

<b>Cabinet Type</b>	<b>Multideck Full Height</b>			
<b>Model Designation</b>	<b>IE9</b>			
<b>File Reference</b>	1141			
<b>Document Issue</b>	1	01.04.10	GR	Provisional Tech Data
	2	08-06-11	GL	Water Flow rate changed for 18c & 24c
	3	25-02-14	LRC	Updated condensing unit details from single to twin units.

cabinet **TECHNICAL DATA**

## Cabinet Technical Data Sheet – IE9

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>1.25</b>
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### Refrigeration Data

Nett Environmental Cooling Effect	1.91	0.78	0.96	0.39
Refrigerant Charge Per System R1270	650g	430g	650g	470g

### Electrical Data (@ 230V 50Hz)

	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps
Fans (EC EBM)	42	0.18	28	0.12	21	0.09	14	0.06
Controller	10	0.04	10	0.04	10	0.04	10	0.04
Lights	57	0.25	38	0.16	22	0.10	19	0.08
Condensing unit	1580	6.9	1226	5.3	790	3.4	613	2.7
Maximum Load – Off Cycle Defrost	1689	7.37	1302	5.62	843	3.63	656	2.88

### Miscellaneous Data

Total Heat Rejection THR [KW]	7.30	5.05	3.65	2.52
THR (Water only) [KW]	6.49	4.23	3.25	2.12
THR (Air only) [KW]	0.8	0.8	0.4	0.4
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	
Glycol Flow Rate [Kg/S]***	0.2843	0.1858	0.1422	0.0929
Water Flow Rate [Kg/S]****	0.2589	0.1692	0.1295	0.0846
Drain Outlet			32mm Plastic	
Chilled Water Connections			22mm	
Condensate Volume (3M0 -1 +4°C)			44 Liters (Per Linear Meter per 24 Hours)	
Condensate Volume (3M1 -1 +5°C)			23 Liters (Per Linear Meter per 24 Hours)	

### Set-Up Data\*\* O/C Defrost

	Meat 3.75 & 2.50	Meat 1.87 & 1.25
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

