

Cabinet Type	Multideck Produce			
Model Designation	HE8A			
File Reference	1215			
Document Issue	1	28.05.12	LRC	First Issue
	2	30-08-13	LRC	Changed flow rates from Glycol 30% to DTX Glycol 27%
	3	05-09-13	LRC	Updated Heat Exchangers on 3.75m and 2.5m condensing units

cabinet **TECHNICAL DATA**

Cabinet Technical Data Sheet – HE8A

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	1 @ 7.5	1 @ 7.5	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 ^o)				59ltrs (Per Linear Meter Per 24hrs)				
Condensate Volume (Cooled +8/+10 ^o)				31ltrs (Per Linear Meter Per 24hrs)				
Engineering Data								
THR (Water only) [KW]	6.76	4.43	3.38	2.21				
THR (Air only) [KW]	0.8	0.8	0.4	0.4				
DTX Glycol 27% Flow Rate [Kg/S]***	0.2957	0.1936	0.1478	0.0968				
Water Flow Rate [Kg/S]****	0.2693	0.1763	0.1346	0.0882				

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 27% @ 20°C from Coolflow = 3.8095 KJ/(KG-K)

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

Cabinet Technical Data Sheet – HE8A

Product Type	Produce / 3M2			
Product Temperature	+5°C/+10°C			
Maximum Design Ambient	25°C @ 60RH			

Case Length [m]	3.75	2.50	1.87	1.25
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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
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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 ⁰)	59ltrs (Per Linear Metre Per 24hrs)			
Condensate Volume (Cooled +8/+10 ⁰)	31ltrs (Per Linear Metre Per 24hrs)			

Engineering Data				
THR (Water only) [KW]	6.76	4.43	3.38	2.21
THR (Air only) [KW]	0.8	0.8	0.4	0.4
DTX Glycol 27% Flow Rate [Kg/S]***	0.2957	0.1936	0.1478	0.0968
Water Flow Rate [Kg/S]****	0.2693	0.1763	0.1346	0.0882

Set-Up Data** O/C Defrost				
Cut in Temperature [°C]	6			6
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		

