

Cabinet Type Multideck Produce**Model Designation HE9****File Reference 1113**

Document Issue				
1	17.04.09	NM	Provisional Tech Data	
2	06.07.09	AG	Cond. Assy. Dims Added	
3	22.07.09	AG	Dims added to section Drawing	
4	19.09.09	NM	Commissioning Data updated	
5	04.02.10	NM	Data updated	
6	22.02.10	GR	Ceiling Info Added	
7	12.07.10	GR	1250mm Case Details Added	
8	06.12.10	GR	None Primary Condenser Figures Added	
9	22.12.10	NM	Updated Elec Data & Water Temp/Flow Rates	
10	04.01.11	GR	Condensate Volumes Added	
11	06-06-11	LRC	Control Set Point Changed	
12	08-06-11	GL	Water Flow Rates Updated for 18C &24C	
13	30-06-11	LRC	Produce Settings 3M2 Added	

cabinet **TECHNICAL DATA**

Cabinet Technical Data Sheet – HE9

Product Type	Produce / 3M1							
Product Temperature	-1 / +5°C							
Maximum Design Ambient	25°C @ 60RH							
Case Length [m]	3.75	2.50	1.87	1.25				
Refrigeration Data								
Nett environmental Cooling Effect	2.13	0.92	1.06	0.46				
Refrigerant Charge Per System R1270	600g	400g	500g	400g				
Electrical Data (@ 230V 50Hz)	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps
Fans (EC EBM)	63	0.27	42	0.18	28	0.14	21	0.09
Controller	10	0.04	10	0.04	10	0.04	10	0.04
Condensing unit	1580	6.9	1226	5.3	790	3.4	613	2.7
Maximum Load – Off Cycle Defrost	1653	7.2	1278	5.6	828	3.6	644	2.8
Engineering Data - Common								
Total Heat Rejection THR [KW]	7.56		5.23		3.78		2.61	
Plate Heat Exchanger [Kpa] each	2 @ 1.31		2 @ 1.31		1 @ 1.31		1 @ 1.31	
Water inlet temperature					18°C			
Water outlet temperature					24°C			
Drain Outlet					32mm Plastic			
Chilled Water Connections					22mm			
Condensate Volume (Chilled +5°)					59ltrs (Per Linear Meter Per 24hrs)			
Condensate Volume (Cooled +8/+10°)					31ltrs (Per Linear Meter Per 24hrs)			
Engineering Data – Core Stores (No Primary Condenser)								
THR (Water only) [KW]	6.76		4.43		3.38		2.21	
THR (Air only) [KW]	0.8		0.8		0.4		0.4	
Glycol Flow Rate [Kg/S]***	0.2937		0.1917		0.1464		0.0958	
Water Flow Rate [Kg/S]****	0.2693		0.1763		0.1346		0.0882	
Engineering Data – Convenience Stores (With Primary Condenser)								
THR (Water only) [KW]	6.06		3.73		3.03		1.86	
THR (Air only) [KW]	1.5		1.5		0.75		0.75	
Glycol Flow Rate [Kg/S]***	0.2624		0.1614		0.1312		0.0807	
Water Flow Rate [Kg/S]****	0.2414		0.1485		0.1207		0.0742	
Set-Up Data** O/C Defrost								
Cut in Temperature [°C]		4					4	
Differential [K]		2					2	
Anti Cycle Time [Seconds]		180					180	
Lag Comp Delay [Seconds]		180					0	
Cabinet Temperature Ratio (%)					40			
N° Defrosts (per 24hrs)					8			
Maximum Defrost Time [mins]					45			
Defrost Term Temp (air off) [°C]					8			
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)

