

# PoleStar Smart-E Refrigeration Dryers

PSE 325 - 6000  
60Hz - UL Listed



Compressed air systems inherently suffer from performance and reliability issues, most of which can be directly attributed to water in one form or another. In fact, water accounts for up to 99.9% of the total liquid contamination found in a compressed air system. Therefore, an air treatment is essential for manufacturing facilities reliant on compressed air for automation.

For general purpose or non-critical use of compressed air, refrigeration dryers are an ideal choice. Refrigeration dryers utilize a closed loop cooling system to lower the temperature of the compressed air to just above freezing, causing condensation of water vapor.

Most of the condensed liquid is then removed by an integral water separator and drained away. Prior to leaving the dryer, the compressed air is re-heated by the incoming compressed air to prevent condensation on the outside of the downstream distribution piping.

Refrigeration dryers should always be installed with general purpose and high efficiency coalescing filters and are an effective way to reduce water vapor, liquid water and water aerosols for general purpose compressed air applications.

Parker's PoleStar Smart-E (PSE) dryers are the most environmentally friendly refrigeration dryers available. Designed to work with low Global Warming Potential (GWP) refrigerant, R513A, PSE complies with the requirements of the United States Environmental Protection Agency SNAP Rules 20 & 21 and European F-Gas Regulation (EU 517/2014). This makes Parker PSE the best choice to protect your investment, the climate and the environment.



## Advantages

- State-of-the art aluminum SmartPack heat exchanger includes a large air-to-air heat exchanger to pre-cool incoming compressed air and reduce energy consumption
- Efficient SmartPack HX, electronic hot-gas valve and innovative micro-channel condensers result in lower adsorbed power and about 40% less refrigerant versus additional solutions
- Low pressure drop design of the Smart-Pack HX and low absorbed power of the refrigerant circuit make PSE dryers a highly competitive solution with lower operating costs vs comparable dryers.
- Comprehensive electronic controllers, including touch screen panels on PSE700 and larger, provide indication of compressed air temperature, service reminder, data log, alarm history, integral capacitive drain control and much more.
- LED unit status indicator on model PSE1400 and larger.
- High and low pressure gauges for refrigerant circuit on models PSE700 and larger.
- Remote communication protocol, industry 4.0 ready, on all units; web server from model PSE700 and IoT ready from model PSE1400.
- Energy savings technology that enables all PSE dryers to save energy by cycling the refrigerant compressor off at partial load while maintaining a constant outlet dewpoint.
- Variable speed fans on PSE1400 and larger deliver additional cost savings at partial load and increased condensation stability.
- Compliant scroll refrigeration compressors offer longer life, lower noise and energy savings of up to 20% compared to piston alternatives.
- Inlet and outlet air connections installed on both sides of PSE2000 and larger allow for installation flexibility and simplify banking multiple units together.
- Low Global Warming Potential (GWP) refrigerant, R513A, used on all PSE units - protecting the environment.



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## Dryer Performance

Model	ISO 8573-1 Dewpoint	Design Inlet Pressure**		Design Inlet Temperature		Design Ambient Temperature	
		psi g	bar g	°F	°C	°F	°C
PSE 325-6000	Class 5*	100	7	100	100	100	38

\*ISO8573-1 Class 5 for Water means pressure dewpoint is equal to or less than 44.5°F (7°C) at design conditions.

\*\*Inlet pressure is with reference to 68°F (20°C), 14.5 psi a (1 bar a), 0% relative water vapor pressure.

## Technical Data

Dryer Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Connection Type	Noise Level
	psi g	bar g	psi g	bar g	°F	°C	°F	°C	°F	°C			dB(A)
PSE 325-1000 PSE 1400-6000	29	2	203	14	41	5	149	65	122	50	460V 3ph 60Hz	NPT FLG	<75

