

The unit heater is used for heating of conference facilities, supermarkets, greenhouses, conservatories, sports halls, factories and warehouses...

With a water system of 75/65/20°C AVS® unit heaters can guarantee a capacity of 8.0 to 78.6 kW.

For smaller spaces, offices or shops there is a Mini version of the unit heater with a heating capacity of 4.5 to 9.6 kW.

The unit heater can be used for assembly against a wall, against the ceiling or on a metal truss by using strong brackets (see options).

The unit heater can be used with 100% ambient air, with 100% outside air or with mixed air.

Thickness (without fan) 40 cm.

Height and width: 41 / 53 / 65 / 77 / 89 cm

- the unit heater will be connected to a two pipe system, with a same end connection. The flow valve always has to be fitted to the top connection.

Casing:

- the casing is made of 1.25 mm thick galvanised steel plate, installed in such a way that screws and rivets are concealed.
- the casing is lacquered in the colour sandblast grey 001. Other colours on demand. The coating is a lightly structured and scratch resistant epoxy-polyester powder, sprayed electrostatically and baked at a temperature of 200 °C, thickness of +/- 125 µ. UV resistant due to ASTM G53.

Exhaust grille

- the horizontally built-in air exhaust grille is made of satin-black coated, slightly coved, aluminium slats.
- the unit heater is supplied with exhaust louvres set in Air Venturi position.
- with the shape and positioning of the louvres, the adjustable Air Venturi System (AVS®) ensures the direct mixture of the heated air with the ambient air. As a result the space is heated quicker and the warm air is forced downwards instead of remaining at the high level.
- modular AVS® version (optional)

Heat Exchanger:

- The heat exchanger consists of fins of pure aluminium pressed on mechanically extended pure red copper pipes. These pipes are connected to two steel collectors for left same end connection (1" for type 000, 100 and 200 / 1 1/2" for type 300 and 400). Air vent 1/8" and drain plug 1/2" are included.
- deliverable in five sizes of heat exchangers: with two or three rows of pipes.
- Pressure test: 25 bar
- Working pressure: 11 bar with a maximum temperature of 90°C. The heat exchanger is not suitable for the use of steam as a heat conductor.

Fan(en) with EC motor

- the EC motor is an EBM-Papst external motor integrated in one piece with a 1-10 VDC motor and a reduced noise level synthetic HyBlade® ventilator in one piece. Internal thermal contacts are provided to protect the motor: for type 000 and 100 an internal automatic safeguard, for type 200, 300 and 400 an external safeguard should be provided. These contacts can be connected to a Jaga safety switch fixed on the side of the casing. These thermal contacts can also be connected to a speed regulator.
- EC motor: 230 V single-phase, 1-10 VDC. Insulation Class B. Degree of protection: IP 54

OPTIONS:

Modulerende AVS® uitvoering

- with the modulating AVS-version the exhaust louvres are linked in pairs and connected with a servomotor. This motor produces a continuous back and forth movement of the adjustable louvres. The air turbulence thus created provides an even better temperature distribution. The movement angle may be easily adjusted from 0 to 90°. The modulating operation is integrated into the equipment and therefore can not be delivered as an accessory.
- the Mini Fan Heater (Type 021/031) not available in the modulating version.

Air inlet options:

- air mixing box
- shutter box 180°, open/ center/ close, controlled by 230 V servo motor.
- shutter box 90°, open/ center/ close, controlled by 230 V servo motor.
- filter box with a filter element, self-extinguishable in accordance to DIN 53438-1. Heat resistant up to 100 °C. (efficiency: Ashrae-tissue 90%. Complies to classification G4 in accordance DIN EN 779.)
- angular box
- extension box
- extension channel
- 2-sided air inlet box
- wall channel box
- air inlet mouth piece for wall channel box with grille
- roof rain protection cowling piece for connection on wall channel box
- roof rain protection cowling piece for connection on extension channel
- outside air grille
- automatic closing flaps for the outside air grille

Air exhaust options:

- 4- Sided AVS air diffuser
- exhaust cone
- exhaust mouth piece
- double deflection front grille
- protection grille for sport centers

Ophangsystemen:

- consoles en montagesets voor wand en plafonds
- bevestigingsset voor metalen gebinte

Thermostats and controls:

- Jaga EC thermostat 0...10V
- Jaga thermostat JRT 300
- speed control with potentiometer
- 0 ... 10V via home automation
- servo motor "on/off" or "modulating"
- switch boxes for servo motors
- thermostat for frost protection

Manufacturer: Jaga N.V.

Jaga EC unit heater AVS®

Jaga Mini EC unit heater AVS®