

<b>Cabinet Type</b>	<b>Multideck Combined Half Glass over Well</b>			
<b>Model Designation</b>	<b>GDC</b>			
<b>File Reference</b>	1221			
<b>Document Issue</b>	1	13.08.12	LRC	Original Issue
	2	16.08.12	LRC	Updated with 2100 WAE data Changed from Glycol 30% to DTX 27%, changed flow rates and added lower temperature chilled glycol.
	3	30-08-13	LRC	

cabinet **TECHNICAL DATA**

## Cabinet Technical Data Sheet – GDC

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>2.1 (WAE)</b>	<b>1.87</b>
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### Refrigeration Data

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>	
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 LED	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>		
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Maximum Load – Electric Defrost	4.8	8.7	8.7	3.15	6.5	6.5	2.72	5.2	5.2	2.61	4.3	4.3
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### Engineering Data - Common

Total Heat Rejection THR [KW]	5.77	4.11	3.25	3.03
Plate Heat Exchanger [Kpa] each	1 @ 7.5Kpa		1 @ 0.86Kpa	
Drain Outlet	32mm Plastic			
Chilled Water Connections	22mm			
Condensate Volume	2ltrs (Per Linear Metre Per 24hrs)			

### Engineering Data

THR (Water only) [KW]	5.26	3.31	2.85	2.63
DTX Glycol Flow Rate 27% [Kg/S]***	0.2301	0.1448	0.1245	0.1151
18°C/24°C				
DTX Glycol Flow Rate 27% [Kg/S]*****	0.2310	0.1454	0.1250	0.1155
6°C/12°C				
Water Flow Rate [Kg/S]****	0.2096	0.1319	0.1134	0.1048

### Set-Up Data\*\*

	<b>Frozen</b>		<b>Ice Cream</b>	
	3.75/2.50	2100/1.87	3.75/2,50	2100/1.87
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

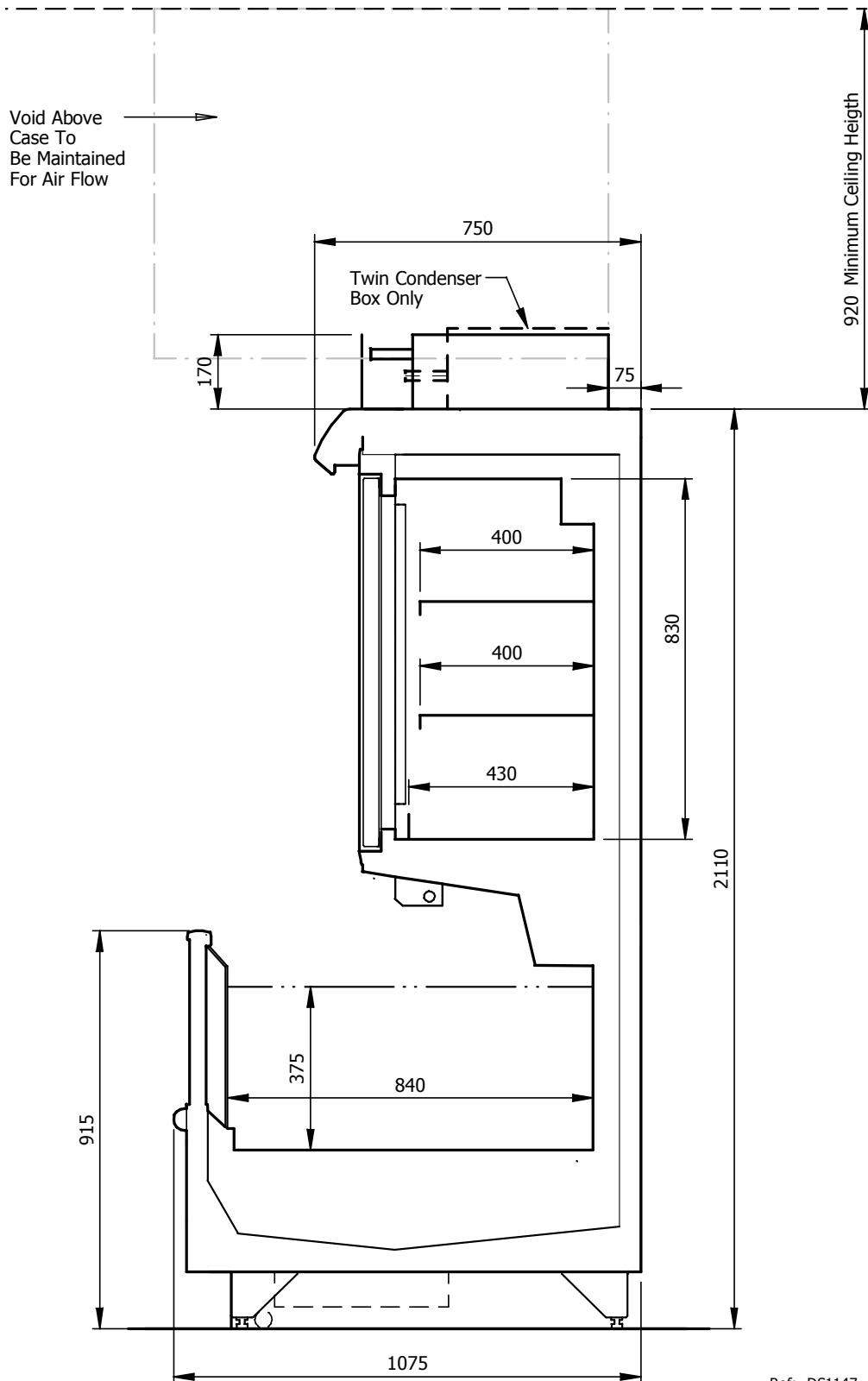
\*\* Set-up data is for guidance only. Final settings to be determined by commissioning contractor.

