

PS SERIES & PSL SERIES

LOW PROFILE EVAPORATORS

MEDIUM & LOW TEMPERATURE EVAPORATORS

ORIGINAL MANUFACTURED EQUIPMENT

PS Series
PSL Series





Product Specifications

The PS Series Low Line Evaporators are an innovative and modern design to meet the changing requirements of our progressive customers. The design is ideally suited for walk in medium temperature cool rooms and low temperature display freezer rooms where the crisp white finish compliments the quality installation on display.

The easy clean, hygienic appearance is most suited for retail applications where consumers enter or view the cold storage area. At the heart of the PS Series is a totally new coil design providing optimum performance through a wide application range. Modification of the primary to secondary surface ratio provides a reduction in the moisture collection on the coil surface. This technology improves the product storage quality in medium temperature applications while reducing ice build up on the coils during low temperature application. The previously used high quality 300mm and 350mm sickle blade fans are continued through the PS Series delivering reliable and energy efficient air distribution.

The Specific Features Include:

- Crisp, white powder coated evaporator panels
- Absolute flush mounting
- Stainless steel fastenings
- Innovative design in coil geometry
- Performance optimised circuitry and distributor system with Venturi-Effect technology
- Standard coils circuited for multiple refrigerants (no orifice change required)
- Internal ripple finned tube for higher heat-transfer performance and improved oil return
- Hinged access door both ends - easily removable, where coil is installed close to adjacent walls
- Hinged and fully reversible drip tray (PS*M and PS*LE only)
- Double annealed defrost elements fitted to coil block for improved heat dissipation (PS*LE only)
- Heater safety thermostat (PS*LE) ONLY
- Electrical components pre-wired to common IP66-rated connection box fitted with screw type terminals (PS*LE only)
- 5 Defrost types: Air, Electric, Hot Gas, Water Defrost and Glycol Defrost
- Fan speed: 300mm = 1380rpm (50Hz)
350mm = 1340rpm (50Hz)

Optional Extras

- Epoxy coated fins (not available with electric defrost)
- Copper fins
- Air straightening guides
- Factory fitted defrost fan delay
- Other Fin Series: 4, 5, 7, 8 FPI
- Factory fitted TX/EXV valves (on multiple orders)
- E-Coat coil protection (on selected models, refer to Page 9.)
- Blygold coil protection
- Defrost heaters for medium temperature
- Special Application designs
- Hazardous location motors (e.g. flameproof)
- Special circuitry - Brine, Hot/Cold water
- Stainless steel case

