ALTITUDE

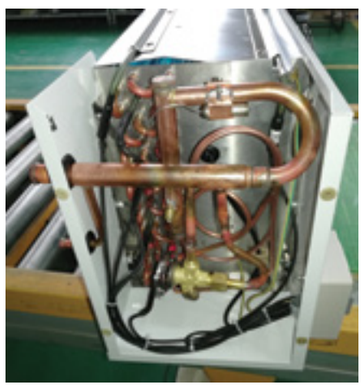
REFRIGERATION SOLUTIONS

High-Efficiency Evaporators for Cold & Freezer Room

300 Series

MEDIUM TEMPERATURE RANGE (Applications where room temp is above +2°C)							
Altitude Model	Capacity kW	HX Surface	Internal Tube Volume (dm3)	Refrigeration			
	TD=6K	Area		Connections			
3.5mm Fin Spacing	Te=-6°C	m2		Liquid	Suction	TXV	Orifice
AE-3.5M |1.3/1*30	1.3	5.6	1.24	3/8	5/8	TES2	0.1
AE-3.5M |1.7/1*30	1.7	7.5	1.66	3/8	5/8	TES2	0.2
AE-3.5M |2.1/1*30	2.1	8.2	1.82	3/8	5/8	TES2	0.2
AE-3.5M |2.4/1*30	2.4	11	2.28	3/8	5/8	TES2	0.3
AE-3.5M |2.7/2*30	2.7	12	2.43	3/8	5/8	TES2	0.3
AE-3.5M |3.1/2*30	3.1	14	2.83	3/8	5/8	TES2	0.3
AE-3.5M |3.9/2*30	3.9	18	3.7	3/8	5/8	TES2	0.3
AE-3.5M |4.6/3*30	4.6	20	4.17	1/2	7/8	TES2	0.4
AE-3.5M |5.8/3*30	5.8	26	5.36	1/2	7/8	TES2	0.4
AE-3.5M |6.7/4*30	6.7	28	5.52	1/2	7/8	TES2	0.5
AE-3.5M |7.7/4*30	7.7	35	7.36	1/2	7/8	TES2	0.6

LOW TEMPERATURE RANGE (Applications where room temperature is lower than +1°C)							
Altitude Model	Capacity kW	HX Surface	Internal Tube Volume (dm3)	Refrigeration			
	TD=6K	Area		Connections			
6.0mm Fin Spacing	Te=-24°C	m2		Liquid	Suction	TXV	Orifice
AE-6.0L |0.8/1*30	0.8	3.5	1.24	3/8	5/8	TES2	0.1
AE-6.0L |1.1/1*30	1.1	5	1.66	3/8	5/8	TES2	0.1
AE-6.0L |1.5/1*30	1.5	7	2.28	3/8	5/8	TES2	0.1
AE-6.0L |2.0/2*30	2.0	9	2.83	3/8	5/8	TES2	0.2
AE-6.0L |2.7/2*30	2.7	12	3.7	3/8	5/8	TES2	0.3
AE-6.0L |3.2/3*30	3.2	14	4.17	1/2	7/8	TES2	0.3
AE-6.0L |3.8/3*30	3.8	17	5.36	1/2	7/8	TES2	0.3
AE-6.0L |4.3/4*30	4.3	19	5.52	1/2	7/8	TES2	0.4
AE-6.0L |5.0/4*30	5.0	23	7.36	1/2	7/8	TES2	0.4



NOMENCLATURE

Example: AE3.5M | 1*30

AE = Altitude Evaporator

3.5= 3.5mm Fin spacing

M = Med Temp - room temp. +2°C

6 = 6mm Fin Spacing

L = Low Temp - room temp. under +1°C

2.4 = Capacity in kW at 6KTD on R404A/ R448A/R449A

1*30 = 1 x 300mm diameter fan/s

External Rotor, Axial Flow Fans						
Dia	No	Power Supply	Power Input	Current	Air Flow	Air Throw
mm			W	(A)	m3/hr	m
300	1	230V/50Hz/1Ph	85	0.42	1800	7
300	1		85	0.42	1800	6
300	1		85	0.42	1800	6
300	1		85	0.42	1800	7
300	2		170	0.84	3600	7
300	2		170	0.84	3600	8
300	2		170	0.84	3600	7
300	3		255	1.26	5400	11
300	3		255	1.26	5400	11
300	4		340	1.68	7200	10
300	4		340	1.68	7200	10

External Rotor, Axial Flow Fans							Electric Defrost (Watts)			
Dia	No	Power Supply	Power Input	Current	Air Flow	Air Throw				
mm			W	(A)	m3/hr	m	In-Coil (x2)	Drain Pan (x1)	Total	Amps
300	1	230V/50Hz/1Ph	85	0.42	1800	7	340	430	1110	4.8
300	1		85	0.42	1800	6	340	430	1110	4.8
300	1		85	0.42	1800	7	460	560	1480	6.4
300	2		170	0.84	3600	8	780	860	2420	10.5
300	2		170	0.84	3600	7	780	860	2420	10.5
300	3		255	1.26	5400	11	1140	1260	3540	15.4
300	3		255	1.26	5400	11	1140	1260	3540	15.4
300	4		340	1.68	7200	10	1520	1510	4550	19.8
300	4		340	1.68	7200	10	1520	1510	4550	19.8