## Flow Rates

Model	Pipe Size	Inlet Flow Rate				Condenser Type	
		cfm	m3/min	m3/hr	L/s	Air Cooled	Water Cooled
PSE 325	2"	325	9.2	552	153	Standard	N/A
PSE 400	2"	400	11.3	680	189	Standard	N/A
PSE 500	2"	500	14.2	850	236	Standard	N/A
PSE 700	2 1/2"	700	19.8	1189	330	Standard	N/A
PSE 800	2 1/2"	800	22.7	1359	378	Standard	N/A
PSE 1000	2 1/2"	1000	28.3	1699	472	Standard	Optional
PSE 1400	4"	1400	39.6	2379	661	Standard	Optional
PSE 1600	4"	1600	45.3	2718	755	Standard	Optional
PSE 2000	6"	2000	56.6	3398	944	Standard	Optional
PSE 2400	6"	2400	68.0	4078	1133	Standard	Optional
PSE 3000	6"	3000	85.0	5097	1416	Standard	Optional
PSE 3800	6"	3800	107.6	6456	1793	Standard	Optional
PSE 5000	8"	5000	141.6	8495	2360	Standard	Optional
PSE 6000	8"	6000	169.9	10194	2832	Standard	Optional

Stated flows are for operation at 100 psi g (7 bar g) with reference to 68°F (20°C), 14.5 psi a (1 bar a), 0% relative water vapor pressure, 100°F (38°C) ambient air temperature and 100°F (38°C) air inlet temperature. **All models supplied with low GWP refrigerant R513A.**

For flows at other conditions, apply the correction factors shown below.

## Product Selection & Correction Factors

For correct operation, compressed air dryers must be sized using for the maximum (summer) inlet temperature, maximum (summer) ambient temperature, minimum inlet pressure, and maximum flow rate of the installation.

To select a dryer, first calculate the MDC (Minimum Drying Capacity) using the formula below then select a dryer from the flow rate table above with a flow rate equal to or above the MDC.

$$\text{Minimum Drying Capacity} = \text{System Flow} \times \text{CFIT} \times \text{CFAT} \times \text{CFMIP}$$

### CFIT - Correction Factor Maximum Inlet Temperature

Maximum Inlet Temperature	°F	80	85	90	95	100	110	120	130	140	149
	°C	26.7	29.4	32.2	35.0	37.8	43.3	48.9	54.4	60.0	65.0
Correction Factor	CFIT	0.64	0.68	0.77	0.87	1.00	1.28	1.62	2.24	2.50	2.81

### CFAT - Correction Factor Maximum Ambient Temperature

Maximum Ambient Temperature	°F	60	70	80	90	100	110	120	122
	°C	15.6	21.1	26.7	32.2	37.8	43.3	48.9	50.0
Correction Factor	CFIT	0.96	0.96	0.96	0.97	1.00	1.08	1.24	1.28

### CFMIP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	psi g	45	60	70	80	90	100	115	130	145	160	175	190	203
	bar g	3.1	4.1	4.8	5.5	6.2	7.0	7.9	9.0	10.0	11.0	12.1	13.1	14.0
Correction Factor	CFMIP	1.44	1.24	1.16	1.09	1.03	1.00	0.96	0.93	0.91	0.88	0.87	0.85	0.85

## Controller Features

PSE Model	Function									
	Touch Screen	Compr. Air Temp.	Fault Indication	Service Indication	Energy Saving Tech.	Alarm History	Data Log/Retrieve	Local Web Server	ModBus Protocol	IoT
325-500	N/A	✓	✓	✓	✓	✓	N/A	N/A	RTU RS485	N/A
700-1000	3.5"	✓	✓	✓	✓	✓	✓ Lan	✓	RTU RS485 TCP/IP RJ45	N/A
1400-6000	4.3"	✓	✓	✓	✓	✓	✓ Lan & USB	✓	RTU RS485 TCP/IP RJ45	✓