Explanation of Type Designation

PS 2 - L - E - 136

PS = PS Series Evaporator

PS 2 - L - E - 136

Fan Series, PS1 = 300mm dia, PS2 = 350mm dia

PS2 - L - E - 136

Application Range, M = Medium Temp, L = Low Temp

PS2 - L - E - 136

Defrost Version, "#" = Air, E = Electric, H = Hot Gas, W = Water, G = Glycol

PS2 - L - E - 136

Nominal Refrigeration Capacity, 136 = 1.36kW@1KTD on R404A

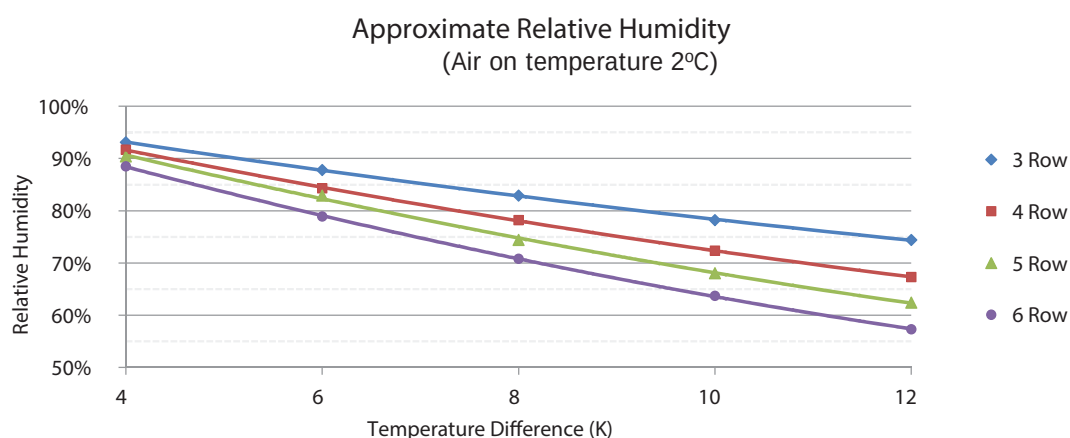
Product Specifications

Selection PS#M Series - Medium Temperature Applications

Models overlap in capacities where fan motor change occurs. This permits an alternative selection (where space may be limited) without loss of airflow volume. Capacity correction for suction temperatures, other than -4°C can be calculated from correction table however, where operating suction temperature selection varies more than $\pm 5^{\circ}\text{C}$ from standard (-4°C), please nominate condition at time of order so that correct distributor is fitted. Selection for expansion valves for models fitted with refrigerant distributors should be sized for a pressure drop of 400kPa for R134a and 700kPa for R22.

Selection PS#L* Series - Low Temperature Applications

Capacity correction for suction temperature other than -24°C can be calculated from correction table. However, where operating suction temperature varies more than $\pm 5^{\circ}\text{C}$ from standard (-24°C), please nominate condition at time of order so that correct distributor is fitted. Selection of expansion valves for models fitted with refrigerant distributors should be sized for a pressure drop of 900kPa for R404A and 700kPa for R22. All fans are supplied with low temperature grease permissible for air temperatures of -50°C to +70°C for 300mm diameter fan models and -40°C to $\pm 55^{\circ}\text{C}$ for 350mm diameter fan models.



Cross Reference List - Model / Number of Rows

Model	No. Rows	Model	No. Rows
PS1M 019	3	PS2M 108	5
PS1M 030	6	PS2M 117	6
PS1M 036	6	PS2M 141	4
PS1M 042	3	PS2M 162	5
PS1M 050	4	PS2M 177	6
PS1M 061	6	PS2M 187	4
PS1M 063	3	PS2M 217	5
PS1M 077	4	PS2M 246	6
PS1M 084	5	PS2M 276	5
PS1M 095	6	PS2M 309	6
PS1M 102	4		
PS1M 128	6		

The above relative humidity values are based on approximate normal conditions of a standard coolroom. Many factors can ultimately effect the range of humidities within a room. These include but, are not limited to, infiltration (air change overs per day), product entering temperature, product entering packaging type, system suction temperature, system temperature difference, system defrost type and system run hours.



Performance Data

PS#M Series Evaporators - Medium Temperature

Specifications - 300mm Diameter Fan Models Fin Series 6 (236 Fins/m)

Capacities in accordance with European $\pm$ DT1 Conditions, and based on -4°C saturated suction temperature

MODEL: PS1M*		019	030	036	042	050	061	063	077	084	095	102	128
R404a	Watts @ 6ktd	1130	1816	2170	2497	3029	3659	3806	4623	5070	5705	6095	7681
	Watts @ 1ktd	188	303	362	416	505	610	634	770	845	951	1016	1280
R134a	Watts @ 6ktd	977	1571	1877	2160	2620	3165	3292	3999	4385	4935	5272	6644
	Watts @ 1ktd	163	262	313	360	437	527	549	666	731	822	879	1107
R22	Watts @ 6ktd	1066	1714	2047	2356	2858	3452	3591	4362	4784	5383	5751	7247
	Watts @ 1ktd	178	286	341	393	476	575	599	727	797	897	959	1208
Air flow	L/s	427	354	406	854	804	708	1281	1206	1125	1062	1608	1416
	M ³ /h	1537	1274	1462	3074	2894	2549	4612	4342	4050	3823	5789	5098
	CFM	905	750	860	1810	1704	1500	2715	2556	2384	2250	3408	3001
Air throw-std fan (metres)		8.6	7.9	8.4	10.5	10.3	9.8	12.5	12.3	12.0	11.7	14.0	13.4
Number of 300mm fans		1	1	1	2	2	2	3	3	3	3	4	4
Fan	Total watts	70	70	70	140	140	140	210	210	210	210	280	280
Motor(s)**	Total amps	0.32	0.32	0.32	0.64	0.64	0.64	0.96	0.96	0.96	0.96	1.28	1.28
Motor heat / 24hrs watts		1680	1680	1680	3360	3360	3360	5040	5040	5040	5040	6720	6720

