



Compressed air dryer RDO 1900 2 1/2" 31665 l/min "Zero-loss" automatic condensation drain

3901900-E



Product details

EAN	8712418423211
Manufacturer	Airpress Polska Sp. z o.o.
Weight (kg)	310 kg
Length (mm)	662 mm (6.62 dm)
Width (mm)	856 mm (8.56 dm)
Height (mm)	1,534 mm (1.534 m)
SKU	3901900-E
Type	RDO
Control panel	Digital
Type condensation drain	Automatic "Zero-loss"
Air flow (m ³ /h)	1900
Connection type	Female
Voltage (V)	400 V / 50 Hz / 3 Ph
IP classification	IP65
Cooling air volume (m ³ /h)	3,800 m ³ /h (1.056 m ³ /s)
Refrigerant	R513A
Refrigerant weight (kg)	5.30
Max. inlet air temperature (°C)	55 °C
Minimum ambient temperature (°C)	1
Maximum ambient temperature (°C)	45
Heat rejection (kW)	15.5
Noise level at 0 m dB(A)	>65
Air flow at 7 bar (l/min)	31665
Air flow at 7 bar (m ³ /h)	1,900 m ³ /h (31.667 m ³ /min)
Purity class - humidity (ISO 8573-1)	4
Air connection (")	2 1/2

Power (kW)	3.8
Maximum pressure (bar)	16
Pressure dew points (°C)	3

Description

RDO 1900 refrigeration dryer 2 1/2" 31665 l/min 16 bar

RDO 1900 2 1/2" 31665 l/min 16 bar refrigeration dryer is a reliable device dedicated to large industrial plants and extensive pneumatic systems. Equipped with PDP dew point +5°C and a 3-stage drying system, effectively separates moisture from the compressed air, ensuring reliable protection of the installation against corrosion, deposits and failures. Thanks to its efficiency and durability, the RDO 1900 dehumidifier is an ideal solution for demanding industrial applications.

Key features

Class 4 humidity class: Meets the requirements of ISO 8573-1, providing the highest quality air.

3-stage dehumidification system: Effectively separates moisture, cools the intake air and reheats the exhaust air.

Energy efficiency: Minimizes energy consumption by pre-cooling the intake air with dry exhaust air.

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

IP 68 protection class: Provides full protection against moisture, water and dust, enabling reliable operation in demanding environments.

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

Applications

RDO 1900 2 1/2" 31665 l/min 16 bar refrigeration dryer is perfect for extensive pneumatic systems, such as pneumatic transport, production lines, CNC control systems and other applications requiring reliable and effective drying of compressed air.



Technical specifications

Model: RDO 1900

Nominal flow: 31665 l/min

Maximum pressure: 16 bar

Dew point: +5°C

Ambient temperature range: 1°C – 45°C

Connection: 2 1/2"

Advanced dehumidification technology

The RDO 1900 dehumidifier uses a 3-stage heat exchanger that optimizes the moisture separation process. Pre-cooling the inlet air with dried exhaust air reduces energy loss and increases system efficiency. Secondary heating of the exhaust air eliminates the risk of water vapor condensing outside the installation, and the automatic condensate drain ensures continuous operation of the device and minimizes operating costs.

Ecological and durable solution

The RDO 1900 dehumidifier uses R134a refrigerant and a stainless steel heat exchanger, which ensures high resistance to moisture and corrosion. Regular drying of compressed air prevents installation failures,

extends its service life and reduces service costs, ensuring reliable operation in any industrial environment.

