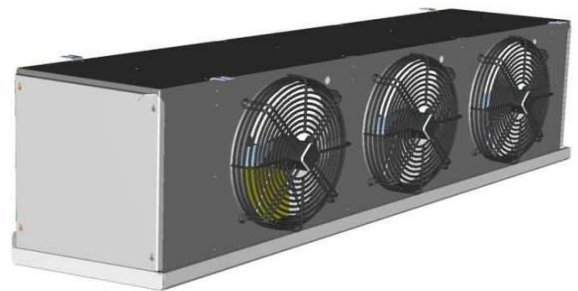


# **Evaporator Catalogue**



***Version 3.0: January 2015***

## 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:

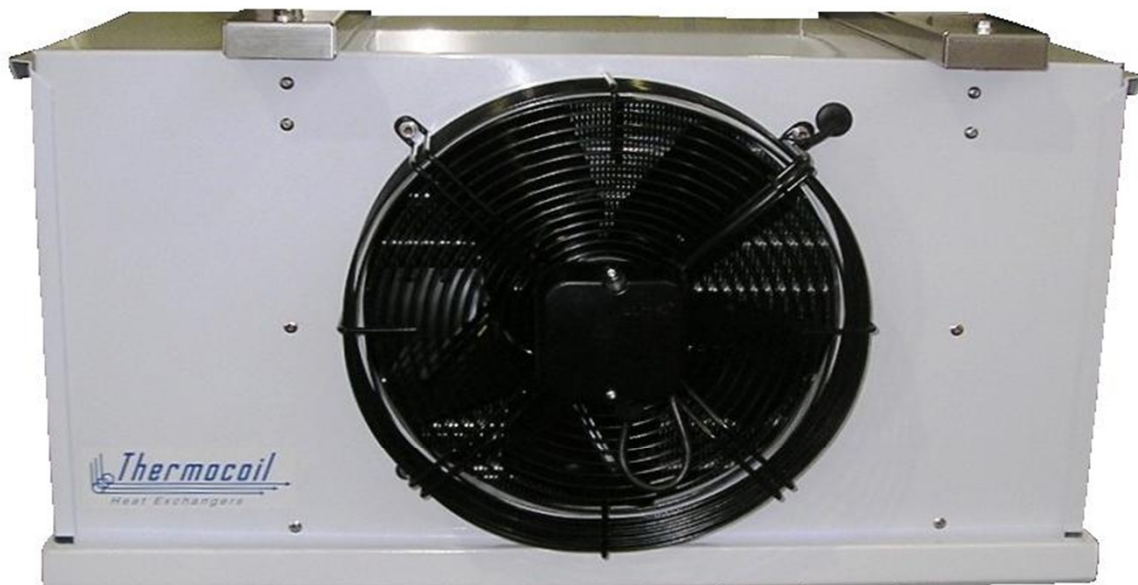
Evaporators : TEB, TEMB, TEDB, TDD and gravity coils

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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### MEDIUM TEMP EVAPORATORS

<b>TEB (Horizontal Blower)</b>	<b>8</b>
TEB 031           Medium Temp	7
TEB 040           Medium Temp	8
TEB 050           Medium Temp	9
<b>TEMB (Low Profile)</b>	<b>10</b>
TEMB 025 & 031   Medium Temp	10
<b>TEDB (Dual Discharge)</b>	<b>11</b>
TEDB 035           Medium Temp	11
TEDB 050           Medium Temp	12
<b>TDD (Mini Dual Discharge)</b>	<b>13</b>
TDD 020           Medium Temp	13

### LOW TEMP EVAPORATORS

<b>TEB (Horizontal Blower)</b>	<b>14</b>
TEB 031           Low Temp	14
TEB 040           Low Temp	15
TEB 050           Low Temp	16
<b>TEMB (Low Profile)</b>	<b>17</b>
TEMB 025 & 031   Low Temp	17
<b>TEDB (Dual Discharge)</b>	<b>18</b>
TEDB 035           Low Temp	18
TEDB 050           Low Temp	19

### GRAVITY COILS

<b>Gravity Coils</b>	<b>20</b>
BC & DC           Gravity	20

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 Ø 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  $\Delta T_1$  (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  $\Delta T_1$  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	
$F_1$	$t_0 = -8^\circ\text{C}$	1.00	1.00	0.91	0.95
	$t_0 = -25^\circ\text{C}$	1.00	1.00	0.85	0.95

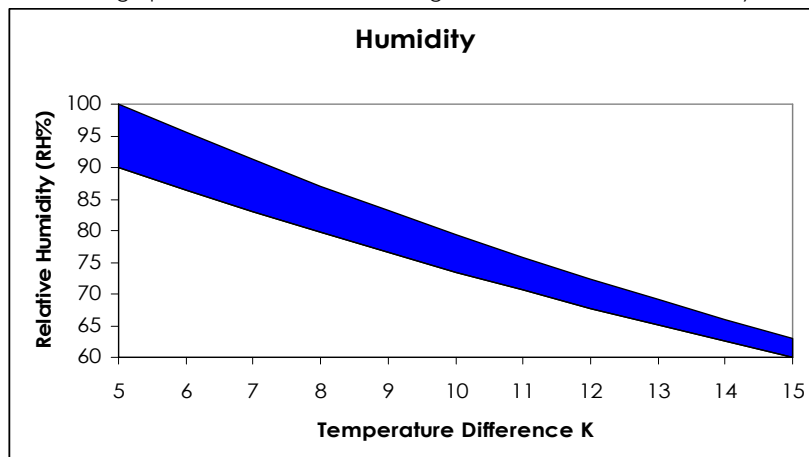
$F_2$  = Correction Factor for Fin Material

