



Claverton Road, Wythenshawe
 Manchester M23 9FT
 Tel: 0161 945 8588/ Fax: 0161 945 8590

Equipment Data Sheet

Date:

500 kW Fluid Chiller

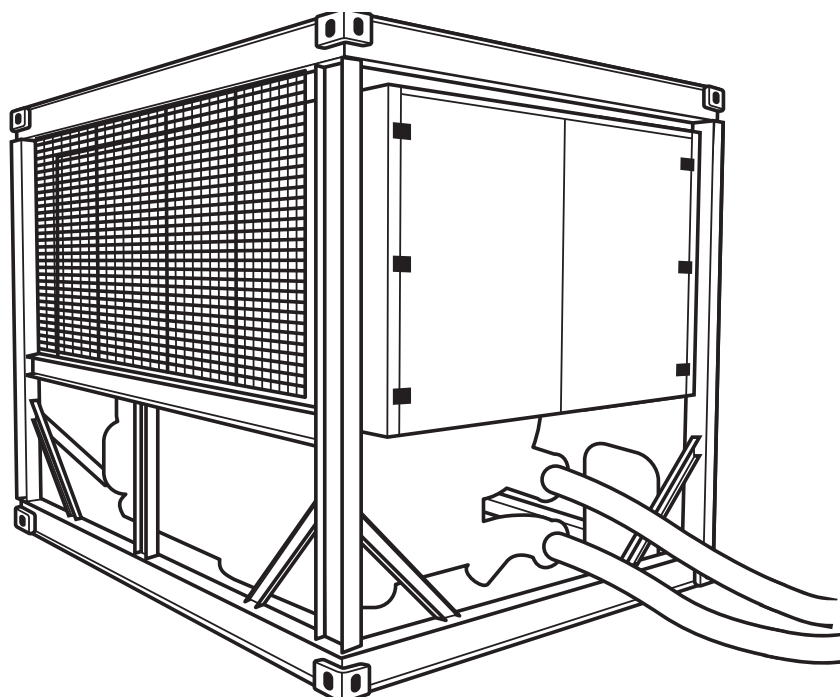
30/06/10

Installation and Dimensions

The 550 kW fluid chiller is a highly efficient, and exceptionally strong chiller and can be used for a multitude of applications where large volumes of cooling is needed. There is a heat pump version available. It's quiet in operation and environmentally friendly, as are all Andrews chillers. The 550 kW chiller is compatible with all Andrews' air handling units and accessories.

Key Data

Duty	500 kW 1,876,600 btu
Power supply	415 V 3 ph +E 50 Hz Run 320 A/hr
Plug type	Hard wired
Noise level	82 dBA @ 10 metres
Weight	4,200 kg
Dimensions (L x W x H)	3,491 x 2,438 x 2,590 mm
Average power consumption	160 kW/hr
Generator size	400 kVA dependent on system resistance



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PERFORMANCE DATA			
Nominal cooling capacity	500 kW		
Design operating temperature in/out	7/12 °C		
Design operating ambient temperature	30 °C		
Minimum/Maximum outlet/inlet temperature	minus 12 + 15 °C		
Minimum/Maximum Ambient temperature	minus 15 + 40 °C		
COMPRESSORS			
Number of compressors	4		
Compressor type	Semi hermetic recip		
Variable loading steps	25 % 50% 75 % 100 %		
EVAPORATOR			
Type	Plate heat exchanger		
Design flow	22.9 l/sec		
Minimum/Maximum	19/25.2 l/sec		
Capacity	56.5 l		
Maximum working pressure	8 Bar		
Pressure drop	40 kpa		
CONDENSER			
Number of fans	4		
Fan type	Axial		
Total volume	100,000 m ³		
REFRIGERANT			
Type	R407C		
Circuits	2		
ELECTRICAL			
Supply voltage	415 v 3 ph E		
Nominal current	384.4 A		
Max current (locked rota)	486.4 A		
Start current amps	499 A		
Electrical connection type	Hard wired lugs		
Recommended generator KVA	400		
NOISE LEVEL			
Sound pressure @ 1 m	82/70 /10 m		
PHYSICAL DATA			
Length	3491 mm		
Width	2438 mm		
Height	2590 mm		
Weight dry	4200 kg		
Weight wet	4214 kg		
Fluid coupling	4 " Bauer		

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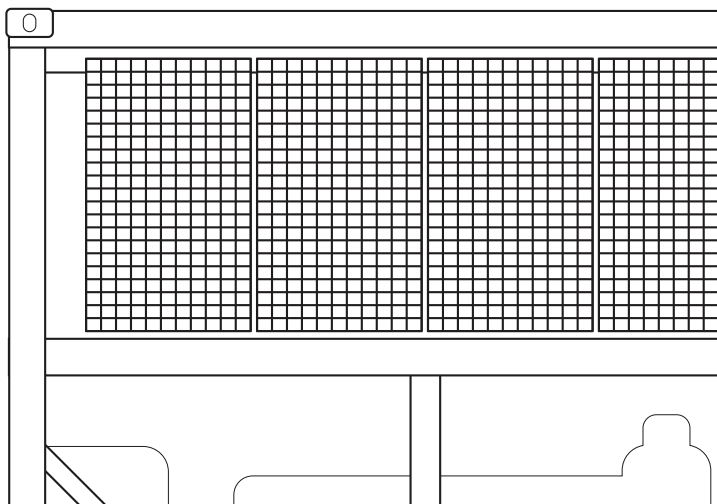
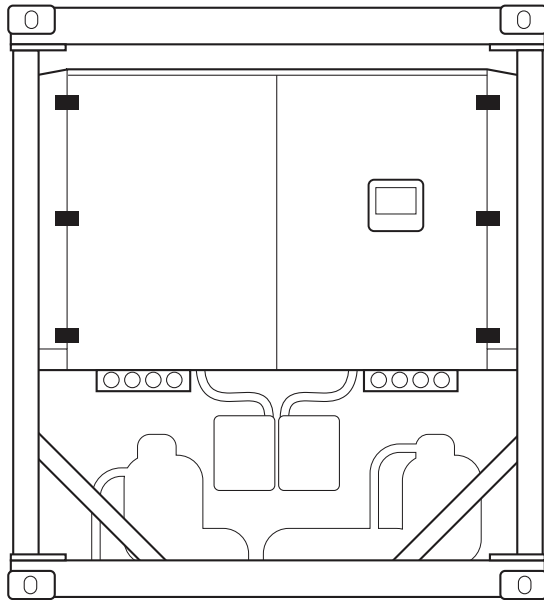
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