

## Unique: The control unit ECO<sub>SMART</sub> Pre-wired, tested and optimally matched



### Flow control

- Continuously 0 - 100% over 3 speed automatic

#### Optional:

- Flow rate constant
- Constant pressure
- CO<sub>2</sub> regulation
- Humidity control

### Bypass Summer / Winter

- internal sensor with adjustable threshold values for heat recovery
- Free Cooling

### Filter monitoring

- pressure control 0/1

### Recirculation damper

- Only in night mode ON

### Heating surface

#### Optional:

- Heating register
- Electric
- Heat pump
- Gas pre-mix burner (not with GS-Flat)

### Cooling

- Free Cooling

#### Optional:

- Cooling coil water
- Cooling coil DX (heat pump)

### Shutdown fire

- From supply and exhaust air
- From exhaust air

### Icing protection of heat recovery unit

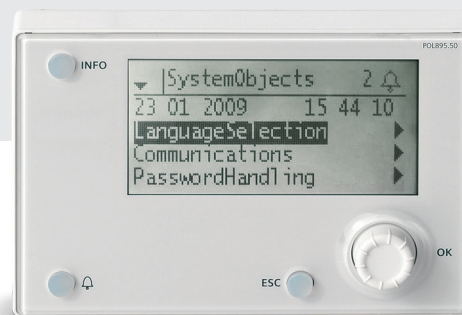
- Siphon 0/1

#### Optional:

- Electric preheating



### Control type

- Exhaust Cascade
- Space cascade
- Supply air cascade



Controller HMI

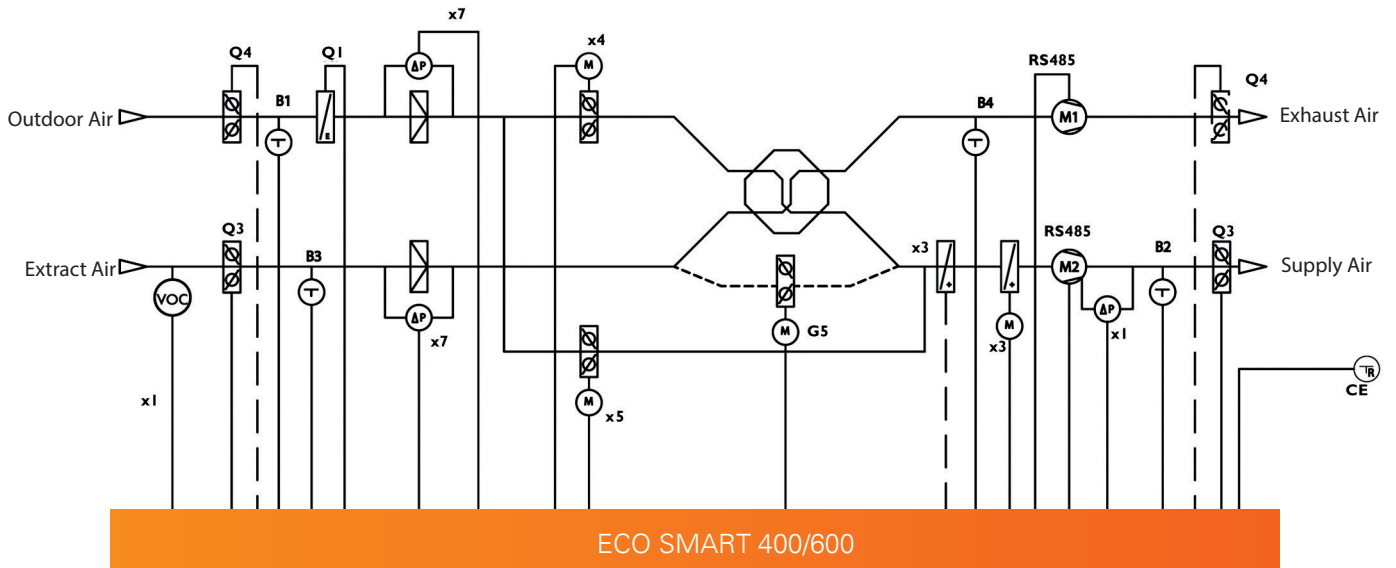
### Communication

- Cloud-based remote maintenance system 
- App control **(NEW)** 
- SD card and internal memory

