

Cabinet Type **Multideck Low Height**

Model Designation **NC6**

File Reference 1169

Document Issue				
1	10-08-10	LRC	First Issue	
2	21-12-10	GR	Updated Electrical Data and Water Flow Rates	
3	04-01-11	IRG	Condensate Volumes Added	
4	27-04-11	NM	Water Spec up dated	
5	09-06-11	GL	Air to Water change over point updated	
6	30-06-11	LRC	Produce Set points added	

cabinet **TECHNICAL DATA**



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Cabinet Technical Data Sheet – NC6

Product Type	Meat 3M0							
Product Temperature	-1 /+4 °C							
Maximum Design Ambient	25°C @ 60% RH							
Case Length [m]	2.5	2.18	1.87	1.25				
Refrigeration Data								
Nett Cooling Effect Kw Water Cooled	1.50	1.50	0.37	0.00				
Nett Cooling Effect Kw Air Cooled	-2.45	-2.45	-1.83	-1.37				
Refrigerant Charge Per System R1270	1300g	1300g	1100g	650g				
Electrical Data (@ 230V 50Hz)	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps
Fans (EC EBM)	28	0.12	28	0.12	21	0.09	14	0.06
Controller	10	0.04	10	0.04	10	0.04	10	0.04
Lights	36	0.16	30	0.13	24	0.1	18	0.07
Condensing unit	1477	6.4	1477	6.4	1105	4.8	869	3.8
Maximum Load – Off Cycle Defrost	1551	6.7	1545	6.7	1160	5.0	911	4.0
Engineering Data - Water Cooled 30°C Condensing								
Total Heat Rejection THR [KW]	3.344	3.344	2.559	1.798				
THR (Water) [KW]	2.686	2.686	1.809	1.048				
THR (Air) [KW]	0.75	0.75	0.75	0.75				
Plate Heat Exchanger [Kpa] each	1 @ 0.86	1 @ 0.86	1 @ 0.86	1 @ 0.86				
Water inlet temperature				18°C				
Water outlet temperature				24°C				
Compressor Electrical Input Kw	1.036	1.036	0.759	0.598				
Glycol Flow Rate [Kg/S]***	0.107	0.107	0.079	0.045				
Water Flow Rate [Kg/S]****	0.116	0.116	0.072	0.042				
Engineering Data- Air Cooled 45 °C Condensing								
Total Heat Rejection THR [KW]	3.842	3.842	2.872	2.048				
THR (Water) [KW]	0	0	0	0				
THR (Air) [KW]	3.842	3.842	2.872	2.048				
Compressor Electrical Input Kw	1.442	1.442	1.077	0.848				
Engineering Data - Common								
Drain Outlet	32mm Plastic							
Condensate Volume (lts/m/24hr)	16							
Electrical Connections	Bottom LHS							
Chilled Water Conections	22mm							
Set-Up Data** O/C Defrost								
Cut in Temperature [°C]	Meat 2							
Differential [K]	2							
Anti Cycle Time (Seconds)	180							
Lag Comp Delay (Seconds)	0							
Cabinet Temperature Ratio (%)	50							
N° Defrosts (per 24hrs)	8							
Maximum Defrost Time [mins]	45							
Defrost Termination Temp (air off) [°C]	8							
Drain Down Time [mins]	1.30							
Air to Water Change Over	35							
Differential	5							
Fans in Defrost	On							
Integral Control	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 (http://www.engineeringtoolbox.com/water-thermal-properties-d_162.html)								

