

Case Type	Full Height Glass Door			
Model Designation	FDA			
File Reference	1184			
Document Issue	1	27.05.11	LRC	First Issue
	2	12.06.11	LRC	Nett Cooling Effect Added
	3	02.08.11	LRC	Eco Clear Doors and update Evap. Capacities
	4	12.04.17	NM	Danfoss Display adjustment option added

cabinet **TECHNICAL DATA**

Cabinet Technical Data Sheet – FDAA HFC

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] 3L1	-31	-31	-31	-31
Evaporating Temperature [°C] 3L2	-28	-28	-28	-28
R407A/F TE2 Expansion Valve Orifice	No. 3	No.2	No.2	No.1
R407A/F AKV 10 Expansion Valve	AKV10-4	AKV10-4	AKV10-3	AKV10-2
R407A/F CAREL E2V Orifice Size	11	9	9	5
R404A TE2 Expansion Valve Orifice	No. 3	No.3	No.2	No.1
R404A AKV 10 Expansion Valve	AKV10-5	AKV10-4	AKV10-4	AKV10-3
Evaporator Liquid Capacity @ 25% R404A [kg]	3.4	2.69	1.98	1.28
Evaporator Liquid Capacity @ 25% R407A [kg]	3.67	2.91	2.14	1.38
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)	765	3.33	602	2.62	344	1.49	326	1.41
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	5820	25.3	4530	19.69	3195	13.89	2100	9.13

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
Danfoss Display Temperature Correction (r04 K)	3 (Optional)

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.

Cabinet Technical Data Sheet – FDAA CO2

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] 3L1	-29	-29	-29	-29
Evaporating Temperature [°C] 3L2	-26	-26	-26	-26
Net Environmental Cooling Effect	1.31	1.19	0.82	0.52
R744 AKV Expansion Valve Size	No3	No2	No2	No1
Evaporator Liquid Capacity @ 90% R744 [kg]	10.5	8.32	6.14	3.95
Evaporator Liquid Capacity @ 25% R744 [kg]	2.92	2.31	1.7	1.10
Refrigeration Pipe Tail – Liquid	3/8"	3/8"	3/8"	3/8"
Refrigeration Pipe Tail – Suction	1/2"	1/2"	1/2"	1/2"

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)	765	3.33	602	2.62	344	1.49	326	1.41
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	5820	25.3	4530	19.69	3195	13.89	2100	9.13