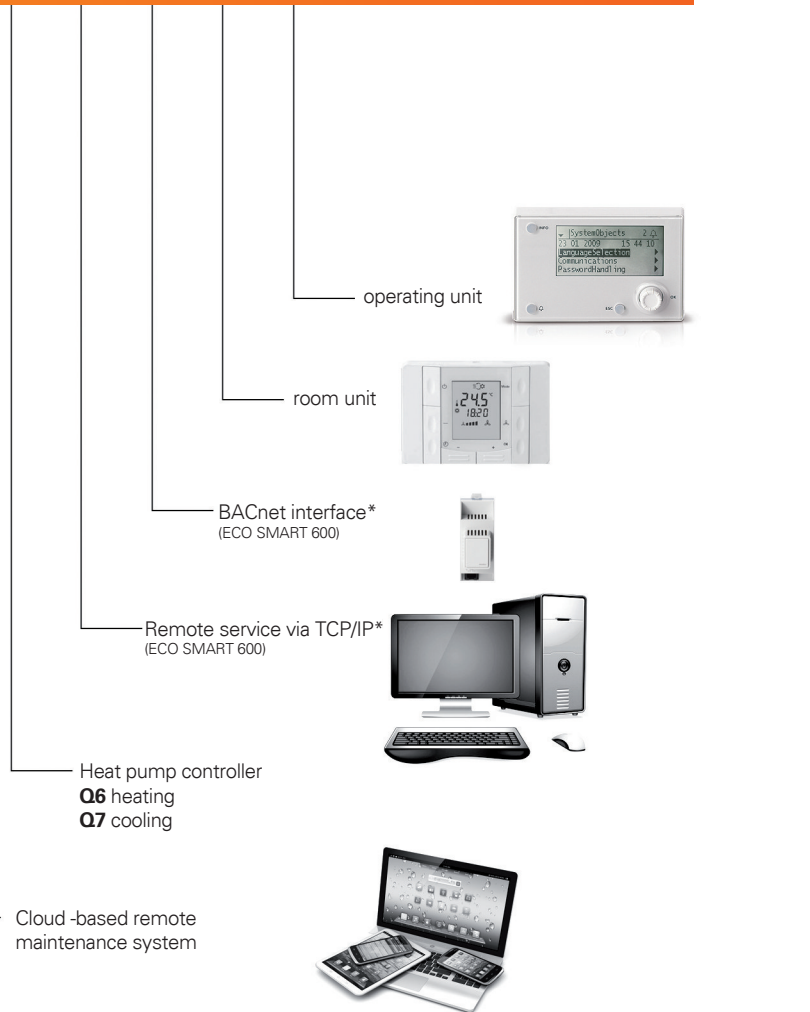
#### Optional:

- Web communications over TCP / IP (optional)
- BACnet; Mod-Bus; KNX; Lon
- Connection to the store systems

**Circuit diagram**



- B1 Outside air sensor
- B2 Supply air
- B3 Extracted air sensor
- B4 Exhaust air sensor \*
- CE Room air sensor
- RS485 Supply fan
- RS485 Exhaust fan
- x1 Air quality sensor exhaustair \*
- x1 Pressure constant- /  
volume flow constant control \*
- x3 Heating coil Water \*
- x3 Electric heater \*
- x4 Bypass winter
- x5 Bypass summer (Booster)
- x7 Filter Siphon outside air
- x7 Filter Siphon exhaust
- Q1 Electric heater "antifreeze" \*
- Q3 Supply Actuator \*
- Q3 Exhaust air / recirculation air actuator \*
- Q4 Exhaust air actuator \*
- Q4 Outside air actuator \*
- Q5 Recirculation actuator \*