$F_2$ : 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

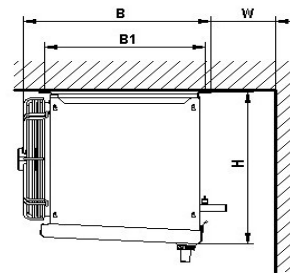
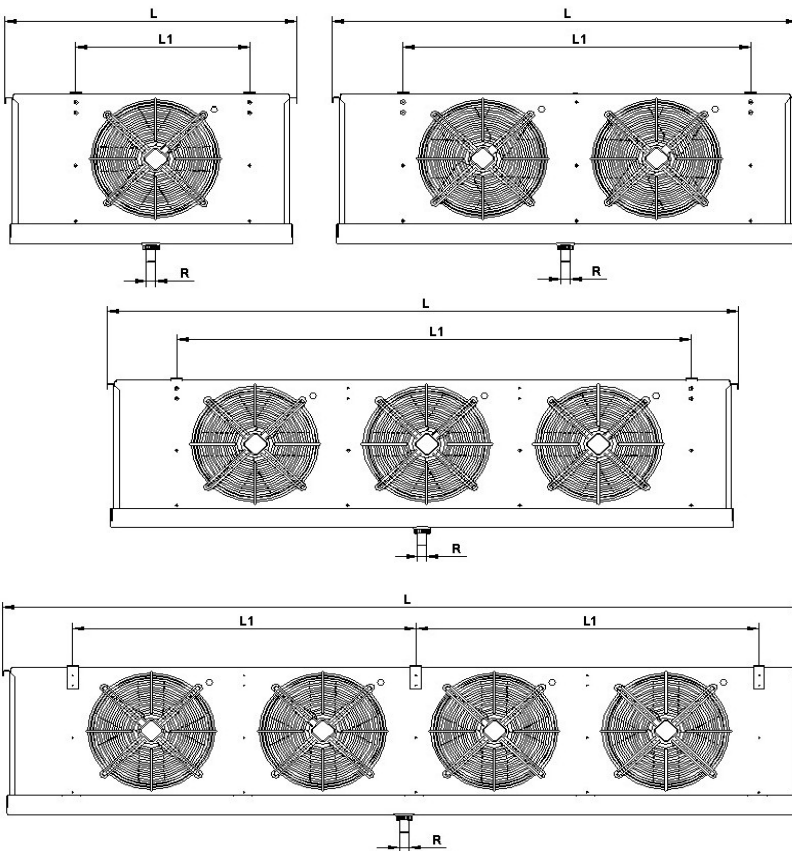
Nominal  
Capacity  
**R 404a**  
-25°C SST  
ΔT1=7K

## MEDIUM TEMP

## TEB 031

### 4mm Fin Spacing

	Nominal Capacity <b>R 404a</b> -8°C SST ΔT1=8K	Surface Area	Airflow	Dia <b>315</b> 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	m <sup>2</sup>	m <sup>3</sup> /hr	Qty	dB-1m	m	kW	kW	kW	A	mm	mm	mm	mm	mm	mm	Qty	In."	In."	MPT"	L	Kg	
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

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	1.73			
-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

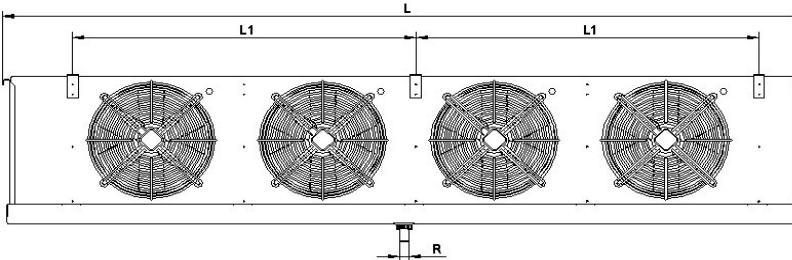
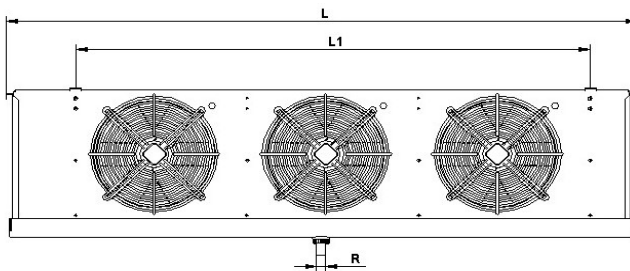
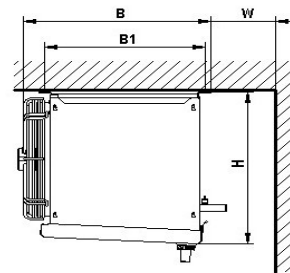
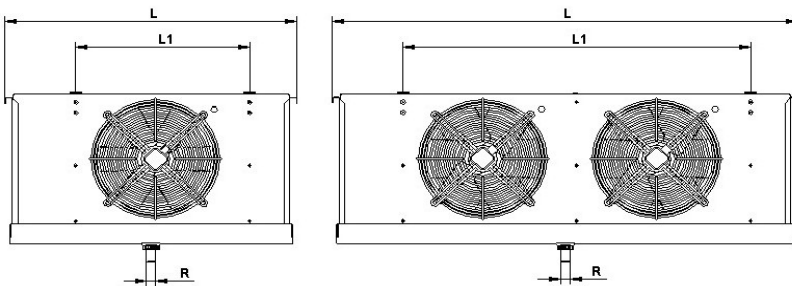
\*\* If total amps are more than 25A then heaters are split into two sets each less than 25A and with own thermostats

