

# Non-Cycling Refrigerated Dryers



## Pneumatech Pride

Pneumatech is proud to offer this range of reliable and innovative refrigerated air dryers. These dryers are a cost effective solution to remove condensation and the resultant corrosion from your compressed air system. They are tested to the stringent CAGI ADF100 standards so you can be assured that you will get a dryer that performs for years to come.

See your local Pneumatech distributor, visit our website at [www.pneumatech.com](http://www.pneumatech.com) or give us a call at +1-800-336-2285, we are here to help.

## AD-10 to AD-4200



Features	Benefits
Integrated Air-to-Air heat exchanger on all models	Eliminates condensation on outside of pipes More efficient-lowers refrigeration kW at full load
Hot Gas Bypass valve on even the smallest units in the range	Precise dewpoint control across a wide range of flows
No-air-loss electronic drain on all models	No loss of expensive compressed air during drain discharge
Aluminum block HX w/integrated water separator (AD-75 to 3000) Braze plate HX with centrifugal water separator (AD-10 to 50)	High performance & reliability in a compact design Reduces components Reduces pressure drop
Environmentally safe refrigerants	Minimal ozone depletion potential— meets Montreal Protocol
cULus listed	Units suitable for all municipalities and Canada
Lockable on/off switch	Can prevent unauthorized start-up as part of lockout/tagout routine
Reliable components	Minimal maintenance and long intervals between service calls
Service friendly design	Easy access to key components

PDP (Pressure Dew Point) Display (°C/°F)



- Increased dryer information display
- Service reminder available
- Remote alarms available



Alarm (high/low dewpoint, fan probe failure or PDP probe failure)



Dryer Power On



Fan in rotation

PDP Alarms:

- High PDP (the display will show a high temperature value)
- Low PDP -> freezing problems (the display will show a negative value)



# Technical data

Model Number	39±2 °F scfm*	Elect. kW Input*	In/Out Conn. Size	Pressure Drop (psid)	Max. Working Pressure (psig)	Refrigerant Type	Dimensions L x W x H (in)	Approx. Shipping Weight (lb)	Elect. Power Supply
AD-10	10	0.152	0.5" NPT (M)	1.45	230	R-134a	14 x 20 x 18	42	115-1-60 or 230-1-60
AD-15	15	0.188	0.5" NPT (M)	2.18	230	R-134a	14 x 20 x 18	42	
AD-25	25	0.258	0.5" NPT (M)	2.90	230	R-134a	14 x 20 x 18	44	
AD-35	35	0.318	0.5" NPT (M)	2.90	230	R-134a	14 x 20 x 18	55	
AD-50	50	0.359	0.5" NPT (M)	2.90	230	R-134a	14 x 20 x 18	60	
AD-75	75	0.734	1" NPT (F)	2.90	230	R-404A	15 x 20 x 30	97	
AD-100	100	0.854	1.5" NPT (F)	2.18	200	R-404A	15 x 20 x 30	97	
AD-125	125	1.031	1.5" NPT (F)	2.90	200	R-404A	18 x 22 x 31	117	
AD-150	150	1.49	1.5" NPT (F)	1.45	200	R-404A	18 x 22 x 31	132	230-1-60
AD-200	200	1.629	1.5" NPT (F)	2.90	200	R-404A	18 x 22 x 31	143	
AD-250	250	1.877	1.5" NPT (F)	3.60	200	R-404A	23 x 24 x 36	176	230-1-60 or 460-3-60
AD-300	300	2.287	2" NPT (F)	3.60	188	R-410A	29 x 36 x 38	282	
AD-360	360	2.637	2" NPT (F)	4.35	188	R-410A	29 x 36 x 38	322	460-3-60
AD-500	500	3.176	2" NPT (F)	4.35	188	R-410A	29 x 36 x 38	349	
AD-600	600	4.300	2" NPT (F)	4.35	188	R-410A	29 x 36 x 38	364	
AD-750	750	5.360	3" NPT (F)	3.60	188	R-404A	43 x 40 x 61	717	
AD-1000	1000	5.820	3" NPT (F)	4.30	188	R-404A	43 x 40 x 61	739	
AD-1250	1250	7.260	3" NPT (F)	5.00	188	R-404A	43 x 40 x 61	772	
AD-1600	1600	9.740	3" NPT (F)	4.30	188	R-404A	43 x 40 x 61	837	
AD-1800	1800	9.600	6" Flange	4.30	188	R-404A	83 x 40 x 61	1213	
AD-2200	2200	12.500	6" Flange	3.60	188	R-404A	83 x 40 x 61	1323	
AD-2500	2500	12.500	6" Flange	3.60	188	R-404A	83 x 40 x 61	1433	
AD-3000	3000	17.270	6" Flange	1.70	188	R-404A	83 x 40 x 61	1433	
AD(W)-3400	3390	18.4/12.0	8" Flange	1.90	188	R-404A	105 x 53 x 74	2830	
AD(W)-4200	4238	26.0/19.0	8" Flange	3.20	188	R-404A	105 x 53 x 74	2970	

\* Capacity and kW ratings are at full load at CAGI ADF-100 standard conditions of 100 °F (38 °C) ambient, 100 °F (38 °C) inlet and 100 psig (7 bar) delivering a pressure dewpoint of 39 °F (3.9 °C) ±2°F (1.1 °C).

## Correction Factor Example

Pressure	bar	6	7	8	10	13	16
	psig	85	100	116	145	188	232
	C1	0.97	1	1.03	1.07	1.12	1.16

Inlet temperature	C	24-35	38	40	46	50	55
	F	75-95	100	105	115	122	131
-40 °F (AA)	C2	1.06	1	0.95	0.79	0.67	0.57

Ambient Temperature	C	35	38	40	46
	F	95	100	105	115
	C3	1.03	1	0.95	0.93

Which dryer will handle the following conditions for a PDP of +39°F:

**85 SCFM Actual Flow, 145 psig inlet pressure,**

**115°F inlet temperature, 100°F Ambient Temperature**

- 1) Correction factors for the table: C1 = 1.07, C2 = 0.79, C3 = 1
- 2) Calculate: Nominal Flow = Actual Flow / (C1 x C2 x C3) = 100.5
- 3) Select an AD-100 for this application

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