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

\*\*\*\*\* Flow rate for DTX Glycol based on 27% @ 9°C from ASHRAE = 3.7954 KJ/(KG-K)

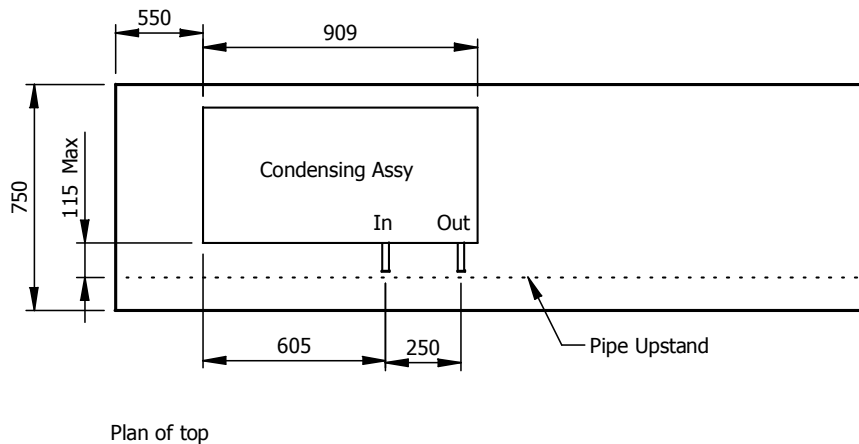
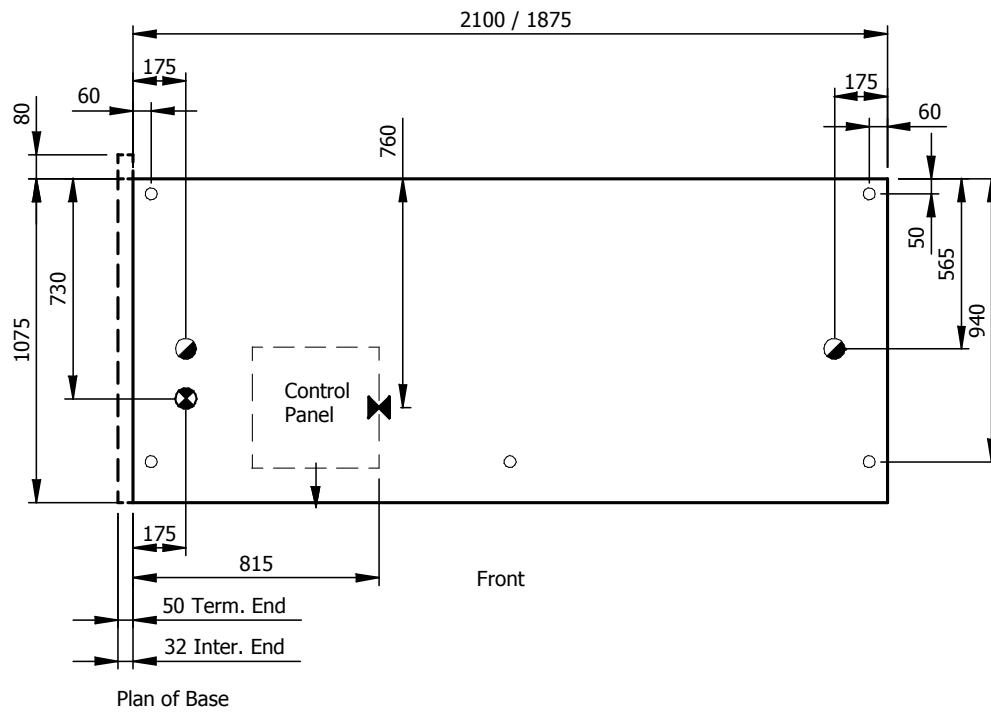
\*\*\*\* Flow rate for water @ 20°C ([http://www.engineeringtoolbox.com/water-thermal-properties-d\\_162.html](http://www.engineeringtoolbox.com/water-thermal-properties-d_162.html))

