

Heatless Desiccant Air Dryer – PTW Series

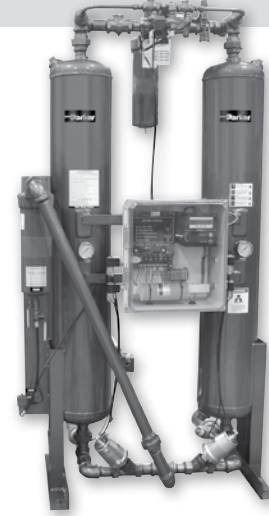
Parker PTW Series Heatless Desiccant Air Dryers remove water vapor from compressed air through a process known as pressure swing adsorption. Pressure dewpoints ranging from -40°F (-40°C) standard to -100°F (-70°C) optional are attained by directing the flow of saturated compressed air over a bed of desiccant.

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)

Heatless Desiccant Air Dryers

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

* 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

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Dryer Products

Heatless Desiccant Air Dryers

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

Inch (mm)

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Service kits

Element kits

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

Most popular.

