

1. EQUIPMENT SCHEDULE

FNB FERNDALE:

Desription	Qty	Model No	Cooling Total
TRANE SCROLL CHILLER	2	CGAF 150 SE SN	493.70 kW
	2		





CGAF / CXAF - Scroll chiller Sintesis Advantage

CGAF 150 SE SN

Job Name

Job01

General Information

Unit nominal tonnage	150	Gross ESEER (Not certified)	4.23
Unit Type	Standard Efficiency (SE)	Net ESEER at Eurovent	4.02
Sound attenuator package	Standard noise (SN)	TOPSS version number	
Refrigerant Type	Pre-charge factory refrigerant	SEER	4.13
Gross capacity	493.70 kW	SEPR HT	5.01
Net capacity	492.59 kW	SEPR MT	3.64
Gross efficiency	2.66 EER (kW/kW)	ETA _{sc}	161.20 %
Net efficiency	2.64 EER (kW/kW)		

Evaporator Information

Evap entering temp	12.0 C	Evap fluid type	Water
Evap leaving temp	6.0 C	Evap fluid concentration	
Evap flow rate	19.61 L/s	Evap fouling factor	0.000001 m ² -deg C/kW
Evap pressure drop	32.9 kPa	Evaporator Application	Comfort cooling (above 4.5C)

Condenser Information

Ambient temperature	35.0 C	Number of condenser fans	8
Fan type	AC fans		
Unit Application	Std ambient (-10C to 46C)		

Free Cooling Information

Free cooling	No Free Cooling	FC Winter Pressure drop	
FC Ambient temperature		FC Summer Pressure drop	
FC Change over temp		FC fluid type	
FC Cooling Capacity		FC percentage concentration	
FC Efficiency			
FC Leaving temp			
FC Flow rate			
FC Entering temp			

Electrical Information

Gross unit power	185.75 kW	Unit starting current	686.50 A
Total compressor power	177.95 kW	Unit voltage	400/50/3
Fan motor power	7.19 kW	Starter Type	Across the Line Starter/Direct on Line
Max amps	429.10 A		

Physical Information

Length	4890 mm
Width	2200 mm
Height	2526 mm
A-weighted sound power	95 dBA
Sound pressure level (10m)	63 dBA
Unit shipping weight	3640 kg
Operating weight	4620 kg
Ckt 1 refrigerant charge	32 kg
Ckt 2 refrigerant charge	32 kg



Pump Package Information

Pump package	Single pump high pressure
Hydraulic Module Nominal current	27.00 A
Hydraulic Module Power	11.02 kW
Available Static Pressure	278.5 kPa
None	X