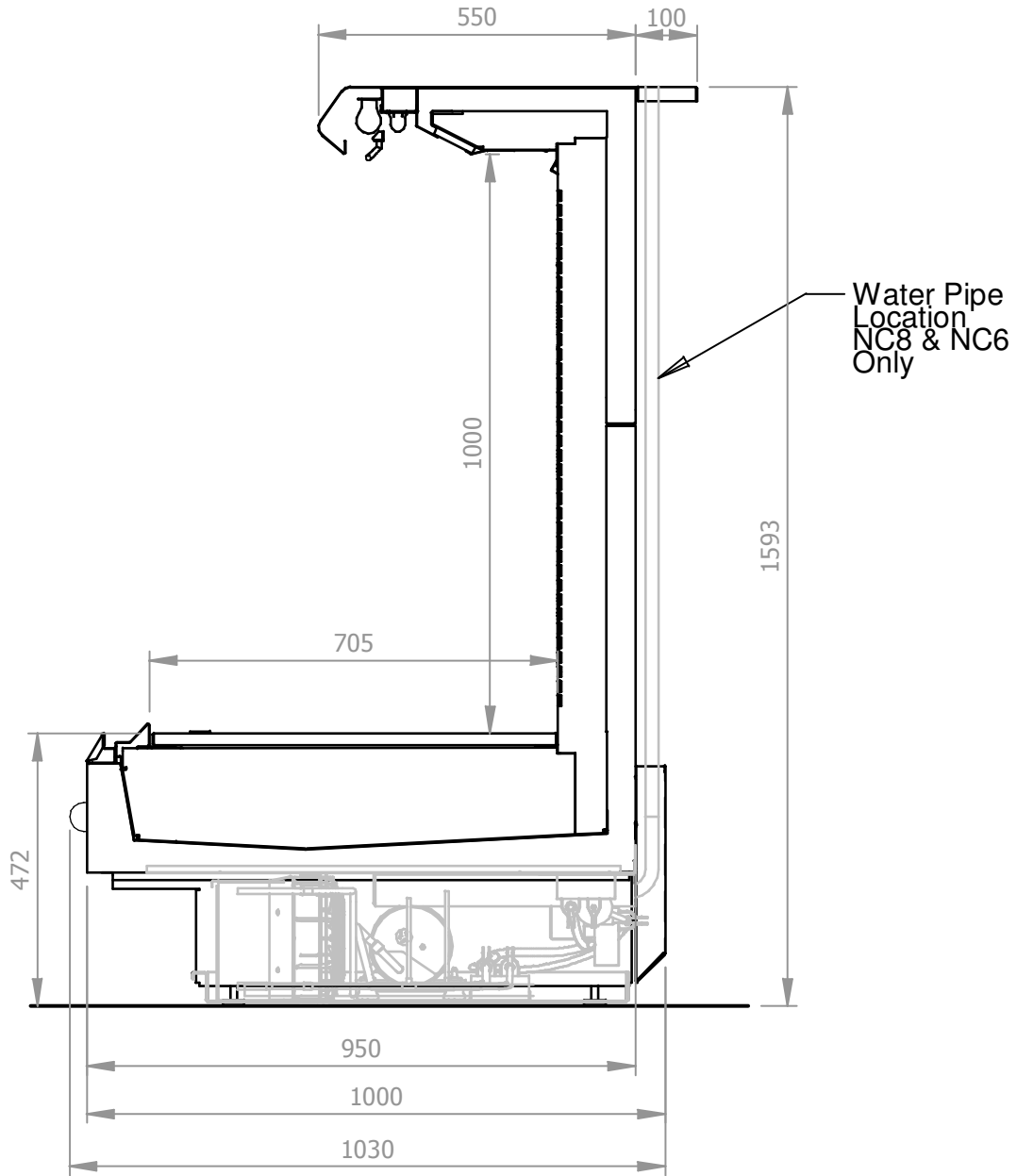


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Cabinet Technical Data Sheet – NC6

Product Type	Produce 3M2							
Product Temperature	+5°C/+10°C							
Maximum Design Ambient	25°C @ 60% RH							
Case Length [m]	2.5	2.18	1.87	1.25				
Refrigeration Data								
Nett Cooling Effect Kw Water Cooled	1.50	1.50	0.37	0.00				
Nett Cooling Effect Kw Air Cooled	-2.45	-2.45	-1.83	-1.37				
Refrigerant Charge Per System R1270	1300g	1300g	1100g	650g				
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Fans (EC EBM)	28	0.12	28	0.12	21	0.09	14	0.06
Controller	10	0.04	10	0.04	10	0.04	10	0.04
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Cut in Temperature [°C]	Produce 6							
Differential [K]	2							
Anti Cycle Time (Seconds)	180							
Lag Comp Delay (Seconds)	0							
Cabinet Temperature Ratio (%)	50							
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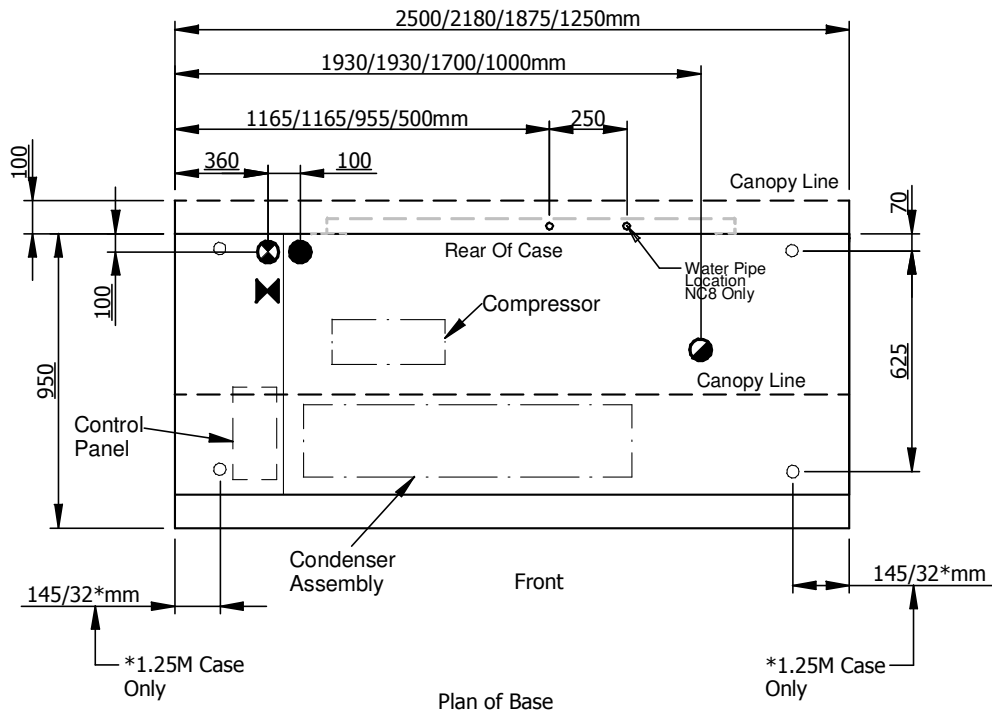
Section Drawing –



Ref:- DS1156-01

Plan Drawing –

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



Ref:- DP1156-01