## MEDIUM TEMP

## TEB 040

4mm Fin Spacing

	Nominal Capacity <b>R 404a</b> -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 Dirtray	Total Amps **	L	B	H	L1	B1	W		Refrig				
																		Inlet	Outlet	Drain		
kW	m <sup>2</sup>	m <sup>3</sup> /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	1.73				
-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

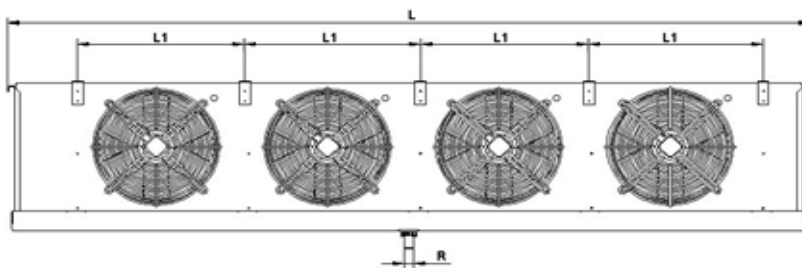
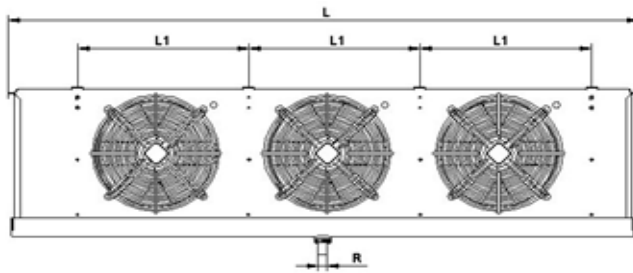
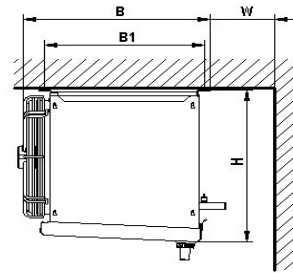
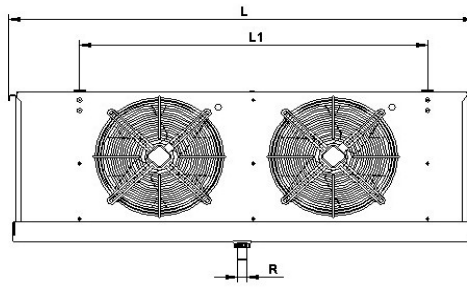
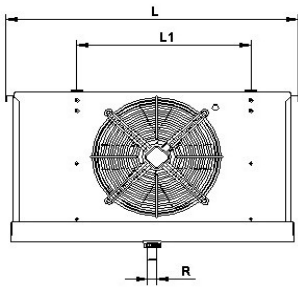


## MEDIUM TEMP

## TEB 050

4mm Fin Spacing

	Nominal Capacity <b>R 404a</b> -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 Driptray	Max Amp / Ø**	L	B	H	L1	B1	W		Inlet	Outlet	Drain		
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	15	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)

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	1.73			
-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

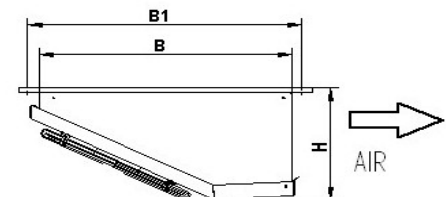
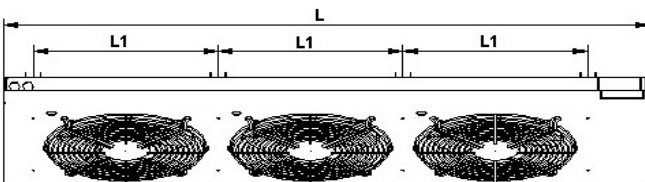
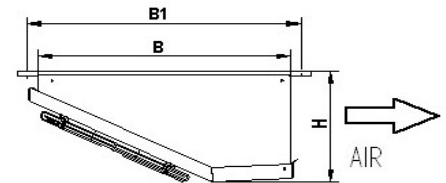
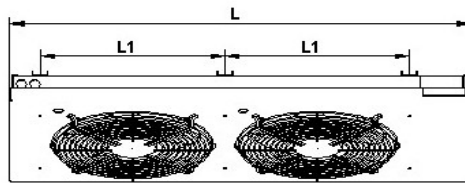
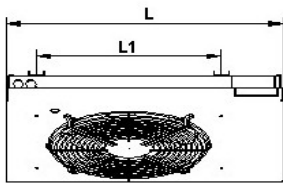
\*\* If total amps are more than 25A then heaters are split into two sets each less than 25A and with own thermostats

