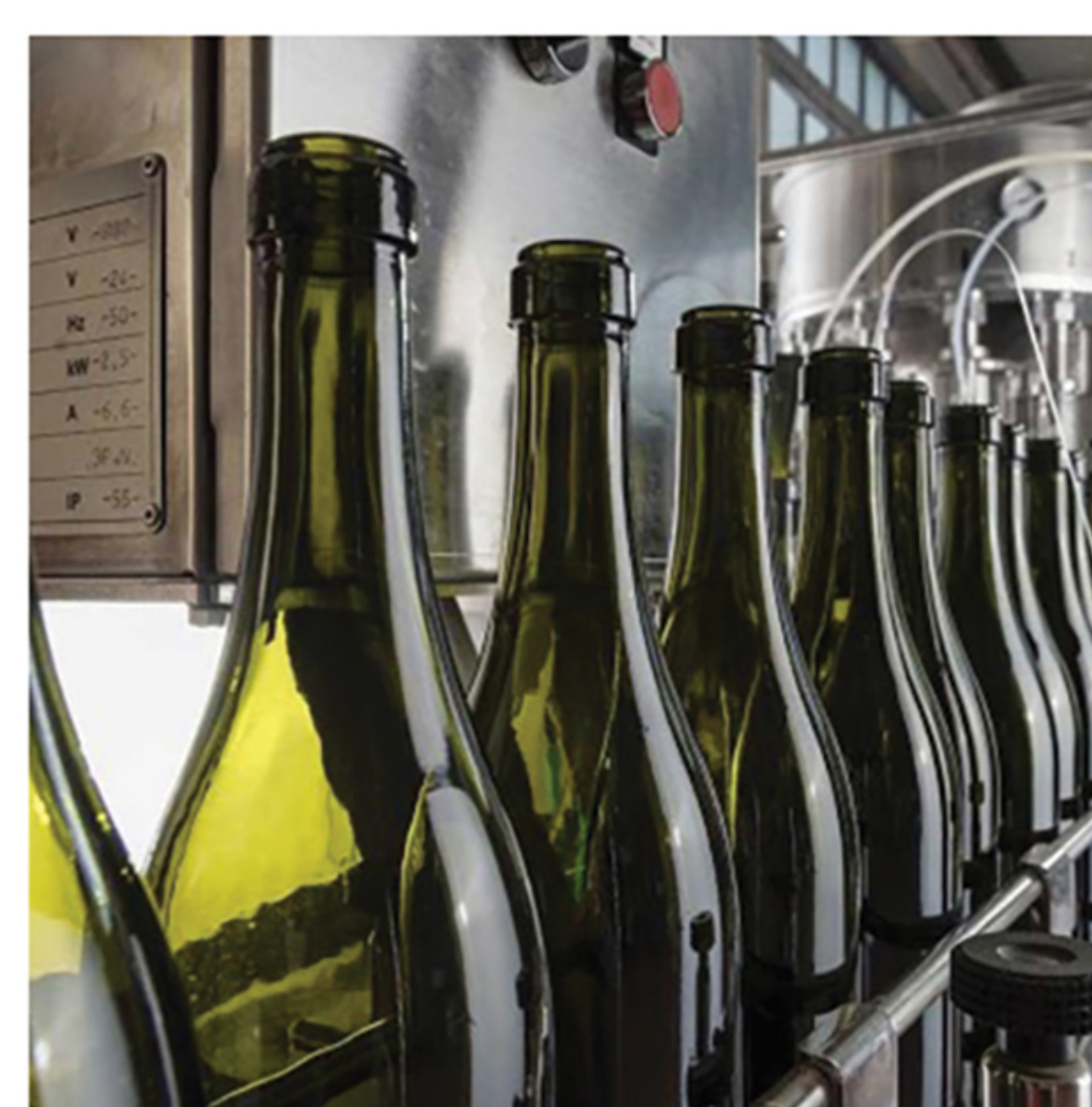


Refrigerant Air Dryer



AD 10 - 3000 - Non-cycling refrigeration dryers

General specifications

- ▶ Non-cycling refrigeration dryers
- ▶ Operating Pressure:
 - AD10 - 50: 4-16 barg / 60-232 psig
 - AD75 - 3000: 4-13 barg/60-188 psig
- ▶ Max. inlet temperature: 55°C / 113°F
- ▶ Flow rate: 21 - 5040 m³/hr / 12-2966 cfm⁽¹⁾
- ▶ Pressure dew point: 3°C / 37°F (ISO 8573 - 1:2010 class 4)
- ▶ Power supply:
 - AD10 - 250: 230VAC 50/60 Hz
 - AD300 - 3000: 400V/50Hz; 380V/60Hz; 460V/60Hz
- ▶ Refrigerant: R134a (AD10 - 50); R410A (AD125 - 1250) & R452A (AD75 - 100 & AD1600 - 3000)

