



RETAIL EQUIPMENT LTD

**Cabinet Type**                    **Multideck Combined Half Glass over Well**

**Model Designation**        **GDA**

**File Reference**                1185

**Document Issue**            1    12.10.11    GR    Original Issue

cabinet **TECHNICAL DATA**

## Cabinet Technical Data Sheet – GDA

Product Type	Frozen Food 3L1											
Product Temperature	-18°C / -22°C											
Maximum Design Ambient	25°C 60%RH											
<b>Case Length [m]</b>	<b>3.75</b>			<b>2.50</b>			<b>2.10</b>			<b>1.87</b>		
<b>Refrigeration Data</b>												
Nett Environmental Cooling Effect	+0.84			+1.06			0.42			0.42		
Refrigerant Charge per System R1270	700g			420g			700g			700g		
<b>Electrical Data (individual loads 230v )</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>	<b>Watts</b>	<b>Amps</b>
Defrost Heaters	4000	17.39	2800	12.17	2400	10.45	2000	8.70				
Fans	147	0.64	98	0.43	75	0.35	75	0.35				
Trim Heaters	841	3.66	540	2.35	480	2.09	456	1.98				
Controller	10	0.04	10	0.04	10	0.04	10	0.04				
Lights QLED	110	0.48	76	0.33	56	0.24	56	0.24				
Condensing unit	2358	10.3	1678	7.3	1179	5.1	1179	5.1				
<b>Electrical Data (@400V 3ph 50Hz)</b>	<b>L1</b>	<b>L2</b>	<b>L3</b>	<b>L1</b>	<b>L2</b>	<b>L3</b>	<b>L1</b>	<b>L2</b>	<b>L3</b>	<b>L1</b>	<b>L2</b>	<b>L3</b>
Maximum Load – Normal Running	4.82	5.1	5.1	3.15	3.7	3.7	2.72	5.1	0	2.61	5.1	0
Maximum Load – Electric Defrost	4.82	8.7	8.7	3.15	6.5	6.5	2.72	5.2	5.2	2.61	4.3	4.3
<b>Engineering Data - Common</b>												
Total Heat Rejection THR [KW]	6.06			4.11			3.25			3.03		
Plate Heat Exchanger [Kpa] each	2 @ 0.86 Kpa						1 @0.86Kpa					
Water inlet temperature	18°C											
Water outlet temperature	24°C											
Drain Outlet	32mm Plastic											
Chilled Water Connections	22mm											
Condensate Volumes	2ltrs (Per Linear Metre Per 24hrs)											
<b>Engineering Data – Core Stores (No Primary Condenser)</b>												
THR (Air only) [KW]	0.8			0.8			0.4			0.4		
THR (Water only) [KW]	5.26			3.31			2.85			2.63		
Glycol Flow Rate [Kg/S]***	0.2278			0.1434			0.1233			0.1139		
Water Flow Rate [Kg/S]****	0.2096			0.1319			0.1134			0.1048		
<b>Engineering Data – Convenience Stores (With Primary Condenser)</b>												
THR (Air only) [KW]	1.5			1.5			0.75			0.75		
THR (Water only) [KW]	4.56			2.61			2.50			2.28		
Glycol Flow Rate [Kg/S]***	0.1975			0.1131			0.1081			0.0988		
Water Flow Rate [Kg/S]****	0.1817			0.1040			0.0994			0.0908		
<b>Set-Up Data**</b>												
	<b>Frozen</b>				<b>Ice Cream</b>							
	3.75/2.50		2.10/1.87		3.75/2.50				2.10/1.87			
Cut in Temperature [°C]	-24		-24		-27				-27			
Differential [K]	2		2		2				2			
Cabinet Temperature Ratio (%)	50		60/50		50				60/50			
Anti Cycle Time [Seconds]	180		180		180				180			
Lag Comp Delay [Seconds]	60		0		60				0			
N° Defrosts (per 24hrs)	2		2		2				2			
Maximum Defrost Time [mins]	45		45		45				45			
Defrost Termination Temp (air off ) [°C]	1		1		1				1			
Drain Down Time [mins]	0		0		0				0			
Fans in Defrost	On		On		On				On			
Integral Control	Basic		Basic		Basic				Basic			
Trim Heater Control (%) if fitted.	60		60*****		60				60*****			