## MEDIUM TEMP

## TEMB 025/031

4mm Fin Spacing

	Nominal Capacity <b>R 404a</b> -8°C SST ΔT1=8K	Surface Area	Airflow	Dia <b>250 / 315</b> 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			Qty	Inlet	Outlet			Drain
<b>025.1-B-1-4</b>	<b>0.7</b>	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	
<b>025.1-C-1-4</b>	<b>1.1</b>	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	
<b>025.1-B-2-4</b>	<b>1.7</b>	7.0	1162	1	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	
<b>025.1-C-2-4</b>	<b>2.0</b>	9.4	1059	1	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	
<b>025.1-B-3-4</b>	<b>2.7</b>	11	1743	1	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	
<b>025.1-C-3-4</b>	<b>3.2</b>	14	1588	1	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	
<b>031.1-B-1-4</b>	<b>2.1</b>	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	
<b>031.1-C-1-4</b>	<b>2.7</b>	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	
<b>031.1-E-1-4</b>	<b>3.2</b>	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	
<b>031.1-B-2-4</b>	<b>4.4</b>	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	
<b>031.1-C-2-4</b>	<b>5.4</b>	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	
<b>031.1-E-2-4</b>	<b>6.3</b>	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	
<b>031.1-B-3-4</b>	<b>6.5</b>	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	
<b>031.1-C-3-4</b>	<b>7.9</b>	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	
<b>031.1-E-3-4</b>	<b>9.5</b>	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

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	1.73			
-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

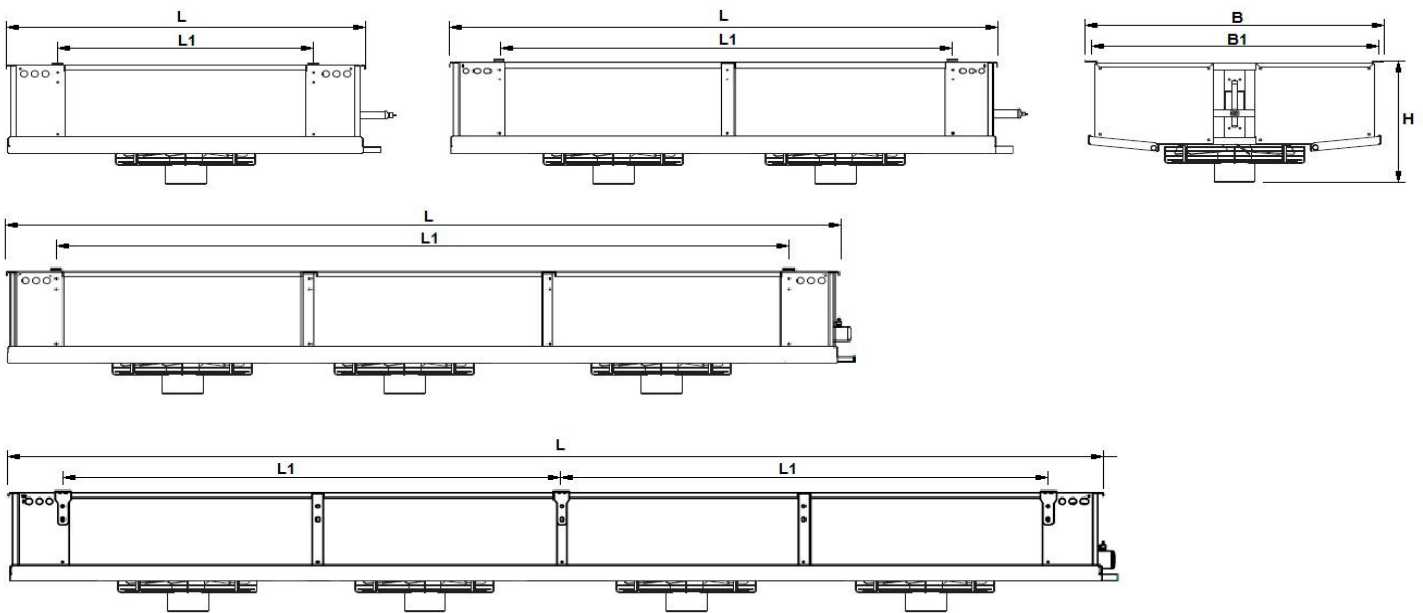
\* Defrost heaters are only supplied for medium temp coils if specifically ordered

## MEDIUM TEMP

## TEDB 035

### 4mm Fin Spacing

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

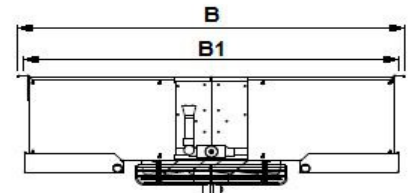
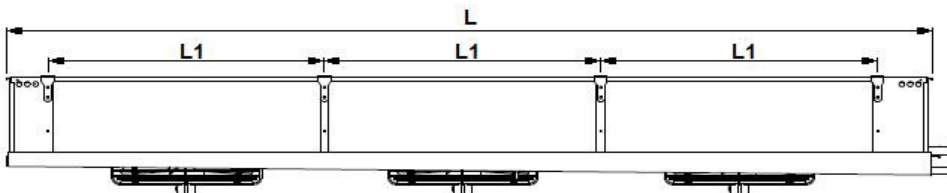
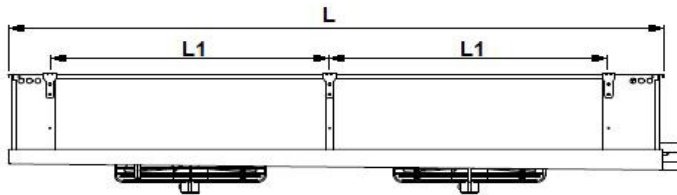
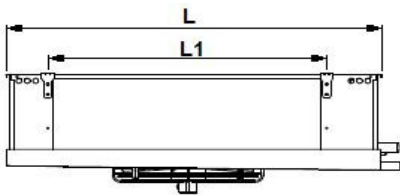
\* Defrost heaters are only supplied for medium temp coils if specifically ordered

