

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.

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



**AD-15
to AD-3000**

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-15 to 65) Braze plate HX with centrifugal water separator (AD-85 to 3000)	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)

MODEL	41 °F PDP (scfm*)	HP Compressor	PRESSURE DROP (psid)	OPERATING kW	IN/OUT CONN. SIZE (in)	MAX WORKING PRESSURE (psig)	REFRIG. TYPE	L x W x H (in)	APPROX. SHIPPING WT (lb)	Voltage
AD-15	13	3	2.2	0.159	NPT 3/4 (M)	232	R513A	14 x 20 x 18	57	115-1-60
				0.172						230-1-60
AD-20	21	5	3.6	0.159	NPT 3/4 (M)	232	R513A	14 x 20 x 18	57	115-1-60
				0.172						230-1-60
AD-30	30	7.5	3.6	0.193	NPT 3/4 (M)	232	R513A	14 x 20 x 18	60	115-1-60
				0.222						230-1-60
AD-40	42	10	3.6	0.301	NPT 3/4 (M)	232	R513A	14 x 20 x 18	71	115-1-60
				0.306						230-1-60
AD-65	64	15	4.4	0.383	NPT 3/4 (M)	232	R513A	14 x 20 x 18	75	115-1-60
				0.364						230-1-60
AD-85	83	20	2.0	0.673	NPT 1 (F)	203	R513A	15 x 20 x 30	112	115-1-60
				0.726						230-1-60
AD-105	106	25	2.9	0.717	NPT 1 (F)	203	R513A	15 x 20 x 30	112	115-1-60
				0.763						230-1-60
AD-125	127	30	2.6	0.722	NPT 1.5 (F)	203	R410A	18 x 22 x 31	143	115-1-60
				0.789						230-1-60
AD-145	144	35	2.6	0.775	NPT 1.5 (F)	203	R410A	18 x 22 x 31	139	115-1-60
				0.775						230-1-60
AD-185	184	40	3.6	0.928	NPT 1.5 (F)	203	R410A	18 x 22 x 31	143	115-1-60
				0.883						230-1-60
AD-230	229	50	2.9	1.109	NPT 1.5 (F)	203	R410A	23 x 23 x 35	187	230-1-60
AD-270	271	60	3.8	1.285	NPT 1.5 (F)	203	R410A	23 x 23 x 35	187	230-1-60
AD-295	297	60	4.4	2	NPT 1.5 (F)	203	R410A	23 x 23 x 35	198	460-3-60
AD-355	354	75	2.3	2.3	NPT 2 (F)	203	R410A	29 x 36 x 38	346	460-3-60
AD-425	424	100	3.3	2.65	NPT 2 (F)	203	R410A	29 x 36 x 38	375	460-3-60
AD-530	530	125	2.6	2.92	NPT 2 (F)	203	R410A	29 x 36 x 38	390	460-3-60
AD-635	635	150	2.6	3.59	NPT 2 (F)	203	R410A	29 x 36 x 38	390	460-3-60
AD-750	750	175	3.6	5.36	NPT 3 (F)	188	R410A	45 x 40 x 61	717	460-3-60
AD-1000	1000	250	4.3	5.82	NPT 3 (F)	188	R410A	45 x 40 x 61	739	460-3-60
AD-1250	1250	300	5.0	7.26	NPT 3 (F)	188	R410A	45 x 40 x 61	772	460-3-60
AD-1600	1600	350	3.6	9.74	ANSI 6	188	R452A	47 x 40 x 61	837	460-3-60
AD-1800	1800	400	4.3	9.60	ANSI 6	188	R452A	83 x 40 x 61	1213	460-3-60
AD-2200	2200	450	3.6	12.50	ANSI 6	188	R404A	83 x 40 x 61	1323	460-3-60
AD-2500	2500	500	3.6	12.50	ANSI 6	188	R452A	83 x 40 x 61	1433	460-3-60
AD-3000	3000	500	3.7	17.27	ANSI 6	188	R452A	83 x 40 x 61	1433	460-3-60

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

**PORTLAND
COMPRESSOR**
Experience You Can Depend On
800-542-8300

Pneumatech reserves the right to change or revise specifications and product design in connection with any features of our products. Such changes do not entitle the buyer to corresponding changes, improvements, additions or replacements for equipment previously sold or shipped.

© 2021 Pneumatech. All rights reserved.



300 Technology Center Way, Suite 550

Rock Hill, SC 29730 USA

1-800-336-2285

www.pneumatech.com

Pneumatech

