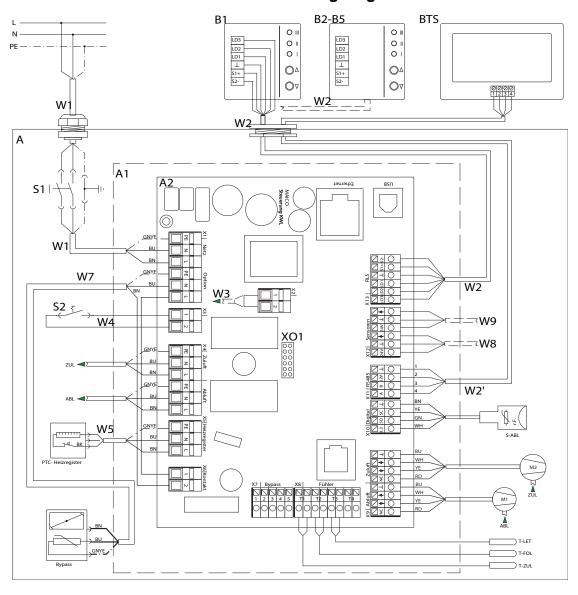
WS 170 KBRET



WS 170 KBR / KBL / KBRET / KBLET wiring diagram



WS 170 KBRET



- A WS 170 / RB 170 ventilation unit
- A1 Electronic slide-in module
- A2 Controlled domestic ventilation unit control
- B1- RLS 1 WR / RB-ZF4 single control unit
- B2-B5 Parallel connection max. 5 single control units
- BTS RLS T1 WS touchscreen control unit
- W1 230 V AC connecting cable
- W2 Screened control cable for single control unit (provided by customer), e.g. LIYY 6 x 0.34 mm²
- W2' RLS T1 WS screened control cable (provided by customer), e.g. LIYY 4 x 0.34 mm²
- W5 Connecting cable for PTC heat register
- W7 Connecting cable for bypass motor
- S1 Unit switch
- S2 Door contact switch
- M1 Exhaust air/outgoing air fan
- M2 Outside air/supply air fan
- T-LET Temperature sensor for air inlet for outside air
- T-FOL Temperature sensor for outgoing air
- T-ZUL Temperature sensor for supply air
- S-ABL Combination sensor for exhaust air

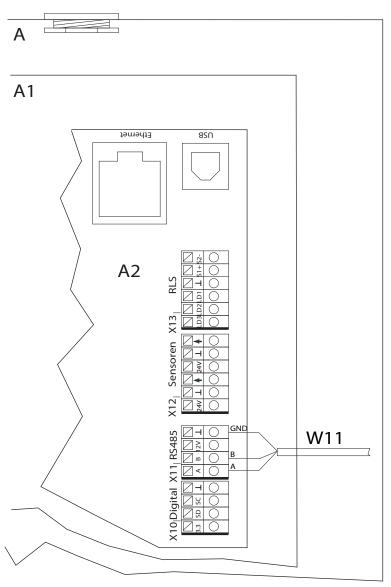
Further connection options

- W2' Connecting cable for RLS T1 WS or Modbus touchscreen control unit, e.g. LIYY 4 x 0.34 mm²
- W3 Connecting cable (provided by customer) for external safety device with potential-free contact 12 V/2 A
- W4 Connecting cable for door contact switch
- W8 Connecting cable (provided by customer) for external sensor 1
- W9 Connecting cable (provided by customer) for external sensor 2
- X01 Slot for optional communication plug-in module EnOcean/KNX
- ZP1 230 VAC connecting terminals for switching the additional circuit boards
- USB USB service interface Ethernet network interface (LAN)

WS 170 KBRET



WS 170 ventilation unit with RLS 1 WR room air control



A - WS 170 electronic slide-in module

A2 - Control circuit board: jumper 8 bridged (= factory setting)

B1 - 1. RLS 1 WR room air control

B2 - 2. RLS 1 WR room air control

W1 - 230 V AC connecting cable

W2' - Control cable for room air control

V - Distributor (supplied by the customer)

You can connect up to 5 RLS 1 WR room air controls to the ventilation unit. If several room air controls are used, no CO2 sensor may be connected.

