

Cabinet Type **Multideck Full Height Roll-in**

Model Designation **RF9**

File Reference 1111

Document Issue	1	17.04.09	NM	Provisional Tech Data
	2	03.06.09	IG	Nett Environmental Cooling Effect Added
	3	06.07.09	AG	Cond. Assy. Dims Added
	4	22.07.09	AG	Dims added to Section Drawing
	5	18.09.09	AG	Commissioning Data Added
	6	22.01.10	NM	Data updated
	7	10.03.10	GR	Ceiling Void Detail Added

cabinet **TECHNICAL DATA**

Cabinet Technical Data Sheet – RF9

Product Type	Milk & Juice / 3M1
Product Temperature	-1 / +5°C
Maximum Design Ambient	25°C @ 60RH

Case Length [m]	3.75	2.50
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Refrigeration Data

Nett Environmental Cooling Effect	3.12	3.08
Refrigerant Charge Per System R1270	800g	700g

Electrical Data (@ 230V 50Hz)	Watts	Amps	Watts	Amps
Fans (EC EBM)	63	0.27	42	0.18
Controller	10	0.04	10	0.04
Lights	114	0.50	72	0.31
Condensing unit	3000	13.1	1910	8.3
Maximum Load – Off Cycle Defrost	3187	13.9	2034	8.9

Miscellaneous Data

Total Heat Rejection THR [KW]	10.17	6.938
THR (Water only) [KW]	8.67	5.438
THR (Air only) [KW]	1.5	1.5
Plate Heat Exchanger [Kpa] each	2 @ 0.86 Kpa	2 @ 1.31 Kpa
Water inlet temperature		18°C
Water outlet temperature		24°C
Glycol Flow Rate [Kg/S]***	0.3753	0.2355
Water Flow Rate [Kg/S]****	0.3453	0.2167
Drain Outlet		32mm Plastic
Electrical Connections		Top
Chilled Water Connections		22mm

Set-Up Data** O/C Defrost

Cut in Temperature [°C]	2.5
Differential [K]	2
Anti Cycle Time (Seconds)	180
Lag Comp Delay (Seconds)	180
Cabinet Temperature Ratio (%)	66
N° Defrosts (per 24hrs)	8
Maximum Defrost Time [mins]	45
Defrost Termination Temp (air off) [°C]	9
Drain Down Time [mins]	1
Fans in Defrost	On
Integral Control	Basic

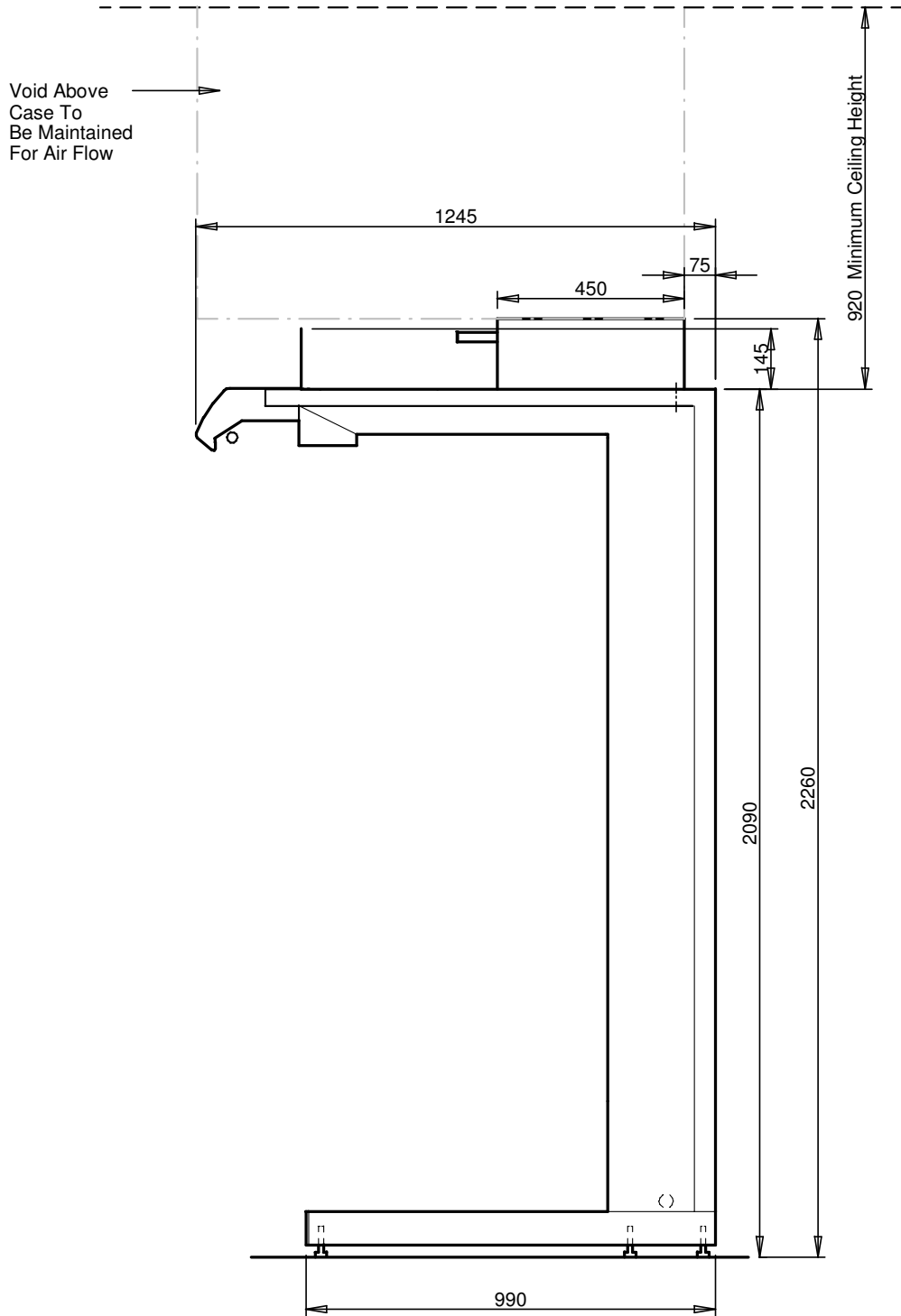
NOTES! * 12/12 Trading Conditions

** Set-up data is for guidance only. Final settings to be determined by commissioning contractor.

*** Flow rate for Glycol based on 30% @ 20°C from ASHRAE = 3.848 KJ/(KG-K)

**** Flow rate for water @ 20°C (http://www.engineeringtoolbox.com/water-thermal-properties-d_162.html)

Section Drawing – RF9



Ref:- DS1111-04

