

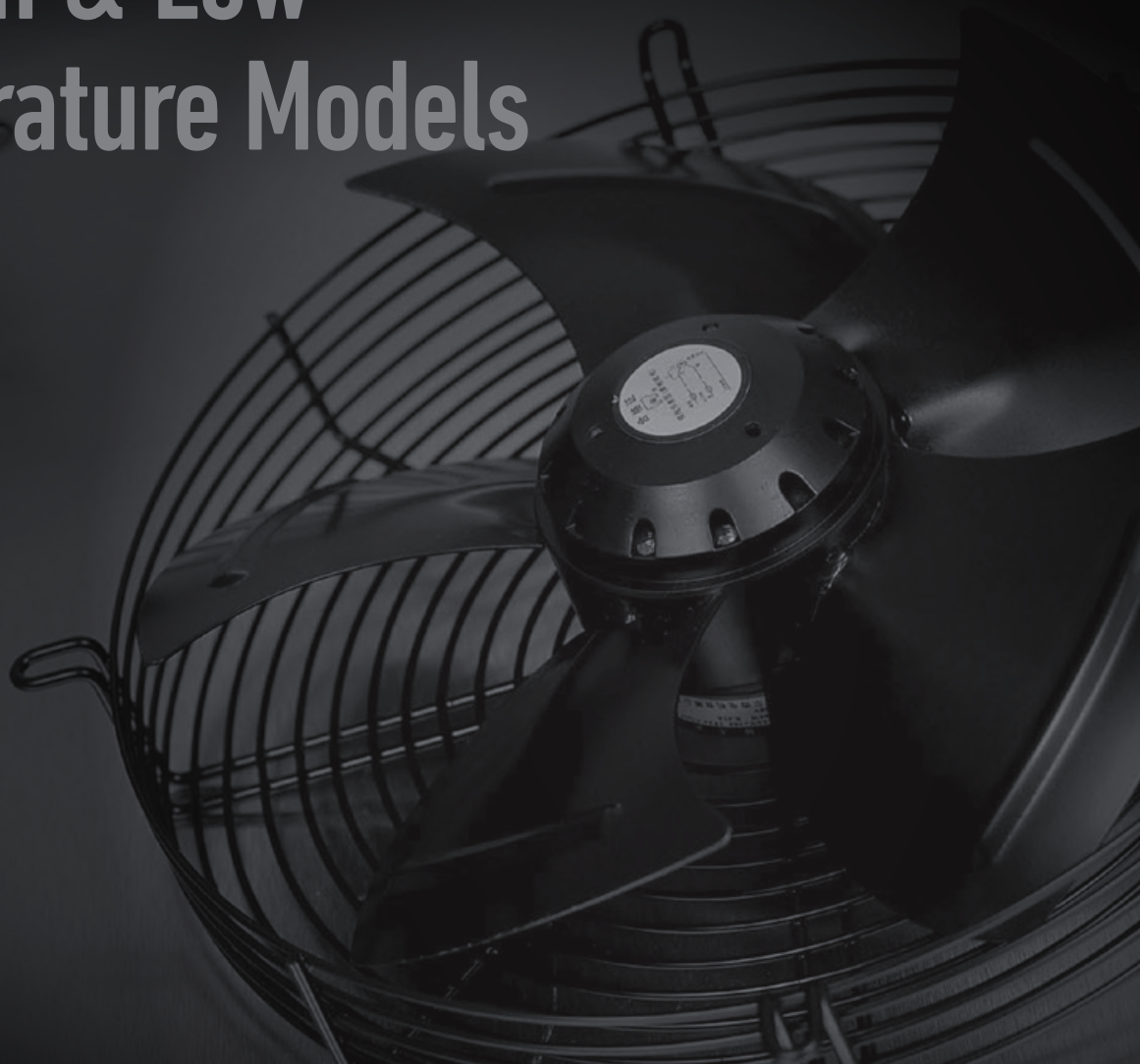
TOTALINE



EVAPORATOR

E2 SERIES

Medium & Low
Temperature Models



Suppliers to the air-conditioning, heating and refrigeration trade.

www.totaline.com.au

Application Benefits/Features

HIGH EFFICIENCY HEAT EXCHANGER COIL

- The capacity range is matched to suit popular compressor and condensing units in Australia.
- The fin and tube design maximises the sensible capacity and minimises the latent heat and frost losses and provides a cost efficient heat transfer product.
- A high secondary surface area to primary surface area ratio is utilised to minimise the time necessary for defrosting.
- Hydrophilic blue aluminium fins.
- The product capacities has been verified using proven German thermodynamic and aerodynamic design software.

FANS

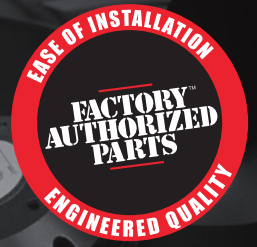
- Low power input, high torque, 240 Volt split phase motors are fitted to all models.
- The fan venturi is designed to provide maximum air flow and air throw.
- Our fans are sourced from the world's leading manufacturer and have proven reliability.
- Motor: protection class IP 54 and Insulation class F
- The fan assembly allows easy access and maintenance.

DEFROST

- 4.2 mm fin spacing is used on the medium temperature models to allow off cycle defrosting, whilst 6.00 mm fin spacing is used on the electric defrost low temperature models to ensure the rated cooling capacities are achieved without excessive ice buildup.
- The wattage of the defrost heaters has been determined using thermodynamic calculations of the ice formation rate and limited to reduce "steaming" during the defrost period.
- Robust stainless steel electric heaters fitted with high isolation cable connections to meet AS/NS 3000-2007, International UL-SA5102 and CSA - LR18489 standards to ensure the safety of the equipment.
- 100% factory tested at full load and immersed in a water tank when tested.
- Heater wired to electric terminal box suitable for wet conditions (standard IP 66) and low temperature (tested at -40°C)

OPTIONS AVAILABLE

- Customised fin spacing
- Alternative German Fan selection available
- Customised EC fan motors and frequency options
- Overheat klixon protection
- Coils for glycol applications
- Coils for CO2 applications