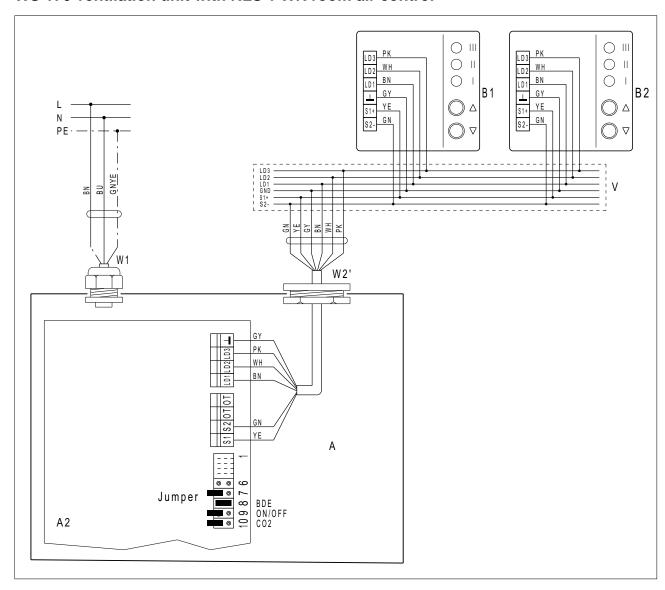
RLS 1 WR room air control can also be connected to RLS D1 WR room air control.

No need for distributor "V" if only one RLS 1 WR room air control is connected.

WS 170 KBRET



WS 170 ventilation unit with RLS 1 WR room air control



A - WS 170 electronic slide-in module

A2 - Control circuit board: jumper 8 bridged (= factory setting)

B1 - 1. RLS 1 WR room air control

B2 - 2. RLS 1 WR room air control

W1 - 230 V AC connecting cable

W2' - Control cable for room air control

V - Distributor (supplied by the customer)

You can connect up to 5 RLS 1 WR room air controls to the ventilation unit. If several room air controls are used, no CO2 sensor may be connected.

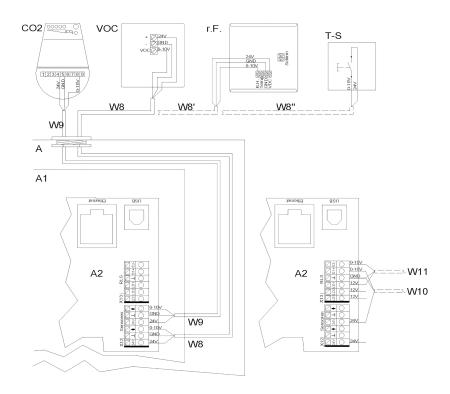
RLS 1 WR room air control can also be connected to RLS D1 WR room air control.

No need for distributor "V" if only one RLS 1 WR room air control is connected.

WS 170 KBRET



Connection of sensors to WS 170 KBR / KBL / KBRET / KBLET



- A Ventilation unit
- A1 Electronic slide-in module
- A2 Controlled domestic ventilation unit control
- CO2 CO2-sensor (# accessories)
- VOC Air quality controller (# accessories)
- r.h. Humidity sensor (# accessories)
- T-S Intermittent ventilation button / external potential-free contact
- W8 Connecting cable (provided by customer) for external VOC sensor, e.g. LIYY 3 x 0.5 mm²
- W8' Connecting cable (provided by customer) for external r.h. sensor 1, e.g. LIYY 3 x 0.5 mm²
- W8" Connecting cable (provided by customer) external pushbutton / potential-free contact (function intermittent ventilation/sensor type = digital), e.g. LIYY 2 x 0.5 mm²
- W9 Connecting cable (provided by customer) external CO2 sensor 2, e.g. LIYY 3 x 0.5 mm² W10 Connecting cable (provided by customer) external sensor 3, e.g. LIYY 3 x 0.5 mm²
- W11 Connecting cable (provided by customer) for external sensor 4, e.g. LIYY 3 x 0.5 mm²

The control's sensor inputs can be freely parametrised.

The inputs are not defined for a particular sensor type.

When commissioning a sensor, the sensor input on the control must be activated and the sensor type specified # Commissioning and maintenance instructions.

If the RLS 1 WR is deactivated (parameters - single control unit

inactive) on the controller, a connection of up to four sensors is possible.

The power supply to sensors 3 + 4 can be ensured via terminals LD1, LD2, LD3 (all 12 VDC) or with double assignment, via the 24 VDC supply of sensor connections.