

**Heatless Desiccant Air Dryer – PTW Series**

Parker PTW Series Heatless Desiccant Air Dryers remove water vapor from compresses air through a process known as pressure swing adsorption. Pressure dewpoints ranging from -40°F (-40°C) to -100°F (-70°C) are attained by directing the flow of saturated compressed air over a bed of desiccant.

**Features**

- Pre-filter and after filters included with dryers
- Solid state controller
- CycleLoc™ demand control
- Variable cycle control (models PTW75 - PTW800 SCFM)
- Purge Flow indicator
- Purge flow regulator (models PTW75 - PTW800 SCFM)
- Repressurization circuit (models PTW75 - PTW800 SCFM)
- Control air filter (models PTW75 - PTW800 SCFM)
- Safety valves
- Pressure equalization
- 150 PSIG design standard
- Moisture indicator (models PTW75 - PTW800 SCFM)

**Options**

- DDS Light / DDS (dewpoint dependent switching)



**Operating information**

Inlet or ambient air temperature:	120°F (49°C) maximum
Operating pressure:	50 PSIG (3.5 bar) minimum
Working pressure:	150 PSIG (10.5 bar) maximum
Pressure drop at rated flow:	less than 5 PSI (0.34 bar)

For technical information see CD

**Heatless Desiccant Air Dryers**

Capacity SCFM @ 100 PSIG (Nm <sup>3</sup> /min @ 6.9 bar)	Approximate purge SCFM (Nm <sup>3</sup> /min)	Primary voltage	Part number	Port size	Filtration package included with dryer		
					Pre-filter (5µ)	Pre-filter (.01µ)	After-filter (1µ)
25 (.70)	4 (.11)	• 120V/1ph/60Hz	<b>PTW25*</b>	1/2	<b>P32FA94FSAN</b>	<b>P32FA94DSAN</b>	<b>P32FA94QSAN</b>
42 (1.19)	6 (.19)	• 120V/1ph/60Hz	<b>PTW40*</b>	1/2	<b>P33FA94FSAN</b>	<b>P33FA94DSAN</b>	<b>P33FA94QSAN</b>
60 (1.70)	9 (.25)	• 120V/1ph/60Hz	<b>PTW55*</b>	3/4	<b>P33FA94FSAN</b>	<b>P33FA94DSAN</b>	<b>P33FA94QSAN</b>
75 (2.13)	11 (.31)	• 120V/1ph/60Hz	<b>PTW75*</b>	3/4	<b>P3NFA96FSA</b>	<b>P3NFA96DSA</b>	<b>P3NFA96QSA</b>
107 (3.03)	16 (.45)	• 120V/1ph/60Hz	<b>PTW100*</b>	1	<b>P3NFA98FSA</b>	<b>P3NFA98DSA</b>	<b>P3NFA98QSA</b>
135 (3.82)	20 (.56)	• 120V/1ph/60Hz	<b>PTW130*</b>	1	<b>P3NFA98FSA</b>	<b>P3NFA98DSA</b>	<b>P3NFA98QSA</b>
200 (5.66)	30 (.84)	• 120V/1ph/60Hz	<b>PTW200*</b>	1-1/2	<b>35F77BAP</b>	<b>35F77EAP</b>	<b>35F77HAP</b>
250 (7.07)	38 (1.07)	• 120V/1ph/60Hz	<b>PTW250*</b>	1/1/2	<b>35F77BAP</b>	<b>35F77EAP</b>	<b>35F77HAP</b>
300 (8.49)	45 (1.27)	• 120V/1ph/60Hz	<b>PTW300*</b>	1-1/2	<b>35F77BAP</b>	<b>35F77EAP</b>	<b>35F77HAP</b>
400 (11.32)	60 (1.69)	• 120V/1ph/60Hz	<b>PTW400*</b>	2	<b>35F87BAP</b>	<b>35F87EAP</b>	<b>35F87HAP</b>
500 (14.44)	77 (2.18)	• 120V/1ph/60Hz	<b>PTW500*</b>	2	<b>35F87BAP</b>	<b>35F87EAP</b>	<b>35F87HAP</b>
600 (18.40)	98 (2.77)	• 120V/1ph/60Hz	<b>PTW600*</b>	2	<b>35F87BAP</b>	<b>35F87EAP</b>	<b>35F87HAP</b>
800 (22.65)	120 (3.39)	• 120V/1ph/60Hz	<b>PTW800*</b>	2	<b>35F87BAP</b>	<b>35F87EAP</b>	<b>35F87HAP</b>