Refrigeration Dryers: AD Series (10-3000) Non cycling

AD 10-50	AD 75-100
	
Features & Benefits	Features & Benefits
<ul style="list-style-type: none"> • Stable performance and guaranteed dew point of 3°C/37°F • Ingeniously designed components to ensure maximum performance <ul style="list-style-type: none"> • Hot gas bypass valve to prevent freezing at lower loads • Zero-loss electronic drain to prevent loss of valuable compressed air • Brazed plate heat exchanger with integrated water separator and air-to-air heat exchange • R134a refrigerant gas: low global warming impact, zero ozone depletion • Digital display with real-time PDP monitoring • Easy plug-and-play installation 	<ul style="list-style-type: none"> • Stable performance and guaranteed dew point of 3°C/37°F • Ingeniously designed components to ensure maximum performance <ul style="list-style-type: none"> • Hot gas bypass valve to prevent freezing at lower loads • Zero-loss electronic drain to prevent loss of valuable compressed air • Aluminium block heat exchanger with integrated water separator and air-to-air heat exchange • Environmental safe refrigerant gases R452A • Digital display with real-time PDP monitoring • Easy plug-and-play installation

¹ Flow is measured at reference conditions: ambient pressure of 1 bara and 25°C at operating pressure of 7 barg, inlet temperature 35°C.

Pneumatech's AD 10-3000 non-cycling refrigeration dryers are designed to protect your compressed air system by lowering the presence of moisture in the compressed air. With a stable dew point as low as 3°C/37°F these dryers provide a highly efficient and reliable solution for your drying needs. Thanks to the new controller with digital display, real time PDP monitoring is possible. The zero-loss electronic drains avoid compressed air losses. The well-designed heat exchangers ensure maximum cooling efficiency, making the AD dryers a genuine air drying solution in industrial applications.

The AD125-1250 range is equipped with the winning combination: rotary compressors and R410A refrigerant. This combination is up to 30% more energy efficient, requires 19% less refrigerant gas and is 100% compliant with European regulation EU No 517 / 2014, hereby significantly reducing the ecological footprint of these dryers. Rotary compressors are moreover very reliable thanks to the low vibration levels and limited mechanical load. R410A guarantees stable evaporation, which makes the pressure dew point of 3°C /37°F possible.

AD 125-250	AD 300-1250	AD1600 - 3000
		
Features & Benefits	Features & Benefits	Features & Benefits
<ul style="list-style-type: none"> • Stable performance and guaranteed dew point of 3°C/37°F • Rotary compressors and R410A refrigerant: the winning combination <ul style="list-style-type: none"> • 30% more energy efficient • Requires 19% less refrigerant gas • Extremely reliable: low vibration levels and limited mechanical load • Ingeniously designed components to ensure maximum performance <ul style="list-style-type: none"> • Hot gas bypass valve to prevent freezing at lower loads • Zero-loss electronic drain to prevent loss of valuable compressed air • Aluminium block heat exchanger with integrated water separator and air-to-air heat exchange • Digital display with real-time PDP monitoring and voltage-free contact for remote alarm • Easy plug-and-play installation 	<ul style="list-style-type: none"> • Stable performance and guaranteed dew point of 3°C/37°F • Rotary compressors and R410A refrigerant: the winning combination <ul style="list-style-type: none"> • 30% more energy efficient • Requires 19% less refrigerant gas • Extremely reliable: low vibration levels and limited mechanical load • Ingeniously designed components to ensure maximum performance <ul style="list-style-type: none"> • Hot gas bypass valve to prevent freezing at lower loads • Zero-loss electronic drain to prevent loss of valuable compressed air • Aluminium block heat exchanger with integrated water separator and air-to-air heat exchange • Advanced controlling and monitoring thanks to the controller installed <ul style="list-style-type: none"> • Digital PDP display • Remote start/stop • Voltage-free contact for general alarm • Easy plug-and-play installation 	<ul style="list-style-type: none"> • Stable performance and guaranteed dew point of 3°C/37°F. • Ingeniously designed components to ensure maximum performance <ul style="list-style-type: none"> • Hot gas bypass valve to prevent freezing at lower loads • Zero-loss electronic drain to prevent loss of valuable compressed air • Aluminium block heat exchanger with integrated water separator and air-to-air heat exchange • Environmental safe refrigerant gases R452A • Advanced controlling and monitoring <ul style="list-style-type: none"> • Digital PDP display • Remote start/stop • Voltage-free contact for general alarm • Easy plug-and-play installation