$\pm$ DT1 = (Air On Temp) - (Saturated Suction Temperature)

** = Based On Manufacturers Nominal Data

NOTE: PLEASE SPECIFY REFRIGERANT WHEN ORDERING

Specifications - 350mm Diameter Fan Models Fin Series 6 (236 Fins/m)

Capacities in accordance with European $\pm$ DT1 conditions, and based on -4°C saturated suction temperature

MODEL: PS2M*		108	117	141	162	177	187	217	246	276	309
R404a	Watts @ 6ktd	6469	6997	8475	9693	10612	11238	13029	14749	16549	18519
	Watts @ 1ktd	1078	1166	1412	1615	1769	1873	2172	2458	2758	3087
R134a	Watts @ 6ktd	5596	6052	7331	8384	9179	9721	11270	12758	14315	16019
	Watts @ 1ktd	933	1009	1222	1397	1530	1620	1878	2126	2386	2670
R22	Watts @ 6ktd	6104	6602	7997	9146	10013	10603	12294	13916	15615	17474
	Watts @ 1ktd	1017	1100	1333	1524	1669	1767	2049	2319	2603	2912
Air flow	L/s	1458	1422	2331	2187	2133	3108	2916	2844	3645	3555
	M ³ /h	5249	5119	8392	7873	7679	11189	10498	10238	13122	12798
	CFM	3090	3013	4940	4634	4520	6586	6179	6027	7724	7533
Air throw-std fan (metres)		16.9	16.5	18.7	18.4	17.9	21.0	20.8	20.2	21.7	20.6
Number of 350mm fans		2	2	3	3	3	4	4	4	5	5
Fan	Total watts	330	330	495	495	495	660	660	660	825	825
Motor(s)**	Total amps	1.46	1.46	2.19	2.19	2.19	2.92	2.92	2.92	3.65	3.65
Motor heat / 24hrs watts		7920	7920	11880	11880	11880	15840	15840	15840	198000	19800

$\pm$ DT1 = (Air On Temp) - (Saturated Suction Temperature)

