RETAIL EQUIPMENT LTD

cabinet **TECHNICAL DATA**

Cabinet Type	**Multideck Low Height**			
Model Designation	**NCA**			
File Reference	1223			
Document Issue	1	13-08-12	LRC	First Issue
	2	19-02-13	GR	Shelf Detail Added

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Cabinet Technical Data Sheet – NCA

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 Master LED	44	0.19	32	0.14	32	0.14	22	0.09
Condensing unit	1477	6.4	1477	6.4	1105	4.8	869	3.8
Maximum Load – Off Cycle Defrost	1559	6.75	1547	6.72	1168	5.07	915	3.98
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**	**Meat**
Cut in Temperature [°C]	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

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)

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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	
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 Master LED	44	0.19	32	0.14	32	0.14	22	0.09
Condensing unit	1477	6.4	1477	6.4	1105	4.8	869	3.8
Maximum Load – Off Cycle Defrost	1559	6.75	1547	6.72	1168	5.07	915	3.98
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**	**Produce**
Cut in Temperature [°C]	6
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

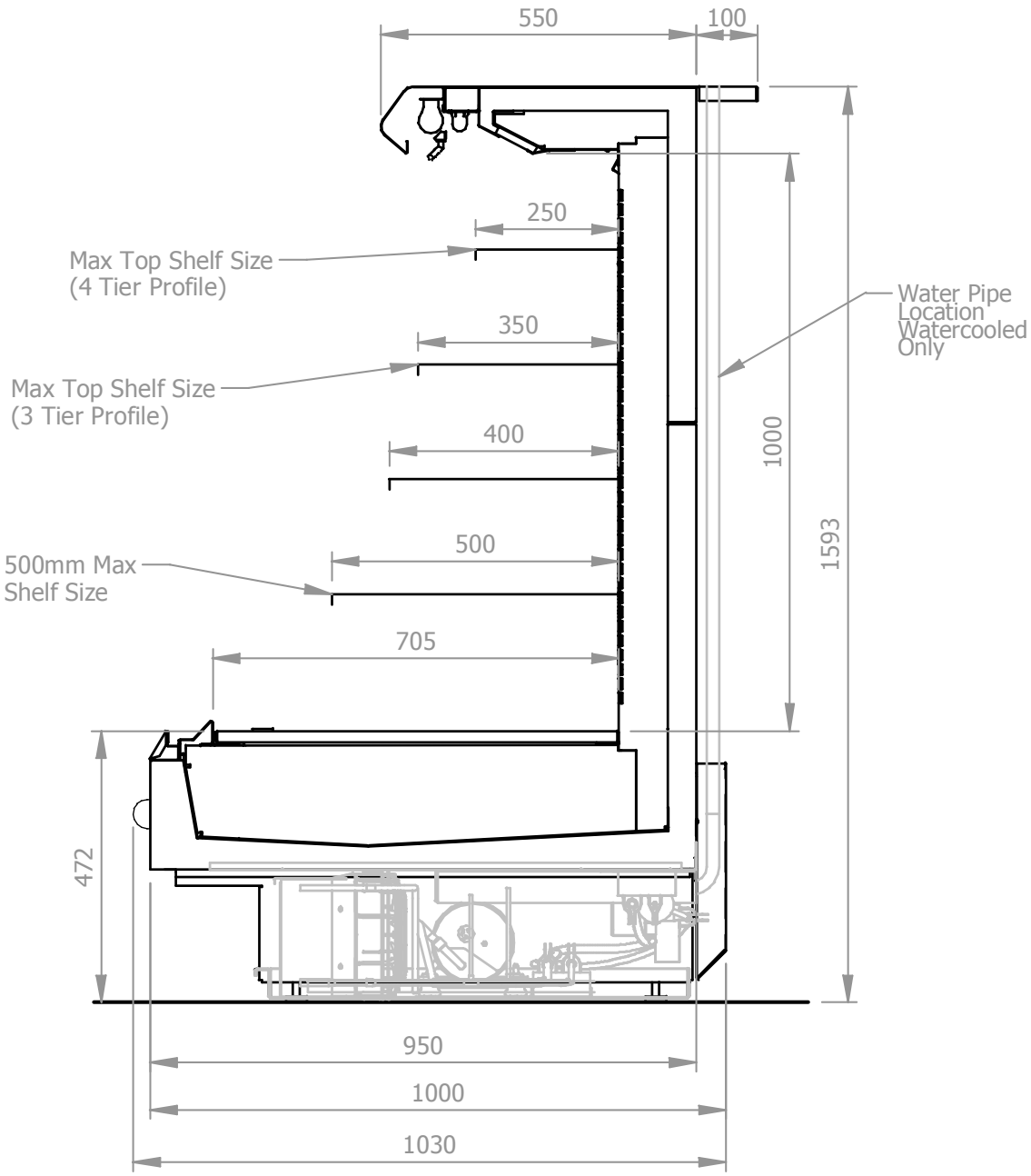
NOTES! ** 12/12 Trading Conditions*

** 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)

Section Drawing –



Ref:- DS1156-01

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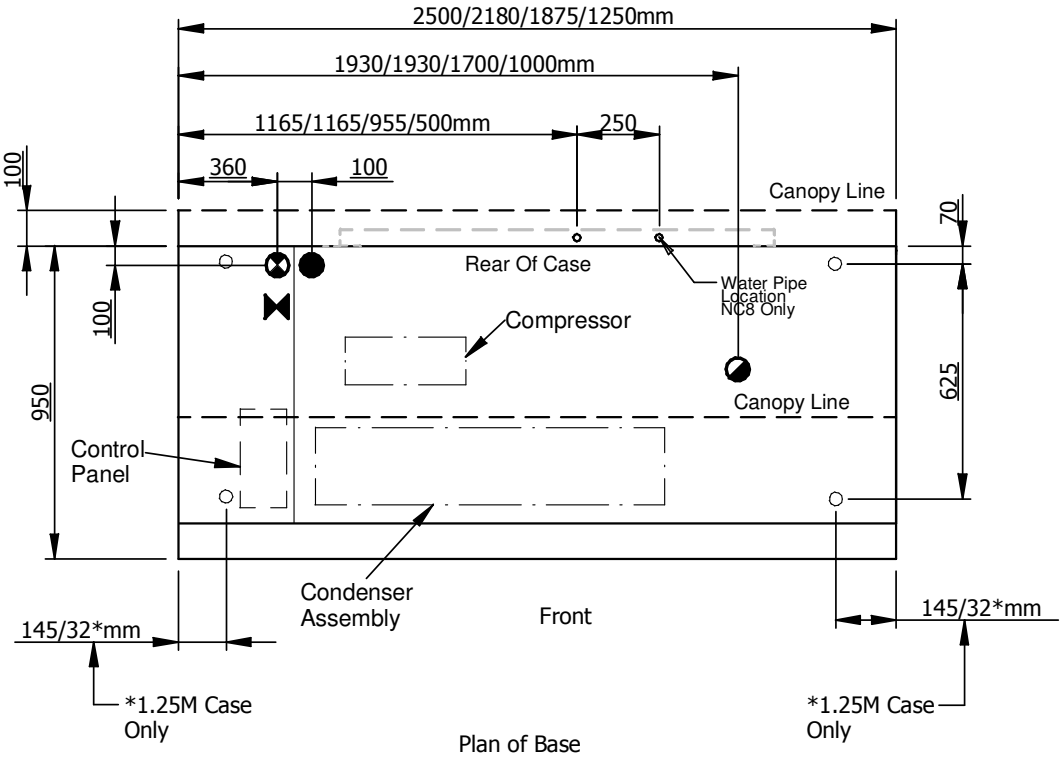
Plan Drawing –

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



Plan of Base

Ref:- DP1156-01