Options



Filter Support



Bypass Valve

AD 10 - 3000 - Non-cycling refrigeration dryers

Technical specifications for AD 10-3000 50Hz

Pneumatech Variants → Specifications ↓		AD 10	AD 15	AD 25	AD 35	AD 50	AD 75	AD 100	AD 125	AD 150	AD 175	AD 200	AD 250	AD 300	AD 360	AD 500	AD 600	AD 750	AD 1000	AD 1250	AD 1600	AD 1800	AD 2500	AD 3000
Flow ⁽¹⁾	l/s	5.8	10.0	14.2	20.0	30.6	39.2	50.0	60.0	68.3	86.7	108.3	128.3	166.7	200.0	250.0	300.0	400.0	500.0	583.3	750.0	833.3	1166.7	1400.0
	m ³ /hr	21	36	51	72	110	141	180	216	246	312	390	462	600	720	900	1080	1440	1800	2100	2700	3000	4200	5040
Nominal electric power	kW	0.13	0.164	0.19	0.266	0.284	0.674	0.716	0.66	0.663	0.835	1.016	1.136	1.319	1.631	1.889	2.11	3.26	3.89	4.75	6.715	6.8	10.2	12.3
Power Supply / Voltage / Phase	V/Hz/Ph	230 50 1	230 50 1	230 50 1	230 50 1	230 50 1	230 50 1	230 50 1	230 50 1	230 50 1	230 50 1	230 50 1	230 50 1	400 50 3	400 50 3	400 50 3	400 50 3	400 50 3	400 50 3	400 50 3	400 50 3	400 50 3	400 50 3	400 50 3
Max. Operating Pressure	bar	16	16	16	16	16	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
	psi	232	232	232	232	232	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203	203
Refrigerant Gas		R134a	R134a	R134a	R134a	R134a	R134a	R134a	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R452A	R452A	R452A	R452A
Inlet and Outlet Connections	inches / DIN	3/4"M	3/4"M	3/4"M	3/4"M	3/4"M	1"F	1"F	1" 1/2F	1" 1/2F	1" 1/2F	1" 1/2F	1" 1/2F	2"F	2"F	2"F	2"F	3"M	3"M	3"M	DN 125	DN 125	DN 125	DN 125
Dimensions	L (mm)	350	350	350	350	350	370	370	460	460	460	580	580	735	735	735	735	1020	1020	1020	1020	1020	1020	1020
	L (inch)	13.8	13.8	13.8	13.8	13.8	14.6	14.6	18.1	18.1	18.1	22.8	22.8	28.9	28.9	28.9	28.9	40.2	40.2	40.2	40.2	40.2	40.2	40.2
	W (mm)	493	493	493	493	493	498	498	558	558	558	588	588	898	898	898	898	1083	1083	1083	1121	2099	2099	2099
	W (inch)	19.4	19.4	19.4	19.4	19.4	19.6	19.6	22.0	22.0	22.0	23.1	23.1	35.4	35.4	35.4	35.4	42.6	42.6	42.6	44.1	82.6	82.6	82.6
	H (mm)	450	450	450	450	450	764	764	789	789	789	899	899	962	962	962	962	1526	1526	1526	1526	1535	1535	1535
	H (inch)	17.7	17.7	17.7	17.7	17.7	30.1	30.1	31.1	31.1	31.1	35.4	35.4	37.9	37.9	37.9	37.9	60.1	60.1	60.1	60.1	60.4	60.4	60.4
Weight	kg	19	19	20	25	27	44	44	53	60	65	80	80	128	146	158	165	325	335	350	380	550	600	650
	Lb	41.9	41.9	44.1	55.1	59.5	97.0	97.0	116.8	132.3	143.3	176.4	176.4	282.2	321.9	348.3	363.8	716.5	738.5	771.6	837.8	1212.5	1322.8	1433.0

1. Flow is measured at reference conditions: ambient pressure of 1 Bar(a) and 25°C at operating pressure of 7 bar (g), inlet temperature 35°C .

Correction factors for ambient temperature

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)

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