

Refrigerated Dryers

Pneumatech Pride

Pneumatech has been manufacturing energy-efficient refrigerated dryers for nearly 50 years. Pneumatech’s reliable and innovative noncycling refrigerated dryers are a cost effective solution to remove condensation and the resultant corrosion from your compressed air system.

The AD 10-3000 is a well-tested and popular product at a competitive value. If you are in need of an even higher energy efficiency and more monitoring and control possibilities take a look at the Pneumatech AC refrigerated dryer as well.



AD 10-3000

Design standards	AD 10-50	AD 75-600	AD 750-3000
Dew point	3°C/37°F	3°C/37°F	3°C/37°F
Pressure range	4-16 bar/60-232 psi	4-13 bar/60-188 psi	4-13 bar/60-188 psi
Voltages	115-230 V	115-230-380-400 or 460 V	380-400 or 460 V
Frequency	50-60 Hz	50-60 Hz	50-60 Hz
Controller	Basic	Basic	Basic
Technology	Refrigerant R134a	Refrigerant R404a/410a	Refrigerant R404a
Usage	Continuous	Continuous	Continuous
Transportability	Easy to transport	Easy to transport	Forklift slots
Common applications	Automotive, general industry	Textile, general industry, wood, pulp and paper	Textile, general industry, wood, pulp and paper, cement, mining

Important features & benefits
Hot gas bypass valve (prevents freezing at lower loads)
No loss of valuable compressed air with the no-air-loss electronic drain
Integrated air-to-air heat exchanger on all models
Well designed for easy service and access to key components
Easy to install with inlet and outlet connections on the back of the unit
Controller with digital PDP display, remote start/stop, remote free contact for general alarm (only from AD 300)
Environmentally safe refrigerants: R134a (AD 10-50), R404a (AD 75-3000) & R410a (AD 300-600)
Brazed plate heat exchanger with centrifugal water separator (AD 10-50)
Aluminum block heat exchanger with integrated water separator (AD 75-2500)

Options	AD 10-50	AD 75-600	AD 750-3000
Filter support	•	–	–
Bypass valve	•	–	–
G/NPT connection	•	•	•
Condensate drain	✓	✓	✓
Remote start/stop	–	✓ (from AD 300)	✓
Remote free contact	–	✓ (from AD 300)	✓

- ✓ Standard
- Optional
- Not available



Technical data

50Hz

Type	Inlet Flow			Nominal electrical power ¹	Power supply voltage	Max. operating pressure		Refrigerant gases	Compressed Air connections	Dimensions (mm)			Dimensions (in)			Weight	
	l/min	m ³ /h	cfm			kW	V/Hz/Ph			bar	psi	type	Gas / DN	L	W	H	L
AD 10	350	21	12.4	0.13	230/50/1	16	232	R134a	R 3/4	350	511	484	13,8	20,1	19,1	19	42
AD 15	600	36	21.2	0.16	230/50/1	16	232	R134a	R 3/4	350	511	484	13,8	20,1	19,1	19	42
AD 25	850	51	30.0	0.19	230/50/1	16	232	R134a	R 3/4	350	511	484	13,8	20,1	19,1	20	44
AD 35	1200	72	42.4	0.27	230/50/1	16	232	R134a	R 3/4	350	511	484	13,8	20,1	19,1	25	55
AD 50	1835	110	64.4	0.28	230/50/1	16	232	R134a	R 3/4	350	511	484	13,8	20,1	19,1	27	60
AD 75	2350	141	83.0	0.61	230/50/1	13	188	R404A	R 1	370	515	764	16,6	20,3	30	44	97
AD 100	3000	180	106	0.67	230/50/1	13	188	R404A	R 1	370	515	764	16,6	20,3	30	44	97
AD 125	3600	216	127	0.79	230/50/1	13	188	R404A	R 1 1/2	460	575	789	18,1	22,6	31,1	53	117
AD 150	4100	246	145	0.87	230/50/1	13	188	R404A	R 1 1/2	460	575	789	18,1	22,6	31,1	60	132
AD 175	5200	312	184	1.07	230/50/1	13	188	R404A	R 1 1/2	460	575	789	18,1	22,6	31,1	65	143
AD 200	6500	390	230	1.19	230/50/1	13	188	R404A	R 1 1/2	580	604	899	22,8	23,8	35,4	80	176
AD 250	7700	462	272	1.45	230/50/1	13	188	R404A	R 1 1/2	580	604	899	22,8	23,8	35,4	80	176
AD 300	10000	600	353	1.32	400/50/3	13	188	R410A	R 2	735	952	1012	28,9	37,5	39,8	128	282
AD 360	12000	720	424	1.63	400/50/3	13	188	R410A	R 2	735	952	1012	28,9	37,5	39,8	146	322
AD 500	15000	900	530	1.89	400/50/3	13	188	R410A	R 2	735	952	1012	28,9	37,5	39,8	158	348
AD 600	18000	1080	636	2.11	400/50/3	13	188	R410A	R 2	735	952	1012	28,9	37,5	39,8	165	364
AD 750	24000	1440	848	3.90	400/50/3	13	188	R404A	R 3	1020	1082	1560	40,2	42,6	61,4	325	716
AD 1000	30000	1800	1060	4.46	400/50/3	13	188	R404A	R 3	1020	1082	1560	40,2	42,6	61,4	335	738
AD 1250	35000	2100	1237	5.55	400/50/3	13	188	R404A	R 3	1020	1082	1560	40,2	42,6	61,4	350	771
AD 1600	45000	2700	1589	6.71	400/50/3	13	188	R404A	DN 125	1020	1123	1551	40,2	44,2	61,1	380	838
AD 1800	50000	3000	1766	6.80	400/50/3	13	188	R404A	DN 125	1020	2099	1560	40,2	42,6	61,4	550	1212
AD 2500	70000	4200	2472	10.20	400/50/3	13	188	R404A	DN 125	1020	2099	1560	40,2	42,6	61,4	600	1322
AD 3000	84000	5040	2966	12.30	400/50/3	13	188	R404A	DN 125	1020	2099	1560	40,2	42,6	61,4	650	1433

(1) Reference conditions:

- Operating pressure: 7 bar (100 psi)
- Operating temperature: 35°C/95°F
- Room temperature: 25°C/77°F
- Pressure dew point: +3°C (+/- 1)
- Available in different voltages and frequency values

Limit conditions:

- Working pressure: 16 bar/232 psi
13 bar /188 psi
- Operating temperature: 55°C/113°F
- Minimum/maximum room temperature: +5°C/+45°C (41°F/113°F)

Correction factors

Room temperature	°C	25	30	35	40	45		
	A	1.00	0.92	0.84	0.80	0.74	(AD 10-250)	
	1.00	0.91	0.81	0.72	0.62	(AD 300-3000)		

Operating temperature	°C	30	35	40	45	50	55		
	B	1.24	1.00	0.82	0.69	0.58	0.45	(AD 10-250)	
	1.00	1.00	0.82	0.69	0.58	0.49	(AD 300-3000)		

Operation pressure	bar	5	6	7	8	9	10	11	12	13	14	15	16		
	C	0.90	0.96	1.00	1.03	1.06	1.08	1.10	1.12	1.13	1.15	1.16	1.15	(AD 10-250)	
	0.90	0.97	1.00	1.03	1.05	1.07	1.09	1.11	1.12	-	-	-	(AD 300-3000)		



Correction factors to be used for site conditions outside of normal reference conditions (1) stated above = A x B x C

The new flow rate value can be obtained by dividing the current or real flow rate by the correction factor related to the real operation conditions.

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