Model Nomenclature – TE & TF Series Evaporators

Example: TEM16

Nomenclature

T	TOTALINE
E	E SERIES: 300MM FANS; F SERIES: 350MM FANS; I SERIES: 500MM FANS
M	MEDIUM TEMP or L = LOW TEMP
16	CAPACITY (WATTS) X 100

Performance Correction Factors

Table F1 - For capacity calculating at varying evaporator saturated suction temperture (SST)

MEDIUM TEMPERATURE - TEM, TFM						
SST	-10°C	-8°C	-5°C	-4°C	-0°C	+5°C
FACTOR (F.1)	0.957	0.98	0.99	1.0	1.021	1.04

LOW TEMPERATURE - TEL, TFL						
SST	-35°C	-30°C	-28°C	-24°C	-20°C	-15°C
FACTOR (F.1)	0.95	0.978	0.98	1.0	1.023	1.06

Corrected Evaporator Capacity

EVAPORATOR CAPACITY
R404A in Watts

X

F.1

CATALOGUE RATING CONDITION

MEDIUM TEMPERATURE

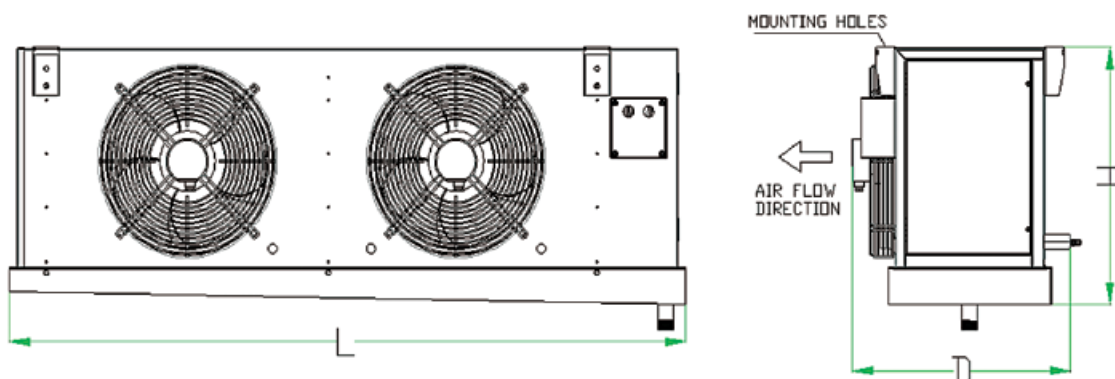
- Air Inlet Temperature 2°C
- Evaporating temperature -4°C
- Superheat 5K

LOW TEMPERATURE (SC3)

- Air Inlet Temperature -18°C
- Evaporating temperature -24°C
- Superheat 5K

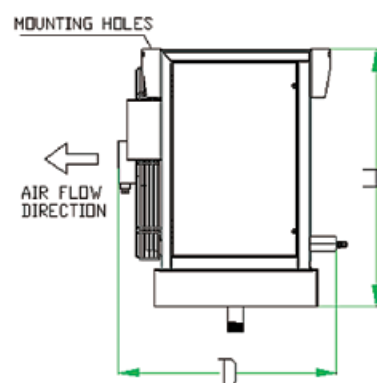
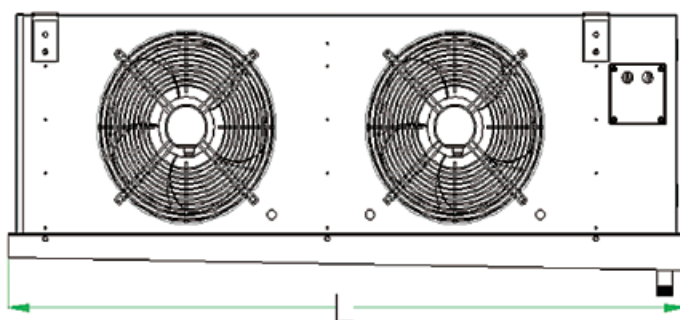


Air Throw (m)	Fan Motor		Sound Pressure Level dB(A)/m	Dimension				Connections		
	Watts	Amps		L	H	D	Mounting Centres	Inlet	Outlet	Ext Equaliser
8	80	0.42	54	733	452.8	447.3	350×358	12.70	15.88	6.35
9	160	0.84	55	1133	452.8	447.3	350×(355+401)	12.70	15.88	6.35
9	160	0.84	55	1133	452.8	447.3	350×(355+401)	12.70	15.88	6.35
9	160	0.84	55	1133	452.8	447.3	350×(355+401)	12.70	15.88	6.35
9	160	0.84	55	1133	452.8	447.3	350×(355+401)	12.70	22.22	6.35
10	240	1.26	56	1533	452.8	447.3	350×(400+400+357)	15.88	22.22	6.35
10	240	1.26	56	1533	452.8	447.3	350×(400+400+357)	15.88	22.22	6.35
10	240	1.26	56	1533	452.8	447.3	350×(400+400+357)	15.88	22.22	6.35
13	340	1.7	56	1533	516.3	447.2	350×(600+557)	15.88	22.22	6.35
13	340	1.7	56	1533	516.3	447.2	350×(600+557)	15.88	22.22	6.35
13	340	1.7	56	1533	516.3	447.2	350×(600+557)	15.88	28.58	6.35
14	510	2.55	57	2133	516.3	447.2	350×(557+600+600)	15.88	28.58	6.35
14	510	2.55	57	2133	516.3	447.2	350×(557+600+600)	15.88	28.58	6.35
14	510	2.55	57	2133	516.3	447.2	350×(557+600+600)	15.88	34.92	6.35
14	680	3.4	58	2733	516.3	447.2	350×(557+600+600+600)	15.88	34.92	6.35
14	680	3.4	58	2733	516.3	447.2	350×(557+600+600+600)	15.88	34.92	6.35