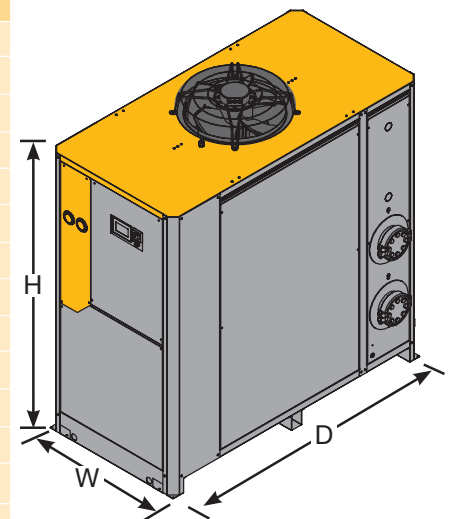
## Recommended Filtration

Model	Pipe Size BSP or NPT	Dryer Inlet	Dryer Outlet
		General Purpose Pre-Filter	High Efficiency Post Filter
PSE 325	2"	AOP040HNFI	AAP040HNFI
PSE 400	2"	AOP040HNFI	AAP040HNFI
PSE 500	2"	AOP045INFI	AAP045INFI
PSE 700	2 ½"	AOP045INFI	AAP045INFI
PSE 800	2 ½"	AOP050INFI	AAP050INFI
PSE 1000	2 ½"	AOP055INFI	AAP055INFI
PSE 1400	4"	Consult factory for fabricated flanged filter options.	
PSE 1600	4"		
PSE 2000	6"		
PSE 2400	6"		
PSE 3000	6"		
PSE 3800	6"		
PSE 5000	8"		
PSE 6000	8"		

Filtration Performance	General Purpose Pre-filter	High Efficiency Post Filter
<b>Filtration Grade</b>	Grade AO	Grade AA
<b>Filtration Type</b>	Coalescing	Coalescing
<b>Particle Reduction (inc water &amp; oil aerosols)</b>	Down to 1 micron	Down to 0.01 micron
<b>Maximum Remaining Oil Aerosol Content at 21°C</b>	≤0.5 mg/m <sup>3</sup> (≤0.5 ppm(w))	≤0.01 mg/m <sup>3</sup> (≤0.01 ppm(w))

## Weights & Dimensions

Model	Pipe Size	Dimensions						Weight	
		Height (H)		Width (W)		Depth (D)		lb	kg
		in	mm	in	mm	in	mm		
PSE 325	2"	53.7	1365	27.7	703	45.3	1150	452	205
PSE 400	2"	53.7	1365	27.7	703	45.3	1150	452	205
PSE 500	2"	53.7	1365	27.7	703	45.3	1150	463	210
PSE 700	2 ½"	55.5	1410	27.7	703	45.3	1150	573	260
PSE 800	2 ½"	55.5	1410	27.7	703	45.3	1150	578	262
PSE 1000	2 ½"	55.5	1410	27.7	703	45.3	1150	582	264
PSE 1400	4"	80.9	2055	38.3	973	50.7	1287	838	380
PSE 1600	4"	80.9	2055	38.3	973	50.7	1287	926	420
PSE 2000	6"	80.9	2055	47.4	1205	77.7	1974	1609	730
PSE 2400	6"	80.9	2055	47.4	1205	77.7	1974	1698	770
PSE 3000	6"	80.9	2055	47.4	1205	77.7	1974	1874	850
PSE 3800	6"	80.9	2055	47.4	1205	77.7	1974	1874	850
PSE 5000	8"	80.3	2040	59.7	1517	99.6	2529	2359	1070
PSE 6000	8"	80.3	2040	59.7	1517	99.6	2529	2668	1210



## Quality Assurance / IP Rating / Pressure Vessel Approvals

<b>Development / Manufacture</b>	ISO 9001 / ISO 14001
<b>Ingress Protection Rating</b>	Indoor Use Only; IP44 from PSE 325-500, IP54 from PSE 700-6000
<b>Electrical</b>	UL508A
<b>Pressure Vessel</b>	Approved for fluid group 2 in accordance with the Pressure Equipment Directive 2014/68/EU
<b>For use with Compressed Air Only</b>	

