

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

**Model Designation**        **GD6**

**File Reference**                1171

<b>Document Issue</b>	1	16.11.10	GR	Original Issue
	2	21.12.10	GR	Updated Electrical Data and Water Flow Rates
	3	04.01.11	GR	Condensate Volumes Added
	4	09-06-11	GL	Amend defrost settings. Adjust water flow rates for 18C to 24C

cabinet **TECHNICAL DATA**

## Cabinet Technical Data Sheet – GD6

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	1024	4.45	683	2.97	680	2.96	512	2.23				
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	5.6	5.1	5.1	3.77	3.7	3.7	3.59	5.1	0	2.86	5.1	0
Maximum Load – Electric Defrost	5.6	8.7	8.7	3.77	6.5	6.5	3.59	5.2	5.2	2.86	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

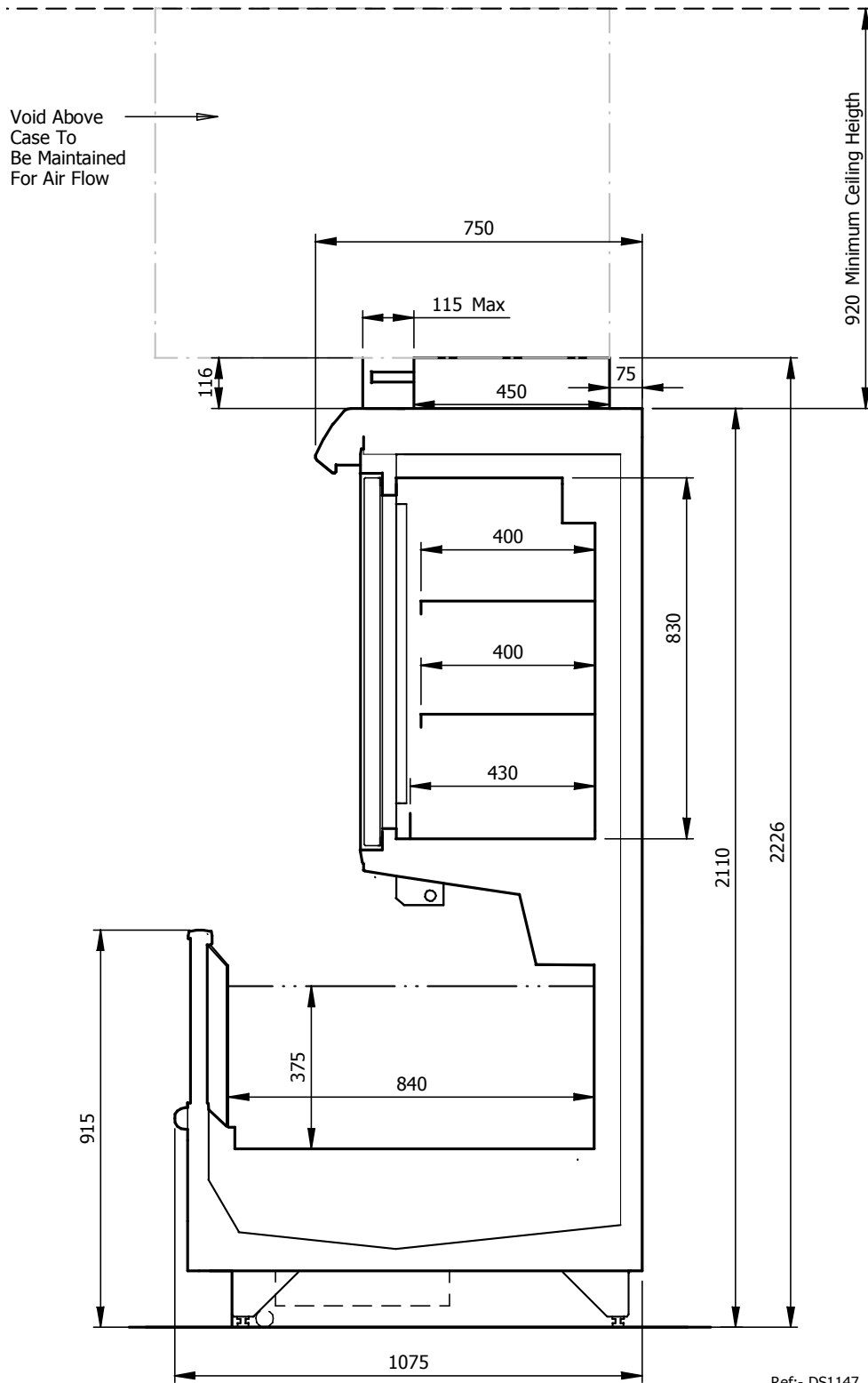
\*\* Set-up data is for guidance only. Final settings to be determined by commissioning contractor.