## MEDIUM TEMP

## TEDB 050

4mm Fin Spacing

	Nominal Capacity <b>R 404a</b> -8°C SST ΔT1=8K	Surface Area	Airflow	Dia <b>500</b> Fan Qty	Sound Pressure Level	Air Throw (each side)	Defrost Heating (380V)				Dimensions					Mounting Points	Connections			Tube Volume	Net Weight
							Total Heat	Per Coil	Per Dirptry	Max Amp / Ø**	L	B	H	L1	B1		Refrig				
																	Inlet	Outlet	Drain		
kW	m <sup>2</sup>	m <sup>3</sup> /hr	Qty	dB-1m	m	kW	kW	kW	A	mm	mm	mm	mm	mm	Qty	In."	In."	MPT "	L	Kg	
<b>050.1-C-1-4</b>	<b>10.9</b>	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
<b>050.1-E-1-4</b>	<b>13.6</b>	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
<b>050.1-F-1-4</b>	<b>14.7</b>	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
<b>050.1-C-2-4</b>	<b>21.8</b>	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
<b>050.1-E-2-4</b>	<b>27.3</b>	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
<b>050.1-F-2-4</b>	<b>29.5</b>	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
<b>050.1-C-3-4</b>	<b>32.1</b>	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
<b>050.1-E-3-4</b>	<b>41.1</b>	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
<b>050.1-F-3-4</b>	<b>46.1</b>	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

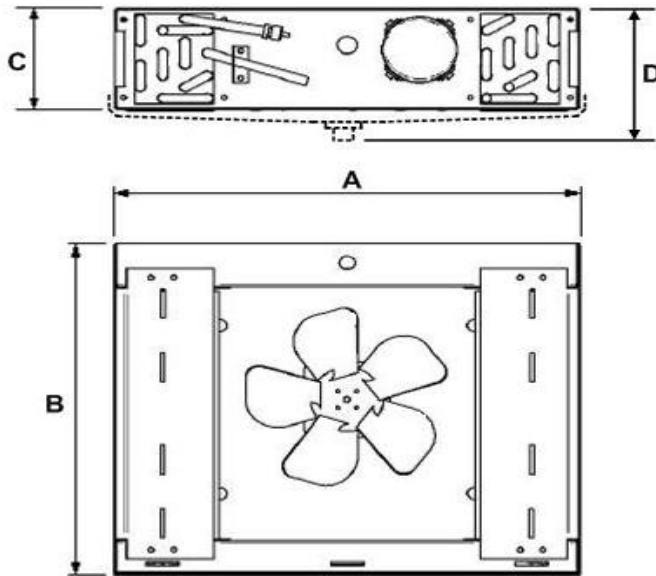
\*\* If total amps are more than 25A then heaters are split into two sets each less than 25A and with own thermostats

## MEDIUM TEMP

## TDD

### 5mm Fin Spacing

	Nominal Capacity <b>R 404a</b> -8°C SST $\Delta T1=7K$	Surface Area	Airflow	Dia <b>200</b> Fan Qty	Dimensions				Conns Refrig		Tube Volume	Net Weight
					A	B	C	D	Inlet	Outlet		
					mm	mm	mm	mm	In."	In."		
<b>020.1-B-1-4</b>	<b>0.50</b>	1.5	280	1	450	365	114	160	3/8	3/8	0.32	5
<b>020.1-C-1-4</b>	<b>0.75</b>	2.3	275	1	450	365	114	160	3/8	3/8	0.49	5.4
<b>020.1-B-2-4</b>	<b>1.05</b>	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)							
		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