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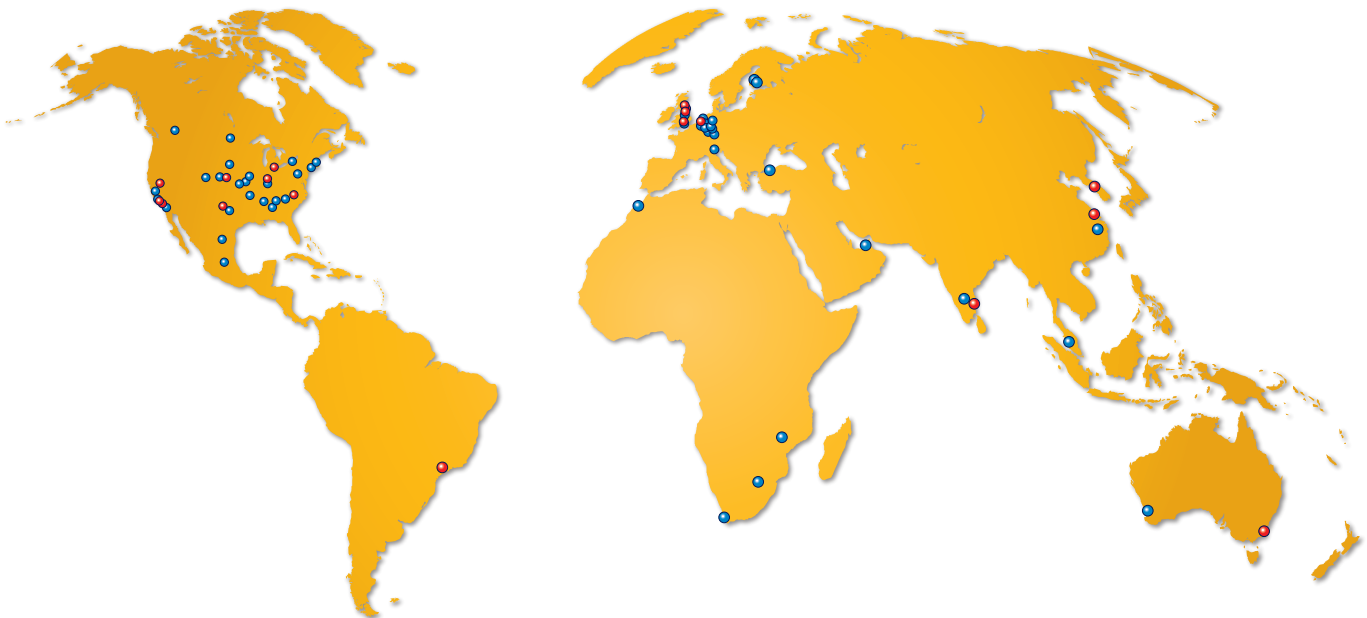
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# PoleStar Smart-E Refrigeration Dryers

PSE 120 - 1800



Untreated compressed air is wet. 100% saturated as it leaves the compressor after-cooler, water vapour in the compressed air cools as it enters the air receiver and distribution piping, resulting in the formation of condensed liquid water and water aerosols. Wet compressed air leads to corrosion, the growth of micro-organisms and the formation of oily, acidic compressor condensate.

For a manufacturing facility reliant on compressed air for automation, these contaminants can directly impact safety, productivity and efficiency.

Compressed air treatment is therefore essential and for non-critical uses of compressed air, the refrigeration dryer is an ideal choice.

## Refrigeration Dryers

Refrigeration dryers use a closed loop cooling system to lower the temperature of the compressed air to just above freezing, causing condensation of water vapour.

Most of the condensed liquid is then removed by an integral water separator and drained away. Prior to leaving the dryer, the compressed air is re-heated by the incoming compressed air to prevent condensation on the outside of the downstream distribution piping.

Refrigeration dryers should always be installed with general purpose and high efficiency coalescing filters and are an effective way to reduce water vapour, liquid water and water aerosols for general purpose compressed air applications.

Environmentally friendly Refrigeration Dryers, that work with Low GWP refrigerant in compliance with the requirements of the F-Gas Regulation (EU 517/2014), are the best choice to protect your investment, the climate and the environment.



