference: 9K

For Applications above +2°C, the correction factor from Table 1 is:
 1.22

Table 1

	Temperature Difference								
		5	6	7	8	9	10	11	12
Suction temp	-10	0.46	0.63	0.81	0.99	1.18	1.37	1.54	1.73
	-5	0.48	0.64	0.83	1.03	1.22	1.42	1.60	1.79
	0	0.49	0.64	0.85	1.06	1.28	1.51	1.69	1.90
	5	0.50	0.65	0.88	1.11	1.36	1.61	1.81	2.03
	10	0.51	0.66	0.90	1.17	1.44	1.72	1.93	2.18

A Temperature Difference Below 7 is Only Attainable Using an Electronic Expansion Valve

The evaporator capacity required:

$$\frac{\text{Compressor Capacity}}{\text{Correction Factor}}$$

$$\frac{3500}{1.22}$$

2868 Watts

From the catalogue, the selected blower coil is a **TEB031.1-C-1-4**

Selection Example for Blower Coils Freezer Application

Compressor Capacity: 3500 Watts @-30°C SST and +45°C Cond.
 Evaporating Temperature: -30°C
 Return Air Temperature: -23°C
 Inlet Air Temperature Difference: 7K

For Applications below 0°C, the correction factor from Table 2 is:
 0.98

Table 2

Suction Temp	Temperature Difference								
		5	6	7	8	9	10	11	12
	-35	0.65	0.82	0.98	1.13	1.27	1.45	1.60	1.76
	-30	0.65	0.82	0.98	1.14	1.30	1.45	1.62	1.78
	-25	0.67	0.84	1.00	1.16	1.32	1.48	1.65	1.81
	-20	0.69	0.86	1.04	1.21	1.39	1.56	1.74	1.91
	-15	0.71	0.89	1.08	1.27	1.46	1.65	1.83	2.02
	-10	0.72	0.92	1.13	1.33	1.54	1.75	1.95	2.16
	-5	0.74	0.95	1.16	1.38	1.60	1.82	2.03	2.24

A Temperature Difference Below 7 is Only Attainable Using an Electronic Expansion Valve

The evaporator capacity required:

$$\frac{\text{Compressor Capacity}}{\text{Correction Factor}}$$

$$\frac{3500}{0.98}$$

3571 Watts

From the catalogue, the selected blower coil is either a **TEB031.1-E-2-7** or for more airflow, a **TEB031.1-B-3-7**.



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