\* Options: Dewpoint dependent switching (DDS).

DDS Light includes: energy saving purge cycle control with high humidity alarm and indicator light. When ordering use -DL as suffix.

DDS includes: energy saving purge cycle control with high humidity alarm and digital dewpoint display. When ordering use -DS as suffix

Most popular.



**Flow correction factors**

Capacities are based upon:

- Pressure drop at rated flow less than 5 PSI (0.34 bar)
- Maximum inlet air or ambient air temperature 120°F (49°C)
- Maximum working pressure: 150 PSIG (10.5 bar g) standard units for high maximum working pressure are available
- Minimum operating pressure: 50 PSIG (3.5 bar g)

**Inlet air pressure correction**

PSI	50	60	70	80	90	100	110	120	130	140	150
bar	3.5	4.1	4.9	5.5	6.2	6.9	7.6	8.3	9.0	9.7	10.3
Factor	.56	.65	.74	.83	.91	1.00	1.09	1.18	1.27	1.37	1.43

**Inlet air temperature correction**

°F	90	95	100	105	110	115	120
°C	32	35	38	41	43	46	49
Factor	1.35	1.16	1.00	.85	.74	.64	.56

**Heatless Desiccant Air Dryers**

	A (length)	B (width)	C (height)	Weight lbs. (kg)	Part number
<b>PTW series</b>	19 (483)	16 (406)	64 (1626)	156 (71)	<b>PTW25*</b>
	21 (533)	17 (432)	48 (1219)	190 (86)	<b>PTW40*</b>
	21 (533)	20 (508)	67 (1702)	230 (104)	<b>PTW55*</b>
	35 (889)	27 (686)	80 (2032)	384 (174)	<b>PTW75*</b>
	35 (889)	27 (686)	80 (2032)	468 (212)	<b>PTW100*</b>
	35 (899)	21 (533)	70 (1778)	496 (225)	<b>PTW130*</b>
	44 (1118)	28 (711)	78 (1981)	692 (314)	<b>PTW200*</b>
	44 (1118)	30 (762)	78 (1981)	776 (352)	<b>PTW250*</b>
	44 (1118)	30 (762)	78 (1981)	796 (361)	<b>PTW300*</b>
	74 (1880)	41 (1041)	84 (2134)	1626 (738)	<b>PTW400*</b>
	74 (1880)	41 (1041)	85 (2159)	1735 (787)	<b>PTW500*</b>
	74 (1880)	41 (1041)	86 (2184)	1740 (789)	<b>PTW600*</b>
	74 (1880)	41 (1041)	91 (2311)	2120 (962)	<b>PTW800*</b>

Inch (mm)

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**Service kits**

**Element kits**

	5µ	0.01µ	1.0µ
<b>P32</b>	<b>P32KA00ESE</b>	<b>P32KA00ESC</b>	<b>P32KA00ES9</b>
<b>P33</b>	<b>P33KA00ESE</b>	<b>P33KA00ESC</b>	<b>P33KA00ES9</b>
<b>P3NF</b>	<b>P3NKA00ESE</b>	<b>P3NKA00ESCB</b>	<b>P3KNA00ES9</b>
<b>35F</b>	<b>FRP-95-505</b>	<b>MTP-95-502</b>	<b>MSP-95-502</b>

Most popular.

