ID DOC. SYDNEY 3 90 VCA - CL 3
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TECHNICAL DATA

SYDNEY 3 90 VCA

Climate Class 3 - 25°C 60% RH

DIMENSIONAL PROPERTIES

		937	1250	1875	2500	3125	3750	AA 45°	AA 90°	AC 45°	AC 90°
Cod.		06134600	06134602	06134604	06134606	06134608	06134609	06134671	06134672	06134674	06134675
Length without end-walls	mm	937	1250	1875	2500	3125	3750				
Height	mm	1176	1176	1176	1176	1176	1176	1176	1176	1176	1176
Depth	mm	1167	1167	1167	1167	1167	1167				
Display opening area	m2	0,8	1,07	1,61	2,15	2,68	3,22				
Horizontal display area *	m2	0,84	1,13	1,69	2,25	2,81	3,38	0,57	1,14	0,58	1,16
Net volume *	dm3	169	225	338	450	563	675	114	228	116	233
TDA ** Total Display Area	m2										
Foot print	m2	1,09	1,46	2,19	2,92	3,65	4,38				
Weight (end-walls not included)	kg										
Noise level	dB(A)	≤ 60	≤ 60	≤ 60	≤ 60	≤ 60	≤ 60	≤ 60	≤ 60	≤ 60	≤ 60

** = Total Display Area calculated as in EN ISO 23953, part 2, Annex A

EVAPORATORS

Direct expansion evaporator		937	1250	1875	2500	3125	3750	AA 45°	AA 90°	AC 45°	AC 90°
Cod.		02840213	02840214	02840216	02840218	02840219	02840221	02840281	02840213	02840254	02840213
Surface	m2	6,75	10,15	16,83	23,51	30,19	36,93	2,18	6,75	4,24	6,75
Internal pipes volume	dm3	1,774	2,539	4,044	5,489	7,001	8,466	0,732	1,774	1,227	1,774
Cabinet connections in/out	mm	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12	10 / 12

EXPANSION VALVES

		937	1250	1875	2500	3125	3750	AA 45°	AA 90°	AC 45°	AC 90°
Cod.		04722731	04722731	04722717	04722718	04722719	04722719	04722731	04722731	04722731	04722731
Mechanical Valve	R 404A	TES 2-0,11	TES 2-0,11	TES 2-0,21	TES 2-0,45	TES 2-0,6	TES 2-0,6	TES 2-0,11	TES 2-0,11	TES 2-0,11	TES 2-0,11
Orifice		0X	0X	00	01	02	02	0X	0X	0X	0X

ELECTRIC COMPONENTS

		937	1250	1875	2500	3125	3750	AA 45°	AA 90°	AC 45°	AC 90°
Cod.		04681197	04681197	04681197	04681197	04681197	04681197	04681197	04681197	04681197	04681197
Evaporator fan motors	n° x W	1 x 6.5	2 x 6.5	2 x 6.5	4 x 6.5	5 x 6.5	6 x 6.5	1 x 6.5	2 x 6.5	1 x 6.5	1 x 6.5
Model or diameter / incl. blade		A12B23 ETB	A12B23 ETB	A12B23 ETB	A12B23 ETB	A12B23 ETB	A12B23 ETB	A12B23 ETB	A12B23 ETB	A12B23 ETB	A12B23 ETB
Cod.		04380537	04380538	04380538	04380540	04380540	04380541	04386577	04380536	04386577	04380536
Canopy lighting	n° x W	2 x 18	2 x 30	3 x 30	3 x 36	4 x 36	3 x 58	2 x 18	2 x 15	2 x 18	2 x 15
Cod.		04080278	04080280	04080281	04080283	04080284	04080286	04080409	04080405	04080410	04080407
Anti-sweat heater C1	n° x W	1 x 15.8	1 x 21.6	1 x 32.9	1 x 44.1	1 x 55.4	1 x 66.6	1 x 7	1 x 21.5	1 x 17	1 x 43
Cod.		04080121	04080122	04080123	04080124	04080125	04080126	04080408	04080419		04080406
Anti-sweat heater C2	n° x W	1 x 27	1 x 36.8	1 x 55.5	1 x 73.5	1 x 92.3	1 x 111	1 x 34.5	1 x 64.5		1 x 10.8

ELECTRICAL LOADING

		937	1250	1875	2500	3125	3750	AA 45°	AA 90°	AC 45°	AC 90°
Fans	W	6,5	13,0	13,0	26,0	32,5	39,0	6,5	13,0	6,5	6,5
Anti-sweat heater	W	42,8	58,4	88,4	117,6	147,7	177,6	41,5	86,0	17,0	53,8
Mechanical ballast light	W	48,0	76,0	114,0	135,0	180,0	210,0	48,0	38,0	48,0	38,0