Cabinet Technical Data Sheet – HE9

Product Type	Produce / 3M2							
Product Temperature	+5°C/+10°C							
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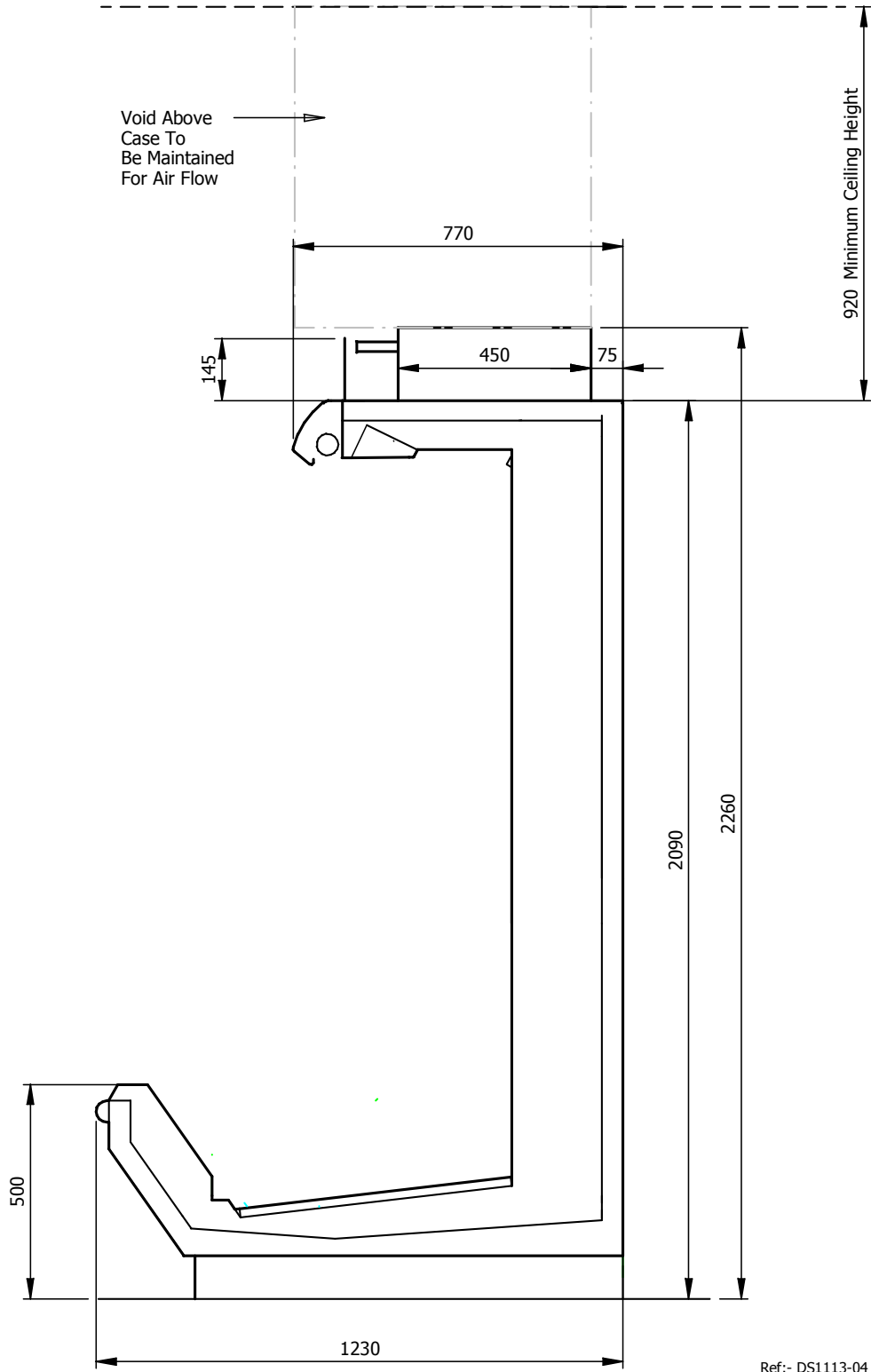
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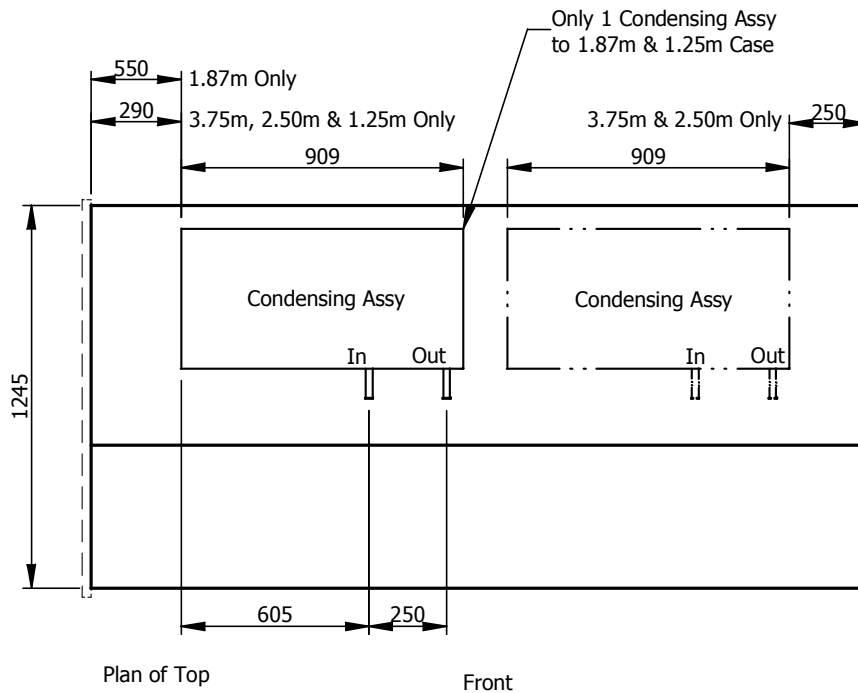