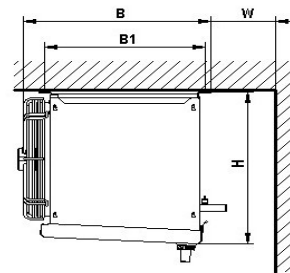
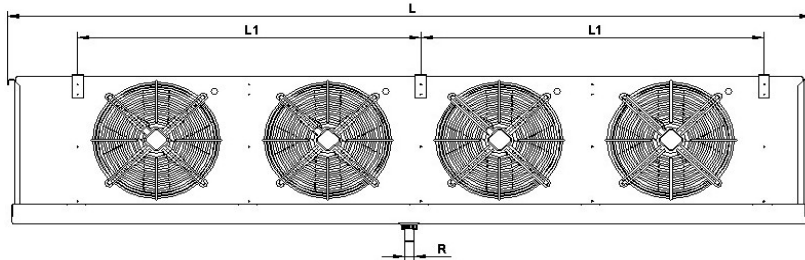
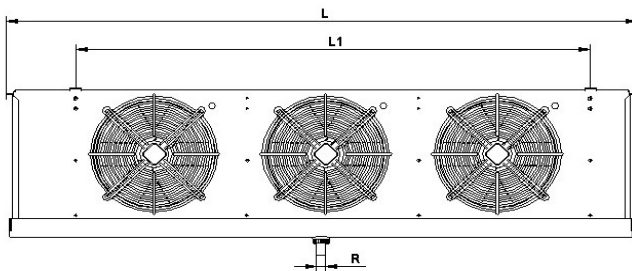
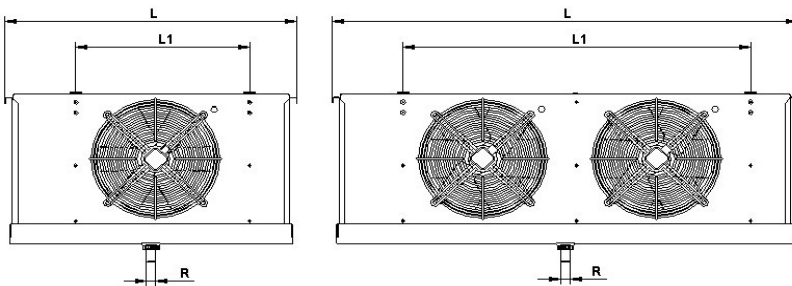
A Temp difference below 7K is only attainable via an Electronic Expansion Valve

## LOW TEMP

## TEB 031

7mm Fin Spacing

	Nominal Capacity <b>R 404a</b> -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 Diptray	Total Amps **	L	B	H	L1	B1	W		Refrig				
																		Inlet	Outlet	Drain		
kW	m <sup>2</sup>	m <sup>3</sup> /hr	Qty	dB-1m	m	kW	kW	kW	A	mm	mm	mm	mm	mm	mm	Qty	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

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

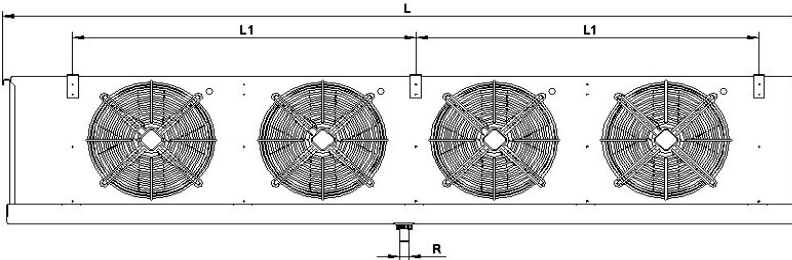
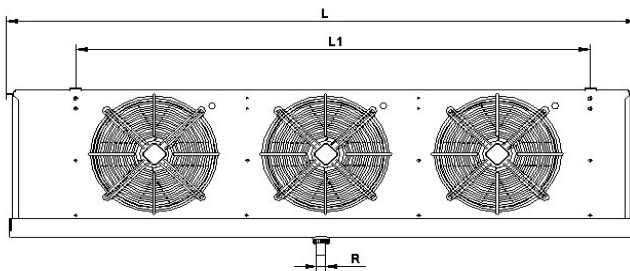
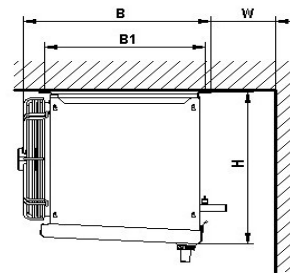
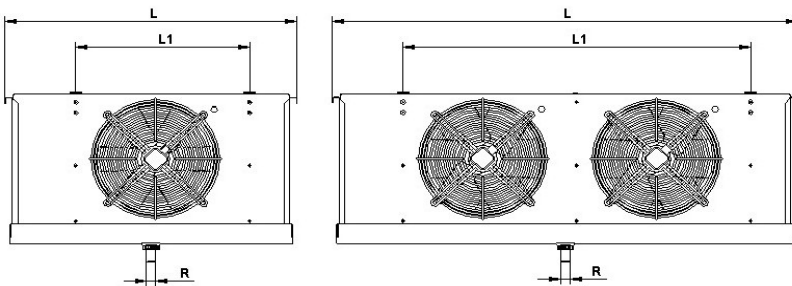
\*\* If total amps are more than 25A then heaters are split into two sets each less than 25A and with own thermostats

## LOW TEMP

## TEB 040

7mm Fin Spacing

	Nominal Capacity <b>R 404a</b> -25°C SST ΔT1=7K	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 Diptray	Total Amps **	L	B	H	L1	B1	W		Qty	Refrig				
																			Inlet	Outlet			Drain
kW	m <sup>2</sup>	m <sup>3</sup> /hr	Qty	dB-1m	m	kW	kW	kW	A	mm	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	24	
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	21	
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	23	
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

