



PRD10 - PRD250

- “Plug & Play” design for easy installation and operation (PRD10 - PRD125)
- 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

PRD325 - PRD2400

- 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

PRD Series

Capacity CFM @ 100 PSIG (m ³ /min @ 6.9 bar)	Primary voltage	Part number	Pipe size	Recommended filtration		
				Bulk separator	Pre-filter (5µ particulate)*	Post-filter (.01µ coalescing)
10 (17)	115V/1ph/60Hz	PRD10-115160	1/2" NPT-F	P3TFA94WCAN	P32FA94ESAN	P32FA94DSAN
15 (26)	115V/1ph/60Hz	PRD15-115160	1/2" NPT-F	P3TFA94WCAN	P32FA94ESAN	P32FA94DSAN
25 (43)	115V/1ph/60Hz	PRD25-115160	1/2" NPT-F	P3TFA94WCAN	P32FA94ESAN	P32FA94DSAN
35 (60)	115V/1ph/60Hz	PRD35-115160	1/2" NPT-F	P3TFA94WCAN	P32FA94ESAN	P32FA94DSAN
50 (85)	115V/1ph/60Hz	PRD50-115160	3/4" NPT-F	P3TFA96WDAN	P33FA96ESAN	P33FA96DSAN
75 (127)	115V/1ph/60Hz	PRD75-115160	3/4" NPT-F	P3TFA96WDAN	P33FA96ESAN	P33FA96DSAN
100 (170)	115V/1ph/60Hz	PRD100-115160	3/4" NPT-F	P3TFA96WDAN	P3NFA96ESA	P3NFA96DSA
125 (212)	115V/1ph/60Hz & 230V/1ph/60Hz	PRD125-115160 PRD125-230160	1-1/2" NPT-F	P3TFA9BWGAN	P3NFA9PESA	P3NFA9PDSA
150 (255)	115V/1ph/60Hz & 230V/1ph/60Hz	PRD150-115160 PRD150-230160	1-1/2" NPT-F	P3TFA9BWGAN	P3NFA9PESA	P3NFA9PDSA
175 (297)	115V/1ph/60Hz	PRD175-230160	1-1/2" NPT-F	P3TFA9BWGAN	35F77BAP	35F77EAP
200 (425)	230V/1ph/60Hz	PRD200-230160	1-1/2" NPT-F	P3TFA9BWGAN	35F77BAP	35F77EAP
250 (425)	230V/3ph/60Hz & 460V/3ph/60Hz	PRD250-230360 PRD250-460360	1-1/2" NPT-F	P3TFA9BWGAN	35F77BAP	35F77EAP
325 (552)	230V/3ph/60Hz & 460V/3ph/60Hz	PRD325-230360 PRD325-460360	2" NPT-F	P3TFA9CWHAN	35F87BAP	35F87EAP
400 (680)	230V/3ph/60Hz & 460V/3ph/60Hz	PRD400-230360 PRD400-460360	2" NPT-F	P3TFA9CWHAN	35F87BAP	35F87EAP
500 (849)	230V/3ph/60Hz & 460V/3ph/60Hz	PRD500-230360 PRD500-460360	2" NPT-F	P3TFA9CWHAN	35F87BAP	35F87EAP
700 (1189)	230V/3ph/60Hz & 460V/3ph/60Hz	PRD700-230360 PRD700-460360	3" NPT-M	P3TFA9EWKAN	43FN7BAP	43FN7EAP
800 (1359)	230V/3ph/60Hz & 460V/3ph/60Hz	PRD800-230360 PRD800-460360	3" NPT-M	P3TFA9EWKAN	43FN7BAP	43FN7EAP
1000 (1700)	460V/3ph/60Hz	PRD1000-460360	3" NPT-M	P3TFA9EWKAN	43FN7BAP	43FN7EAP
1200 (2039)	460V/3ph/60Hz	PRD1200-460360	3" NPT-M	P3TFA9EWKAN	43FN7BAP	43FN7EAP
1600 (2718)	460V/3ph/60Hz	PRD1600-460360	4" Flg.	P3TFAFFW2AN	P3TFAFFQ2AN*	P3TFAFFD2AN
2000 (3400)	460V/3ph/60Hz	PRD2000-460360	6" Flg.	P3TFAFGW3AN	P3TFAFGQ3AN*	P3TFAFGD3AN
2400 (4078)	460V/3ph/60Hz	PRD2400-460360	6" Flg.	P3TFAFGW3AN	P3TFAFGQ3AN*	P3TFAFGD3AN