** = Based On Manufacturers Nominal Data

NOTE: PLEASE SPECIFY REFRIGERANT WHEN ORDERING

* "E" = Electric Defrost

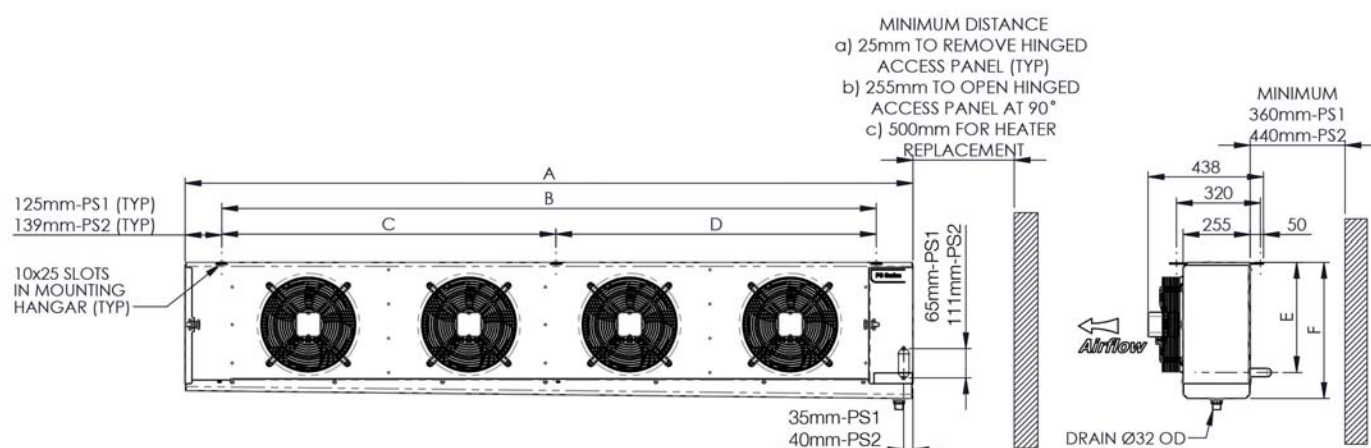
Capacity Correction Factors

FIN SERIES	4	5	6	7	8
CAPACITY MULTIPLIER	0.82	0.91	1	1.06	1.12

SUCTION TEMPERATURE	-10	-8	-6	-4	-2	0	2	4	6
CAPACITY MULTIPLIER	0.87	0.9	0.95	1	1.045	1.17	1.23	1.28	1.35

Product Specifications

PS#M Series Evaporators - Medium Temperature



Physical Data

Physical Data - 300mm Diameter Fan Models

MODEL: PS1M*	019	030	036	042	050	061	063	077	084	095	102	128
Suction Connection (mm)	12.7	15.9	15.9	15.9	15.9	19.0	19.0	19.0	22.2	22.2	22.2	28.5
Distributor Connection (mm)	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
Ext Equaliser (mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Operating Refrigerant Charge (kg) Based on R404A	0.3	0.6	0.8	0.6	0.8	1.2	0.9	1.2	1.4	1.7	1.6	2.3
Dimensions (mm)												
A	671	671	840	1052	1052	1052	1433	1433	1433	1433	1814	1814
B	425	425	594	806	806	806	1187	1187	1187	1187	1568	1568
C & D	NOTE : Not Applicable											
E	344	344	344	344	344	344	344	344	344	344	344	344
F	440	440	440	440	440	440	440	440	440	440	440	440
Weight	Unpacked (kg)	15	18	20	23	24	28	31	33	36	39	50
	Packed (kg)	21	24	26	30	31	35	39	41	44	47	59

Physical Data - 350mm Diameter Fan Models

MODEL: PS2M*	108	117	141	162	177	187	217	246	276	309
Suction Connection (mm)	22.2	28.6	28.6	28.6	28.60	31.8	31.8	31.8	31.8	31.8
Distributor Connection (mm)	15.9	15.9	15.9	15.9	15.9	22.2	22.2	22.2	22.2	22.2
Ext Equaliser (mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Operating Refrigerant Charge (kg) Based on R404A	1.7	2.0	2.1	2.7	3.0	2.8	3.5	4.4	4.8	5.9
Dimensions (mm)										
A	1535	1535	2145	2145	2145	2754	2754	2754	3364	3364
B	1263	1263	1873	1873	1873	2482	2482	2482	3092	3092
C	-	-	-	-	-	1263	1263	1263	1873	1873
D	-	-	-	-	-	1219	1219	1219	1219	1219
E	418	418	418	418	418	418	418	418	418	418
F	516	516	516	516	516	516	516	516	516	516
Weight	Unpacked (kg)	41	45	54	60	63	70	77	84	99
	Packed (kg)	49	53	64	70	73	102	109	116	140



Performance Data

PS#L* Series Evaporators - Low Temperature

Specifications - 300mm Diameter Fan Models Fin Series 6 (236 Fins/m)