NOTES! \* 12/12 Trading Conditions

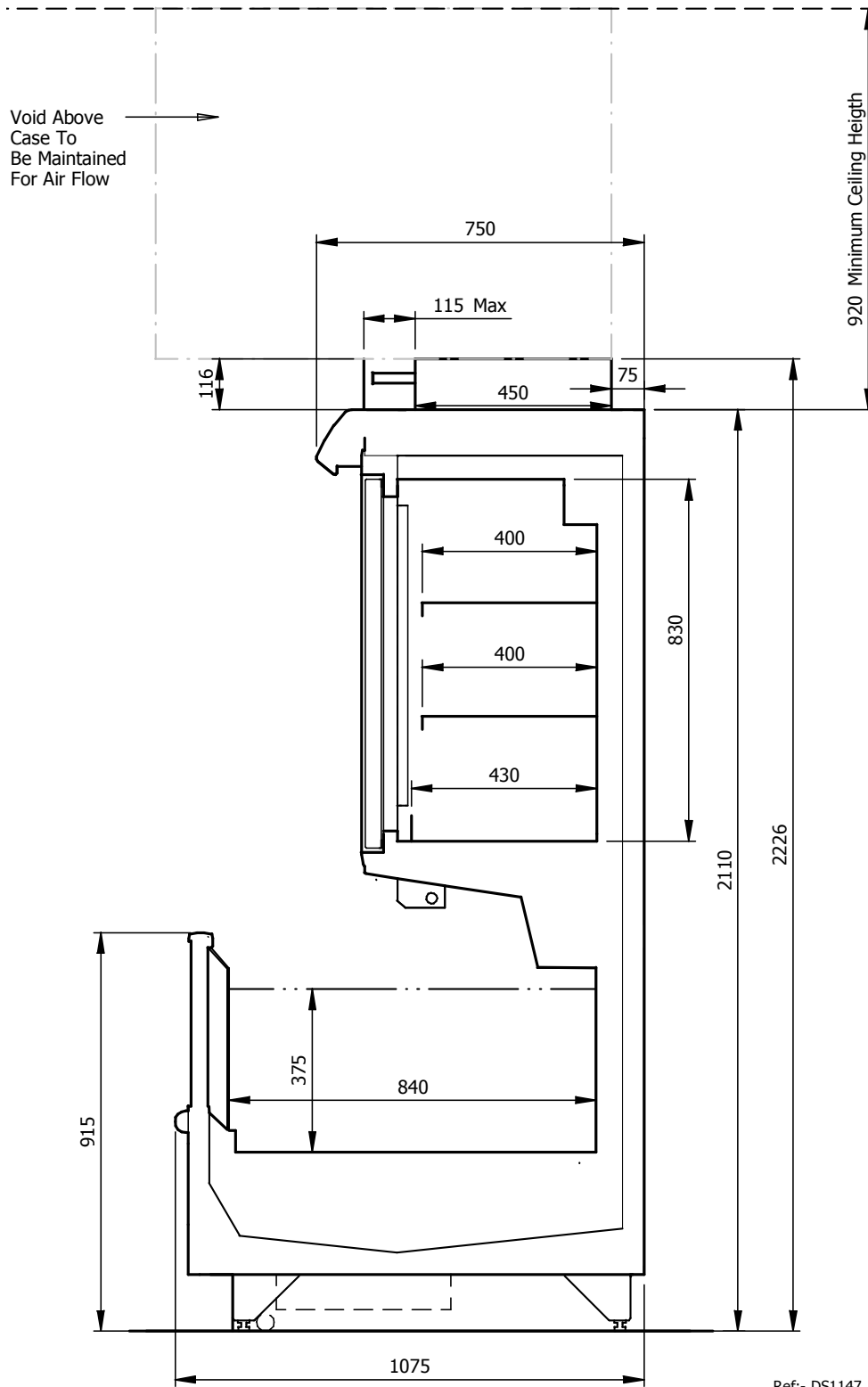
\*\* Set-up data is for guidance only. Final settings to be determined by commissioning contractor.