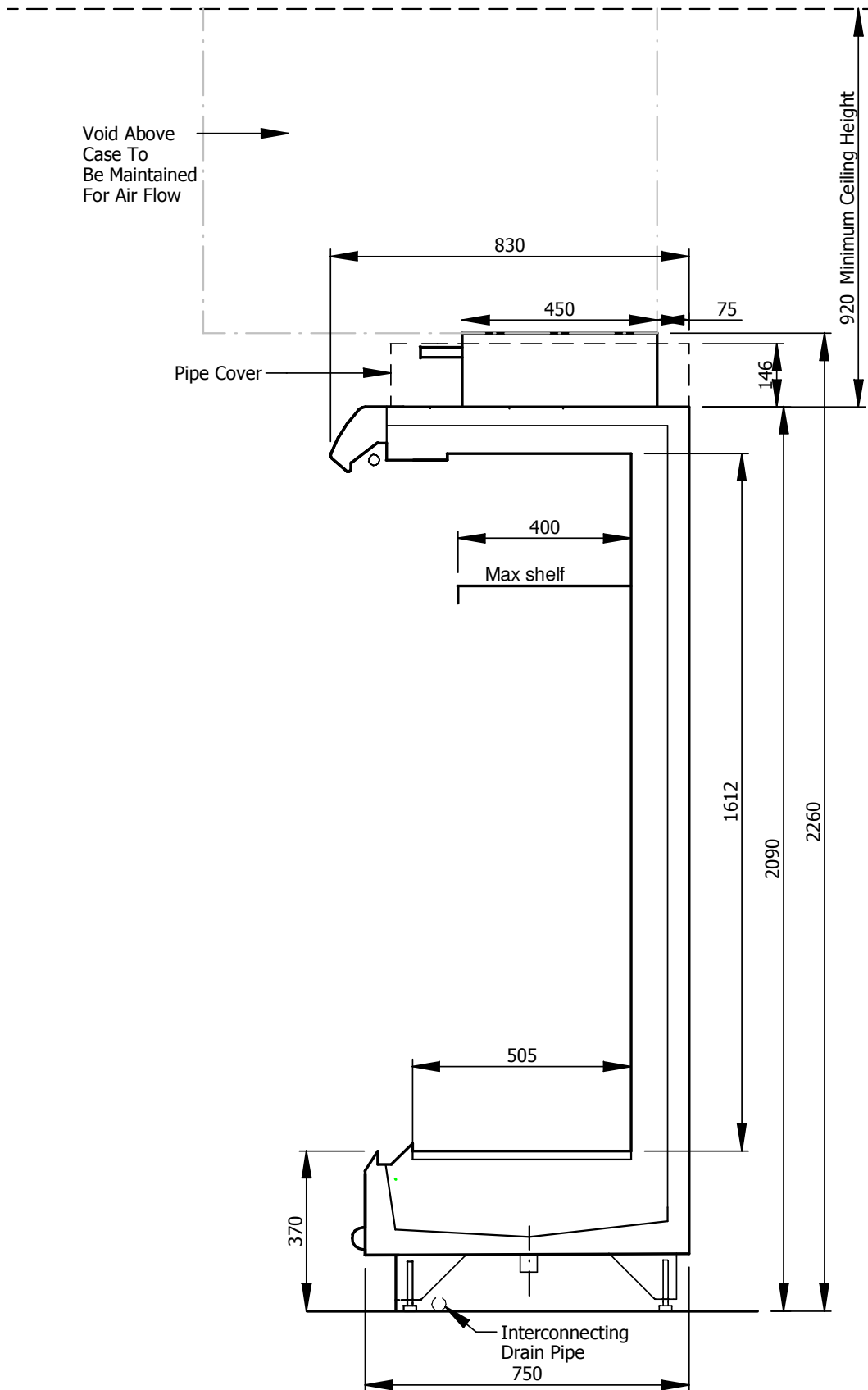
NOTES! \* 12/12 Trading Conditions

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

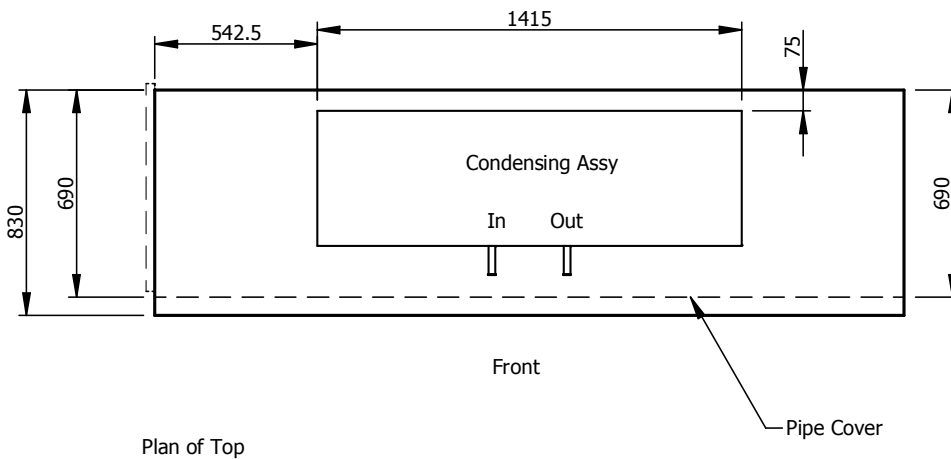
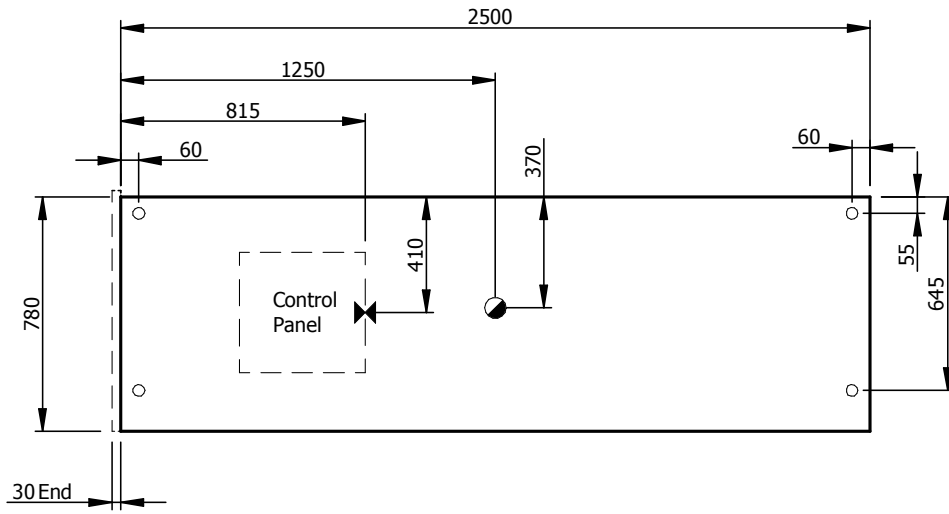
## Section Drawing – IE9



