



Compressed air dryer RDO 300 1 1/2" 5000 l/min "Zero-loss" automatic condensation drain

3900300-E



Product details

EAN	8712418423136
Manufacturer	Airpress Polska Sp. z o.o.
Weight (kg)	84 kg
Length (mm)	495 mm (4.95 dm)
Width (mm)	588 mm (5.88 dm)
Height (mm)	826 mm (8.26 dm)
SKU	3900300-E
Type	RDO
Control panel	Digital
Type condensation drain	Automatic "Zero-loss"
Air flow (m ³ /h)	300
Connection type	Female
Voltage (V)	230 V / 50 Hz / 1 Ph
IP classification	IP65
Cooling air volume (m ³ /h)	1,100 m ³ /h (18.333 m ³ /min)
Refrigerant	R513A
Refrigerant weight (kg)	1.07
Max. inlet air temperature (°C)	55 °C
Minimum ambient temperature (°C)	1
Maximum ambient temperature (°C)	45
Heat rejection (kW)	2.4
Noise level at 0 m dB(A)	>65
Air flow at 7 bar (l/min)	5000
Air flow at 7 bar (m ³ /h)	300 m ³ /h (5 m ³ /min)
Purity class - humidity (ISO 8573-1)	4
Air connection (")	1 1/2

Power (kW)	1
Maximum pressure (bar)	16
Pressure dew points (°C)	3

Description

RDO 300 refrigeration dryer 1 1/2" 5000 l/min 16 bar

RDO 300 1 1/2" 5000 l/min 16 bar refrigeration dryer is an advanced model dedicated to work in large industrial pneumatic systems. The device ensures effective drying of compressed air, eliminating moisture and protecting installations against corrosion, deposits and failures. Thanks to the stable PDP dew point of +5°C i The device guarantees reliable operation and long service life of pneumatic systems with a 3-stage drying system.

Key features

Class 4 Humidity Class: Meets ISO 8573-1 requirements, providing clean, high-quality air.

3-stage dehumidification system: Includes pre-cooling, moisture separation and re-heating of exhaust air, minimizing the risk of condensation.

Energy efficiency: Using dry exhaust air for inlet cooling increases efficiency and reduces energy loss.

Stainless steel heat exchanger: Guarantees durability and corrosion resistance, even in difficult working conditions.

IP 68 protection class: Full resistance to moisture and water allows the device to operate reliably in demanding environments.

Automatic condensate drain: The electronic system eliminates the risk of compressed air loss and ensures uninterrupted operation.

Applications

The RDO 300 1 1/2" 5000 l/min 16 bar refrigeration dryer is a reliable solution for industrial pneumatic installations. It is perfect for applications such as pneumatic transport, CNC machines, packaging systems and in large production lines requiring stable air treatment.



Technical specifications

Model: RDO 300

Nominal flow: 5000 l/min

Maximum pressure: 16 bar

Dew point: +5°C

Ambient temperature range: 1°C – 45°C

Connection: 1 1/2"

Advanced dehumidification technology

The RDO 300 dehumidifier is designed with a 3-stage heat exchanger which ensures an efficient moisture separation process. Pre-cooling the inlet air with dried exhaust air minimizes energy loss and increases system efficiency. The final stage of the process involves reheating the exhaust air, eliminating the risk of condensation. The automatic condensate drain additionally ensures continuous operation of the device, eliminating the need for manual operation.

Ecological and durable solution

The RDO 300 dehumidifier uses R134a refrigerant and stainless steel heat exchanger. This makes the device resistant to moisture and the risk of corrosion, ensuring a long service life of pneumatic systems.

Regular air dehumidification extends the life of the installation, minimizes maintenance costs and increases the efficiency of systems in any working environment.

