



**PDRD10 - PDRD250**

- “Plug & Play” design for easy installation and operation (PDRD10 - PDRD125)
- Small space saving design
- Oversized demister separator resulting in excellent liquid removal over all operating conditions
- Low pressure differential across the dryer (1.45 PSIG average)
- Oversized condenser to operate in ambients to 122°F (50°C)
- All models incorporate a dewpoint indicator

**PDRD325 - PDRD2400**

- Optimum dewpoint levels for highest system performance
- Advanced patented design solutions
- High reliability, easy to use and maintain
- Unique 4-in-1 SmartPack heat exchanger
- Integral drain
- Extremely low pressure drop design
- SmartControl energy saving function
- Excellent dewpoint performances
- Advanced compliant scroll compressor

**PDRD Series**

Nominal flow				Recommended filtration			
SCFM	Nm³/hr	Primary voltage	Part number	Pipe size	Bulk separator	Pre-filter (5µ particulate)*	Post-filter (.01µ coalescing)
10	17	115V/1ph/60Hz	<b>PDRD10-115160</b>	1/2" NPT-F	<b>P3TFA94WCAN</b>	<b>P32FA94ESAN</b>	<b>P32FA94DSAN</b>
15	26	115V/1ph/60Hz	<b>PDRD15-115160</b>	1/2" NPT-F	<b>P3TFA94WCAN</b>	<b>P32FA94ESAN</b>	<b>P32FA94DSAN</b>
25	43	115V/1ph/60Hz	<b>PDRD25-115160</b>	1/2" NPT-F	<b>P3TFA94WCAN</b>	<b>P32FA94ESAN</b>	<b>P32FA94DSAN</b>
35	60	115V/1ph/60Hz	<b>PDRD35-115160</b>	1/2" NPT-F	<b>P3TFA94WCAN</b>	<b>P32FA94ESAN</b>	<b>P32FA94DSAN</b>
50	85	115V/1ph/60Hz	<b>PDRD50-115160</b>	3/4" NPT-F	<b>P3TFA96WDAN</b>	<b>P33FA96ESAN</b>	<b>P33FA96DSAN</b>
75	127	115V/1ph/60Hz	<b>PDRD75-115160</b>	3/4" NPT-F	<b>P3TFA96WDAN</b>	<b>P33FA96ESAN</b>	<b>P33FA96DSAN</b>
100	170	115V/1ph/60Hz	<b>PDRD100-115160</b>	3/4" NPT-F	<b>P3TFA96WDAN</b>	<b>P3NFA96ESA</b>	<b>P3NFA96DSA</b>
125	212	115V/1ph/60Hz & 230V/1ph/60Hz	<b>PDRD125-115160</b> <b>PDRD125-230160</b>	1-1/2" NPT-F	<b>P3TFA9BWGAN</b>	<b>P3NFA9PESA</b>	<b>P3NFA9PDSA</b>
150	255	115V/1ph/60Hz & 230V/1ph/60Hz	<b>PDRD150-115160</b> <b>PDRD150-230160</b>	1-1/2" NPT-F	<b>P3TFA9BWGAN</b>	<b>P3NFA9PESA</b>	<b>P3NFA9PDSA</b>
175	297	115V/1ph/60Hz	<b>PDRD175-230160</b>	1-1/2" NPT-F	<b>P3TFA9BWGAN</b>	<b>35F77BAP</b>	<b>35F77EAP</b>
200	425	230V/1ph/60Hz	<b>PDRD200-230160</b>	1-1/2" NPT-F	<b>P3TFA9BWGAN</b>	<b>35F77BAP</b>	<b>35F77EAP</b>
250	425	230V/3ph/60Hz & 460V/3ph/60Hz	<b>PDRD250-230360</b> <b>PDRD250-460360</b>	1-1/2" NPT-F	<b>P3TFA9BWGAN</b>	<b>35F77BAP</b>	<b>35F77EAP</b>
325	552	230V/3ph/60Hz & 460V/3ph/60Hz	<b>PDRD325-230360</b> <b>PDRD325-460360</b>	2" NPT-F	<b>P3TFA9CWHAN</b>	<b>35F87BAP</b>	<b>35F87EAP</b>
400	680	230V/3ph/60Hz & 460V/3ph/60Hz	<b>PDRD400-230360</b> <b>PDRD400-460360</b>	2" NPT-F	<b>P3TFA9CWHAN</b>	<b>35F87BAP</b>	<b>35F87EAP</b>
500	849	230V/3ph/60Hz & 460V/3ph/60Hz	<b>PDRD500-230360</b> <b>PDRD500-460360</b>	2" NPT-F	<b>P3TFA9CWHAN</b>	<b>35F87BAP</b>	<b>35F87EAP</b>
700	1189	230V/3ph/60Hz & 460V/3ph/60Hz	<b>PDRD700-230360</b> <b>PDRD700-460360</b>	3" NPT-M	<b>P3TFA9EWKAN</b>	<b>43FN7BAP</b>	<b>43FN7EAP</b>
800	1359	230V/3ph/60Hz & 460V/3ph/60Hz	<b>PDRD800-230360</b> <b>PDRD800-460360</b>	3" NPT-M	<b>P3TFA9EWKAN</b>	<b>43FN7BAP</b>	<b>43FN7EAP</b>
1000	1700	460V/3ph/60Hz	<b>PDRD1000-460360</b>	3" NPT-M	<b>P3TFA9EWKAN</b>	<b>43FN7BAP</b>	<b>43FN7EAP</b>
1200	2039	460V/3ph/60Hz	<b>PDRD1200-460360</b>	3" NPT-M	<b>P3TFA9EWKAN</b>	<b>43FN7BAP</b>	<b>43FN7EAP</b>
1600	2718	460V/3ph/60Hz	<b>PDRD1600-460360</b>	4" Flg.	<b>P3TFAFFW2AN</b>	<b>P3TFAFFQ2AN*</b>	<b>P3TFAFFD2AN</b>
2000	3400	460V/3ph/60Hz	<b>PDRD2000-460360</b>	6" Flg.	<b>P3TFAFGW3AN</b>	<b>P3TFAFGQ3AN*</b>	<b>P3TFAFGD3AN</b>
2400	4078	460V/3ph/60Hz	<b>PDRD2400-460360</b>	6" Flg.	<b>P3TFAFGW3AN</b>	<b>P3TFAFGQ3AN*</b>	<b>P3TFAFGD3AN</b>