Features:

- Compact design, well suited to hospitality sector cold rooms
- All models fitted with axial flow, external rotor, fan motor assemblies
- All fans have been statically and dynamically balanced
- All fan motor assemblies are wired into the electrical box. Insulation class F, protection IP-55
- The fan shrouds are designed to deliver long air throw
- 3.5mm Fin spacing for MT applications and 6.0mm Fin spacing for LT Applications
- Electric defrost elements fitted to low-temp models. Stainless steel heater elements, located in the fin pack and in the drain pan

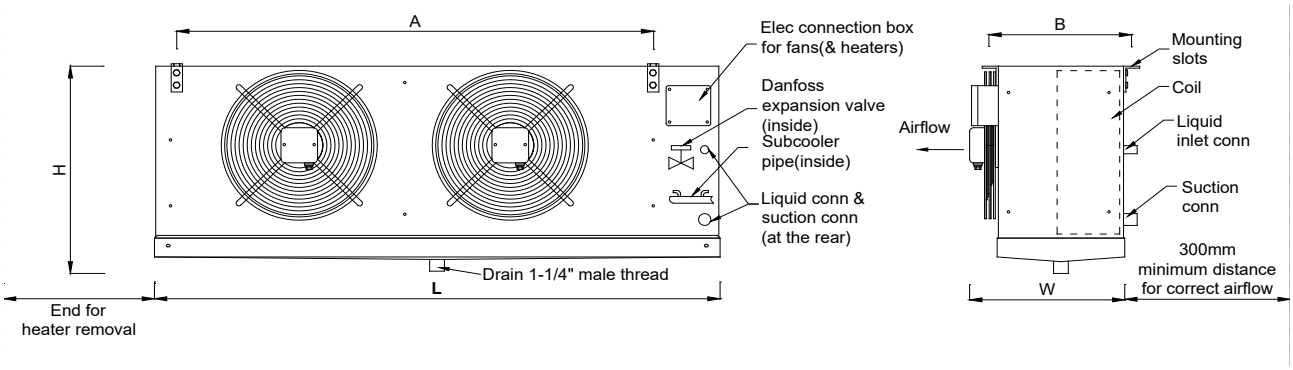
All Altitude evaporators are supplied with:

- **Danfoss TXV and Orifice fitted**
- **1/4" Shrader Valve (Needle Valve) fitted**
- **The efficient coils are made from high quality copper tube and special profile aluminium fins**
- **Heat exchangers are supplied clean and tested under pressure**
- **White powder coated aluminium, high corrosion resistance**
- **Refrigerant distributors and refrigerant circuits are carefully optimised to ensure maximum efficiency of the heat exchangers under various operation conditions.**
- **Suction to liquid line HX to prevent liquid refrigerant flashing**

300 Series

Altitude Model	External Dimensions mm			Installation Dimensions mm		Net Weight
	L	W	H	A	B	kg
AE-3.5M |1.3/1*30	610	360	430	410	295	14
AE-3.5M |1.7/1*30	610	360	430	410	295	14
AE-3.5M |2.1/1*30	610	360	430	410	295	14
AE-3.5M |2.4/1*30	770	360	430	570	295	17
AE-3.5M |2.7/2*30	1160	360	430	960	295	23
AE-3.5M |3.1/2*30	1160	360	430	960	295	25
AE-3.5M |3.9/2*30	1160	360	430	960	295	27
AE-3.5M |4.6/3*30	1630	360	430	1430	295	33
AE-3.5M |5.8/3*30	1630	360	430	1430	295	36
AE-3.5M |6.7/4*30	2100	360	430	1900	295	44
AE-3.5M |7.7/4*30	2100	360	430	1900	295	46

AE-6.0L |1.0/1*30	610	360	430	410	295	14
AE-6.0L |1.3/1*30	610	360	430	410	295	14
AE-6.0L |1.8/1*30	770	360	430	570	295	17
AE-6.0L |2.4/2*30	1160	360	430	960	295	22
AE-6.0L |3.1/2*30	1160	360	430	960	295	23
AE-6.0L |3.7/3*30	1630	360	430	1430	295	33
AE-6.0L |4.3/3*30	1630	360	430	1430	295	36
AE-6.0L |4.9/4*30	2100	360	430	1900	295	44
AE-6.0L |5.8/4*30	2100	360	430	1900	295	46



ALTITUDE
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T: 1800 953 260 (Free call Australia Only)
W: www.altituderefrigeration.com.au

Postal Address:
PO Box 384, Kellyville, **NSW,** 2155, Sydney, Australia
PO Box 678, Oxenford, **QLD,** 4210, Gold Coast, Australia

T: +679 – 998 9971 (Fiji)
W: www.altituderefrigeration.com.fj
E: Enquiries@altituderefrigeration.com.fj

Postal Address:
PO Box PD155, Port Denarau, Fiji
Motorex Complex, Lot 3, Nadi Back Road, **Nadi,** Fiji