**Section Drawing – GDC**



**Plan Drawing – GDC**

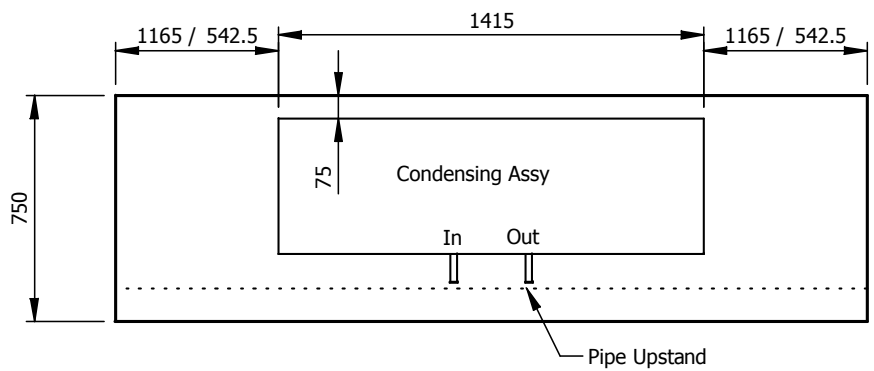
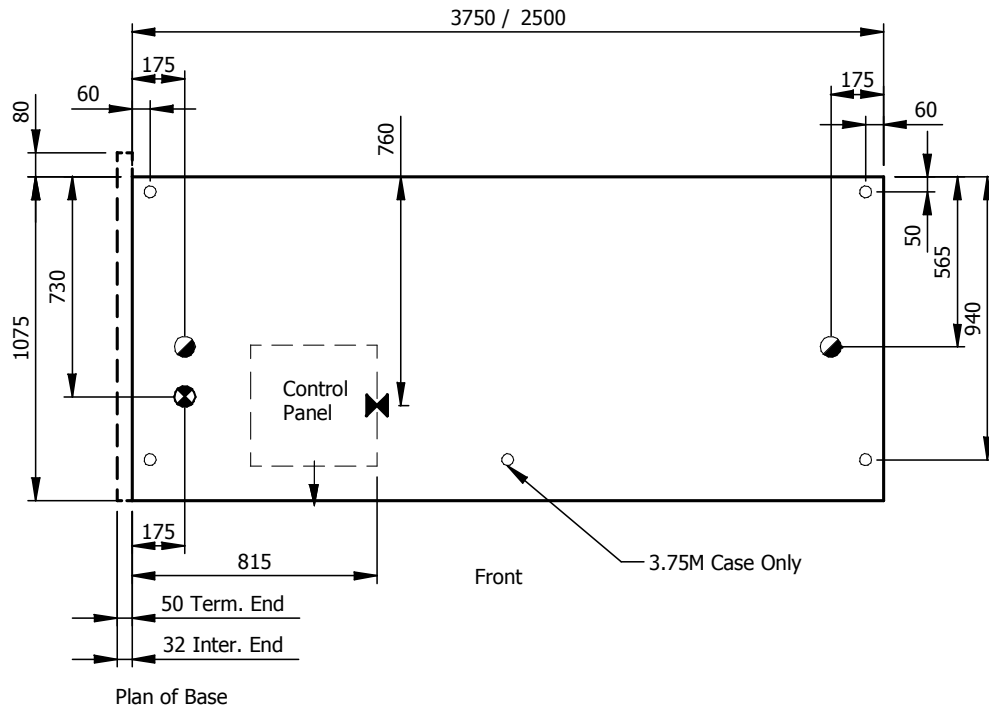
- KEY
- Feet Positions
  - Refrig. Outlets
  - ◐ Drain Outlets
  - ⊗ Elect. Outlets
  - ⊗ Mains Supply