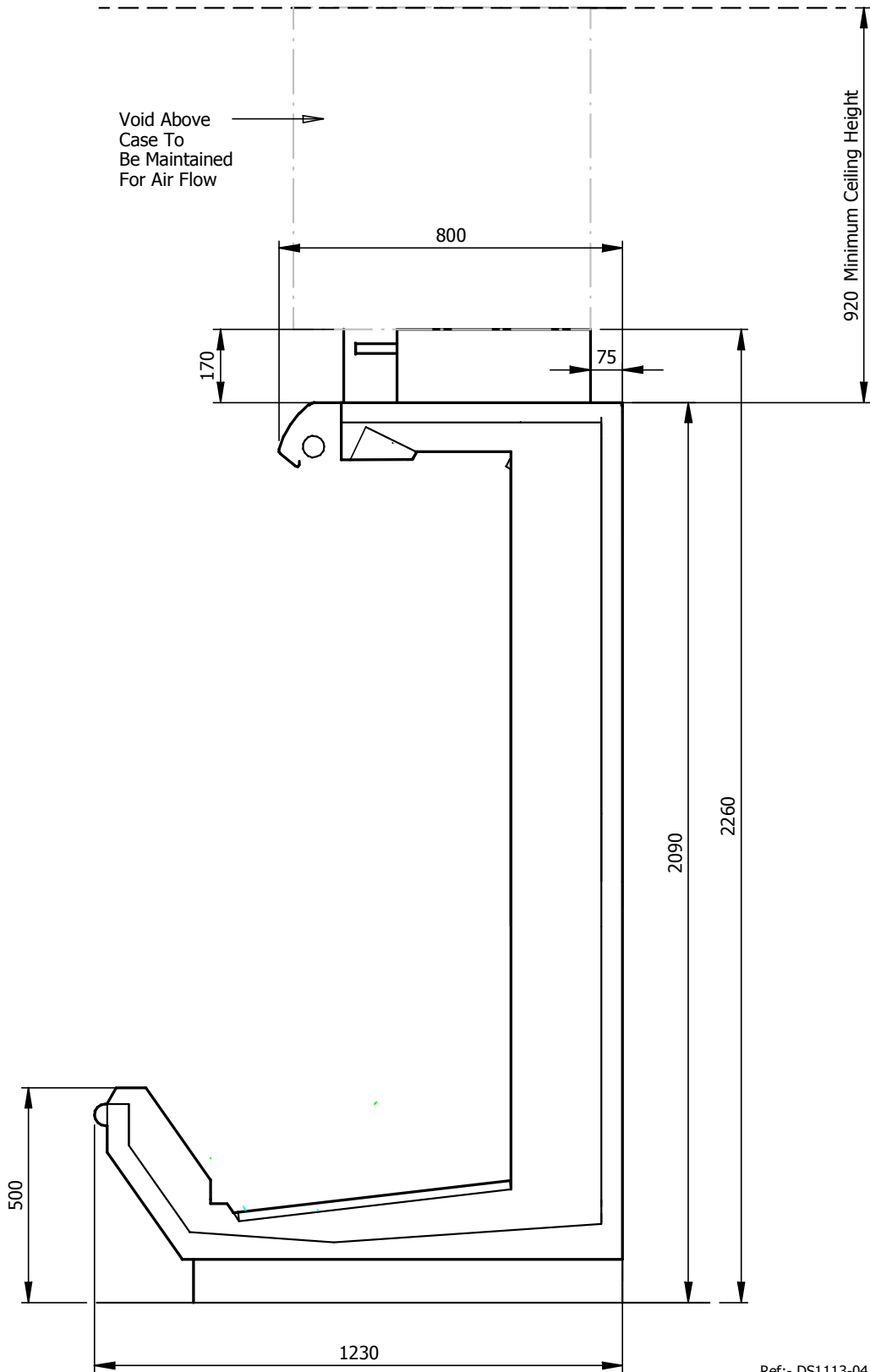
NOTES! * 12/12 Trading Conditions

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

*** Flow rate for Glycol based on 27% @ 20°C from ASHRAE = 3.8095 KJ/(KG-K)

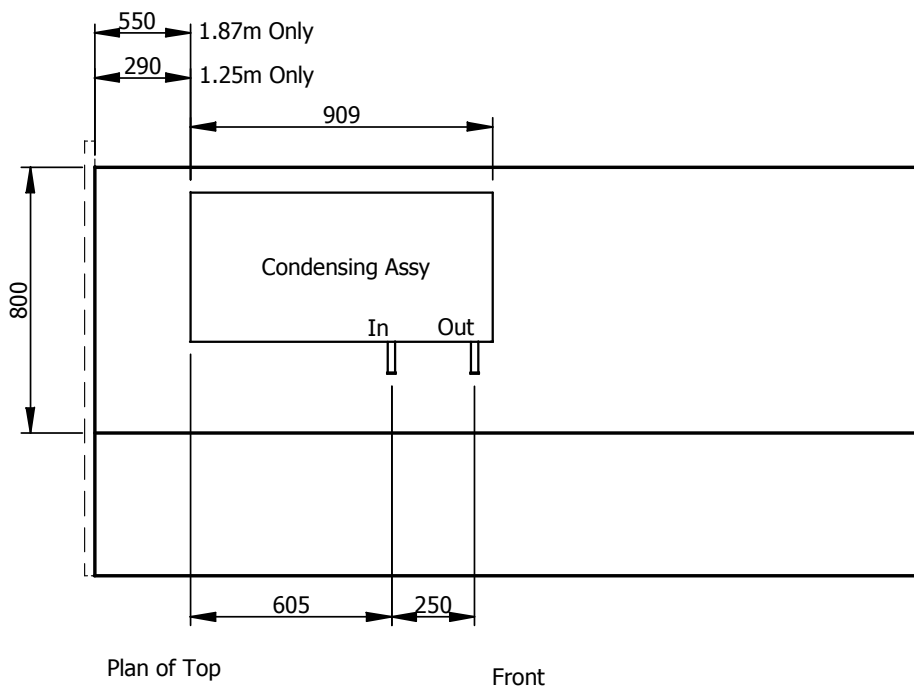
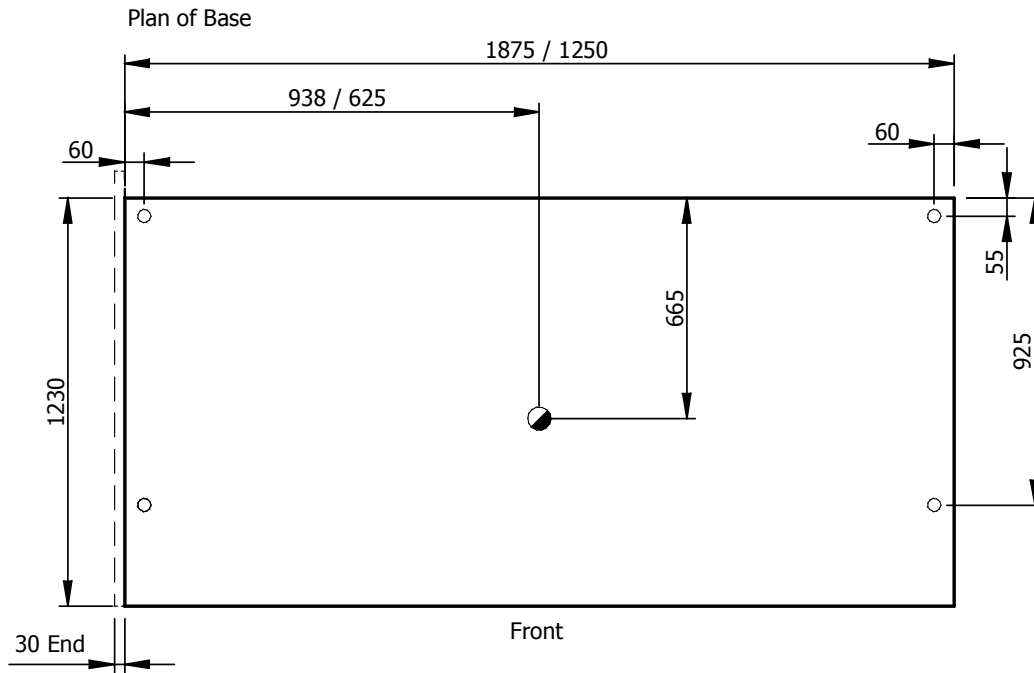
**** Flow rate for water @ 20°C (http://www.engineeringtoolbox.com/water-thermal-properties-d_162.html)