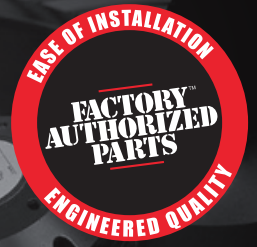


E2 Low Temperature Series

TOTALINE MODEL	R404A	R22	R134A	R404A	R22	R134A	FANS	Air Flow (L/s)	Air Throw (m)
	Cap. -24°C @ 6kTD			Cap. sst -4°C @ 6kTD					
TEL16	1.60	1.58	1.46	1.68	1.63	1.58	2 x 300	2528	9
TEL20	2.00	1.96	1.80	2.15	2.09	2.03	2 x 300	2420	9
TEL28	2.80	2.71	2.50	2.98	2.89	2.81	2 x 300	2242	9
TEL31	3.10	2.96	2.72	3.22	3.13	3.04	3 x 300	3630	10
TEL38	3.80	3.68	3.38	4.18	4.06	3.94	3 x 300	3488	10
TEL43	4.30	4.14	3.81	4.72	4.58	4.45	3 x 300	3363	10
TFL25	2.50	2.41	2.21	2.66	2.58	2.51	1 x 350	2206	12
TFL38	3.80	3.67	3.37	3.95	3.83	3.73	2 x 350	4750	13
TFL47	4.70	4.52	4.16	5.22	5.07	4.92	2 x 350	4568	13
TFL53	5.30	5.12	4.71	5.99	5.82	5.65	2 x 350	4412	13
TFL60	6.00	5.83	5.36	6.45	6.26	6.08	3 x 350	7112	14
TFL71	7.10	6.86	6.31	7.62	7.40	7.19	3 x 350	6852	14
TFL78	7.80	7.53	6.93	8.01	7.78	7.56	3 x 350	6618	14
TFL90	9.00	8.72	8.02	9.40	9.13	8.87	4 x 350	9138	14
TFL97	9.70	9.46	8.70	10.60	10.33	10.04	4 x 350	8824	14

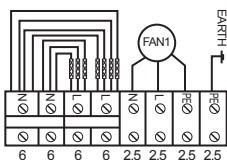
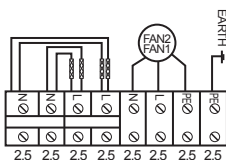


• Capacities based on -24°C SST/ 6KTD for low temperature models

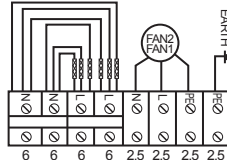
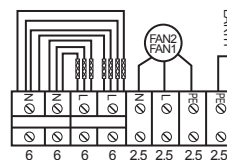
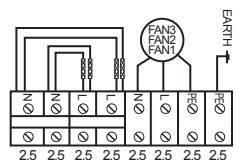


Fan Motor		Sound Pressure Level dB(A)/m	Heater Defrost (W) 1 Phase/ 220V/50HZ	Dimension				Connections		
Watts	Amps			L	H	D	Mounting Centres	Inlet	Outlet	Ext Equaliser
160	0.84	55	1440	1133	452.8	447.3	350×(355+401)	12.7	15.88	6.35
160	0.84	55	1440	1133	452.8	447.3	350×(355+401)	12.7	19.05	6.35
160	0.84	55	3360	1133	452.8	447.3	350×(355+401)	12.7	22.22	6.35
240	1.26	56	2880	1533	452.8	447.3	350×(355+401)	15.88	22.22	6.35
240	1.26	56	4320	1533	452.8	447.3	350×(400+400+357)	15.88	22.22	6.35
240	1.26	56	5320	1533	452.8	447.3	350×(400+400+357)	15.88	28.60	6.35
240	1.26	56	2520	933	516.3	447.2	350×558	12.7	22.22	6.35
340	1.7	56	2880	1533	516.3	447.2	350×(600+557)	15.88	28.60	6.35
340	1.7	56	4320	1533	516.3	447.2	350×(600+557)	15.88	28.60	6.35
340	1.7	56	5040	1533	516.3	447.2	350×(600+557)	15.88	28.60	6.35
510	2.55	57	4320	2133	516.3	447.2	350×(557+600+600)	15.88	34.93	6.35
510	2.55	57	6480	2133	516.3	447.2	350×(557+600+600)	15.88	34.93	6.35
510	2.55	57	7560	2133	516.3	447.2	350×(557+600+600)	15.88	34.93	6.35
680	3.4	58	8640	2733	516.3	447.2	350×(557+600+600+600)	15.88	34.93	6.35
680	3.4	58	10800	2733	516.3	447.2	350×(557+600+600+600)	22.22	41.28	6.35

