

# **IRICON® 20 kW air /water Modulating high temperature heat pump**

**for 180 - 250 m<sup>2</sup> living space** (Loss of heat loss not more than 40 watts / m<sup>2</sup> / a) - sh. energy certificate

**up to 70 ° C water temperature**

**COP 5.61 (A12 / W55)**

**Energy efficiency: A ++**

**High-performance refrigerant R 290**, environmentally neutral, non-toxic, (no toxic fluoride such as R 410a or R 134a or similar)

**no intensive annual maintenance** refrigerant line between the outdoor unit and the indoor unit

### **Average efficiency:**

Nominal = 126% (not colder than - 10 ° C in winter)

Warm climatic conditions = 161% (not colder than -2 ° C in winter)

Cold climatic conditions = 107% (cold winters to -20 ° C)

### **\* Energy consumption according to EU standard on average per year:**

Nominal = 5552 kW / h at 20 ct / kW / h = € 1110

Warm climatic conditions = 2695 kW / h at 20 ct / Kw / h = € 540

Cold climatic conditions = 11928 kW / h at 20 ct / kW / h = € 2385

### **Electrical connection data:**

Mains voltage: 400 V / 50 Hz

Connection cable diam. 5 x 2.5 mm<sup>2</sup>

Protection: 3 x 25 A

### **Temperature control:**

Room thermostat with display (wired) with display of the actual and set temperature, included in the delivery

Room thermostat: optionally available with remote control sh. under accessories

Without room thermostat controlled via adjustable heating curve via outdoor sensor

### **Dimensions and weights:**

Pilot control: 740 x 630 x 530 mm (H x W x D) Weight 66 kg

Heat pump: 1660 x 1035 x 523 mm (H x W x D) Weight 245 kg

### **Supplied accessories:**

- Pilot hydraulic indoor units, pre-programmed ready for connection to radiator heaters with electronic control, easy to change for underfloor heating
- Buffer tank: 60 L integrated in the pilot, mandatory for controlled heating circuits, in addition to the advantages of use various accessories and elimination of the installation of an external buffer tank and possibility, e.g. connection a 2nd heating circuit or heating a swimming pool
- electric auxiliary heating, programmable with 2-4-6 kW in extreme cold periods,
- Outside temperature sensor, required to control the heat pump according to the respective outside temperatures
- filter valve, 1 inch, to be cleaned in operating condition,
- Internal thermostat with display, display of set point and actual temperature
- Hydraulic connection kit 1.5 m long, 2 flexible hoses with double-sided MS connectors
- Electric frost protection cable for condensate drain
- 2 wire shielded control cable 10 m long (bus line)
- English generally well understandable installation and operating instructions

\* The stated average consumption values depend on many factors and are statistically determined according to the same fixed specifications and not transferable to other buildings with different insulation. However, the data provide information about the differences in the climatic conditions as reference values.