

# PRD Series

Refrigerated Air Dryers (10 - 175 scfm)



In industrial applications, operational requirements vary widely and flexibility is a key factor. Using advanced technology, PRD Series guarantees continuous performance and superior efficiency in every type of situation. It can be easily adapted to all working conditions, maintaining impeccable dewpoint control and the lowest possible operating costs.

Pressure drops normally account for a third of a dryer's overall costs. With the PRD Series dryer, pressure drops are reduced to a minimum (on average less than half that of alternative systems), leading to significantly lower running costs.

The revolutionary PlusPack Heat Exchanger (patent pending) features 3-in-1 aluminum design with integral air connections. All models include an air-to-air freecooler, while the unique "slowflow" demister ensures perfect dewpoints whatever the operating conditions.



## Benefits:

- Environmentally friendly refrigerant with no planned phase out date
- "Plug & Play" design for easy installation and operation (PRD10 - PRD125)
- Robust timed solenoid drain equals improved reliability (PRD15 - PRD175)
- Oversized demister separator resulting in excellent liquid removal over all operating conditions
- Low differential pressure across the dryer (1.45 psig)
- Oversized condenser to operate in ambients to 122°F (50°C)
- All models incorporate a dewpoint indicator
- Extremely compact footprint



Contact Information:

## GTEK AUTOMATION

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## Product Selection

Model	Pipe Size	Nominal Flow			Primary Voltages	Recommended Filtration		Dimensions in (mm)			Weight lbs (kg)
		scfm	Nm <sup>3</sup> /hr	Nm <sup>3</sup> /min		General Purpose Pre-Filter	High Efficiency Outlet Filter	A	B	C	
PRD 10	1/2" NPT-F	10	17	0.3	115V/1Ph/60Hz	GL2ZLD-N	GL2XLD-N	8.3 (210)	16.9 (430)	17.7 (450)	42 (19)
PRD 15	1/2" NPT-F	15	26	0.4	115V/1Ph/60Hz	GL2ZLD-N	GL2XLD-N	8.3 (210)	16.9 (430)	17.7 (450)	42 (19)
PRD 25	1/2" NPT-F	25	43	0.7	115V/1Ph/60Hz	GL3ZLD-N	GL3XLD-N	8.3 (210)	19.9 (505)	19.7 (500)	52 (24)
PRD 35	1/2" NPT-F	35	60	1.0	115V/1Ph/60Hz	GL5ZLD-N	GL5XLD-N	8.3 (210)	19.9 (505)	19.7 (500)	52 (24)
PRD 50	3/4" NPT-F	50	85	1.4	115V/1Ph/60Hz	GL7ZLD-N	GL7XLD-N	8.9 (225)	22.2 (565)	20.5 (520)	58 (27)
PRD 75	3/4" NPT-F	75	127	2.1	115V/1Ph/60Hz	GL9ZLD-N	GL9XLD-N	8.9 (225)	22.2 (565)	20.5 (520)	68 (31)
PRD 100	3/4" NPT-F	100	170	2.8	115V/1Ph/60Hz	GL9ZLD-N	GL9XLD-N	8.9 (225)	22.2 (565)	20.5 (520)	77 (35)
PRD 125	1 1/2" NPT-F	125	212	3.5	115V/1Ph/60Hz & 230V/1Ph/60Hz	GL9ZLD-N	GL9XLD-N	16.7 (425)	23.4 (604)	21.8 (555)	115 (52)
PRD 150	1 1/2" NPT-F	150	255	4.2	115V/1Ph/60Hz & 230V/1Ph/60Hz	GL11ZLD-N	GL11XLD-N	16.7 (425)	23.4 (604)	21.8 (555)	128 (58)
PRD 175	1 1/2" NPT-F	175	297	5.0	230V/3Ph/60Hz	GL11ZLD-N	GL11XLD-N	16.7 (425)	23.4 (604)	21.8 (555)	132 (60)

Maximum ambient temperature	122°F (50°C)
Maximum inlet temperature	149°F (65°C)
Minimum ambient temperature	41°F (5°C)
Maximum inlet pressure	232 psig (16 bar g)
Refrigerant:	R134a

\*Capacities are based upon:

Ambient temperature:	100°F (38°C)
Inlet temperature:	100°F (38°C)
Working pressure:	100 psig (7 bar g)

### Air Flow Correction Factors

Capacity correction factors to be used when operating conditions differ from those shown above. To obtain dryer capacity at new conditions multiply nominal capacity\* x C1 x C2 x C3.

### Models PRD 10 - PRD 175

#### Ambient Temperature (C1)

°F	60	70	80	89	100	110	120
°C	16	21	27	32	38	43	49
Factor	1.34	1.26	1.17	1.09	1.00	0.91	0.82

#### Inlet Temperature (C2)

°F	90	100	110	120	140	149
°C	32	38	43	49	60	65
Factor	1.24	1.00	0.81	0.67	0.45	0.44

#### Inlet Pressure (C3)

psi g	60	80	100	125	150	175	200	230
bar g	4	6	7	9	10	12	14	16
Factor	0.83	0.93	1.00	1.07	1.12	1.16	1.19	1.22



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