TFL25

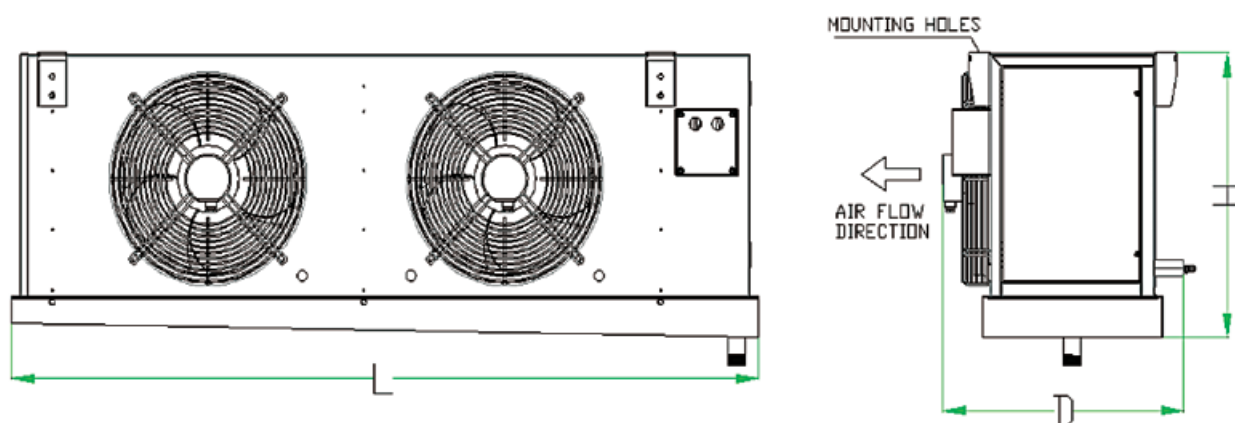
TEL16
TEL20
TFL38

TFL47

TEL28
TFL53TEL31
TFL60

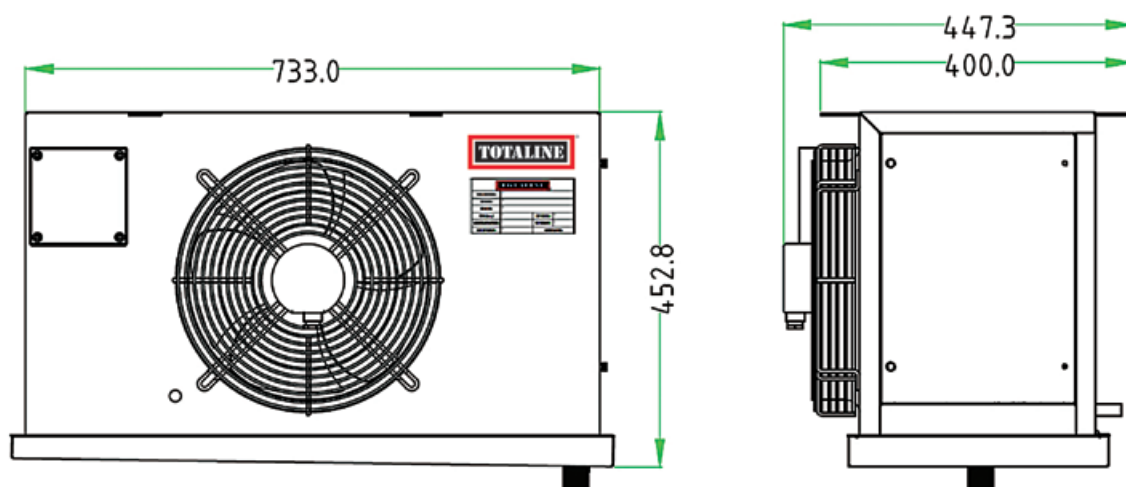
• NOTE: Low Temperature evaporators are supplied with defrost elements fitted, refer to page 14 for more information.

Dimension Diagrams



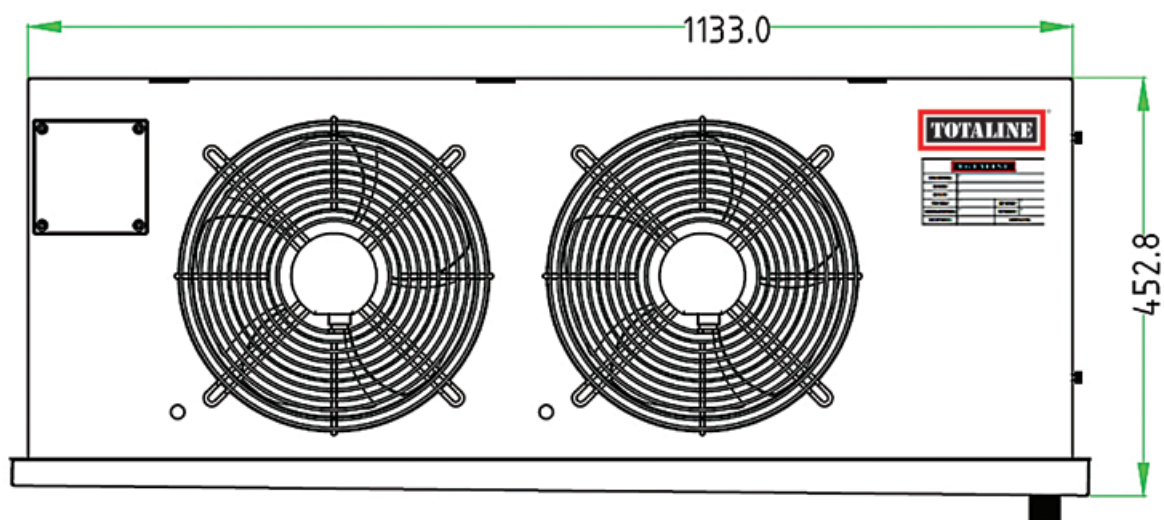
E2 SERIES AIR COOLER

1 X 300 FANS

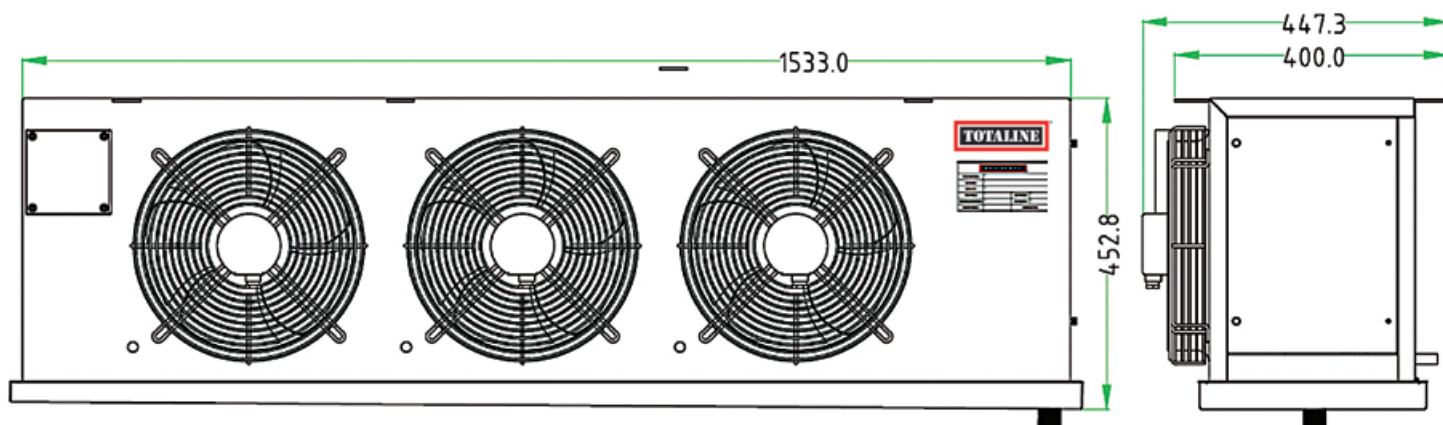


- Dimension diagrams are for guidance only.
- Detailed drawings for each model with full specifications available on request.

