



RETAIL EQUIPMENT LTD

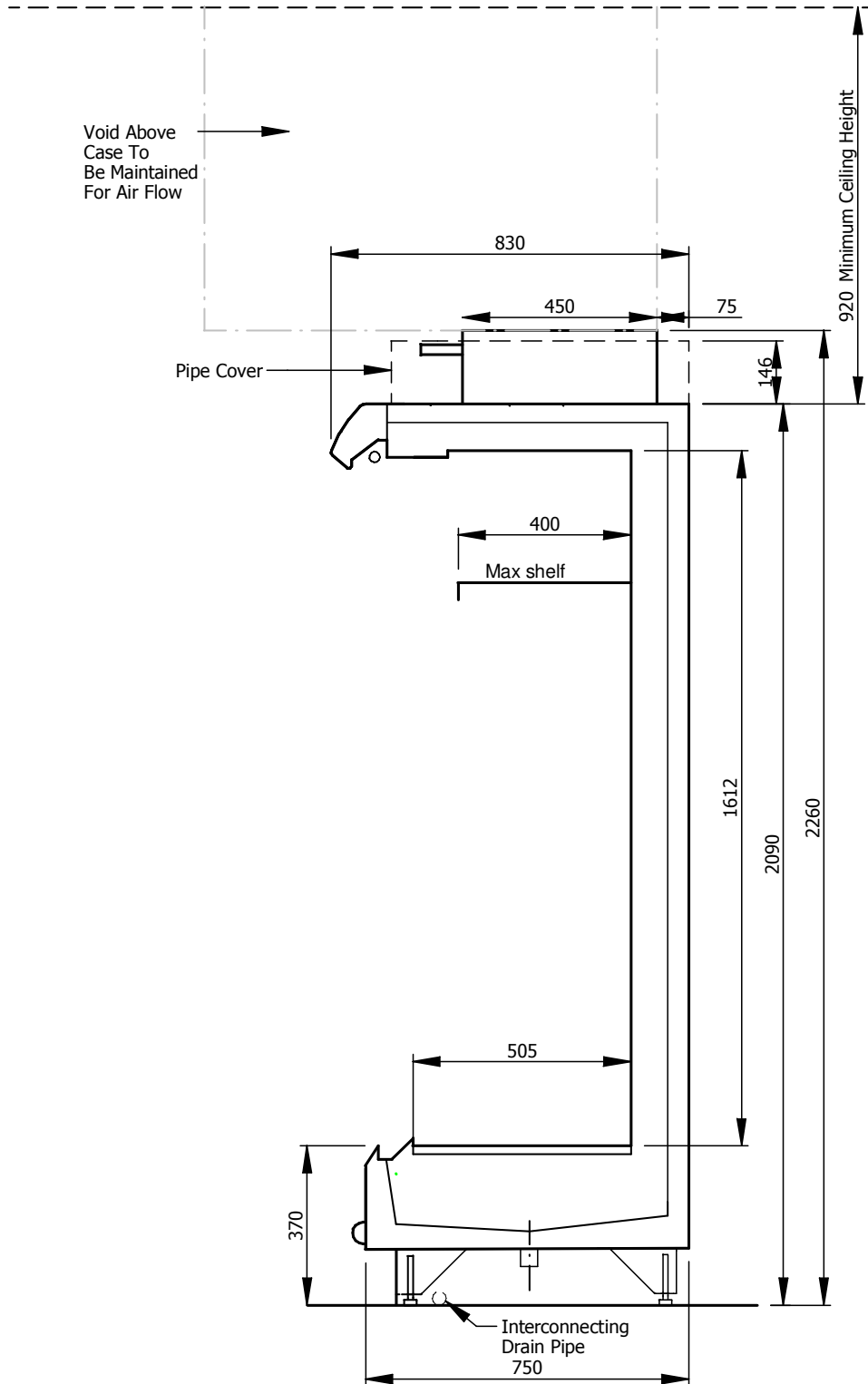
<b>Cabinet Type</b>	<b>Multideck Full Height</b>			
<b>Model Designation</b>	<b>IE8</b>			
<b>File Reference</b>	1176			
<b>Document Issue</b>	1	22.12.10	GR	Original Issue
	2	04.01.11	GR	Condensate Volumes Added
	3	06-06-11	LRC	Control Set Point Changed