Ref:- DS1133-1

## Plan Drawing 2.5M – IE9

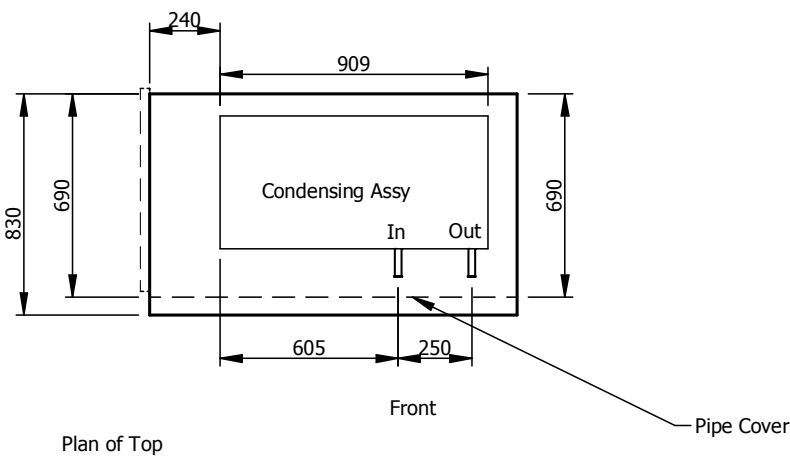
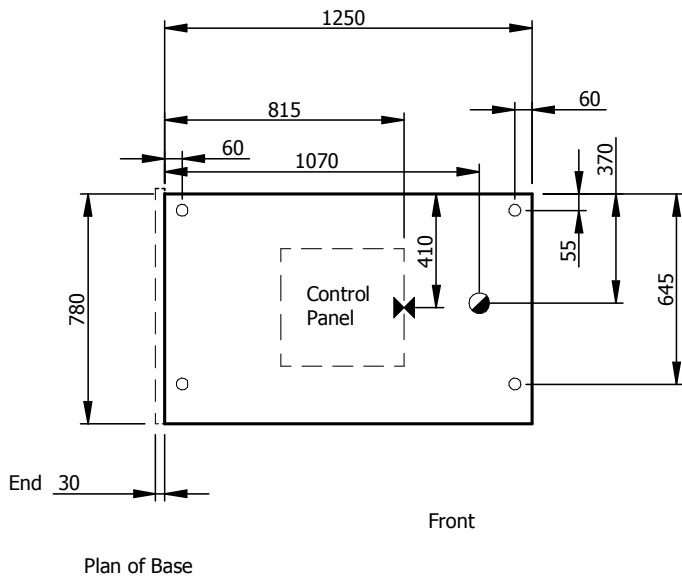
- KEY
- Feet Positions
  - Refrig. Outlets
  - ⊗ Refrig Pipe Tails
  - ⊙ Drain Outlets
  - ⊕ Mains Supply



Ref DP1133-1

## Plan Drawing 1.25M – IE9

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



Ref DP1133-1