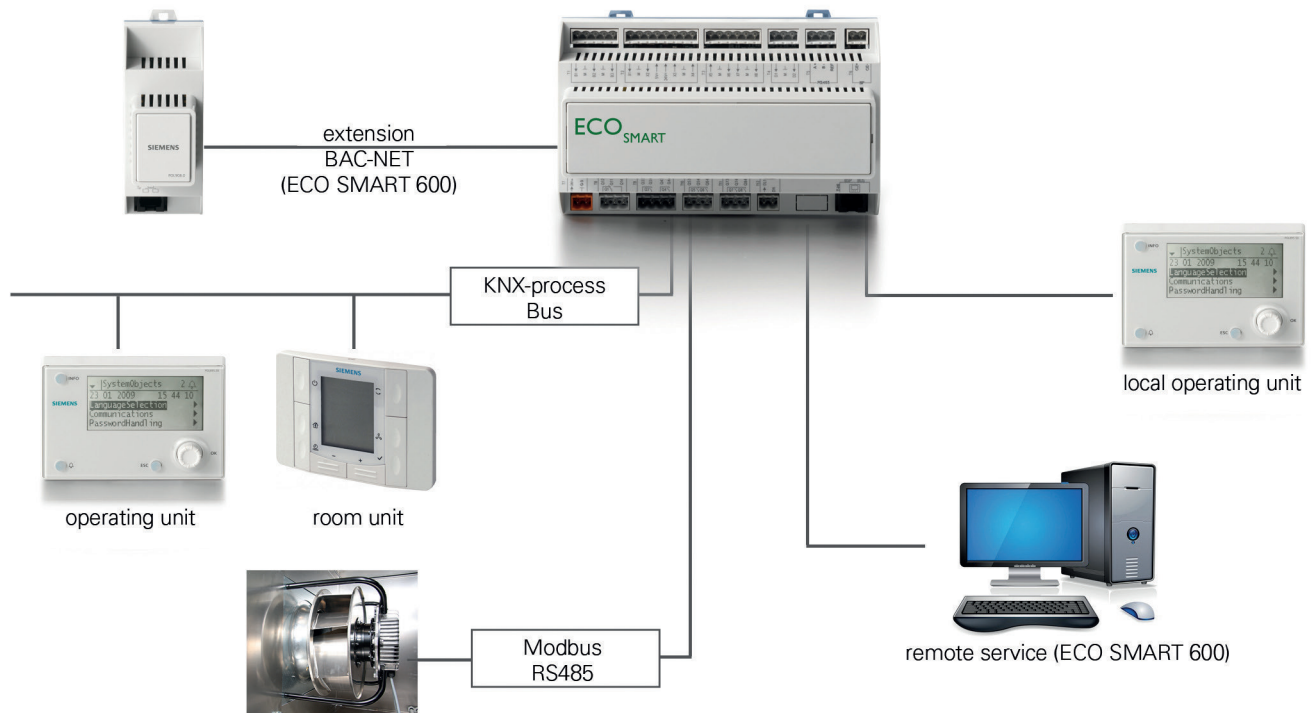


\* optionally available



ECOSMART IC provides a simple and convenient operation

Using this, especially for the multi Cross devices developed, regulation and control system can easily be changed. Select the mode, temperature or the desired operating time.



For customer-friendly commissioning the ECO SMART IC is configured system-specifically for each customer. To start up the WRG unit, only the setpoints, speeds and response times must be individually adjusted by the customer.



- Room unit for operation on site
- Operating unit (HMI) for commissioning and function expansion
- Factory pre-programmed and configured rules
- User-friendly menu
- Expansion modules m1 BACnet interface (pre-programmed) \*
- Remote service via TCP / IP \*
- CO2 / pressure or volume flow constant control possible
- Software updates via SD card

\* optionally available