cabinet **TECHNICAL DATA**

## Cabinet Technical Data Sheet – IE8

Product Type	Meat 3M0									
Product Temperature	-1 /+4 °C									
Maximum Design Ambient	25°C @ 60% RH									
<b>Case Length [m]</b>	<b>3.75</b>	<b>2.50</b>	<b>1.87</b>	<b>1.7</b>	<b>1.7</b>	<b>1.7</b>	<b>1.7</b>	<b>1.25</b>	<b>1.25</b>	<b>1.25</b>
<b>Refrigeration Data</b>										
Nett Environmental Cooling Effect	1.91	0.78	0.96	0.96	0.96	0.96	0.96	0.96	0.39	0.39
Refrigerant Charge Per System R1270	650g	430g	650g	650g	650g	650g	650g	650g	470g	470g
<b>Electrical Data (@ 230V 50Hz)</b>										
	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps
Fans (EC EBM)	42	0.18	28	0.12	21	0.09	21	0.09	14	0.06
Controller	10	0.04	10	0.04	10	0.04	10	0.04	10	0.04
Lights QLED	54	0.23	36	0.16	24	0.10	20	0.10	18	0.08
Condensing unit	1580	6.9	1226	5.3	790	3.4	790	3.4	613	2.7
Maximum Load – Off Cycle Defrost	1686	7.3	1300	5.7	845	3.7	841	3.7	655	2.9
<b>Engineering Data - Common</b>										
Total Heat Rejection THR [KW]	7.12	4.91	3.56	3.30	3.30	3.30	3.30	3.30	2.45	2.45
Plate Heat Exchanger [Kpa] each	2 @ 1.31	2 @ 1.31	1 @ 1.31	1 @ 1.31	1 @ 1.31	1 @ 1.31	1 @ 1.31	1 @ 1.31	1 @ 1.31	1 @ 1.31
Water inlet temperature	10°C									
Water outlet temperature	16°C									
Drain Outlet	32mm Plastic									
Chilled Water Connections	22mm									
Condensate Volume (3M0 +4 <sup>0</sup> )	44ltrs (Per Linear Metre Per 24hrs)									
Condensate Volume (3M1 +5 <sup>0</sup> )	23ltrs (Per Linear Metre Per 24hrs)									
<b>Engineering Data – Core Stores (No Primary Condenser)</b>										
THR (Water only) [KW]	6.32	4.11	3.56	3.30	3.30	3.30	3.30	3.30	2.05	2.05
THR (Air only) [KW]	0.8	0.8	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Glycol Flow Rate [Kg/S]***	0.2739	0.1779	0.1369	0.1257	0.1257	0.1257	0.1257	0.1257	0.0890	0.0890
Water Flow Rate [Kg/S]****	0.2519	0.1637	0.1260	0.1156	0.1156	0.1156	0.1156	0.1156	0.0818	0.0818
<b>Engineering Data – Convenience Stores (With Primary Condenser)</b>										
THR (Water only) [KW]	5.62	3.41	2.81	2.55	2.55	2.55	2.55	2.55	1.70	1.70
THR (Air only) [KW]	1.5	1.5	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Glycol Flow Rate [Kg/S]***	0.2436	0.1476	0.1218	0.1105	0.1105	0.1105	0.1105	0.1105	0.0738	0.0738
Water Flow Rate [Kg/S]****	0.2241	0.1358	0.1120	0.1017	0.1017	0.1017	0.1017	0.1017	0.0679	0.0679
<b>Set-Up Data** O/C Defrost</b>										
	<b>Meat 3.75 &amp; 2.50</b>					<b>Meat 2.18, 1.87, 1.7 &amp; 1.25</b>				
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					40				
N° Defrosts (per 24hrs)	8					8				
Maximum Defrost Time [mins]	45					45				
Defrost Termination Temp (air off) [°C]	8					8				
Drain Down Time [mins]	1					1				
Fans in Defrost	On					On				
Integral Control	Basic					Basic				
<i>NOTES!</i>										
* 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 ( <a href="http://www.engineeringtoolbox.com/water-thermal-properties-d_162.html">http://www.engineeringtoolbox.com/water-thermal-properties-d_162.html</a> )										

