

PPD Series Portable Desiccant Compressed Air Dryers

PPD 0500 - 3000

Operating Pressures Up to 150 psig



Compressed air is generated on-site. Consequently, the quality of the compressed air and cost of producing it are the responsibility of the end user. To achieve maximum performance, the best compressed air quality is required.

The challenge with compressed air systems is that they inherently suffer from performance and reliability issues. Almost all the problems associated with the compressed air system and subsequent product related quality issues can be directly attributed to compressed air contamination.

Compressed air contaminants, derived from the atmospheric air, the air compressor, air storage tanks and the distribution piping, can be categorized into three main groups: particulates, water and oil. Effectively removing or reducing these contaminants down to acceptable levels requires a combination of compressed air filtration and dehumidification equipment.

Parker's PPD Series of Portable Desiccant Compressed Air Dryers are comprehensive compressed air treatment systems each equipped with multiple stages of filtration and a twin tower adsorption dryer for compressed air dehumidification. Packaged on portable, heavy-duty skid these highly engineered systems ensure high quality compressed air in accordance with ISO8573-1, the international standard for compressed air quality.



Advantages:

- Comprehensive system design with two coalescing pre-filters, desiccant dryer and dry particulate after-filter ensures clean, dry air in accordance with ISO8573-1.
- Optional integrated air-cooled aftercooler with water separator package cools compressed air down to within 15°F of ambient temperature and removes bulk liquids.
- Industry leading Allen Bradley® programmable logic controller (PLC) installed in a NEMA 4X enclosure.
- Optional Advanced Allen Bradley® PLC includes dewpoint sensor, digital dewpoint display and communication via Modbus RS485 and ethernet.
- Heavy duty, druggable skid with lifting lugs and fork holes result in ease of transportation.
- Selectable cycle modes deliver a continuous dewpoint of -40°F with Standard Cycle or dewpoints as low as -100°F with Short Cycle.



ENGINEERING YOUR SUCCESS.

HOW TO ORDER

Series	+	Flow Rate (scfm)	+	Controller Type	+	Pre-Treatment Options	=	Example
PPD		500		B Basic PLC		N No aftercooler package		PPD1600RA
		1000		R Advanced PLC		A Integrated aftercooler package & water separator		
		1600						
		3000						

PRODUCT SPECIFICATIONS

Model	Flowrate ^{1,2}		Standard Pressure Dewpoint ⁵		Air In/Out	Power Supply	Protection Class	Dryer FLA
	cfm	m3/hr	°F	°C				
PPD500*N	500	847	-40	-40	2" BOSS/NPT/FLG	120V - 1Ph 50-60Hz	NEMA 4	2
PPD500*A	500	847	-40	-40	2" BOSS/NPT/FLG			
PPD1000*N	1000	1695	-40	-40	3" BOSS/NPT/FLG			
PPD1000*A	1000	1695	-40	-40	3" BOSS/NPT/FLG			
PPD1600*N	1600	2712	-40	-40	3" BOSS/NPT/FLG			
PPD1600*A	1600	2712	-40	-40	3" BOSS/NPT/FLG			
PPD3000*N	3000	5085	-40	-40	(2) 3" BOSS/NPT (1) 4" FLG			

Model	Min. Operating Pressure		Max. Operating Pressure		Max. Inlet Temperature		Min. Ambient Temperature ⁴		Max. Ambient Temperature	
	psi g	bar g	psi g	bar g	°F	°C	°F	°C	°F	°C
PPD500-3000 Without Aftercooler	80	5.5	150	10.3	120	49	40	4	120	49
PPD500-1600 With Aftercooler					250	121			105	41

Notes:

- Flow rate for PPD dryers WITHOUT aftercooler option models based on 100°F inlet, 100 psig inlet and 100°F ambient.
- Flow rate for PPD dryers WITH aftercooler option models based on 250°F inlet, 100 psig inlet and 85°F ambient.
- Designs for other flow rates, pressure and temperatures are available. Consult factory for additional information.
- Proper freeze protection must be added to equipment operating in temperatures below 40°F. Consult factory for options.
- PPD dryers come factory set for -40°F dewpoint as standard. Adjusting purge pressure and operating in Short Cycle Mode allow for dewpoints as low as -100°F. Consult factory or user manual for details.

WEIGHTS AND DIMENSION

Model	Height		Width		Depth		Weight	
	in	mm	in	mm	in	mm	lb	kg
PPD500*N	89.8	2281	53.9	1368	64.5	1638	2125	964
PPD500*A	89.8	2281	53.9	1368	64.5	1638	2325	1055
PPD1000*N	92.3	2343	70	1778	84.5	2146	3450	1565
PPD1000*A	92.3	2343	70	1778	84.5	2146	4000	1814
PPD1600*N	100.2	2545	84	2134	90.5	2299	5500	2495
PPD1600*A	100.2	2545	84	2134	90.5	2299	6200	2812
PPD3000*N	96.8	2459	98	2489	98	2489	10150	4604

Notes:

- Weights and dimensions shown for all PPD models are approximate. Parker reserves the right to make changes without notification. Consult factory for general arrangement drawings.