Capacities in accordance with European $\pm$ DT1 conditions, and based on -24°C saturated suction temperature

MODEL: PS1L*		016	025	033	041	051	056	069	075	083	099
R404a	Watts @ 6ktd	981	1486	1991	2441	3047	3358	4130	4482	4984	5952
	Watts @ 1ktd	163	248	332	407	508	560	688	747	831	992
R507a	Watts @ 6ktd	999	1513	2027	2485	3102	3419	4204	4562	5074	6060
	Watts @ 1ktd	166	252	338	414	517	570	701	760	846	1010
R22	Watts @ 6ktd	926	1402	1879	2303	2875	3169	3897	4229	4703	5617
	Watts @ 1ktd	154	234	313	384	479	528	649	705	784	936
Air flow	L/s	418	347	836	788	694	1182	1101	1041	1576	1388
	M ³ /h	1505	1249	3010	2837	2498	4255	3964	3748	5674	4997
	CFM	886	735	1772	1670	1471	2505	2333	2206	3340	2941
Air throw-std fan (metres)		8.6	7.9	10.5	10.3	9.8	12.5	12.3	12.0	11.7	14.0
Number of 300mm fans		1	1	2	2	2	3	3	3	4	4
Fan	Total watts	70	70	70	140	140	210	210	210	280	280
Motor(s)**	Total amps	0.32	0.32	0.64	0.64	0.64	0.96	0.96	0.96	1.28	1.28
Motor heat / 24hrs watts		1680	1680	1680	3360	3360	5040	5040	5040	6720	6720
Defrost	Total watts	1060	1060	1960	1960	1960	2700	2700	2700	3580	3580
Heaters	Total amps	4.4	4.4	8.2	8.2	8.2	11.3	11.3	11.3	14.9	14.9

= $\pm$ DT1 = (Air On Temp) - (Saturated Suction Temperature)

** = Based On Manufacturers Nominal Data

NOTE: PLEASE SPECIFY REFRIGERANT WHEN ORDERING

* E - Electric Defrost
H - Hot Gas Defrost
W - Water Defrost
G - Glycol Defrost

Specifications - 350mm Diameter Fan Models Fin Series 6 (236 Fins/m)

Capacities in accordance with European $\pm$ DT1 conditions, and based on -24°C saturated suction temperature

MODEL: PS2L*		086	100	105	123	136	158	168	191	203	233
R404a	Watts @ 6ktd	5151	6003	6300	7410	8138	9462	10079	11469	12187	13963
	Watts @ 1ktd	858	1001	1050	1235	1356	1577	1680	1912	2031	2327
R507a	Watts @ 6ktd	5244	6111	6413	7543	8284	9632	10260	11676	12406	14214
	Watts @ 1ktd	874	1019	1069	1257	1381	1605	1710	1946	2068	2369
R22	Watts @ 6ktd	4860	5664	5944	6992	7678	8928	9510	10822	11499	13175
	Watts @ 1ktd	810	944	991	1165	1280	1488	1585	1804	1917	2196
Air flow	L/s	1428	1393	2283	2142	2090	3044	2856	2786	3570	3483
	M ³ /h	5141	5015	8219	7711	7524	10958	10282	10030	12852	12539
	CFM	3026	2952	4838	4539	4429	6451	6052	5904	7565	7381
Air throw-std fan (metres)		16.9	16.5	18.7	18.4	17.9	21.0	20.8	20.2	21.7	20.6
Number of 350mm fans		2	2	3	3	3	4	4	4	5	5
Fan	Total watts	330	330	495	495	495	660	660	660	825	825
Motor(s)**	Total amps	14.6	14.6	2.19	2.19	2.19	2.92	2.92	2.92	3.65	3.65
Motor heat / 24hrs watts		7920	7920	11880	11880	11880	15840	15840	15840	198000	19800
Defrost	Total watts	2880	2880	4300	4300	4300	5720	5720	5720	7160	7160
Heaters	Total amps	12.0	12.0	17.9	17.9	17.9	23.8	23.8	23.8	29.8	29.8