Ref:- DP1147

**Plan Drawing – GDC 3.75 & 2.5M**

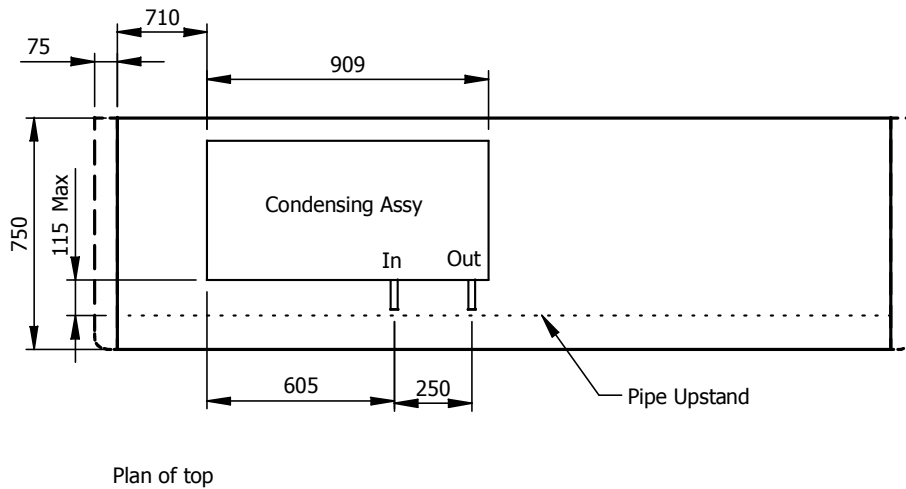
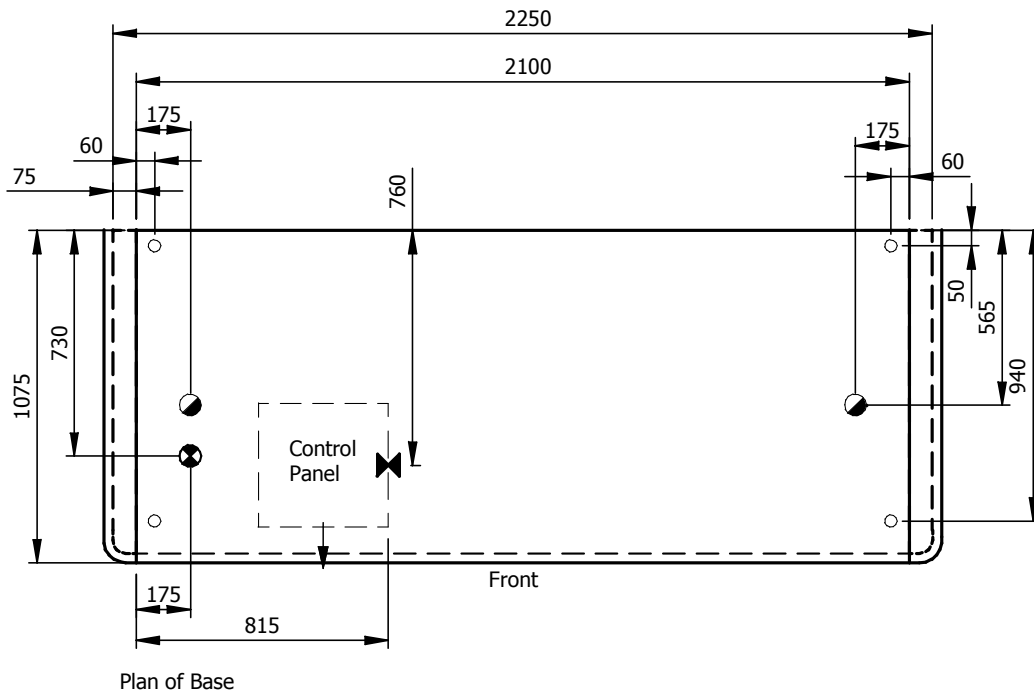
- KEY
- Feet Positions
  - Refrig. Outlets
  - ⊙ Drain Outlets
  - ⊗ Elect. Outlets
  - ⊕ Mains Supply



Ref:- DP1221

**Plan Drawing – GDC WAE**

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



Ref:- DP1147 WAE