\*\*\* 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)

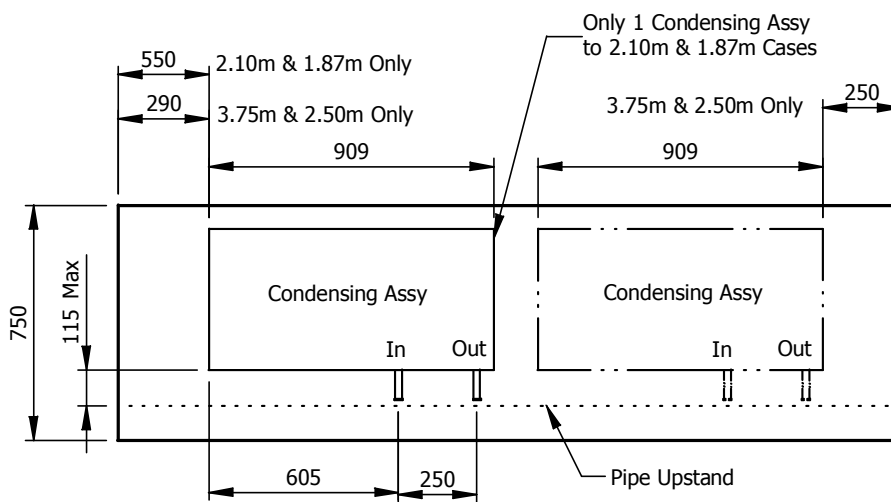
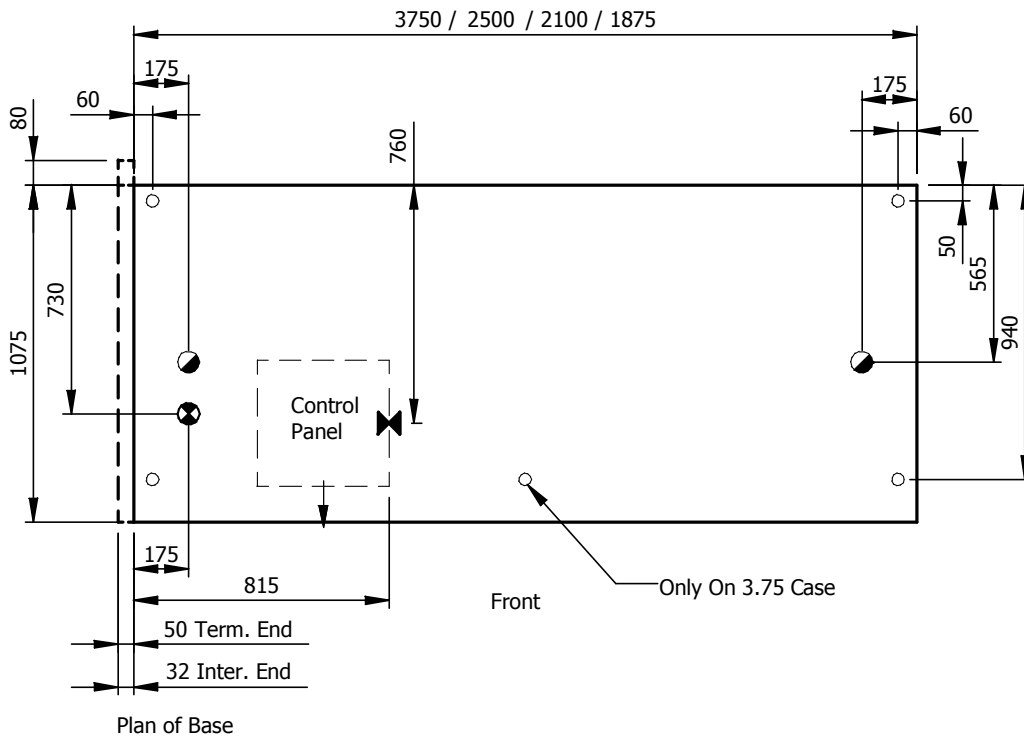
**Section Drawing – GD6**