= $\pm$ DT1 = (Air On Temp) - (Saturated Suction Temperature)

** = Based On Manufacturers Nominal Data

NOTE: PLEASE SPECIFY REFRIGERANT WHEN ORDERING

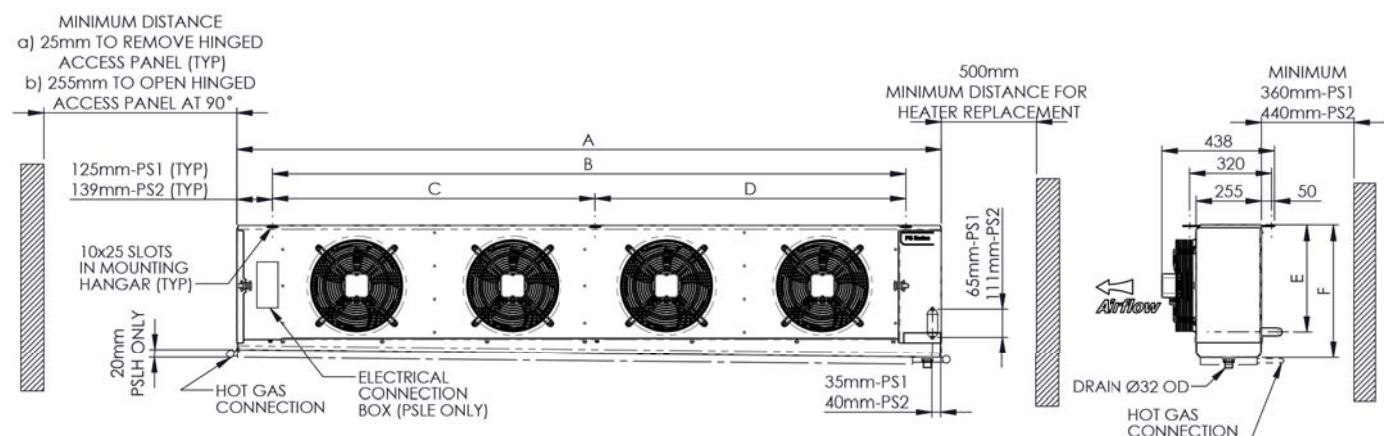
Capacity Correction Factors

FIN SERIES	4			5			6		
CAPACITY MULTIPLIER	0.82			0.91			1		
SUCTION TEMPERATURE	-40	-35	-30	-25	-24	-20	-15	-10	-5
CAPACITY MULTIPLIER	0.500	0.710	0.850	0.980	1.000	1.060	1.140	1.230	1.350