2 X 300 FANS

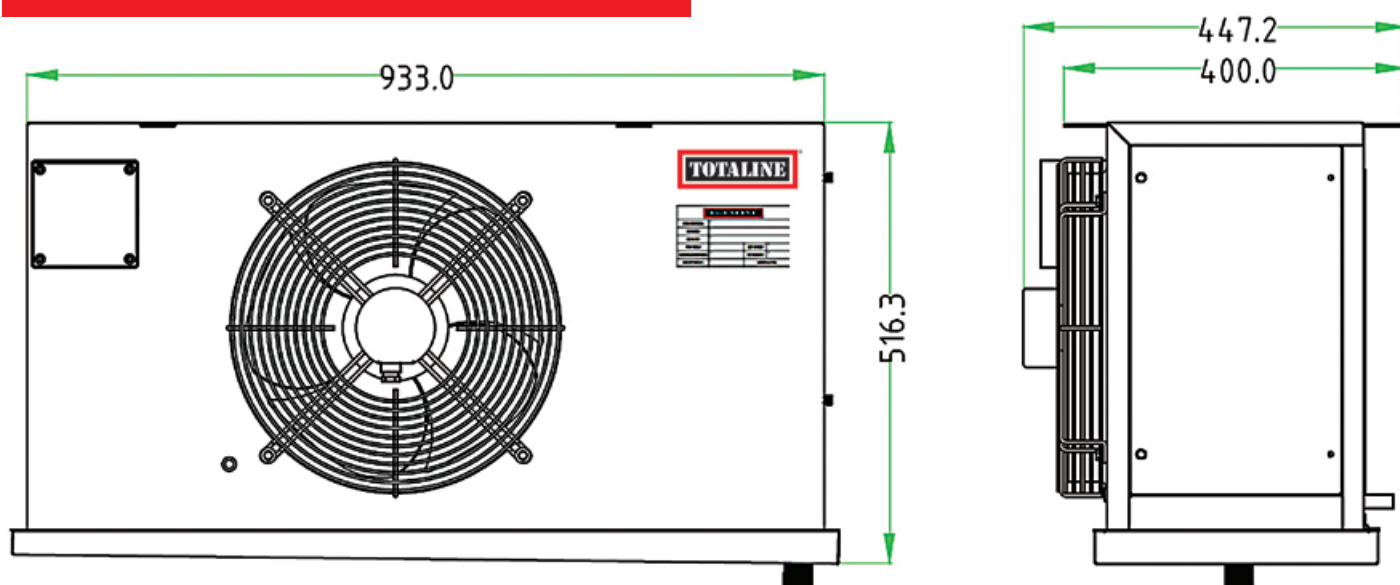


3 X 300 FANS

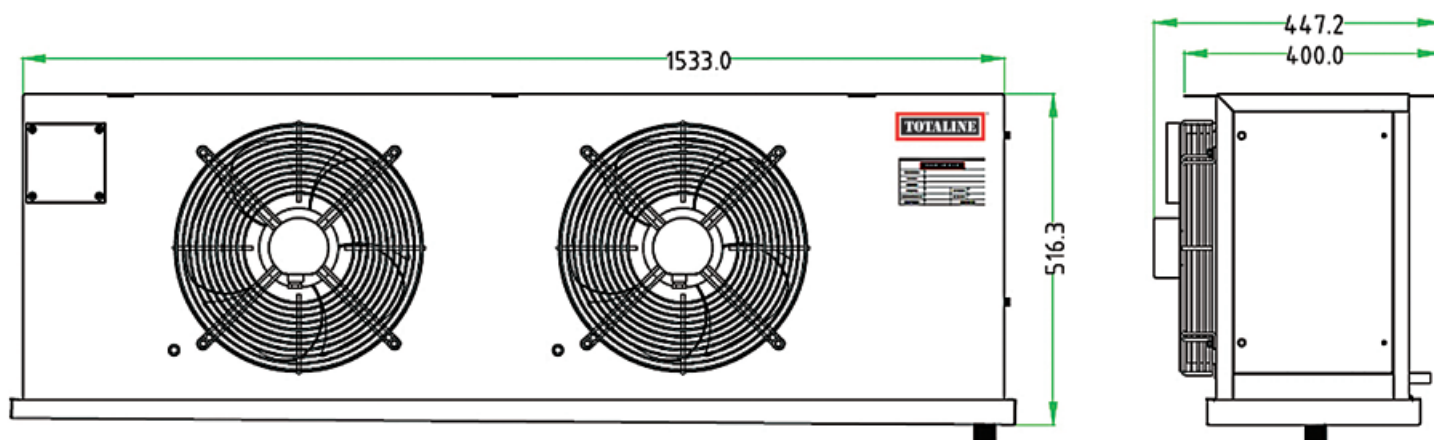


Dimension Diagrams

1 X 350 FANS

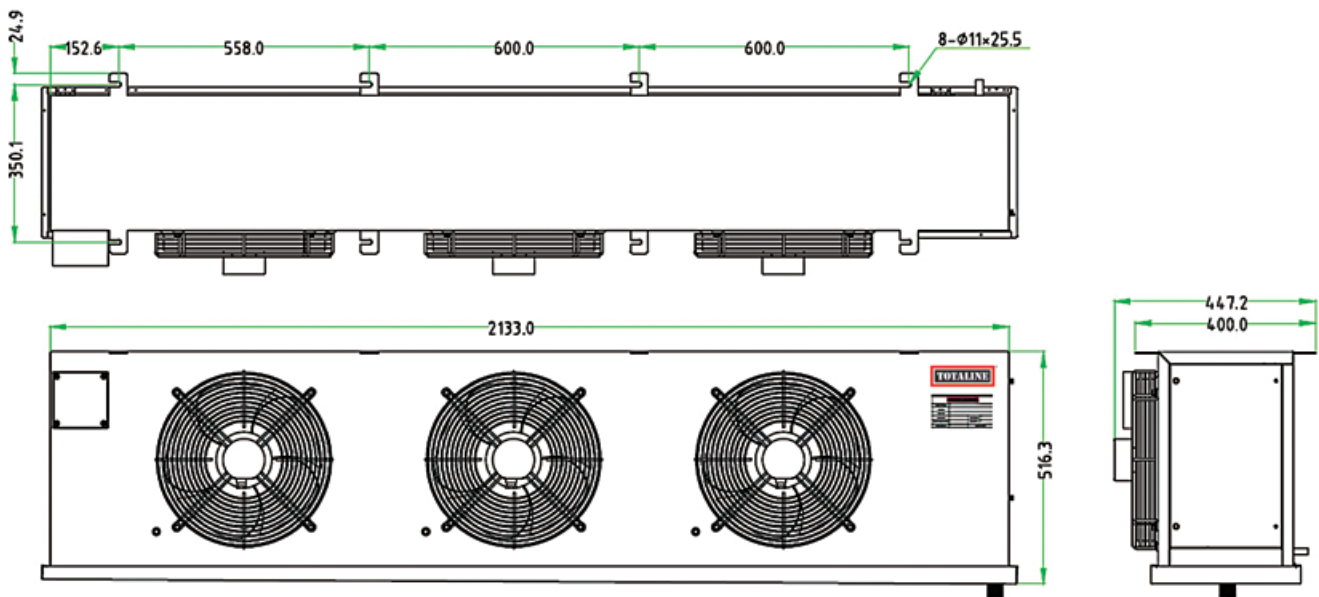