\*\*\* 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](http://www.engineeringtoolbox.com/water-thermal-properties-d_162.html))

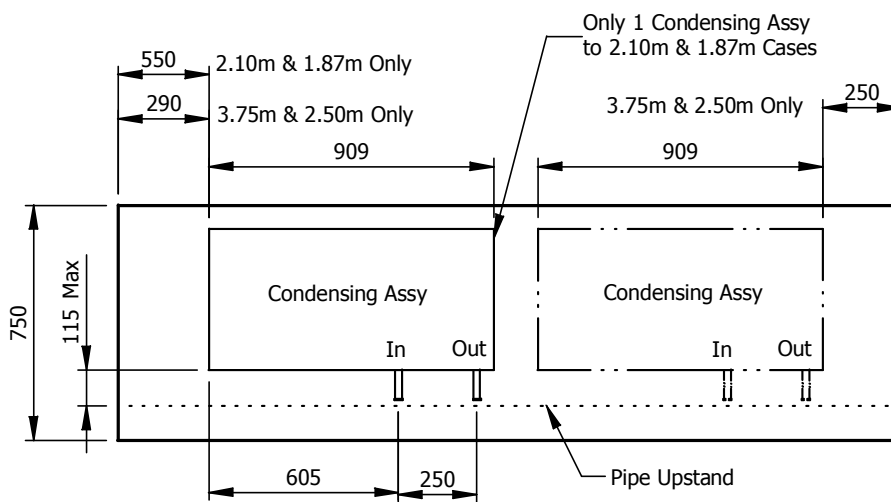
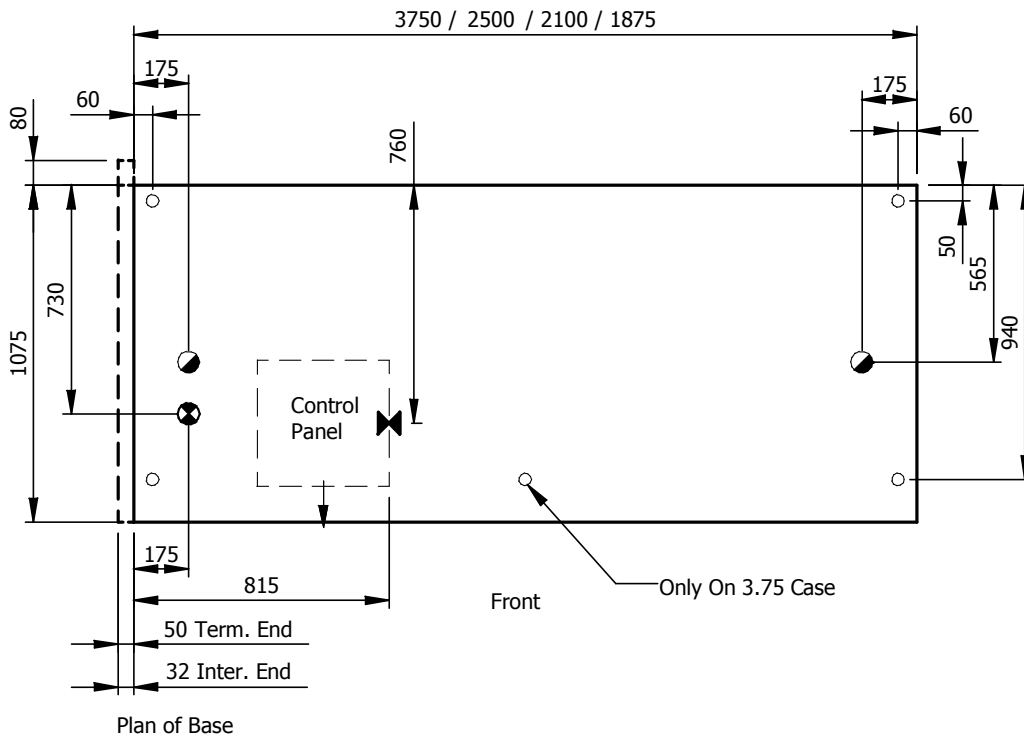
\*\*\*\*\* 2.10 WAE top section @ 45% (115v)