Product Specifications

PS#L* Series Evaporators - Low Temperature

- * **E** - Electric Defrost
- H** - Hot Gas Defrost
- G** - Glycol Defrost



Physical Data

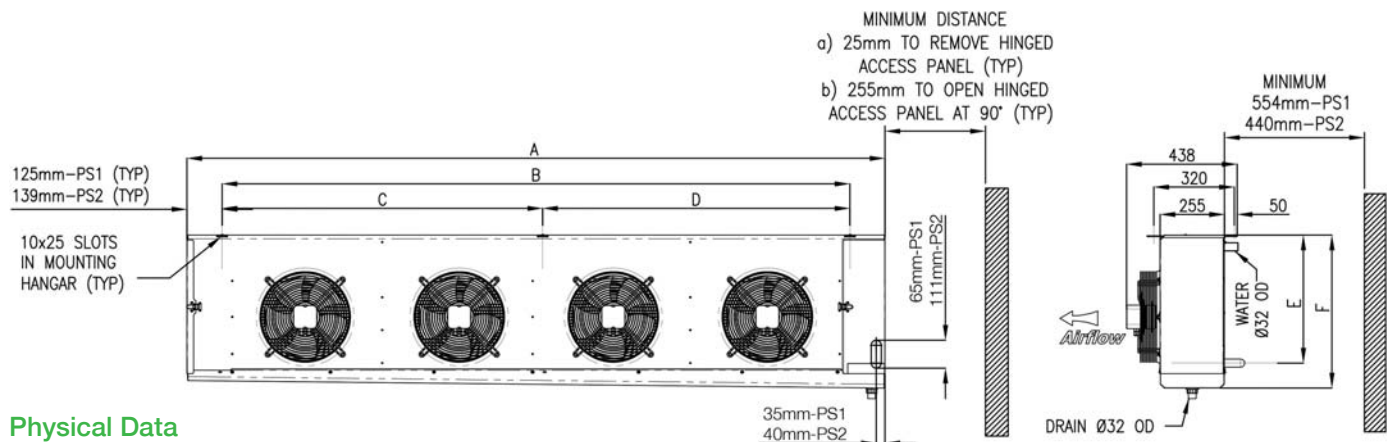
Physical Data - 300mm Diameter Fan Models

MODEL: PS1L*	016	025	033	041	051	056	069	075	083	099
Suction Connection (mm)	12.7	15.9	15.9	15.9	19.0	19.0	22.2	22.2	22.2	28.5
Distributor Connection (mm)	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
Ext Equaliser (mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Operating Refrigerant Charge (kg) Based on R404A	0.2	0.4	0.4	0.6	0.8	0.8	1.0	1.2	1.1	1.6
Dimensions (mm)										
A	671	671	1052	1052	1052	1433	1433	1433	1814	1814
B	425	425	806	806	806	1187	1187	1187	1568	1568
C & D	NOTE : Not Applicable									
**E	344	344	344	344	344	344	344	344	344	344
**F	440	440	440	440	440	440	440	440	440	440
Weight	Unpacked (kg)	15	18	24	25	29	35	38	40	44
	Packed (kg)	21	24	31	33	36	43	46	48	53

Physical Data - 350mm Diameter Fan Models

MODEL: PS2L*	086	100	105	123	136	158	168	191	203	233
Suction Connection (mm)	22.2	28.6	28.6	28.6	28.6	28.6	28.6	31.8	31.8	31.8
Distributor Connection (mm)	15.9	15.9	15.9	15.9	22.2	22.2	22.2	22.2	22.2	22.2
Ext Equaliser (mm)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Operating Refrigerant Charge (kg) Based on R404A	1.3	1.5	1.5	2.0	2.2	2.0	1.6	3.3	3.6	4.4
Dimensions (mm)										
A	1535	1535	2145	2145	2145	2754	2754	2754	3364	3364
B	1263	1263	1873	1873	1873	2482	2482	2482	3092	3092
C	-	-	-	-	-	1263	1263	1263	1873	1873
D	-	-	-	-	-	1219	1219	1219	1219	1219
**E	418	418	418	418	418	418	418	418	418	418
**F	516	516	516	516	516	516	516	516	516	516
Weight	Unpacked (kg)	43	46	56	62	66	73	80	87	94
	Packed (kg)	51	55	66	72	76	105	112	119	135