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

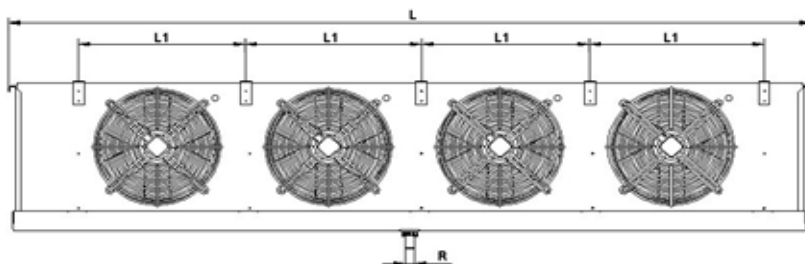
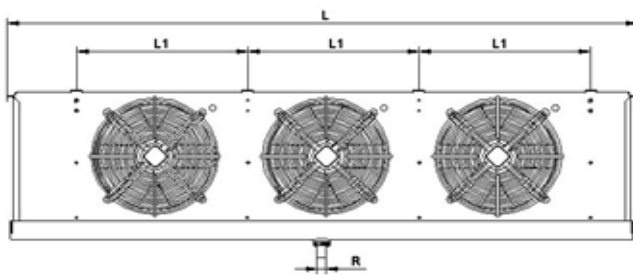
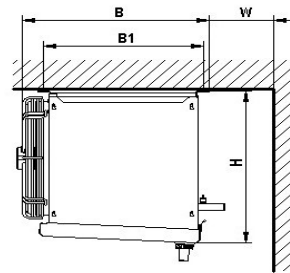
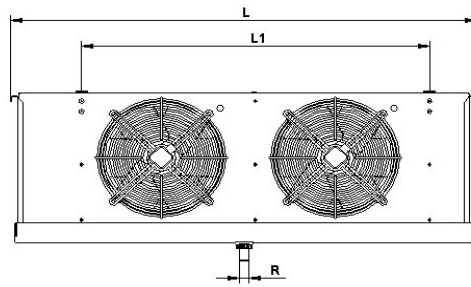
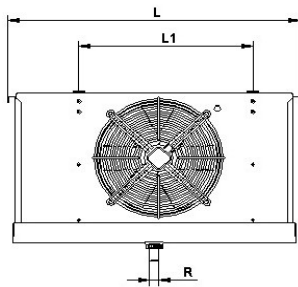
\*\* If total amps are more than 25A then heaters are split into two sets each less than 25A and with own thermostats

## LOW TEMP

## TEB 050

7mm Fin Spacing

	Nominal Capacity <b>R 404a</b> -25°C SST ΔT1=7K	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		Inlet	Outlet	Drain		
<b>050.1-C-1-7</b>	<b>5.8</b>	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
<b>050.1-E-1-7</b>	<b>7.8</b>	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
<b>050.1-F-1-7</b>	<b>9.2</b>	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	15	79
<b>050.1-C-2-7</b>	<b>11.3</b>	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
<b>050.1-E-2-7</b>	<b>15.7</b>	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
<b>050.1-F-2-7</b>	<b>18.5</b>	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
<b>050.1-C-3-7</b>	<b>17.6</b>	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
<b>050.1-E-3-7</b>	<b>23.3</b>	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
<b>050.1-F-3-7</b>	<b>28.1</b>	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
<b>050.1-C-4-7</b>	<b>22.6</b>	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
<b>050.1-E-4-7</b>	<b>31.1</b>	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
<b>050.1-F-4-7</b>	<b>37.5</b>	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

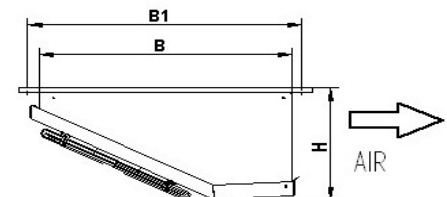
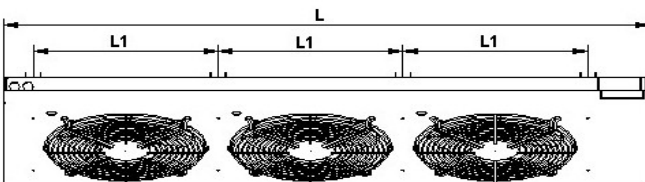
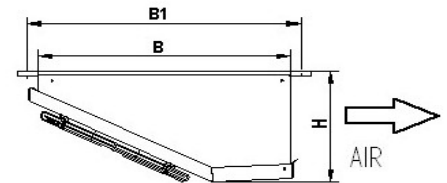
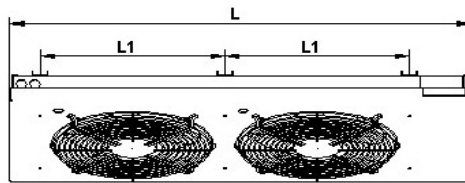
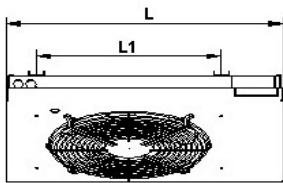


## LOW TEMP

## TEMB 025/031

7mm Fin Spacing

	Nominal Capacity <b>R 404a</b> -25°C SST ΔT1=7K	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			Qty	Inlet	Outlet			Drain
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	1	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	1	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	1	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	1	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

