

Case Type	Frozen Food Cold Room Integral Condensing Uni				
Model Designation	QCS)			
File Reference	1239				
Document Issue	1	10-04-13	LRC	Provisional Issue	
	2	05-06-13	LRC	Updated Refrigerant charges, Minimum Room Volume and minimum Dimensions of unit to side walls	
	3	19-08-13	NM	Flow & THR updated for 18/24 fluid	
	4	19-08-13	NM	Flow rate added for -6°C inlet & 32°C outlet	
	5	30-08-13	LRC	Flow rate changed for DTX Glycol 27%	
	6	06-12-13	LRC	Updated flow rate	
	7	26-02-14	AG	Drawing views updated	

cabinet TECHNICAL DATA



Technical Data Sheet -

Product Type Product Temperature

Frozen Food -18 to -21°C

Maximum Design Ambient		ISO 3 25°C and 60% RH					
	Frozen	Food					
Defrice vertice Data							
Refrigeration Data Refrigeration Duty (per 24hrs) [kW]	3.0)7					
Minimum Room Volume m3	43.75						
Refrigerant Charge kg R1270 per system	0.35						
Minimum Dimensions between internal evaporators and L/H side walls of cold room.	900mm		For maintenance and removal of defrost heaters				
Electrical Data (@ 230V 50Hz)	Watts	Amps					
Condensing Unit	1791	7.79					
Fans (MCE)	175	0.76					
Solenoid Valve / Controller	10	0.04					
Drain Line Heater	40	0.17					
Defrost Heaters	2975	12.93					
Maximum Load – Normal Running	2013	8.79					
Maximum Load – Electrical Defrost	3015	13.10					
Engineering Data							
Total Heat of Rejection THR (kW)		4.98	4.98				
THR Water only (kW)		4.18	4.18				
THR Air only (kW)		0.8	0.8				
Plate Heat Exchanger (kpa) each	7.5		7.5				
Water Inlet Temperature °C		18	-6				
Water Outlet Temperature °C	24		32				
Chilled Water Connections mm	22		22				
DTX Glycol 27% Flow Rate (kg/s)***	0.181		0.0286				
Water Flow Rate (kg/s)****	0.1649		0.0263				
Drain Outlet		3/4″	3/4″				
Set-Up Data**	Frozen Fo		ood				
Cut in Temperature [°C]	-21						
Differential [K]	2						
N° Defrosts (per 24hrs)	4						
Maximum Defrost Time [mins]		45					
Defrost Termination Temp (In Coil) [°C]		3					
Drain Down Time [mins]		1.30					
Fans in Defrost		Off					

50

3/8

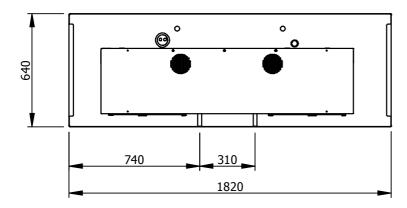
Superheat [K]

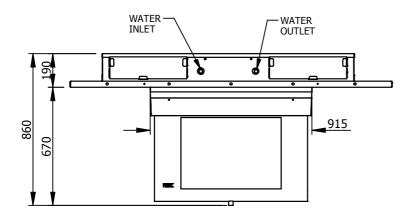
Control Temperature Ratio (%)

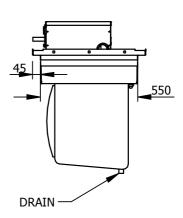
NOTES!
* 12/12 Trading Conditions
** Set-up data is for guidance only. Final settings to be determined by commissioning contractor.
***Flow Rate for Glycol based on 27% @ 20°C from Ashrae = 3.8095kj/(kg-K)
****Flow Rate for Water @ 20°C



Drawing -







Ref:- DP1239-02