☐ Most popular.

* 1µ coalescing



Operating information

		PRD10-PRD175	PRD200-PRD250	PRD325-PRD2400
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

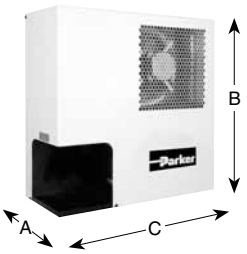
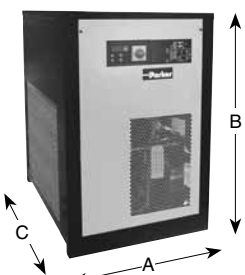
Capacities are based upon:

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

	PRD10 - PRD175								PRD200 - PRD250								PRD325 - PRD2400							
Ambient temperature (C1)																								
°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				
Inlet temperature (C2)																								
°F	90	100	110	120	140	149		90	100	110	120	130	140		90	100	110	120	130	140				
°C	32	38	43	49	60	65		32	38	43	49	54	60		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		1.22	1.00	0.82	0.68	0.56	0.46				
Inlet pressure (C3)																								
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

	A	B	C	Weight (kg)	Part number
	PRD10-PRD250				
	8.3 (210)	17 (430)	17.7 (450)	42 (19)	PRD10
	8.3 (210)	17 (430)	17.7 (450)	42 (19)	PRD15
	8.3 (210)	19.9 (505)	19.7 (500)	52 (24)	PRD25
	8.3 (210)	19.9 (505)	19.7 (500)	52 (24)	PRD35
	8.9 (225)	22.3 (565)	20.5 (520)	58 (27)	PRD50
	8.9 (225)	22.3 (565)	20.5 (520)	68 (31)	PRD75
	8.9 (225)	22.3 (565)	20.5 (520)	77 (35)	PRD100
	16.7 (425)	23.8 (605)	21.8 (555)	115 (52)	PRD125
	16.7 (425)	23.8 (605)	21.8 (555)	128 (58)	PRD150
16.7 (425)	23.8 (605)	21.8 (555)	132 (60)	PRD175	
28.0 (711)	37.0 (940)	22.0 (559)	183 (83)	PRD200	
28.0 (711)	42.0 (1067)	41.0 (1041)	287 (130)	PRD250	
	PRD325-PRD2400				
	28.0 (711)	42.0 (1067)	41.0 (1041)	320 (145)	PRD325
	28.0 (711)	42.0 (1067)	41.0 (1041)	320 (145)	PRD400
	28.0 (711)	42.0 (1067)	41.0 (1041)	342 (155)	PRD500
	32.0 (813)	52.0 (1321)	46.0 (1168)	529 (240)	PRD700
	32.0 (813)	52.0 (1321)	46.0 (1168)	529 (240)	PRD800
	32.0 (813)	52.0 (1321)	46.0 (1168)	551 (250)	PRD1000
	40.0 (1016)	67.0 (1702)	43.0 (1092)	816 (370)	PRD1200
	40.0 (1016)	68.0 (1727)	71.0 (1803)	1279 (580)	PRD1600
	40.0 (1016)	68.0 (1727)	71.0 (1803)	1477 (670)	PRD2000
40.0 (1016)	68.0 (1727)	71.0 (1803)	1521 (690)	PRD2400	

Inches (mm)