**Section Drawing – IE8**

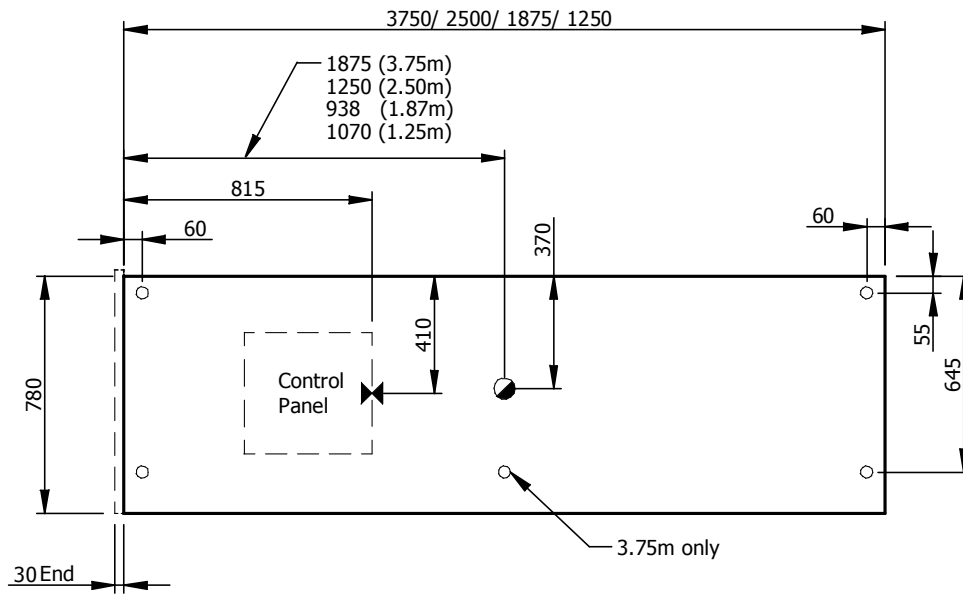


Ref:- DS1133-1

## Plan Drawing – IE8

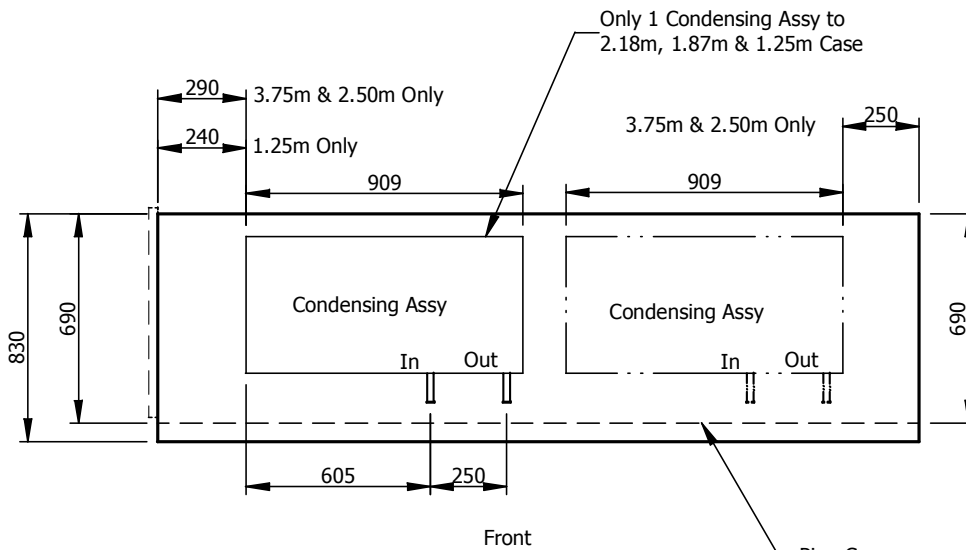
### KEY

- Feet Positions
- Refrig. Outlets
- ✕ Refrig Pipe Tails
- Drain Outlets
- ✕ Mains Supply



Front

Plan of Base



Front

Plan of Top

Ref DP1133-1