

<b>Cabinet Type</b>	<b>Combined Half Glass over Well</b>			
<b>Model Designation</b>	<b>GCU</b>			
<b>File Reference</b>	1234			
<b>Document Issue</b>	1	18-02-13	GR	First Issue
	2	07-03-13	LRC	Update Cut in Cut out Temperatures
	3	24-04-13	AG	R744 Date Sheet added
	4	05-06-13	LRC	Updated duties and included Store Conditions
	5	26-06-13	AG	Set-up Data
	6	31-07-13	LRC	Added R407F Data
	7	16-10-13	LRC	Updated duties to include ISO 0 Conditions

cabinet **TECHNICAL DATA**

## Cabinet Technical Data Sheet – GCU

Product Type	Frozen Food
Product Temperature	-18°C / -22°C
Maximum Design Ambient	ISO 3 25°C 60%RH
Store Design Ambient	ISO 0 20°C 50%RH

Case Length [m]	3.75	2.50	1.87
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### Refrigeration Data

Refrigeration Duty (per 24hrs) [kW] ISO3	2.55	1.70	1.27
Refrigeration Duty (per 24hrs) [kW] ISO0	2.04	1.36	1.02
Evaporating Temperature [°C] – L1	-35	-35	-35
Nett Environment Cooling Effect [kW]	0.66	0.44	0.33
R404A TS 2 Expansion Valve Orifice Size	3	2	2
R404A AKV Expansion Valve Size	10-5	10-4	10.3
R407F AKV Expansion Valve Size	10-4	10-3	10.2
Evaporator Liquid Capacity @ 25% R404A [kg]	4.0	2.6	2.0
Refrigeration Pipe Tail – Liquid	3/8"	3/8"	3/8"
Refrigeration Pipe Tail – Suction	7/8"	7/8"	7/8"

Electrical Data (@ 230V 50Hz)	Watts	Amps	Watts	Amps	Watts	Amps
Defrost Heaters	4000	17.39	2800	12.17	2000	8.69
Fans	171	0.7	126	0.5	98	0.4
Trim Heaters	244	1.0	163	0.7	117	0.5
Frame Heaters	543	2.36	330	1.43	281	1.22
Solenoid Valve / Controller	10	0.04	10	0.04	10	0.04
Lights Phillips LED's Frame and Under Belly	138	0.6	92	0.4	71	0.31
Maximum Load – Electric Defrost	5076	22.06	3521	15.3	2577	11.2

Electrical Data (@400V 3ph 50Hz)	L1	L2	L3	L1	L2	L3	L1	L2	L3
Maximum Load – Electric Defrost	4.7	9	9	3.1	6	6	2.4	4.4	4.4

### Miscellaneous Data

Refrigeration Connections	Top of Cabinet LHS
Electrical Connection	Underside of Cabinet LHS

### Set-Up Data\*\*

	Electric Defrost
Cut in Temperature [°C]	-23
Cut out Temperature [°C]	-24
N° Defrosts (per 24hrs)	2
Maximum Defrost Time [mins]	60
Defrost Termination Temp (Def. Probe [°C])	1
Drain Down Time [mins]	3
Fans in Defrost	Off
Cabinet Temperature Ratio (%)	50
Superheat [K]	5
Trim Heater Control (%)	100
Fan Start Delay after Defrost	10 Mins
Fan Start Temperature after defrost	-15°C

NOTES!

\*\* Set-up data is for guidance only. Final settings to be determined by commissioning contractor.

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Refrigeration Duty (per 24hrs) [kW] ISO0	2.04	1.36	1.02
Evaporating Temperature [°C] – L1	-32	-32	-32
Nett Environment Cooling Effect [kW]	0.66	0.44	0.33
R744 AKV Expansion Valve Orifice Size	3	2	1
Evaporator Liquid Capacity @ 90% R744 [kg]	9.13	5.93	4.33
Evaporator Liquid Capacity @ 25% R744 [kg]	2.54	1.65	1.20
Refrigeration Pipe Tail – Liquid	3/8"	3/8"	3/8"
Refrigeration Pipe Tail – Suction	1/2"	1/2"	1/2"