2 X 350 FANS

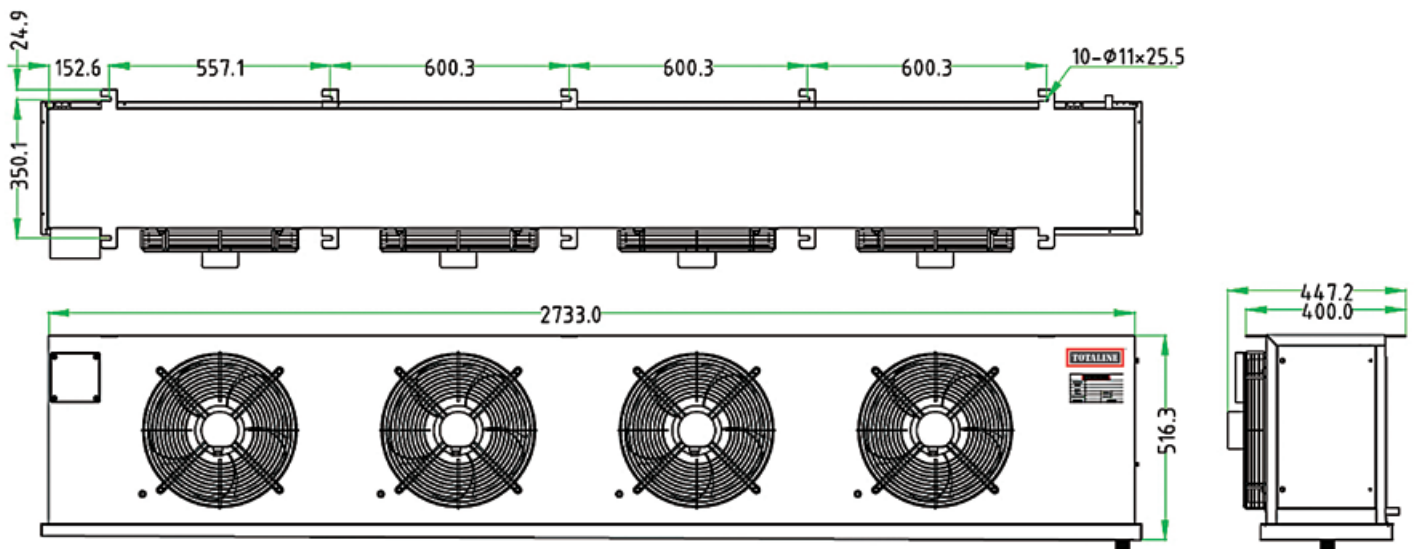


- Dimension diagrams are for guidance only.
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3 X 350 FANS