Most popular.

\* 1µ coalescing



**Operating information**

		PDRD10-PDRD175	PDRD200-PDRD250	PDRD325-PDRD2400
Temperature:	Ambient (maximum)	122°F (50°C)	122°F (50°C)	122°F (50°C)
	Ambient (minimum)	41°F (5°C)	41°F (5°C)	41°F (5°C)
	Inlet (maximum)	149°F (65°C)	140°F (60°C)	140°F (60°C)
Pressure (maximum):		232 PSIG (16 bar)	203 PSIG (14 bar)	203 PSIG (14 bar)
Refrigerant:		R134a	R407C	R407C

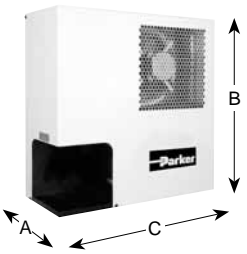
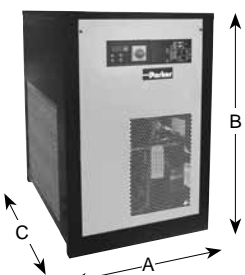
For technical information see CD

**Flow correction factors** Capacities are based upon:  
 Ambient temperature - 100°F (38°C); inlet temperature - 100°F (38°C);  
 and working pressure - 100 PSIG (7 bar g).