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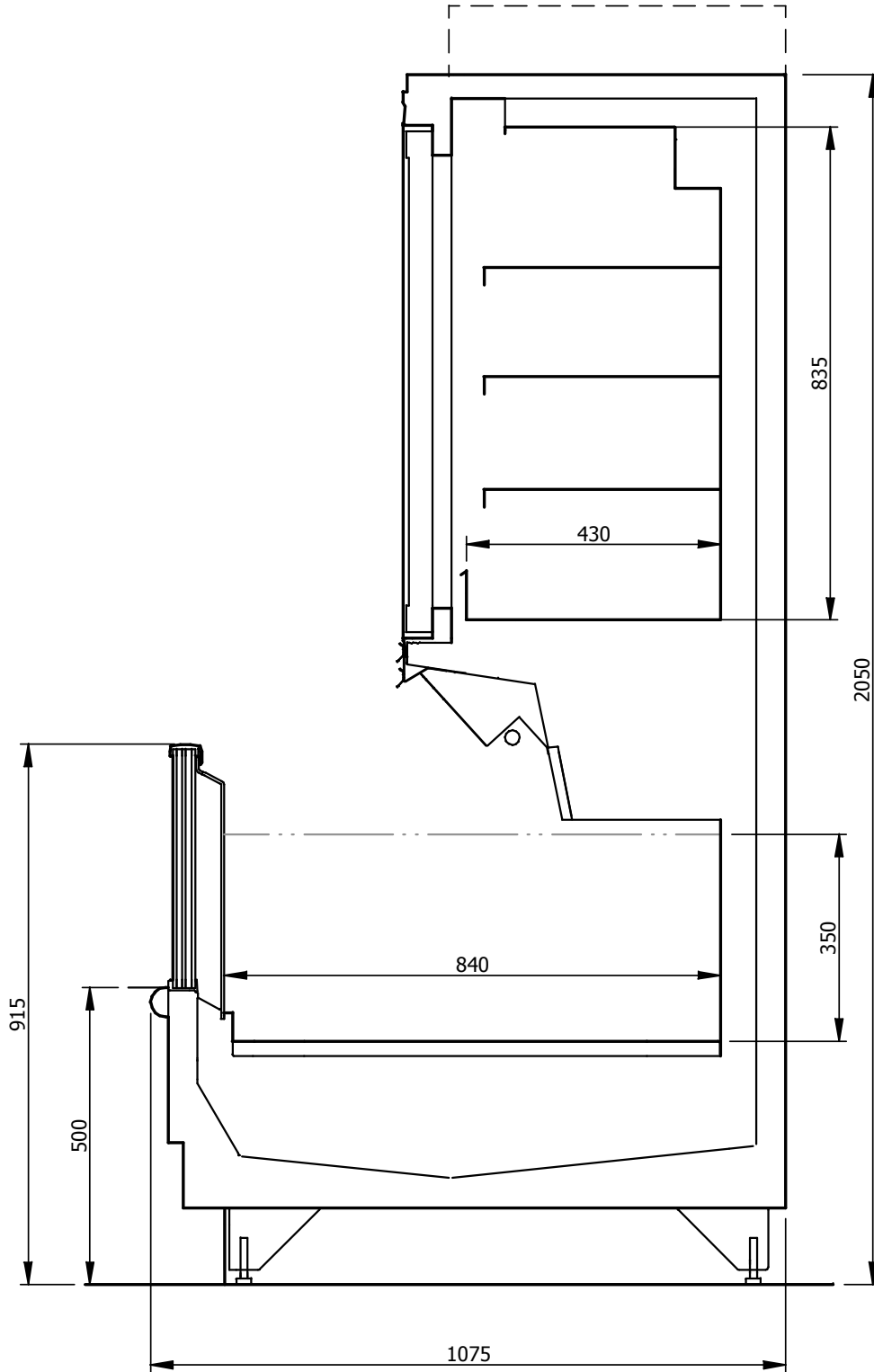
### Set-Up Data\*\*