## Advantages

- Parker PoleStar Smart-E refrigeration dryers are developed around a state-of-the-art aluminium heat exchanger (SmartPack), with a large air/air heat exchanger to pre-cool the incoming compressed air and reduce the energy consumption
- The highly efficient SmartPack design, the electronic controlled HGV and the innovative micro-channel condensers result in a refrigerant circuit with lower absorbed power and about -40% volume of refrigerant versus traditional solutions
- The low pressure drops of the SmartPack design and the low absorbed power of the refrigerant circuit, make PoleStar Smart-E a highly competitive solution with lower operating costs vs comparable dryers
- Electronic controllers, including touch screen versions from PSE 220, providing indication of compressed air temperature, volt free alarm contact, service reminder, data log, alarm history and integral capacitive drain control
- LED unit status indicator and HP / LP gauges on all models from PSE220
- Remote communication protocol, industry 4.0 ready, on all units; web server from model PSE220 and IoT ready from model PSE460
- The Energy Saving feature enables the dryers to save energy at partial load by cycling the refrigerant compressor while cooling the inlet air using the cold reserve stored in the SmartPack mass
- Variable speed fans from model PSE460, for more saving at partial load and increased condensation stability
- PoleStar Smart-E dryers utilise compliant scroll refrigeration compressors, offering longer life, lower noise and energy savings of up to 20% compared to piston alternatives
- All units designed for dual frequency 50/60Hz power supply. Installation flexibility thanks to reversible side of the inlet and outlet air connections on multi-cooler models (from PSE750)
- R513A refrigerant with Low GWP on all units, in line with the requirements of the F-Gas regulation, protects the environment and prevents from potential disruptions coming from refrigerants with higher GWP



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## Dryer Performance

Dryer Models	Dewpoint (Standard)		Dewpoint (Option 1)		Dewpoint (Option 2)	
	°C	°F	°C	°F	°C	°F
PSE	+3	+37	+7	+45	+10	+50

## Technical Data

Dryer Models	Min Operating Pressure		Max Operating Pressure		Min Operating Temperature		Max Operating Temperature		Max Ambient Temperature		Electrical Supply (Standard)	Electrical Supply (Optional)	Thread Connections	Noise Level
	bar g	psi g	bar g	psi g	°C	°F	°C	°F	°C	°F				dB(A)
PSE 120 - 1800	2	29	14	203	5	41	65	149	50	122	400V 3ph 50Hz / 460V 3ph 60Hz	N/A	BSPP & DIN Flange	<75

## Flow Rates

Model	Pipe Size	Inlet Flow Rate at 50Hz				Absorbed Power at 50Hz kW	Inlet Flow Rate at 60Hz				Absorbed Power at 60Hz kW
		L/s	m³/min	m³/hr	cfm		L/s	m³/min	m³/hr	cfm	
PSE 120	2"	200	12	720	424	1.32	215	13	773	455	1.7
PSE 140	2"	233	14	840	494	1.32	252	15	907	534	1.7
PSE 180	2"	300	18	1080	636	1.51	323	19	1163	685	1.9
PSE 220	2 ½"	367	22	1320	777	1.79	399	24	1435	845	2.2
PSE 260	2 ½"	433	26	1560	918	2.05	474	28	1708	1005	2.5
PSE 300	2 ½"	500	30	1800	1059	2.62	539	32	1941	1142	3.3
PSE 350	2 ½"	583	35	2100	1236	3.22	624	37	2247	1323	4.0
PSE 460	DN100	767	46	2760	1625	3.22	835	50	3005	1769	3.9
PSE 520	DN100	867	52	3120	1836	4.55	941	56	3386	1993	5.6
PSE 630	DN100	1050	63	3780	2225	4.55	1172	70	4219	2483	5.6
PSE 750	DN150	1250	75	4500	2649	6.52	1381	83	4970	2925	8.0
PSE 900	DN150	1500	90	5400	3178	9.05	1655	99	5957	3506	11.0
PSE 1200	DN150	2000	120	7200	4238	9.05	2210	133	7956	4683	11.0
PSE 1500	DN200	2500	150	9000	5297	11.15	2760	166	9935	5848	13.6
PSE 1800	DN200	3000	180	10800	6357	13.45	3281	197	11812	6952	16.4

Stated flows are for operation at 7 bar (g) (102 psi g) with reference to 20°C, 1 bar (a), 0% relative water vapour pressure, 25 °C cooling air temperature, 35 °C air inlet temperature and +3°C pressure dewpoint. All models supplied with low GWP refrigerant R513A.