To obtain dryer capacity at new conditions, multiply nominal capacity x C1 x C2 x C3

		PDRD10 - PDRD175							PDRD200 - PDRD250							PDRD325 - PDRD2400																	
<b>Ambient temperature (C1)</b>																																	
°F		60	70	80	89	100	110	120											70	80	90	100	110	120	122	90	100	110	120	122			
°C		16	21	27	32	38	43	49											21	27	32	38	43	49	50	32	38	43	49	50			
Factor		1.34	1.26	1.17	1.09	1.00	0.91	0.82											1.22	1.15	1.05	1.00	0.94	0.79	0.71	1.05	1.00	0.94	0.79	0.71			
<b>Inlet temperature (C2)</b>																																	
°F		90	100	110	120	140	149											90	100	110	120	130	140										
°C		32	38	43	49	60	65											32	38	43	49	54	60										
Factor		1.24	1.00	0.81	0.67	0.45	0.43											1.24	1.00	0.82	0.68	0.56	0.40										
<b>Inlet pressure (C3)</b>																																	
PSIG		60	80	100	125	150	175	200	230	50	80	100	125	150	174	203	50	80	100	125	150	174	203										
bar		4	6	7	9	10	12	14	16	3	6	7	9	10	12	14	3	6	7	9	10	12	14										
Factor		0.83	0.93	1.00	1.07	1.12	1.16	1.19	1.22	0.77	0.93	1.00	1.07	1.12	1.15	1.18	0.77	0.93	1.00	1.07	1.12	1.15	1.18										

**Dimensions**

	Model number	A	B	C	Weight (kg)
	<b>PDRD10-PDRD250</b>				
	<b>PDRD10</b>	8.3 (210)	17 (430)	17.7 (450)	42 (19)
	<b>PDRD15</b>	8.3 (210)	17 (430)	17.7 (450)	42 (19)
	<b>PDRD25</b>	8.3 (210)	19.9 (505)	19.7 (500)	52 (24)
	<b>PDRD35</b>	8.3 (210)	19.9 (505)	19.7 (500)	52 (24)
	<b>PDRD50</b>	8.9 (225)	22.3 (565)	20.5 (520)	58 (27)
	<b>PDRD75</b>	8.9 (225)	22.3 (565)	20.5 (520)	68 (31)
	<b>PDRD100</b>	8.9 (225)	22.3 (565)	20.5 (520)	77 (35)
	<b>PDRD125</b>	16.7 (425)	23.8 (605)	21.8 (555)	115 (52)
	<b>PDRD150</b>	16.7 (425)	23.8 (605)	21.8 (555)	128 (58)
	<b>PDRD175</b>	16.7 (425)	23.8 (605)	21.8 (555)	132 (60)
		<b>PDRD200</b>	28.0 (711)	37.0 (940)	22.0 (559)
<b>PDRD250</b>		28.0 (711)	42.0 (1067)	41.0 (1041)	287 (130)
<b>PDRD325-PDRD2400</b>					
<b>PDRD325</b>		28.0 (711)	42.0 (1067)	41.0 (1041)	320 (145)
<b>PDRD400</b>		28.0 (711)	42.0 (1067)	41.0 (1041)	320 (145)
<b>PDRD500</b>		28.0 (711)	42.0 (1067)	41.0 (1041)	342 (155)
<b>PDRD700</b>		32.0 (813)	52.0 (1321)	46.0 (1168)	529 (240)
<b>PDRD800</b>		32.0 (813)	52.0 (1321)	46.0 (1168)	529 (240)
<b>PDRD1000</b>		32.0 (813)	52.0 (1321)	46.0 (1168)	551 (250)
<b>PDRD1200</b>		40.0 (1016)	67.0 (1702)	43.0 (1092)	816 (370)
<b>PDRD1600</b>		40.0 (1016)	68.0 (1727)	71.0 (1803)	1279 (580)
<b>PDRD2000</b>		40.0 (1016)	68.0 (1727)	71.0 (1803)	1477 (670)
<b>PDRD2400</b>	40.0 (1016)	68.0 (1727)	71.0 (1803)	1521 (690)	

Inches (mm)