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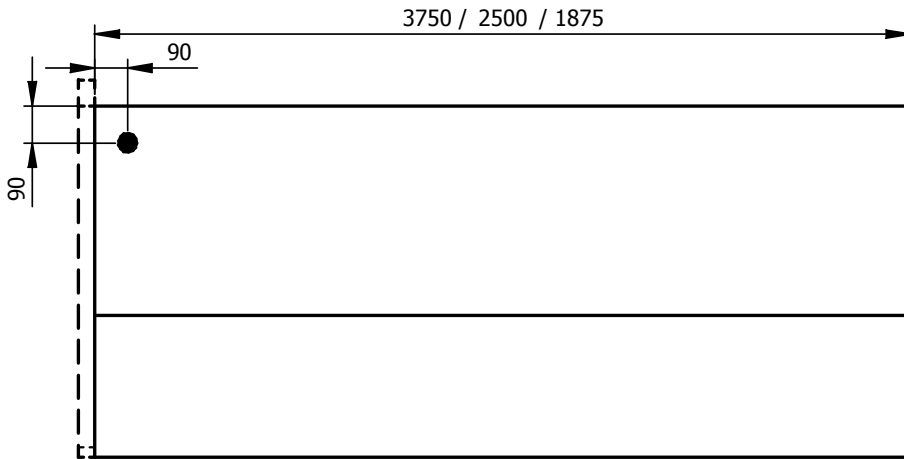
**Section Drawing – GCU**



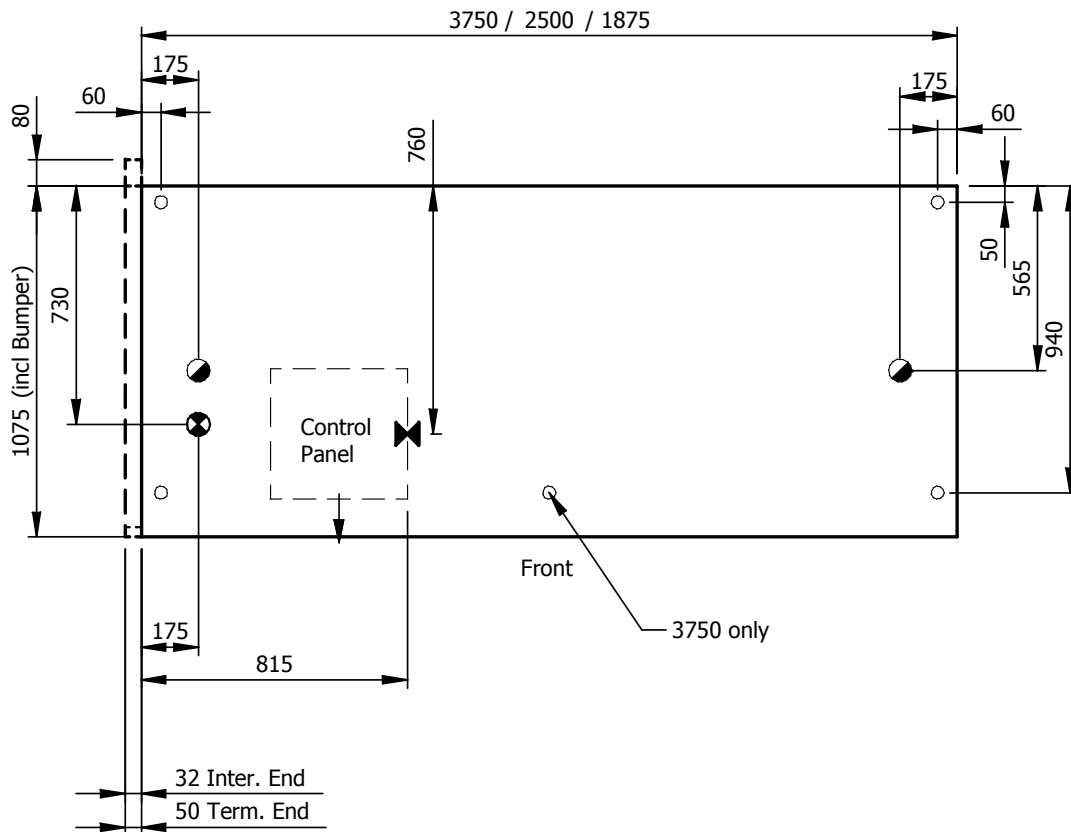
Ref:- DS1234-01

**Plan Drawing – GCU**

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



Plan of Top



Plan of Base

Ref:- DP1159-01