For flows at other conditions, apply the correction factors shown below.

## Product Selection & Correction Factors

For correct operation, compressed air dryers must be sized using for the maximum (summer) inlet temperature, maximum (summer) ambient temperature, minimum inlet pressure, required outlet dewpoint and maximum flow rate of the installation.

To select a dryer, first calculate the MDC (Minimum Drying Capacity) using the formula below then select a dryer from the flow rate table above with a flow rate equal to or above the MDC.

$$\text{Minimum Drying Capacity} = \text{System Flow} \times \text{CFIT} \times \text{CFAT} \times \text{CFMIP} \times \text{CFOD}$$

### CFIT - Correction Factor Maximum Inlet Temperature

Maximum Inlet Temperature	°C	30	35	40	45	50	55	60	65
	°F	86	95	104	113	122	131	140	149
Correction Factor - 50Hz & 60Hz		0.81	1.00	1.23	1.49	1.82	2.44	2.63	2.94

### CFAT - Correction Factor Maximum Ambient Temperature

Maximum Ambient Temperature	°C	20	25	30	35	40	45	50
	°F	68	77	86	95	104	113	122
Correction Factor - 50Hz & 60Hz		0.97	1.00	1.04	1.08	1.14	1.22	1.39

### CFMIP - Correction Factor Minimum Inlet Pressure

Minimum Inlet Pressure	bar g	3	4	5	6	7	8	9	10	11	12	13	14
	psi g	44	58	73	87	100	116	131	145	160	174	189	203
Correction Factor - 50Hz & 60Hz		1.45	1.25	1.14	1.04	1.00	0.96	0.93	0.91	0.88	0.87	0.85	0.85

### CFOD - Correction Factor Outlet Dewpoint

Outlet Dewpoint	°C	+3	+5	+7	+10
	°F	+37	+41	+45	+50
Correction Factor - 50Hz & 60Hz		1.00	0.90	0.81	0.69

## Controllers' Main Functions

PSE Model	Function									
	Touch Screen	Compr. Air Temp.	Fault indication	Service Indication	Energy Saving Tech.	Alarm history	Data Log/ retrieve	Local Web Server	ModBus protocol	IoT
120-180	-	•	•	•	•	•	-	-	RTU RS485	opt.
220-350	3,5"	•	•	•	•	•	• Lan	•	RTU RS485 TCP/IP RJ45	opt.
460-1800	4,3"	•	•	•	•	•	• Lan & USB	•	RTU RS485 TCP/IP RJ45	•

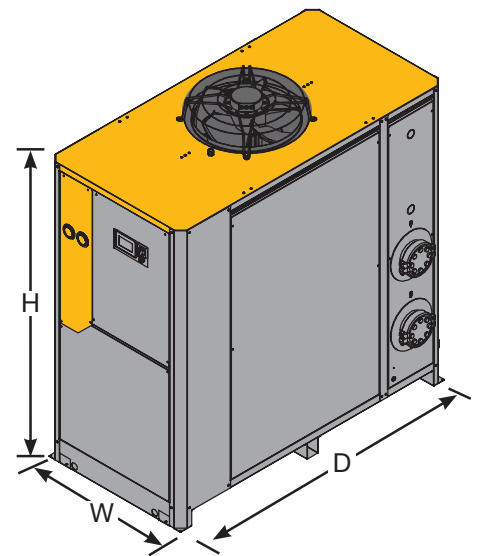
## Recommended Filtration

Model	Pipe Size BSPP or NPT	Dryer Inlet	Dryer Outlet
		General Purpose Pre-Filter	High Efficiency Post Filter
PSE 120	2"	AOP040H	AAP040H
PSE 140	2"	AOP040H	AAP040H
PSE 180	2"	AOP045I	AAP045I
PSE 220	2 ½"	AOP050I	AAP050I
PSE 260	2 ½"	AOP055I	AAP055I
PSE 300	2 ½"	AOP055I	AAP055I
PSE 350	2 ½"	AOP055I	AAP055I
PSE 460	DN100	AO070O	AA070O
PSE 520	DN100	AO070O	AA070O
PSE 630	DN100	AO070O	AA070O
PSE 750	DN150	AO075P	AA075P
PSE 900	DN150	AO075P	AA075P
PSE 1200	DN150	AO080P	AA080P
PSE 1500	DN200	AO085Q	AA085Q
PSE 1800	DN200	AO085Q	AA085Q

