



Compressed air dryer RDO 50 1" 835 l/min "Zero-loss" automatic condensation drain

3900050-E



Product details

EAN	8712418423075
Manufacturer	Airpress Polska Sp. z o.o.
Weight (kg)	26 kg
Length (mm)	352 mm (3.52 dm)
Width (mm)	485 mm (4.85 dm)
Height (mm)	592 mm (5.92 dm)
SKU	3900050-E
Type	RDO
Control panel	Digital
Type condensation drain	Automatic "Zero-loss"
Air flow (m ³ /h)	50
Connection type	Female
Voltage (V)	230 V / 50 Hz / 1 Ph
IP classification	IP65
Cooling air volume (m ³ /h)	350 m ³ /h (5.833 m ³ /min)
Refrigerant	R513A
Refrigerant weight (kg)	0.18
Max. inlet air temperature (°C)	55 °C
Minimum ambient temperature (°C)	1
Maximum ambient temperature (°C)	45
Heat rejection (kW)	0.4
Noise level at 0 m dB(A)	>65
Air flow at 7 bar (l/min)	835
Air flow at 7 bar (m ³ /h)	50 m ³ /h (13.889 dm ³ /s)
Purity class - humidity (ISO 8573-1)	4
Air connection (")	3/4

Power (kW)	0.20
Maximum pressure (bar)	16
Pressure dew points (°C)	3

Description

RDO 50 1" refrigeration dryer 835 l/min 16 bar

RDO 50 1" 835 l/min 16 bar refrigeration dryer is an advanced model intended for use in extensive pneumatic systems. Designed for production and industrial plants, it is perfect for applications requiring stable treatment air, even under unstable operating conditions and variable loads. RDO series dehumidifiers achieve a pressure dew point (PDP) of +5°C, which makes them an effective solution for protecting pneumatic installations against moisture and corrosion.

Key features

Class 4 Humidity Class: Provides high-quality air compliant with ISO 8573-1.

3-phase dehumidification system: Includes secondary heating of exhaust air, eliminating the problem of steam condensation outside the pneumatic system.

Energy efficiency: Pre-cooling the intake air with dried exhaust air ensures higher efficiency and reduced energy loss.

High resistance to moisture: The heat exchanger made of stainless steel guarantees long-term operation even in difficult conditions.

IP 68 protection class: High degree of waterproofness and moisture resistance ensures reliable operation in demanding environments.

Automatic condensate drain: The electronic condensate drain system eliminates the risk of compressed air loss.

Applications

The RDO 50 1" 835 l/min 16 bar refrigeration dryer is an ideal solution for industrial and workshop pneumatic systems. Its advanced functions allow for stable air treatment in production plants, pneumatic transport systems, and CNC machines and other applications where air quality is crucial.



Technical specifications

Model: RDO 50

Nominal flow: 835 l/min

Maximum pressure: 16 bar

Dew point: +5°C

Ambient temperature range: 1°C – 45°C

Connection: 1"

Advanced dehumidification technology

The RDO 50 dehumidifier is designed with a 3-stage heat exchanger which ensures exceptional dehumidification efficiency. Pre-cooling the inlet air with dried exhaust air optimizes the moisture separation process. The third phase, i.e. secondary heating of the exhaust air, eliminates the risk of water vapor condensing outside the system. All these functions have been enriched with an automatic condensate drain, which ensures continuous operation and maintenance-free operation of the device.

Ecological and durable solution

The RDO 50 dehumidifier uses R134a refrigerant and a heat exchanger made of stainless steel, which ensures high resistance to moisture and minimizes the risk of corrosion, extending the life of the device.

Advanced features effectively eliminate moisture, preventing the formation of deposits and rust in pneumatic systems. Regular drying minimizes the risk of failure, improves the efficiency of systems and reduces service costs.