Ref:- DS1147

**Plan Drawing – GD6**

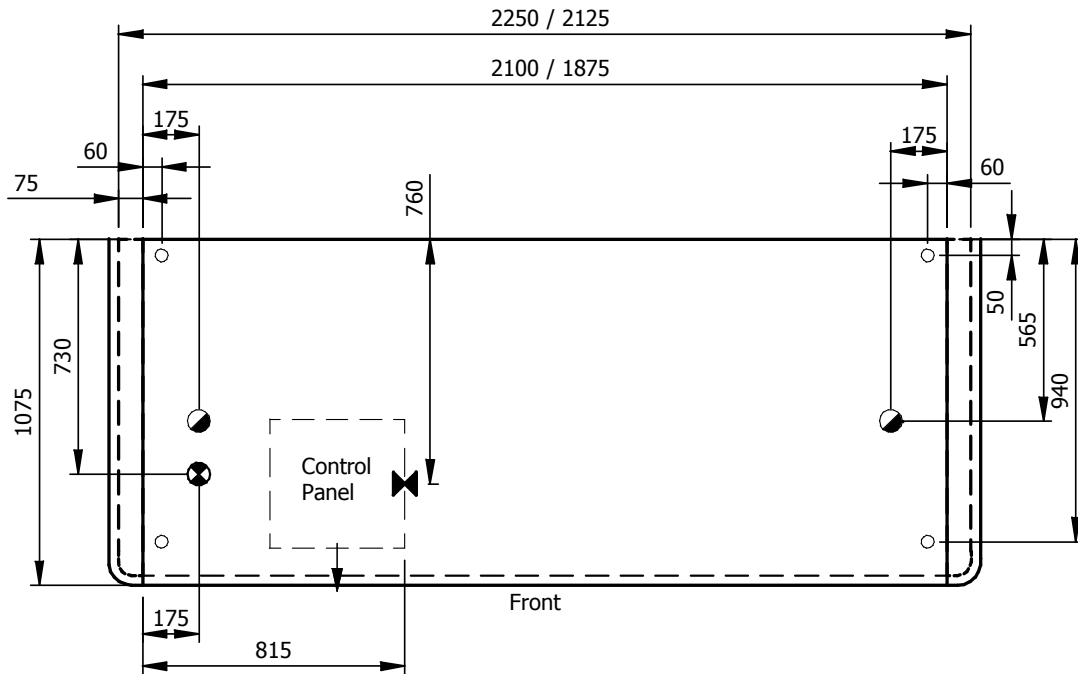
- KEY
- Feet Positions
  - Refrig. Outlets
  - ◐ Drain Outlets
  - ⊗ Elect. Outlets
  - ⊗ Mains Supply



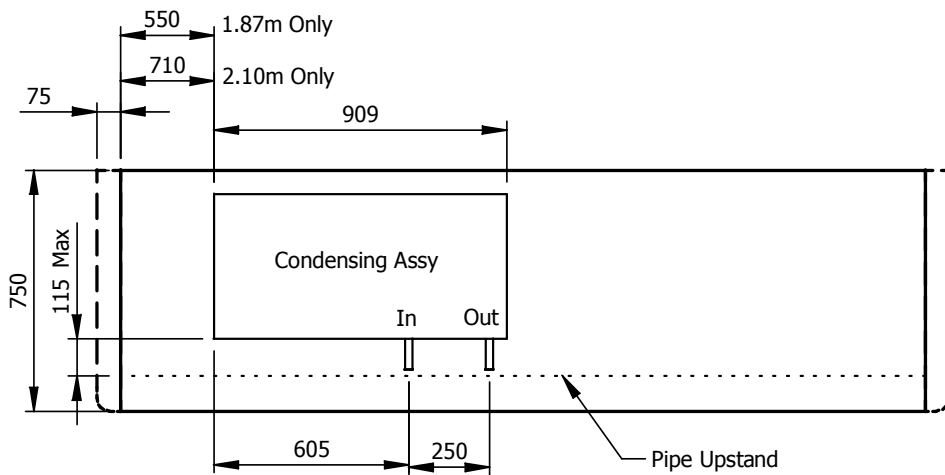
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**Plan Drawing – GD6 WAE**

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



Plan of Base



Plan of top

Ref:- DP1147 WAE