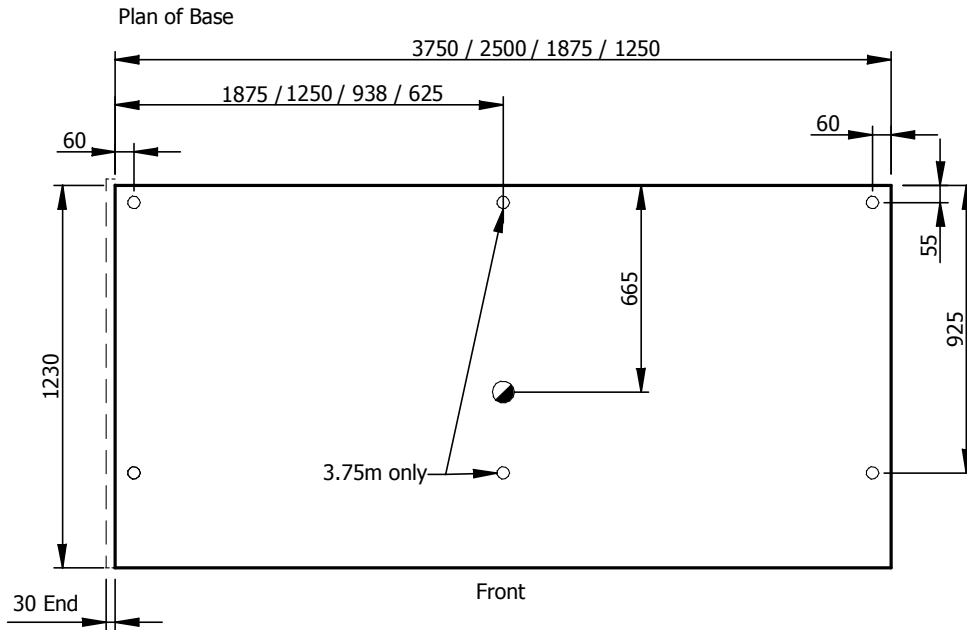
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Section Drawing – HE9



Plan Drawing – HE9

- KEY
- Feet Positions
 - Refrig. Outlets
 - ◐ Drain Outlets
 - ⊗ Electric Outlet from case



Ref:- DP1113-03