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				

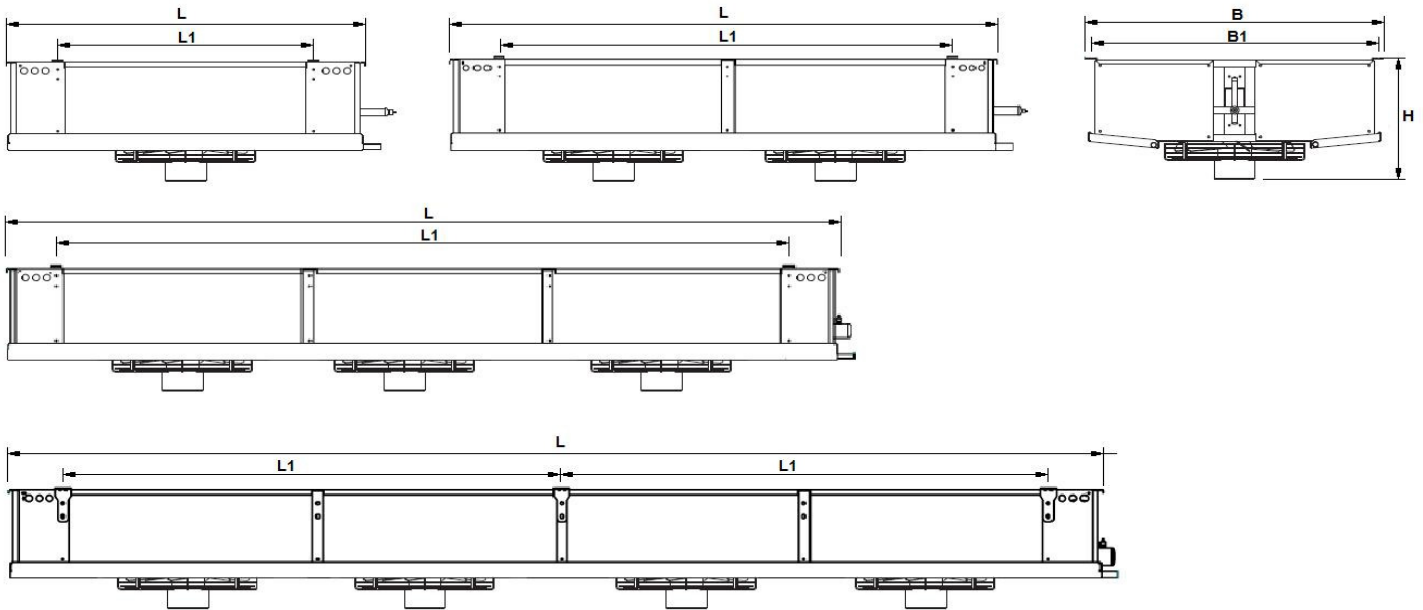
A Temp difference below 7K is only attainable via an Electronic Expansion Valve

## LOW TEMP

## TEDB 035

7mm Fin Spacing

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

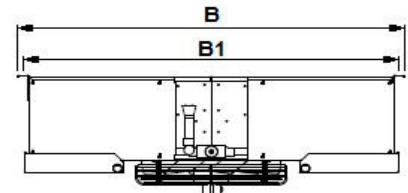
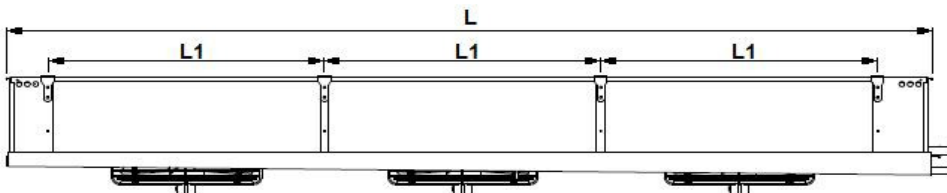
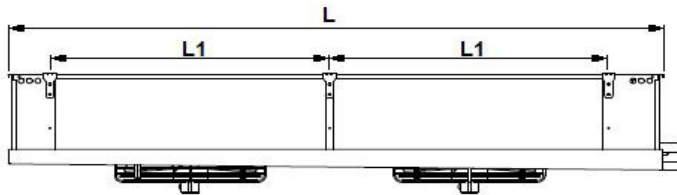
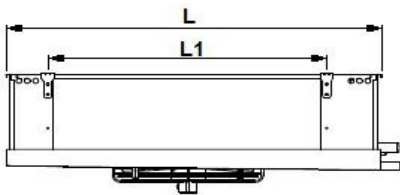
A Temp difference below 7K is only attainable via an Electronic Expansion Valve

## LOW TEMP

## TEDB 050

7mm Fin Spacing

	Nominal Capacity <b>R 404a</b> -25°C SST ΔT1=7K	Surface Area	Airflow	Dia <b>500</b> Fan Qty	Sound Pressure Level	Air Throw	Defrost Heating (380V)				Dimensions					Mounting Points	Connections			Tube Volume	Net Weight
							Total Heat	Per Coil	Per Dirptry	Max Amp / Ø**	L	B	H	L1	B1		Refrig				
																	Inlet	Outlet	Drain		
kW	m <sup>2</sup>	m <sup>3</sup> /hr	Qty	dB-1m	m	kW	kW	kW	A	mm	mm	mm	mm	mm	Qty	In."	In."	MPT "	L	Kg	
<b>050.1-C-1-7</b>	<b>5.8</b>	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
<b>050.1-E-1-7</b>	<b>7.8</b>	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
<b>050.1-F-1-7</b>	<b>9.2</b>	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	15	84
<b>050.1-C-2-7</b>	<b>11.3</b>	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
<b>050.1-E-2-7</b>	<b>15.7</b>	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
<b>050.1-F-2-7</b>	<b>18.5</b>	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
<b>050.1-C-3-7</b>	<b>17.6</b>	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
<b>050.1-E-3-7</b>	<b>23.3</b>	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
<b>050.1-F-3-7</b>	<b>28.1</b>	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

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