Section Drawing – HE8A



Plan Drawing – HE8A

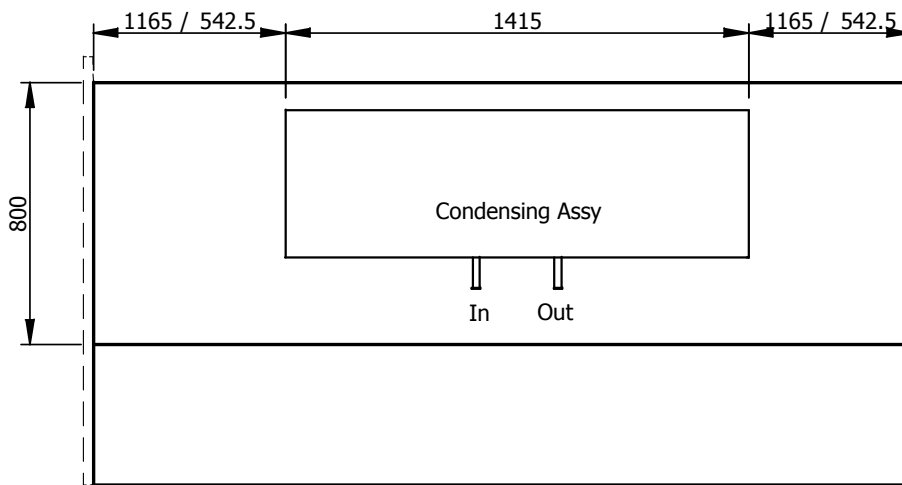
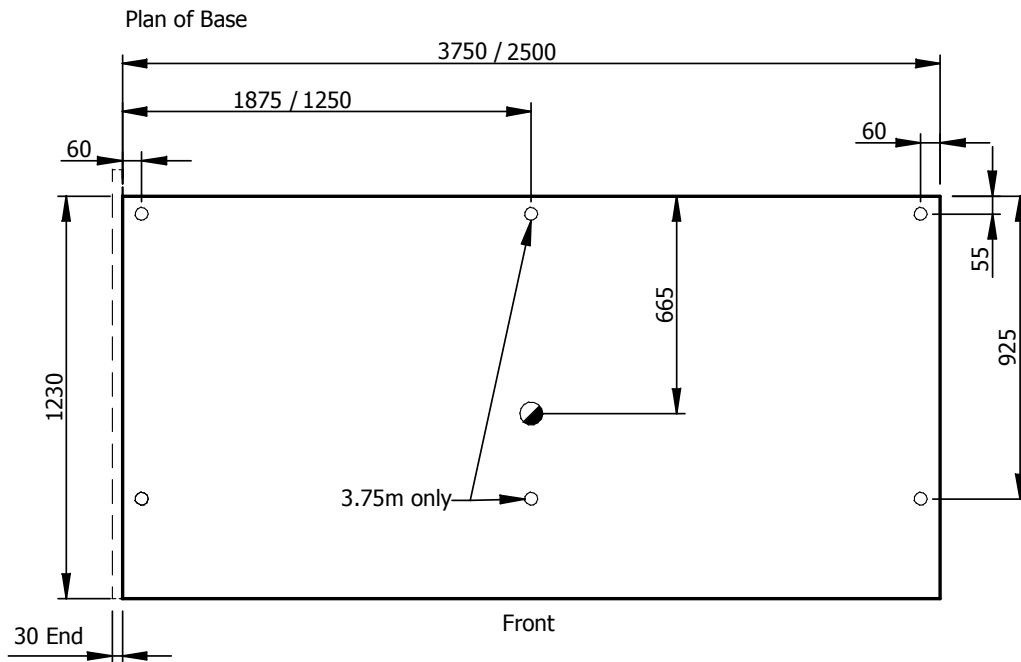
- KEY
- Feet Positions
 - Refrig. Outlets
 - ◐ Drain Outlets
 - ⊗ Electric Outlet from case



Ref:- DP1113-04

Plan Drawing 3.75M & 2.5M Only – HE8A

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



Plan of Top

Front

Ref:- DP1215