

racpid 106 Heater

Technical Data

RACPID 106 HEATER

Maximum Operating Pressure	16 bar g
Maximum Air Flow @ 7 bar g at 25 °C	0.6 m³/min - 46.8 m³/hr - 27 cfm
Differential Pressure	0.1 bar at nominal flow-rate
Ambient Temperature	from +1 °C to + 40 °C
Input Air Temperature	from +1 °C to + 50 °C
Adjustable Output Air Temperature	up to 100 °C
Air Connections	3/8" gas
Power Supply	230VAC – 50Hz (+/-10%) or 115VAC - 60Hz
Maximum Energy Consumption	1,300 W
Maximum Direct Current	5.5 A
Maximum Current (start peak)	9 A
Filtration Capacity – Coalescing Filter*	0.01 µm
Filtration Capacity – Active Carbon Filter*	0.003 mg/m³
Complies with Standards	EN 61010-1, EN 61000-6-2 and EN 55011
	<i>* parameters referred to RACPID 106 with filters</i>

FLEXYMASTER TUBE

Material	PVC
Diameter	20 mm
Length	5-10-12 m
Weight	0.5-0.8-0.9 kg

FLEXYPROBE TUBE

Material	PVC
Diameter	20 mm
Length	5-10-12 m
Weight	0.7-1.0-1.1 kg



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racpid 106 heater



- *Exceptional performance with waterborne paints and work improvement combined with a noticeable reduction of time and consumption*
- *Protection of compressed air-fed equipment in industrial applications*
- *Elimination of energy waste and constant maintenance of adjusted temperature*



Advantages

» Painting

- Elimination of orange-peel effect
- 50% decrease in drying time
- Easy and quick application
- Exceptional aesthetic results with waterborne paints and optimization of paint consumption

» Industry

- Compressed air heating for special tools/applications
- Protection of compressed air-fed equipment
- Compressed air heating for tool thawing
- Contaminant- and condensation-prevention inside gauges and instruments
- Hot air jet drying application in industrial washing machines to wash metals and mechanical parts

» Medical

- Improvement of comfort in breathing air applications
- Tool protection and better patient comfort in dental surgery applications

» General

- PID system (Proportional, Integrative, Derivative). This system avoids unnecessary energy consumption and maintains a constant temperature output, with a delta of ± 1 °C
- Flexymaster tube manufactured by us. Extremely light, practical and flexible, the Flexymaster tube is insulated in order to maintain input temperature, minimizing heat loss, and is covered with a special protective sheathing. The RACPID 106 delivers up to 600 l/min. With a simple T-fitting it is possible to connect two Flexymaster tubes to the heater feeding 2 separate painting guns

» Modular System

Depending on the needs of the end user, upon request we can provide the following:

- Pressure regulator guaranteeing air input flow at constant pressure
- Solenoid valve for interrupting air input by simply switching the heater off
- Filtration system (active carbon filter and coalescence filter)
- Flexymaster tube
- Flexyprobe tube
- Free-standing frame for mobile applications



Racid 106 Heater

The **RACPID 106 heater** can be used in the following fields:

- » Body Shops
- » Industrial Painting
- » Wood industry and joinery
- » Industry
- » Aeronautics
- » Naval
- » Carpentry
- » Medical/Dental

By adjusting the output temperature and keeping it constant, painting advantages are visible during both the spraying and drying stages. The RACPID 106, in fact, solves both problems caused by low winter temperatures, which do not permit paint nebulization at the correct temperatures, and by relative summer humidity which, if inferior to the dew point of the ambient temperature, can result in paint-contaminating condensation. After the paint is sprayed, the RACPID 106 can be used to simply blow hot air on the painted surface.

The RACPID 106 is not a mere thermoregulator. It also features a dual filter system consisting of a coalescence filter with automatic condensation drain for removing oil mists, lubricating oil vapors, cooling oil, etc. reducing residual oil in the air to just $0.01 \mu\text{m}$, and an active carbon filter for purifying the air to reach residual particles inferior to 0.003 mg/m^3 (class 1 – ISO 8573-1:2010). After 1,500 hours of operation a message appears on the heater display inviting to replace filters. The message appears both in the version with and without filters.

The RACPID 106 boasts a customized control panel as well as software based on a PID regulation algorithm, which guarantees the constant maintenance of adjusted temperature and is capable of heating the air up to 100 °C. The PID system also reduces unnecessary energy waste: as the adjusted parameter is being reached, consumed energy is zero.

The electronic controller memorizes energy consumption. Therefore, by setting the kW/h cost in the dedicated parameter, it is possible to know the exact energy cost.

Accessories

The following accessories are available to improve the performance of the RACPID 106 heater:

- » Flexymaster insulated tube
- » Flexyprobe tube
- » Solenoid valve
- » Pressure regulator
- » Free-standing frame for mobile applications

» Flexymaster Insulated Tube

Light, practical and flexible, the Flexymaster tube is insulated to maintain input temperature minimizing heat loss and is covered with a special protective sheathing.

Each heater can feed two Flexymaster tubes.

» Flexyprobe Tube

Like the Flexymaster tube, the Flexyprobe one is also light, practical, flexible and insulated to maintain input temperature, minimizing heat loss, and is covered with a special protective sheathing.

At the air outlet a probe monitors the adjusted temperature. Each heater can feed a Flexyprobe and a Flexymaster tube.

» Solenoid Valve

Allows to interrupt air input by simply switching the heater off.

» Pressure Regulator

Guarantees air input flow at constant pressure.

» Free-standing Frame for Mobile Applications

Frame especially designed to easily transport the heater.