** = Only applicable to PS-LE & PS-LH. Note: All hot gas connections 22.2mm



Physical Data

Physical Data - 300mm Diameter Fan Models

MODEL: PS1LW		016	025	033	041	051	056	069	075	083	099
Suction Connection (mm)		12.7	15.9	15.9	15.9	19.0	19.0	22.2	22.2	22.2	28.5
Distributor Connection (mm)		15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9	15.9
Ext Equaliser (mm)		6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Defrost Water Connection/s (mm)		1 by 32	1 by 32	1 by 32	1 by 32	1 by 32	1 by 32	1 by 32	1 by 32	1 by 32	1 by 32
Drain Connection (mm)		51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
Maximum Defrost Water L/S*		0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
Operating Refrigerant Charge (kg) Based on R404A		0.2	0.4	0.4	0.6	0.8	0.8	1.0	1.2	1.1	1.6
Dimensions (mm)											
A		671	671	1052	1052	1052	1433	1433	1433	1814	1814
B		425	425	806	806	806	1187	1187	1187	1568	1568
C & D		NOTE : Not Applicable									
**E		449	449	449	449	449	449	449	449	449	449
**F		545	545	545	545	545	545	545	545	545	545
Weight	Unpacked (kg)	16	18.5	25.5	26.5	30.5	37.2	40.2	42.2	47	55
	Packed (kg)	22	24.5	32.5	34.5	37.5	45.2	48.2	51.2	56	65

Physical Data - 350mm Diameter Fan Models

MODEL: PS2LW		086	100	105	123	136	158	168	191	203	233
Suction Connection (mm)		22.2	28.6	28.6	28.6	28.6	28.6	28.6	31.8	31.8	31.8
Distributor Connection (mm)		15.9	15.9	15.9	15.9	22.2	22.2	22.2	22.2	22.2	22.2
Ext Equaliser (mm)		6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Defrost Water Connection/s (mm)		1 by 32	1 by 32	1 by 32	1 by 32	1 by 32	2 by 32	2 by 32	2 by 32	2 by 32	2 by 32
Drain Connection (mm)		51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.0
Maximum Defrost Water L/S*		1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
Operating Refrigerant Charge (kg) Based on R404A		1.3	1.5	1.5	2.0	2.2	2.0	1.6	3.3	3.6	4.4
Dimensions (mm)											
A		1535	1535	2145	2145	2145	2754	2754	2754	3364	3364
B		1263	1263	1873	1873	1873	2482	2482	2482	3092	3092
C		-	-	-	-	-	1263	1263	1263	1873	1873
D		-	-	-	-	-	1219	1219	1219	1219	1219
**E		523	523	523	523	523	523	523	523	523	523
**F		620	620	620	620	620	620	620	620	620	620
Weight	Unpacked (kg)	44	44	57.5	63.5	67.5	76	83	90	97.5	105.5
	Packed (kg)	52	53	67.5	73.5	77.5	108	115	122	138.5	146.5

* = For correct operation, water temperature should be within the following limits

Maximum Temperature = 30°C

Minimum Temperature = 4°C

Minimum Drain Pitch = 45mm per metre

PS E-Coating Coil Protection

Heat exchanger corrosion protection awareness has continually evolved in the Australian market over the past 10 years, with the previous standard bare aluminium fin and copper tube condensers slipping into a position of minority compared to treated coils. This trend is logically more prevalent on condenser coils as they are exposed to Australia's harsh coastal saline environment. Increasingly however, coil treatment on evaporators is coming into focus with end users seeking to guarantee highest life cycle cost effectiveness. A new fin protection e-Coat offers a real solution providing high resistance to corrosive environments.

E-Coat coil protection falls under a different category; it's a water based cathodic epoxy coating process which uses a PPG POWERCRON® 6000 series e-Coat formula. The specially chosen mixture is especially suited to application on heat exchange surfaces as it provides excellent edge cover. E-Coat is applied using an electro coating process which ensures 100% fin and tube coverage and maximum protection against corrosive environments. With a tight control over application thickness and low thermal resistance e-Coat offers solid heat exchange efficiency.

E-Coat is tested and verified as food safe for air exchange applications with direction for use in cool room applications. Laboratory and field trials also verifying its suitability to electric defrost applications being heat resistant to high heating elements.

E-Coat is applied using a proven multi-stage coating process which yields consistent coating results and a glossy smooth finish.

PS E-Coat models

PS1M	19	30	36	42	50	61	63	77	84	95
PS1L	16	25		33	41	51		56	69	75

E-Coat Coil



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Note: The ISO standard only applies to the BITZER NSW and VIC branches