

COOL dryers



Thanks to the advanced technology adopted, the **COOL Dryers** range is a guarantee of reliability, energy saving and high performance in compact sizes.

The system compact size allows easy installation in any environment and guarantees a number of advantages:

- **High performance**
- **Longer life of pneumatic equipment**
- **Safety and ease of use**
- **Use of innovative, high quality materials**
- **High energy saving**
- **Low maintenance costs**
- **Stable dew point**

Drying always pays!

The COOL dryer has been developed to guarantee high quality dry air and increase both production efficiency and the life of your equipment.

The excellent value to cost ratio is guaranteed by two undisputed features of COOL dryers: greatest reliability and safety.

Thanks to the efficiency of their cooling system, COOL Dryers ensure you high energy saving.

With a COOL dryer, maintenance needs are reduced to a minimum and made easy thanks to both the reliability of components and the easy access to any internal part.

Water in compressed air

The quantity of water contained in compressed air changes depending on environmental conditions, i.e. on environment temperature and humidity. As a consequence of compression, water vapours move within the system in the same way as compressed air. With the passing of time the condensation water in pipes may provoke corrosion and, as a consequence, faults and leaks. Moreover, the condensation water in the pneumatic equipment downstream will provoke serious damages that, in turn, will cause breakdowns and thus additional maintenance and production downtime. In applications where compressed air is in contact with the final product, the product itself may be damaged affecting quality.

RELIABLE COMPONENTS IN A SIMPLE VERTICAL LAYOUT

Capillary tube to sensibly reduce coolant pressure and temperature, thus improving the cooling process.

Coolant filter to protect the capillary tube from possible dirty particles.

By-pass valve:
 injects hot gas from the refrigeration compressor outlet into the intake circuit of the liquid separator
 • Maintains the cooling capacity in any load conditions
 • Keeps evaporator pressure constant thus preventing freezing

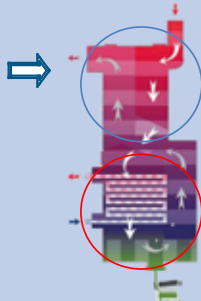
A timer controlled condensate drain ensures proper condensation water drain

Control panel:

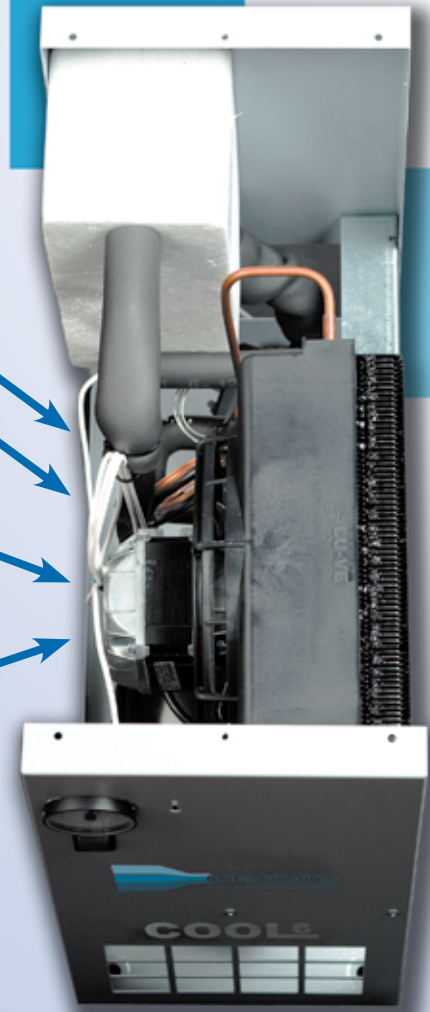
PDP indicator (green area)
 On-off switch

- Air is cooled down so to remove humidity
- Brazed plate heat exchanger
- Absolutely easy to install and transport, compact vertical layout
- Air-air and air-coolant heat exchangers included

Pre-heating of inlet compressed air before discharge in the compressed air system.



The cooler provokes evaporation and removes heat from the compressed air thus cooling it down



HFCs (hydrofluorocarbons)
 These hydrofluorocarbons do not contain chlorine, therefore have ZERO impact on the ozone layer (ODP) and, as a consequence, are not subject to any restrictions by the Montreal Protocol. Two examples are R134a and R404A.
 COOL 4 - COOL 30 → R134a gas

Model	Working pressure		Flow rate			Power W	Power supply V/Hz/Ph	Dimensions			Weight Kg	Connections	Refrigerant gas
	bar	psi	l/1'	m³/h	cfm			L	W	H			
COOL 4	16	232	350	21	12,4	126	230/50/1	23	56,6	56	19	3/4"	R 134 a
COOL 6	16	232	600	36	21,2	126	230/50/1	23	56,6	56	19	3/4"	R 134 a
COOL 9	16	232	850	51	30,0	163	230/50/1	23	56,6	56	19	3/4"	R 134 a
COOL 12	16	232	1200	72	42,4	228	230/50/1	23	56,6	56	20	3/4"	R 134 a
COOL 18	16	232	1825	110	64,4	293	230/50/1	23	56,6	56	25	3/4"	R 134 a
COOL 22	16	232	2150	129	76,0	380	230/50/1	23	56,6	56	27	3/4"	R 134 a
COOL 30	16	232	3000	180	106,0	419	230/50/1	23	56,6	56	30	3/4"	R 134 a

Reference conditions: Working pressure 7 bars; Working temperature 35°C; Ambient temperature 25°C; Pressure dew point +5° +/- 1
 Limit conditions: Min/max working pressure 5-16 bars; Min/max working temperature 10°-50°C; Min/max ambient temperature 5°-40°C

Correction factors:

Ambient temperature				Working temperature					Working pressure													
25°	30°	35°	40°	25°	30°	35°	40°	45°	50°	bar	5	6	7	8	9	10	11	12	13	14	15	16
1,00	0,92	0,84	0,80	1,57	1,24	1,00	0,82	0,69	0,58		0,90	0,96	1,00	1,03	1,06	1,08	1,10	1,12	1,13	1,15	1,16	1,17

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