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

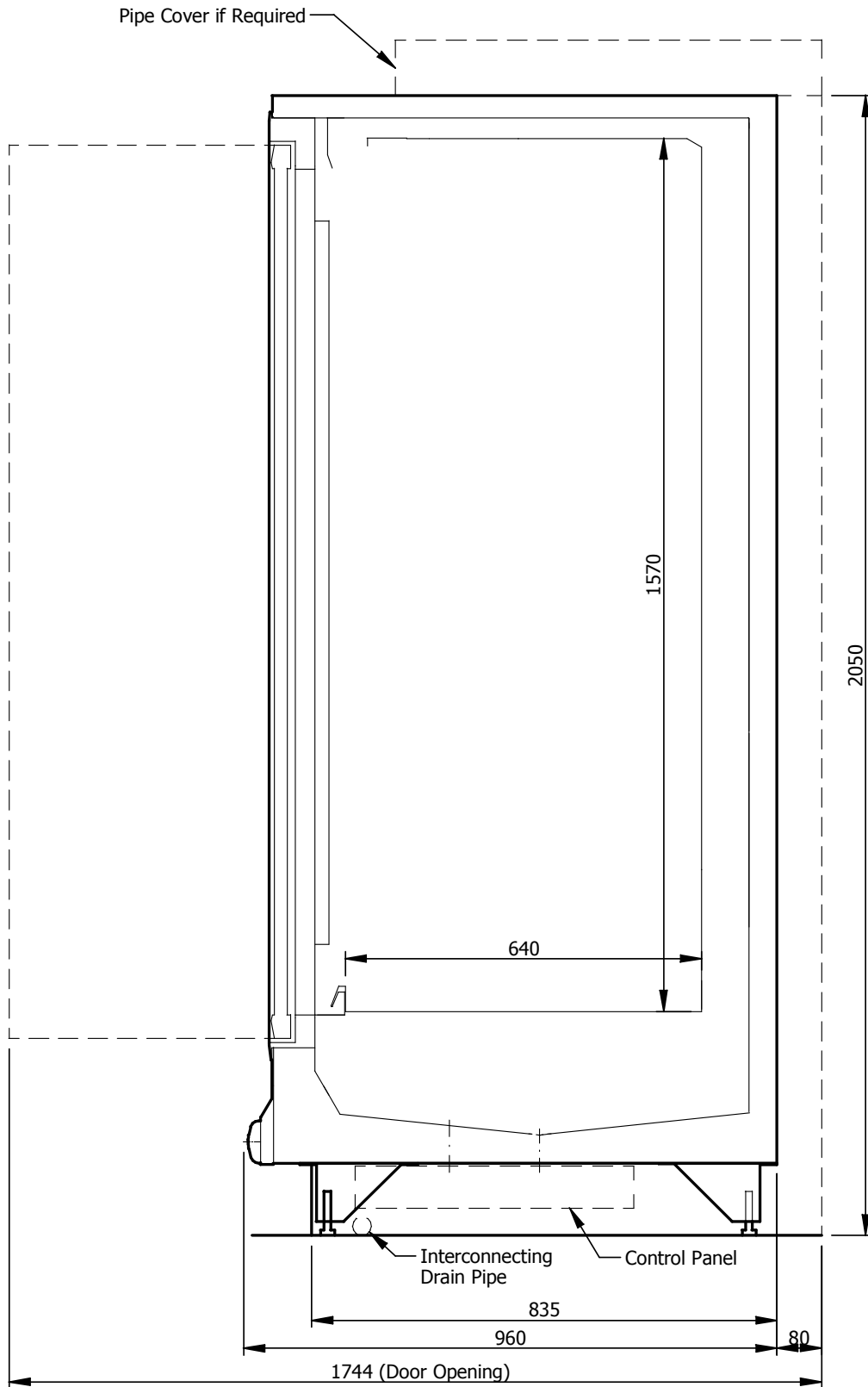
Set-Up Data**

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
Danfoss Display Temperature Correction (r04 K)	3 (Optional)

NOTES! ** Set-up data is for guidance only. Final settings to be determined by commissioning contractor.
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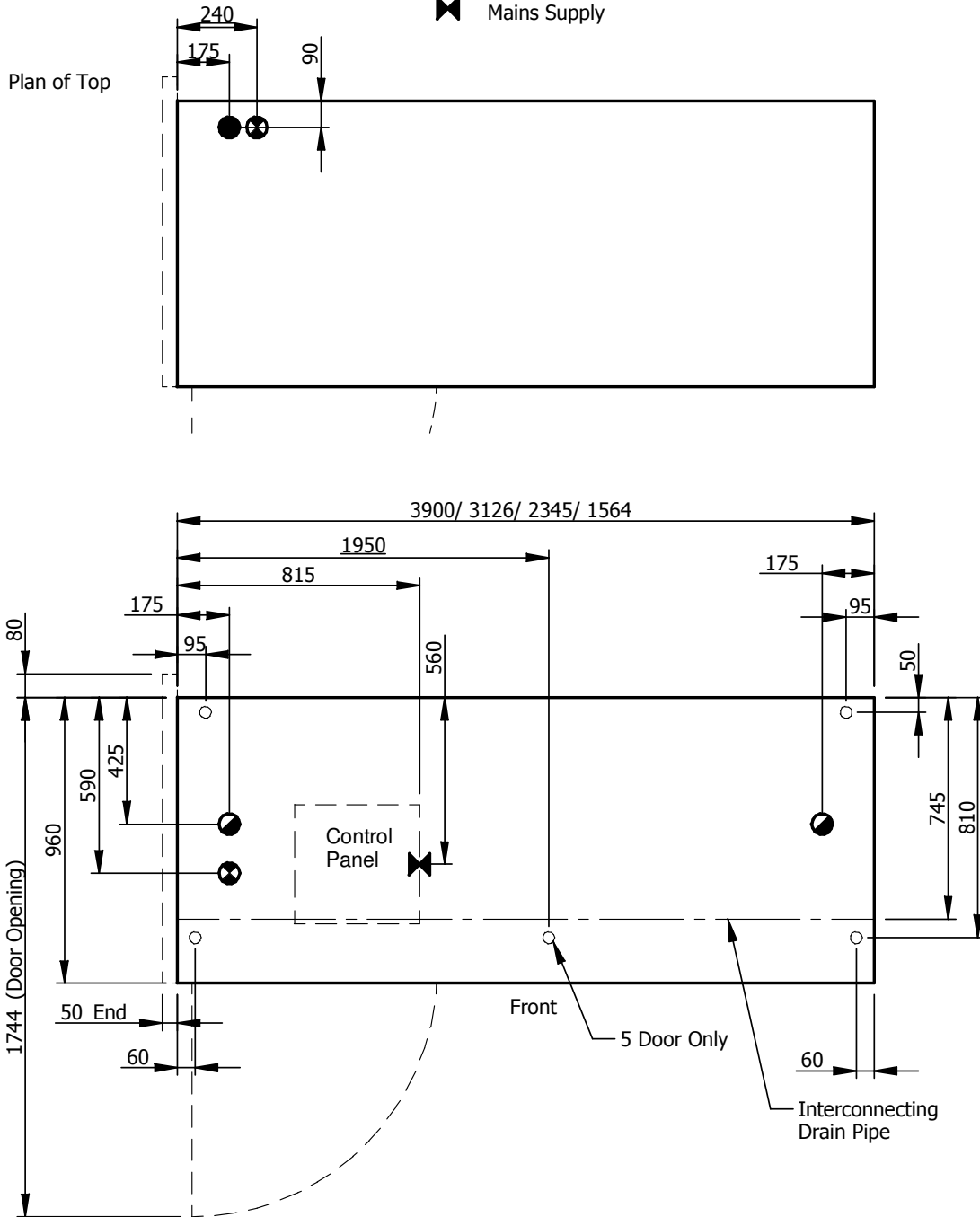
Section Drawing – FDA



Ref:- DS1157-01

Plan Drawing – FDA

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



Plan of Base

Ref:- DP1157-01