**Section Drawing – GDA**



**Plan Drawing – GDA**

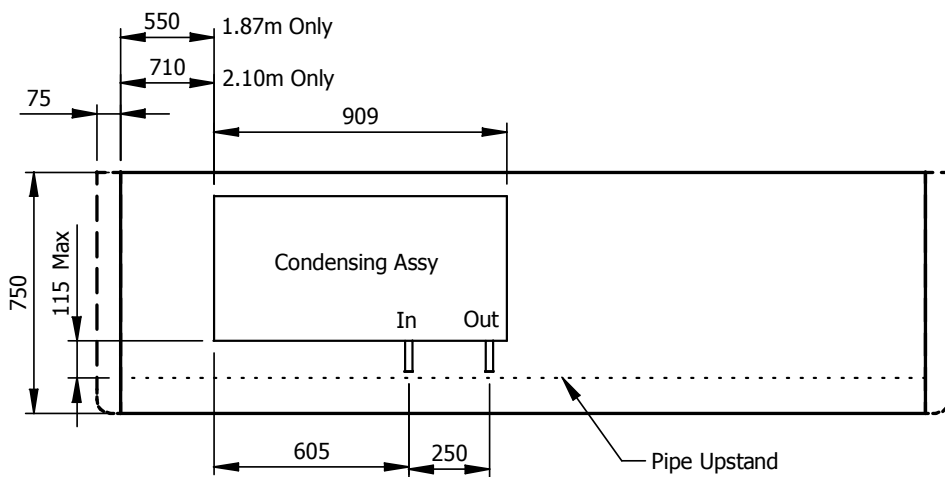
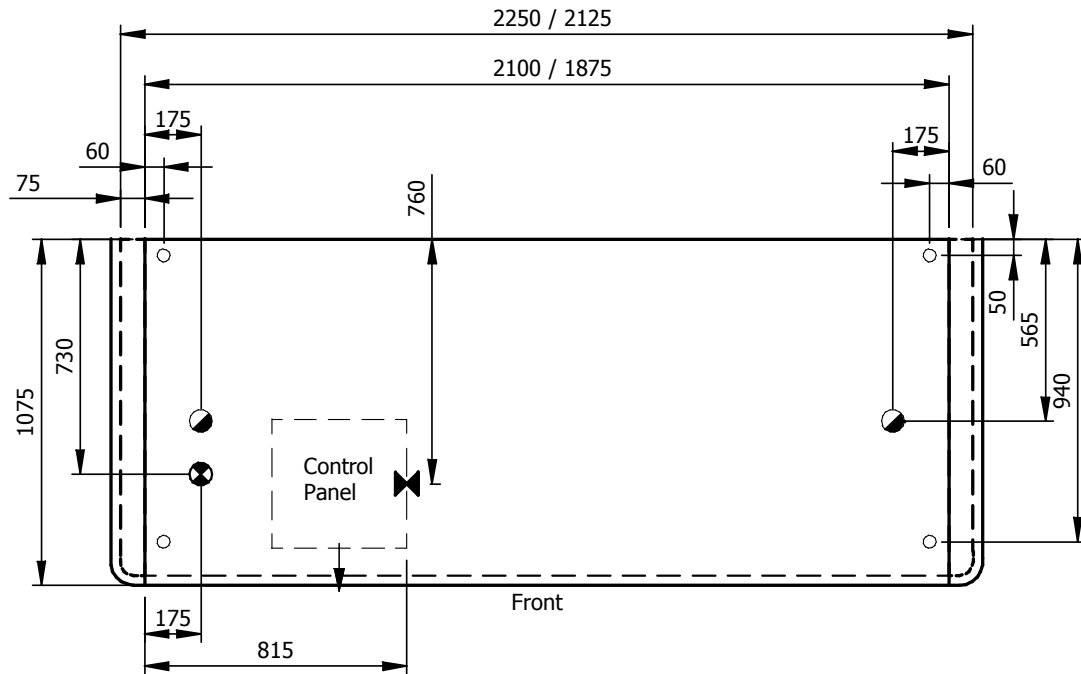
- KEY
- Feet Positions
  - Refriger. Outlets
  - ◐ Drain Outlets
  - ⊗ Elect. Outlets
  - ⊗ Mains Supply



Ref:- DP1147

**Plan Drawing – GDA WAE**

- KEY
- Feet Positions
  - Refriger. Outlets
  - ◐ Drain Outlets
  - ⊗ Elect. Outlets
  - ⊗ Mains Supply



Ref:- DP1147 WAE