OPTIONAL / ALTERNATIVES

Secondary coolant evaporator		937	1250	1875	2500	3125	3750	AA 45°	AA 90°	AC 45°	AC 90°
Cod.		02841118	02841119	02841121	02841122	02840644	02840645				
Surface	m2	6,746	10,15	16,831	23,511	30,192	36,931				
Internal pipes volume	dm3	1,774	2,539	4,044	5,489	7,001	8,49				
Cabinet connections in/out	mm	12 / 12	12 / 12	12 / 12	12 / 12	16 / 16	16 / 16	/	/	/	/
CO2 EVAPORATOR - DIRECT EXPANSION		937	1250	1875	2500	3125	3750	AA 45°	AA 90°	AC 45°	AC 90°
Cod.		02841033	02841034	02841035	02841036	02841037	02841038		02841033		02841033
Surface	m2	6,651	10,007	16,593	23,18	29,766	36,411		6,651		6,651
Internal pipes volume	dm3	1,133	1,618	2,573	3,527	4,481	5,435		1,133		1,133
Cabinet connections in/out	mm	10 / 10	10 / 10	10 / 10	10 / 10	10 / 10	10 / 10	/	10 / 10	/	10 / 10
Evap-exchanger for CO2 - PUMP		937	1250	1875	2500	3125	3750	AA 45°	AA 90°	AC 45°	AC 90°
Cod.			02840573	02840569	02840574	02840598	02840575	02840576		02840577	
Surface	m2		10,15	16,831	23,511	30,192	36,931	2,184		4,624	
Internal pipes volume	dm3		2,224	3,522	4,821	6,12	7,419	0,673		1,147	
Cabinet connections in/out	mm	/	12 / 12	12 / 12	12 / 12	12 / 12	12 / 12	12 / 12	/	12 / 12	/

Total electrical powers absorbed in W referred to 230V / 50Hz electric input

	937	1250	1875	2500	3125	3750	AA 45°	AA 90°	AC 45°	AC 90°
Defrost heaters	400	460	690	920	1150	1400	330	400	400	400
middle shelf lighted (mechan.ballast)	38	45	76	90	135	135				
bottom light (electronic ballast)	21	28	42	56	70	84				

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REFRIGERATION POWER

Working temperature °C	Average Evap. Temp. °C	Heat extraction rate for unit length (EN ISO 23953) W/m	Heat extraction rate in W for cabinet length (EN ISO 23953 part 2)									
			937	***1250***	***1875***	***2500***	***3125***	***3750***	***AA 45°***	***AA 90°***	***AC 45°***	***AC 90°***
0 / +2	-8	250	234	313	469	625	781	938	275	475	350	625
+2 / +4	-6	215	202	269	403	538	672	806	237	409	301	538

CONTROLS

Air off — *Data referred to a controlling probe fitted on air off duct*

Working temperature °C	Thermostat ON °C	Thermostat OFF °C	Defrosting Type	Fan motors working cond. on/off	n°/24h	End defrost temp. °C	Maximum defrost duration min	Dripping time min	Fans starting delay Time min	Fans starting delay Temperature °C	Alarms Alarm set point °C	Alarms Alarm delay time min
0 / +2	-2,0	-3,0	Off cycle	On	4	+5	45	0			+2	35
+2 / +4	+2,0	+1,0		On	4	+5	45	0			+6	35
0 / +2	-2,0	-3,0	Electric (on request)	On	3	+9	45	0			+2	35
+2 / +4												

Setting datas can be changed as per real environmental conditions

CONTROLS

Data referred to 2 controlling probes fitted on air off and return air ducts

Working temperature °C	Thermostat ON °C	Thermostat OFF °C	Virtual probe air off probe %	Virtual probe air in probe %	Defrosting Type	Fan motors working cond. on/off	n°/24 H	End defrost temp. °C	Maximum defrost duration min	Dripping time min	Fans starting delay Time min	Fans starting delay Temperature °C	Alarms Alarm set point °C	Alarms Alarm delay time min
0 / +2					Off cycle									
+2 / +4														
0 / +2					Electric (on request)									
+2 / +4														

Setting datas can be changed as per real environmental conditions

CONTROLS

Air temperature °C	Average Evap. Temp. °C	Superheating at expansion valve K	Minimum evap. temp. °C	Air off temp. °C	Air inlet temp. °C	Average defrost period Off cycle min	Average defrost period Electric (on request) min
0 / +2	-8						
+2 / +4	-6						

Temperatures measured 1 hour after the end of defrost

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