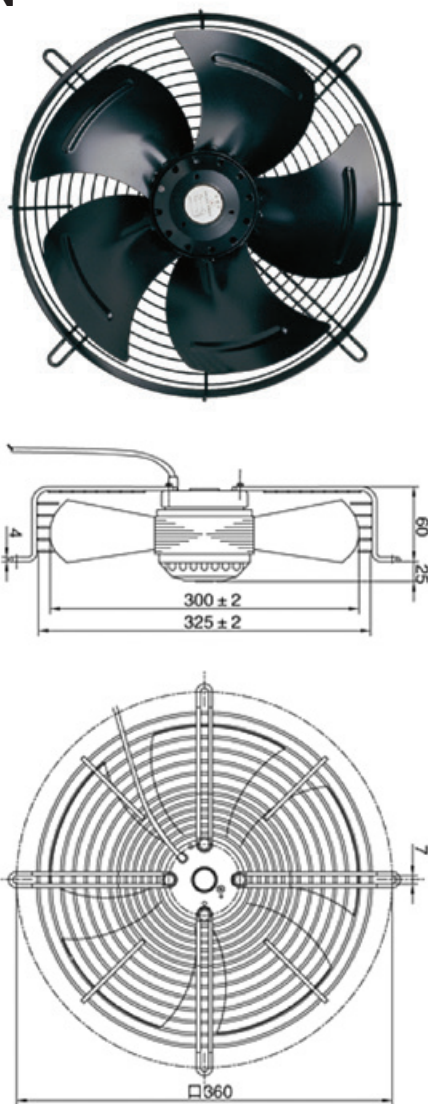


4 X 350 FANS

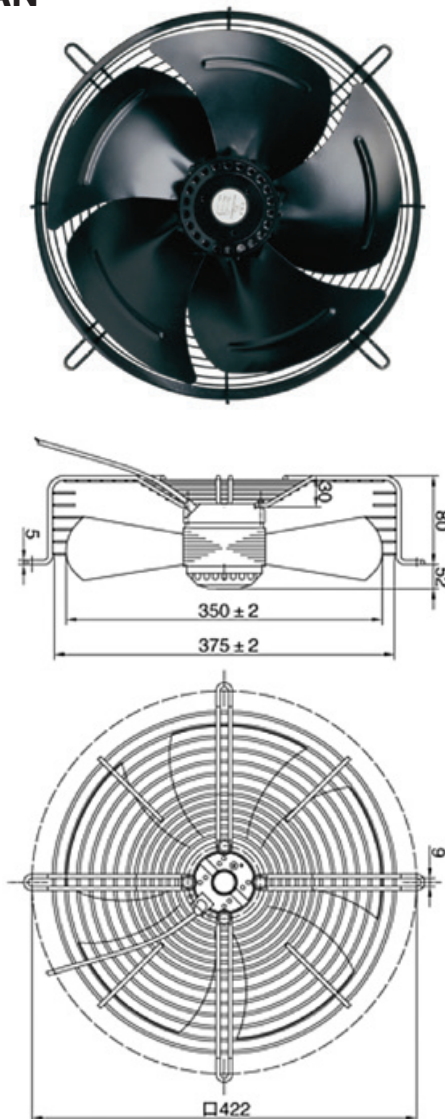


Fan Spares

300 FAN



350 FAN

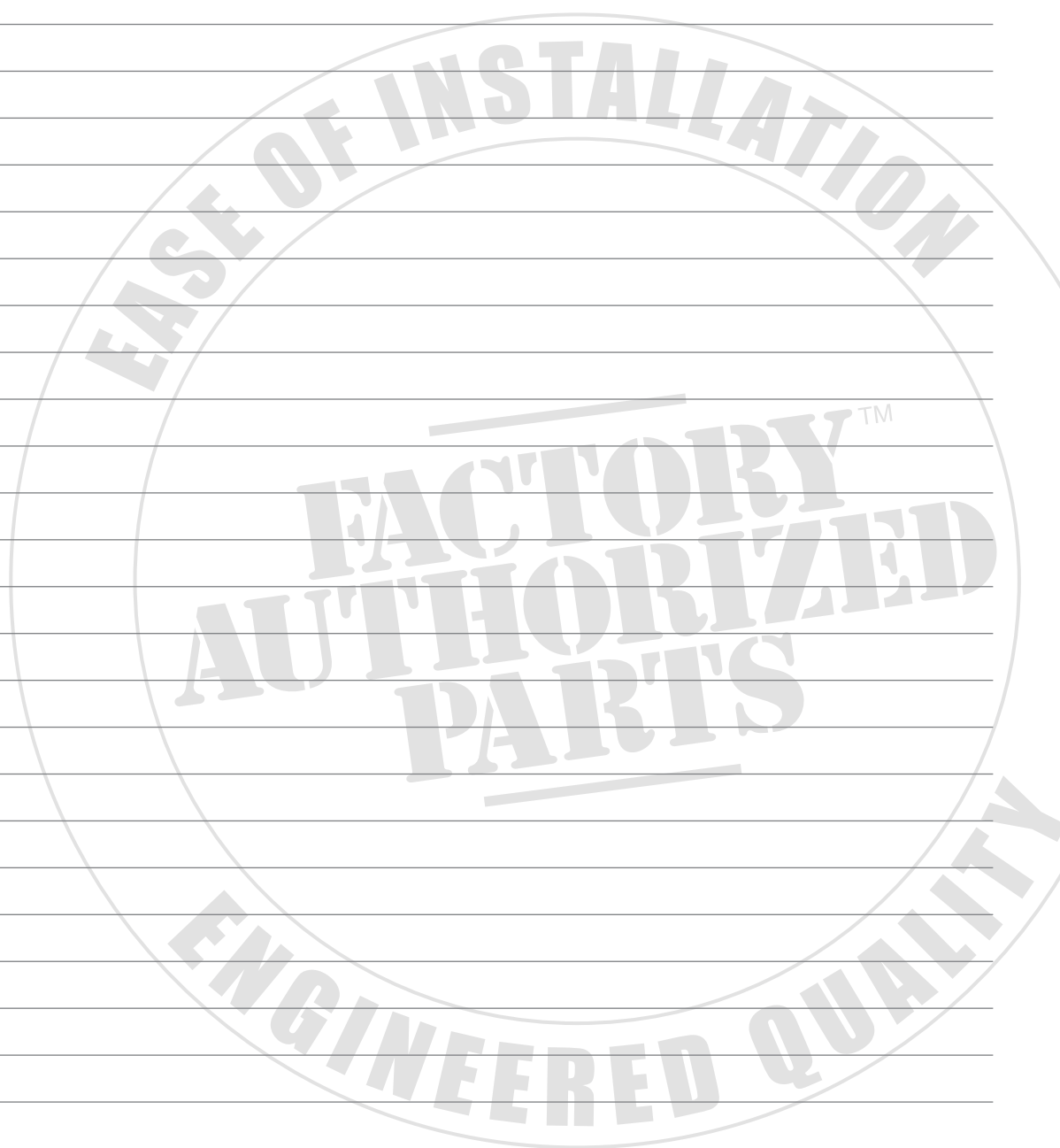


TOTALINE PART NO.	MODEL	VOLTAGE V	FREQUENCY Hz	CURVE NO.	AIR VOLUME m ³ /h	SPEED in/min	INPUT W	CURRENT A	CAPACITANCE μ F/450V
P25723012IE	YDWF65L35P2-360N-300	220	50	1	2220	2700	160	0.75	6
P2573514I	YDWF74S4-422N-350	220	50	1	3150	1380	150	1.7	4

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- Detailed drawings for each model with full specifications available on request.



