

Case Type	Fresh Meat Cold Room Integral Condensing Unit			
Model Designation	QB9			
File Reference	1238			
Document Issue	1	10-04-13	LRC	Provisional Issue
	2	05-06-13	LRC	Added Minimum dimensions between units and side walls of Cold room
	3	30-08-13	LRC	Changed flow rates from Glycol 30% to DTX Glycol 27%
	4	22-10-13	LRC	Added Provisions set points to commissioning data
	5	05-12-13	LRC	Updated Unit Description
	6	25-02-14	AG	Drawing views updated

cabinet **TECHNICAL DATA**

Technical Data Sheet –

Product Type	Fresh Meat / Provisions
Product Temperature	-1 to +4°C/ -1 to +5°C
Maximum Design Ambient	ISO 3 25°C and 60% RH

Fresh Meat / Provisions

Refrigeration Data

Refrigeration Duty (per 24hrs) [kW]	3.86
Minimum Room Volume m ³	43.75
Refrigerant Charge kg R1270 per system	0.350
Minimum Dimensions between internal evaporators and L/H side walls of cold room.	900mm

Electrical Data (@ 230V 50Hz)

	Watts	Amps
Condensing Unit	1206	5.24
Fans	175	0.76
Solenoid Valve / Controller	10	0.04
Drain Line Heater 1m	40	0.17
Defrost Heaters	2975	12.93
Maximum Load – Normal Running	1431	6.22
Maximum Load – Electrical Defrost	3015	13.10

Engineering Data

Total Heat of Rejection THR (kW)	6.02
THR Water only (kW)	5.2
THR Air only (kW)	0.80
Plate Heat Exchanger (kpa) each	7.5
Water Inlet Temperature °C	18
Water Outlet Temperature °C	24
Chilled Water Connections mm	22
DTX Glycol 27% Flow Rate (kg/s)***	0.2286
Water Flow Rate (kg/s)****	0.2081
Drain Outlet	¾"

Set-Up Data**

	Fresh Meat	Dairy
Cut in Temperature [°C]	+1	+3
Differential [K]	2	2
N° Defrosts (per 24hrs)	4	4
Maximum Defrost Time [mins]	45	45
Defrost Termination Temp (In Coil) [°C]	3	3
Drain Down Time [mins]	1.30	1.30
Fans in Defrost	Off	Off
Control Temperature Ratio (%)	50	50
Superheat [K]	3 / 8	3 / 8

NOTES!

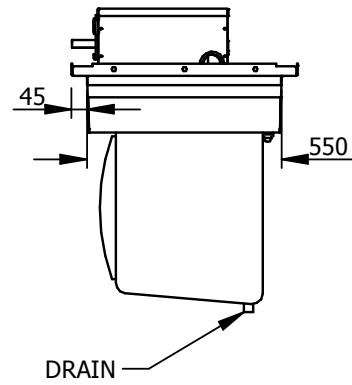
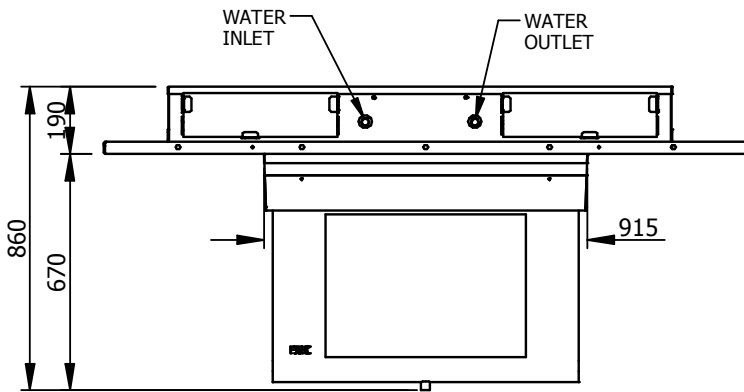
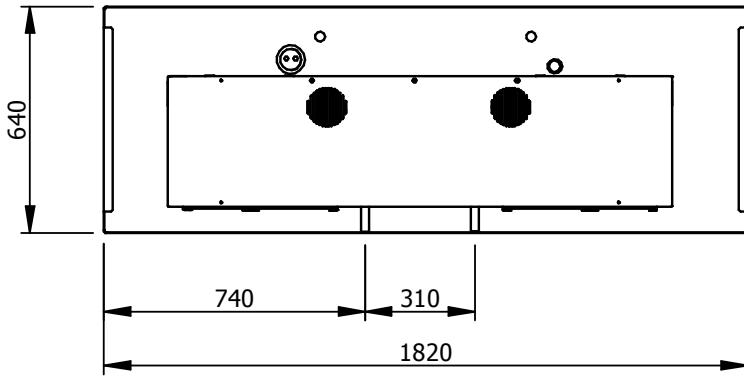
* 12/12 Trading Conditions

** 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 = 3.8095kj/(kg-K)

****Flow Rate for Water @ 20°C

Drawing –



Ref:- DP1238-02