



Refrigeration dryers

With our refrigeration dryers too, we let you choose between investment cost and lifecycle cost.

Pneumatech's COOL range is our robust, no-frills drying solution, meant for basic condensate removal in your compressed air system. With the AD dryer we guarantee dry air through real-time PDP monitoring, while also reducing power consumption and compressed air losses. Our premium AC dryers optimize the energy consumption based on the actual compressed air demand, through energy saving algorithms or variable speed technology.

Cool 12 - 272 -
Non-cycling refrigeration dryers

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Features & Benefits

- ▶ Solid performance & strong reliability
 - Stable pressure dew point as low as 5°C/41°F ensuring ISO 8573-1 class 5 quality
- ▶ Compact & easy to install
 - Simple vertical design
 - Plug- and play mechanical & electrical connections
- ▶ Super cost saver
 - Low initial investment
 - Efficient cooling system ensures low energy costs
 - Increased lifetime of tools and equipment
- ▶ Easy maintenance at low cost
 - Long service intervals
 - Easy access to key components

General Specifications

- ▶ Non-cycling refrigeration dryers
- ▶ Operating pressure: 4-16 bar/58-232 PSI (4-13 bar/ 58-189 PSI from COOL 145 onwards)
- ▶ Max. ambient temperature: 50°C / 122°F
- ▶ Flow rate : 21 to 462 m³/hr (12-272 cfm)⁽¹⁾
- ▶ Pressure dew point: 5°C / 41°F (ISO 8573-1:2010 class 5)
- ▶ Power supply: 230V 50 Hz (60Hz version on request)
- ▶ Refrigerant: R134a (COOL 12-106) or R404a (COOL 127-272)



Applications



Pneumatic tools and equipment



Pneumatic control systems



Painting



Injection moulding



Car shops



Tire inflations

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 .



The compressed air coming out of the compressor is always saturated. Pneumatech's reliable and robust COOL refrigeration dryers are an efficient solution to lower the presence of moisture and the resultant corrosion in your compressed air system. COOL dryers can act as a second line of defence after water separators and aftercoolers giving you a stable dew point as low as 5°C / 41°F, maintaining the ISO 8573-1 class 5 air quality.

Designed to work up to 16 bar/232 PSI, COOL dryers deliver stable performance thanks to the efficient refrigerant gas and carefully selected components. The simple vertical design and small foot print make COOL dryers the easy-to-use drying solution in various industrial applications such as car shops, spray painting, injection moulding, tire inflation and many more.

Technical specifications for COOL 12-272 50 Hz													
Pneumatech Variants →	Units	COOL 12	COOL 21	COOL 30	COOL 42	COOL 64	COOL 76	COOL 106	COOL 127	COOL 145	COOL 184	COOL 230	COOL 272
Specifications ↓													
Flow ⁽¹⁾	l/s	5.8	10.0	14.2	20.0	30.4	35.8	50.0	60.0	68.3	86.7	108.3	128.3
	m ³ /hr	21	36	51	72	110	129	180	216	246	312	390	462
Nominal electric power	kW	0.13	0.13	0.16	0.23	0.29	0.38	0.42	0.66	0.77	1.87	1.03	1.24
Power Supply Voltage / Phase		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
Max Operating Pressure	Bar	16	16	16	16	16	13	13	16	13	13	13	13
	PSI	232	232	232	232	232	188	188	188	188	188	188	188
Refrigerant Gas		R134a	R134a	R134a	R134a	R134a	R134a	R134a	R404A	R404A	R404A	R404A	R404A
Inlet and Outlet Connections	G Threads	3/4" M	3/4" M	3/4" M	3/4" M	3/4" M	3/4" M	1" F	1" F	1 1/2" F	1 1/2" F	1 1/2" F	1 1/2" F
Dimensions	L (mm)	233	233	233	233	233	233	233	310	310	310	310	310
	L (inch)	8.8	8.8	8.8	8.8	8.8	8.8	8.8	12.2	12.2	12.2	12.2	12.2
	W (mm)	559	559	559	559	559	559	559	706	706	706	706	706
	W (inch)	22	22	22	22	22	22	22	27.8	27.8	27.8	27.8	27.8
	H (mm)	561	561	561	561	561	561	561	561	994	994	994	994
	H (inch)	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	39.1	39.1	39.1	39.1
Weight	kg	19	19	19	20	25	27	30	52	57	59	80	80
	lb	42	42	42	44	55	59	66	114	125	130	176	176

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

Ambient temperature	°C	25	30	35	40
	°F	77	86	95	104
Temperature correction factor	Kt (amb)	1	0.92	0.84	0.8

Correction factors for compressed air inlet temperature

Inlet temperature	°C	30	35	40	45	50
	°F	86	95	104	113	122
Temperature correction factor	Kt	1.24	1	0.8	0.69	0.54

Correction factors for compressed air inlet pressure

Operating pressure	Bar(g)	5	6	7	8	9	10	11	12	13	14	15	16
	psi (g)	73	87	101	116	131	145	159	174	188	203	218	232
Pressure correction factor	Kp	0.9	0.96	1	1.03	1.06	1.08	1.1	1.12	1.13	1.15	1.16	1.17



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