

<b>Case Type</b>	<b>Full Height Glass Door</b>			
<b>Model Designation</b>	<b>FDM</b>			
<b>File Reference</b>	1247			
<b>Document Issue</b>	1	12.09.13	GR	First Issue
	2	08-10-13	LRC	Updated R407F valve sizing

cabinet **TECHNICAL DATA**

## Cabinet Technical Data Sheet – FDMA

Product Type	Frozen Food / 3L1
Product Temperature	-18°C
Maximum Design Ambient	25°C @ 60%RH

Case Length [m]	5 Dr (3.90)	4 Dr (3.12)	3 Dr (2.34)	2 Dr (1.56)
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### Refrigeration Data

Refrigeration Duty (per 24hrs) [kW]	2.50	1.99	1.49	0.99
Evaporating Temperature [°C]	-32	-32	-32	-32
R407F TEX2 Expansion Valve Orifice	No. 3	No.2	No.2	No.1
R407F AKV 10 Expansion Valve	AKV10-4	AKV10-3	AKV10-3	AKV10-2
Evaporator Liquid Capacity @ 25% R404A [kg]	3.4	2.69	1.98	1.28
Refrigeration Pipe Tail – Liquid	3/8"	3/8"	3/8"	3/8"
Refrigeration Pipe Tail – Suction	7/8"	7/8"	7/8"	7/8"

### Electrical Data (@ 230V 50Hz)

	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps
Defrost Heaters	4900	21.3	3800	16.5	2750	11.9	1700	7.4
Fans (EC EBM)	35	0.15	28	0.12	21	0.09	14	0.06
Trim Heaters (Max)	615	2.67	576	2.50	380	1.65	288	1.25
Solenoid Valve / Controller	10	0.04	10	0.04	10	0.04	10	0.04
Lights (LED)	110	0.48	90	0.39	70	0.30	50	0.22
Maximum Load – Electric Defrost	5670	24.64	4504	19.55	3231	13.98	2062	8.97

### Electrical Data (@400V 3ph 50Hz)

	L1	L2	L3	L1	L2	L3	L1	L2	L3	L1	L2	L3
Maximum Load – Electric Defrost	8	11	11	6.5	8.5	8.5	4.5	6	6	3.5	4	4