Filtration Performance	General Purpose Pre-filter	High Efficiency Post Filter
<b>Filtration Grade</b>	Grade AO	Grade AA
<b>Filtration Type</b>	Coalescing	Coalescing
<b>Particle Reduction (inc water &amp; oil aerosols)</b>	Down to 1 micron	Down to 0.01 micron
<b>Maximum Remaining Oil Aerosol Content at 21°C</b>	≤0.5 mg/m <sup>3</sup> (≤0.5 ppm(w))	≤0.01 mg/m <sup>3</sup> (≤0.01 ppm(w))
<b>Filtration Efficiency</b>	99.925%	99.9999%

## Weights & Dimensions

Model	Pipe Size BSPP or NPT	Dimensions						Weight	
		Height (H)		Width (W)		Depth (D)			
		mm	ins	mm	ins	mm	ins	kg	lbs
PSE 120	2"	1365	53.7	703	27.7	1150	45.3	145 <sup>(*)</sup>	320 <sup>(*)</sup>
PSE 140	2"	1365	53.7	703	27.7	1150	45.3	145 <sup>(*)</sup>	320 <sup>(*)</sup>
PSE 180	2"	1365	53.7	703	27.7	1150	45.3	155 <sup>(*)</sup>	342 <sup>(*)</sup>
PSE 220	2 ½"	1410	55.5	703	27.7	1151	45.3	230 <sup>(*)</sup>	507 <sup>(*)</sup>
PSE 260	2 ½"	1410	55.5	703	27.7	1151	45.3	240 <sup>(*)</sup>	529 <sup>(*)</sup>
PSE 300	2 ½"	1410	55.5	703	27.7	1151	45.3	245 <sup>(*)</sup>	540 <sup>(*)</sup>
PSE 350	2 ½"	1410	55.5	703	27.7	1151	45.3	250 <sup>(*)</sup>	551 <sup>(*)</sup>
PSE 460	DN100	2055	80.9	973	38.3	1287	50.7	380 <sup>(*)</sup>	838 <sup>(*)</sup>
PSE 520	DN100	2055	80.9	973	38.3	1287	50.7	490 <sup>(*)</sup>	1080 <sup>(*)</sup>
PSE 630	DN100	2055	80.9	973	38.3	1287	50.7	580 <sup>(*)</sup>	1279 <sup>(*)</sup>
PSE 750	DN150	2055	80.9	1205	47.4	1974	77.7	670 <sup>(*)</sup>	1477 <sup>(*)</sup>
PSE 900	DN150	2055	80.9	1205	47.4	1974	77.7	690 <sup>(*)</sup>	1521 <sup>(*)</sup>
PSE 1200	DN150	2055	80.9	1205	47.4	1974	77.7	830 <sup>(*)</sup>	1830 <sup>(*)</sup>
PSE 1500	DN200	2040	80.3	1517	59.7	2529	99.6	1000 <sup>(*)</sup>	2205 <sup>(*)</sup>
PSE 1800	DN200	2040	80.3	1517	59.7	2529	99.6	1190 <sup>(*)</sup>	2623 <sup>(*)</sup>



(\*) to be confirmed

## Quality Assurance / IP Rating / Pressure Vessel Approvals

<b>Development / Manufacture</b>	ISO 9001 / ISO 14001
<b>Ingress Protection Rating</b>	Indoor Use Only; IP44 from PSE120 to PSE180, IP54 from PSE220 to PSE1800
<b>EU</b>	Pressure vessel approved for fluid group 2 in accordance with the Pressure Equipment Directive 2014/68/EU
<b>For use with Compressed Air Only</b>	

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### US Product Information Centre

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