

# Air water heater series **HC-EC 230V**

The HC-EC series water heater is intended for industrial facilities with a distributed central heating system. This device has an axial forcing fan, equipped with a brushless EC motor, which is characterized by high energy efficiency and a wide range of rotational speed regulation. The heater also has an EPP casing (so-called expanded polypropylene), which makes it perfect for even difficult working conditions, e.g. in places with high humidity. The use of this type of housing ensures quiet operation of the device.



## Place to use:

The HC-EC series water heater is used for heating objects such as:

- logistics centers,
- storage rooms,
- commercial pavilions,
- production halls,
- garages / car repair shops.



## Device features:

- fan with EC motor with smooth regulation,
- environmentally friendly durable EPP housing,
- quiet and reliable operation of the device,
- easy to assemble,
- high energy efficiency of the device.



|                                      | UNIT  | HC 20-EC       | HC 30-EC       | HC 35-EC       | HC 45-EC       | HC 50-EC       | HC 70-EC       |
|--------------------------------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|
| PRODUCT CODE                         |       | WHHC20-EC-1985 | WHHC30-EC-1986 | WHHC35-EC-1987 | WHHC45-EC-1988 | WHHC50-EC-1989 | WHHC70-EC-1990 |
| NOMINAL HEATING CAPACITY             | kW*   | 24,7           | 30,4           | 36,0           | 50,5           | 48,6           | 67,2           |
| HEATING CAPACITIES RANGE             | kW**  | 1,91 – 32,7    | 2,28 - 40,3    | 2,80 - 47,6    | 4,54 - 66,7    | 4,36 - 64,1    | 5,93 - 88,9    |
| MAXIMUM AIRFLOW                      | m³/h  | 4300           | 4100           | 3700           | 3400           | 4800           | 4000           |
| MAXIMUM ISOTHERMAL STREAM RANGE      | m     | 21             | 20,5           | 19,5           | 19             | 23             | 20             |
| NUMBER OF ROWS                       | pcs.  | 1              | 1              | 2              | 2              | 2              | 3              |
| WATER CAPACITY                       | dm³   | 0,65           | 0,8            | 1,35           | 1,7            | 1,95           | 2,85           |
| MAXIMUM TEMPERATURE OF HEATING FLUID | °C    | 120            | 120            | 120            | 120            | 120            | 120            |
| MAXIMUM PRESSURE OF HEATING FLUID    | MPa   | 1,6            | 1,6            | 1,6            | 1,6            | 1,6            | 1,6            |
| CONNECTORS DIAMETER                  | cal   | 3/4            | 3/4            | 3/4            | 3/4            | 3/4            | 3/4            |
| VOLTAGE / FREQUENCY                  | V/Hz  | 230/50         | 230/50         | 230/50         | 230/50         | 230/50         | 230/50         |
| NOMINAL MOTOR CURRENT                | A     | 1,5            | 1,5            | 1,5            | 1,5            | 2,0            | 2,0            |
| NOMINAL MOTOR SPEED                  | rpm   | 1600           | 1600           | 1600           | 1600           | 1590           | 1590           |
| NOMINAL MOTOR POWER                  | W     | 315            | 315            | 315            | 315            | 420            | 420            |
| IP PROTECTION RATING OF MOTOR        | -     | 44             | 44             | 44             | 44             | 44             | 44             |
| NET WEIGHT                           | kg    | 13,5           | 14             | 14,5           | 16             | 18             | 20             |
| NOISE                                | dB*** | 60             | 59             | 58             | 58             | 59             | 58             |

\* for the parameters 90/70 °C and the inlet air temperature 0 °C

\*\* the max. capacity for 120/90 °C, 0 °C the inlet air temperature, 100% airflow // the min. capacity for 40/30 °C, 20 °C the inlet air temperature, 50% airflow

\*\*\* the measurement at the distance of 5 m from the device