NOTES



E2 Series TEM & TFM Elements Data

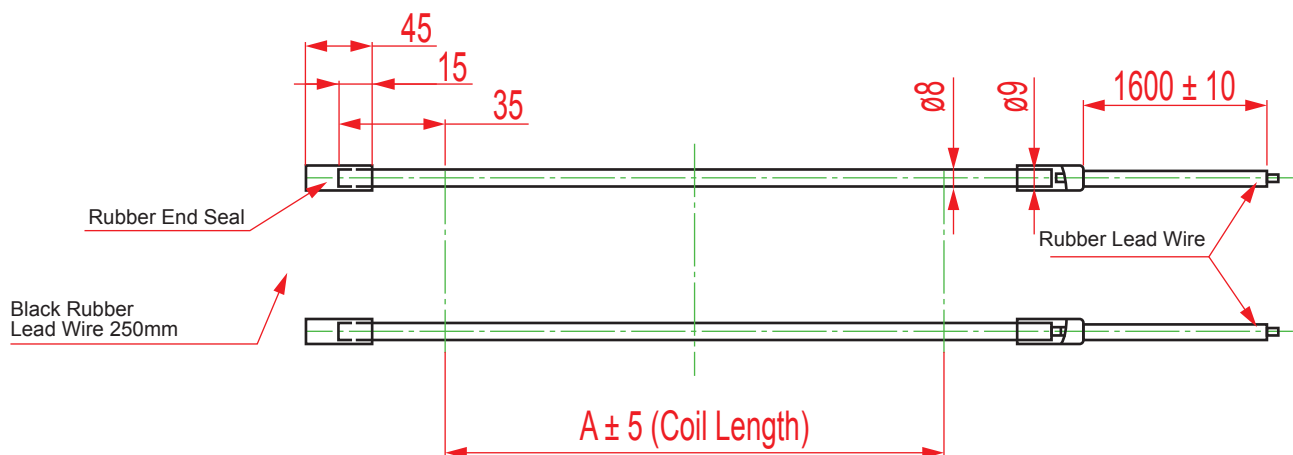
• Optional Medium Temperature defrost heater specifications.

MODEL	DESCRIPTION	COIL POWER	AMPERAGE	VOLTAGE	DIMENSIONS
		W	A	V	A(mm)
TEM16	08.0417	2 x 240	2.18	220 Volt, 1 ~	400
TEM20	08.0420	2 x 480	4.36	220 Volt, 1 ~	800
TEM25	08.0420	2 x 480	4.36	220 Volt, 1 ~	800
TEM33	08.0420	2 x 480	4.36	220 Volt, 1 ~	800
TEM35	08.0420	2 x 480	4.36	220 Volt, 1 ~	800
TEM37	08.0424	2 x 720	6.54	220 Volt, 1 ~	1200
TEM49	08.0424	2 x 720	6.54	220 Volt, 1 ~	1200
TEM55	08.0424	2 x 720	6.54	220 Volt, 1 ~	1200
TFM45	08.0424	2 x 720	6.55	220 Volt, 1 ~	1200
TFM61	08.0424	2 x 720	6.55	220 Volt, 1 ~	1200
TFM69	08.0424	2 x 720	6.55	220 Volt, 1 ~	1200
TFM77	08.0429	2 x 1080	9.82	220 Volt, 1 ~	1800
TFM90	08.0429	2 x 1080	9.82	220 Volt, 1 ~	1800
TFM94	08.0429	2 x 1080	9.82	220 Volt, 1 ~	1800
TFM107	08.0433	2 x 1440	13.09	220 Volt, 1 ~	2400
TFM120	08.0433	2 x 1440	13.09	220 Volt, 1 ~	2400

Note:

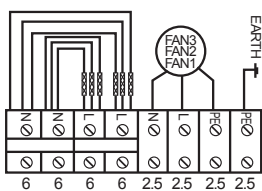
E.g; TEM16 part number for elements is 08.0417, multiplied by 2 when ordering. Refer to table above.

Coil power in Watts is calculated by 2x 240w = 480w divide by 220volts. = 2.18Amps *220V is compatitble with 240V 1 ~ (Single Phase)

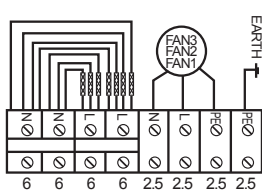


- Defrost elements drawing refers to specification in this catalogue only

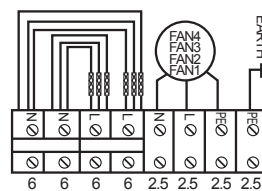
TEL38
TFL71



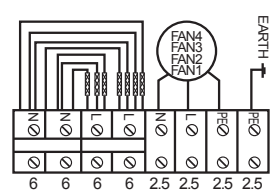
TEL43
TFL78



TFL90



TFL97



- Low Temperature evaporators are supplied with defrost elements fitted, refer to pages 6 & 7 for more information.



AHIC (Australia) Pty Ltd
A Carrier Joint Venture Company

TOTALINK : 1300 657 278

BRANCH LOCATIONS

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Clayton, VIC 3168
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Mitcham

617 Whitehorse Road,
Mitcham, VIC 3132
(03) 9002 2971

Southbank

335 City Road,
Southbank, VIC 3006
(03) 8326 7070

QLD

Acacia Ridge

8 Murdoch Circuit,
Acacia Ridge, QLD 4110
(07) 3711 0800

Townsville

27 Mackley Street,
Townsville, QLD 4814
(07) 4762 7240

NSW

Alexandria OPENING SOON

4 Doody Street,
Alexandria, NSW 2015

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46-48 Derby Street,
Silverwater, NSW 2128
(02) 9202 4490

Waterloo

10/888 Bourke Street,
Waterloo, NSW 2017
(02) 9154 4931

Newcastle

66 Broadmeadow Road,
Broadmeadow, NSW 2292
(02) 4908 5890

WA

Belmont

243 Great Eastern Hwy,
Belmont, WA 6104
(08) 9232 7150

NT

Winnellie

13 Swan Crescent,
Winnellie, NT 0821
(08) 8935 9444

SA

Mile End South

177 Railway Terrace,
Mile End South, SA 5031
(08) 8400 3911

Suppliers to the air-conditioning, heating and refrigeration trade.

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