### Miscellaneous Data

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

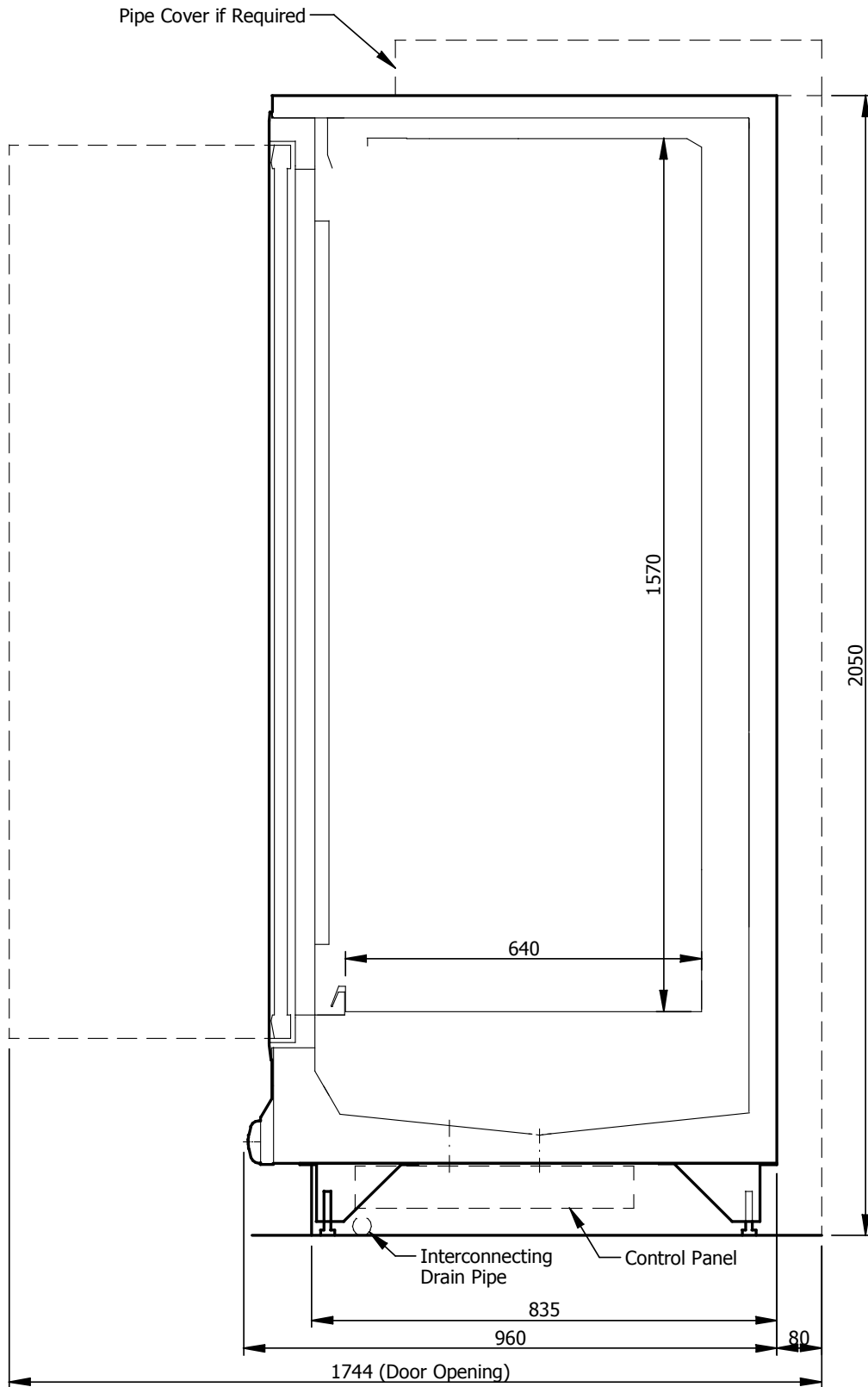
### Set-Up Data\*\*

#### Electric Defrost

Cut in Temperature [°C]	-22
Differential [K]	2
N° Defrosts (per 24hrs)	2
Maximum Defrost Time [mins]	60
Defrost Termination Temp (coil probe ) [°C]	1
Drain Down Time [mins]	2
Fans in Defrost (slow speed in defrost)	OFF
Cabinet Temperature Ratio (%)	50
Superheat [K]	4
Temp to Turn Fan ON After Defrost [°C]	-15
Time to Turn Fan ON After Defrost [min]	10

NOTES! \*\* Set-up data is for guidance only. Final settings to be determined by commissioning contractor.  
 \*\*\* If End Case ADD 143W (0.62A) per Cabinet for End Glazed units only.

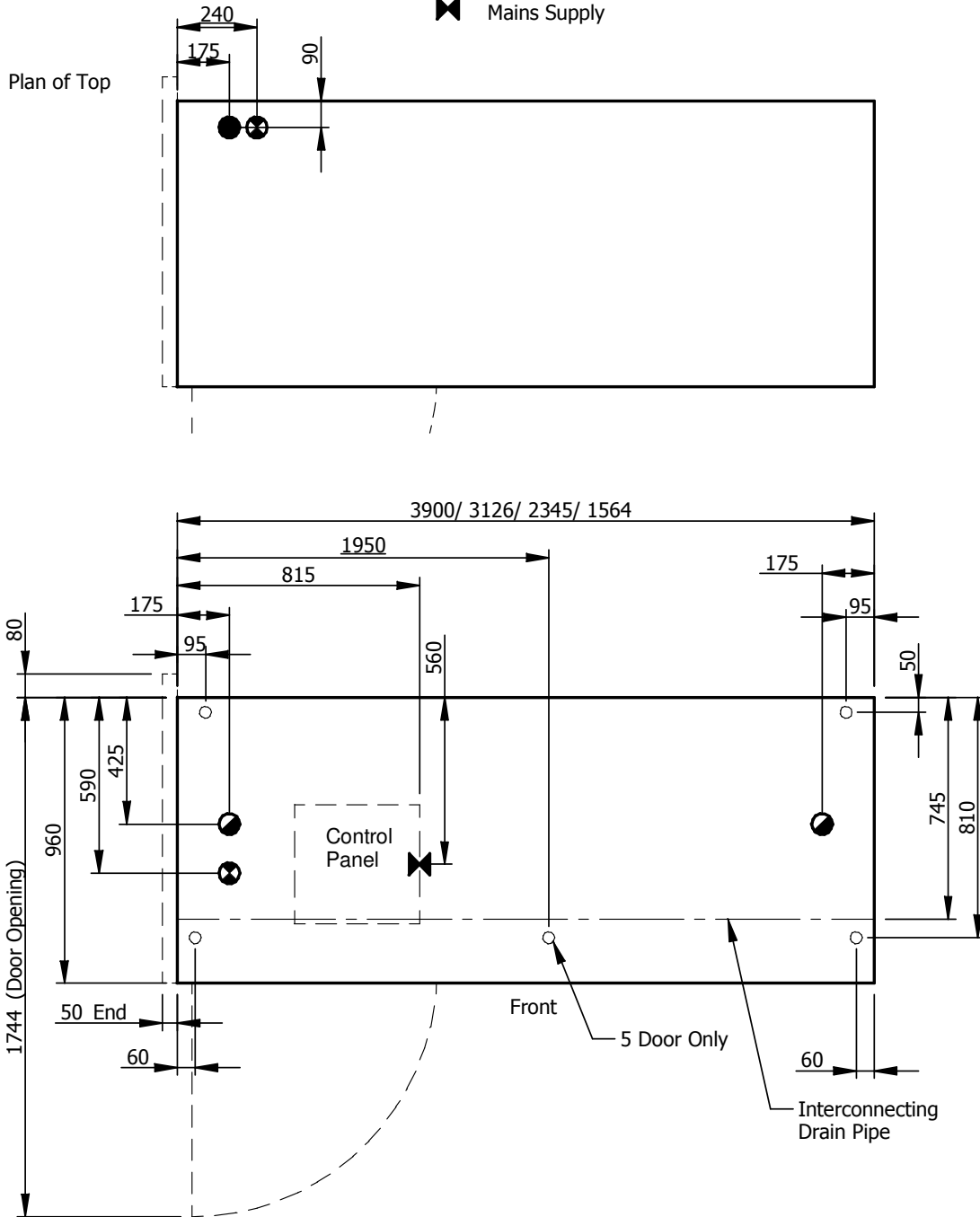
**Section Drawing – FDM**



Ref:- DS1157-01

**Plan Drawing – FDM**

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



Plan of Base

Ref:- DP1157-01