

SAVE VSR 500

Accessories and electrical connections





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Description of icons

Electric heater



Water heater



Water cooler



Primary evaporator



Change-over heater/cooler



Air flow control



Fireplace mode



Manual mode



Holidays



Vacuum cleaner *



Cooker hood *



Away mode



Crowded mode



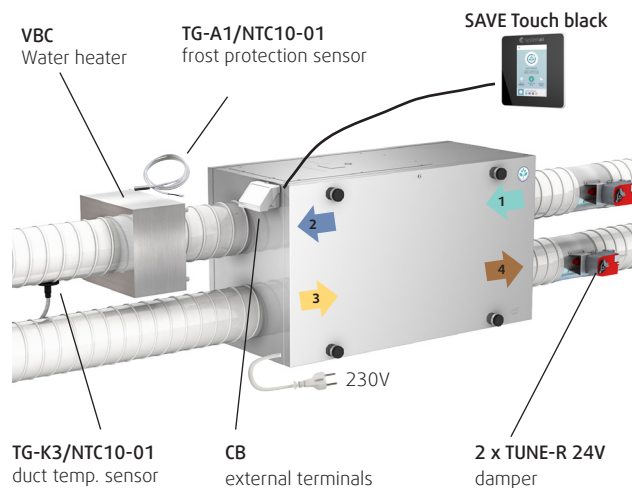
* function is only available via an external signal



SAVE VSR 500 + VBC

With water heater 

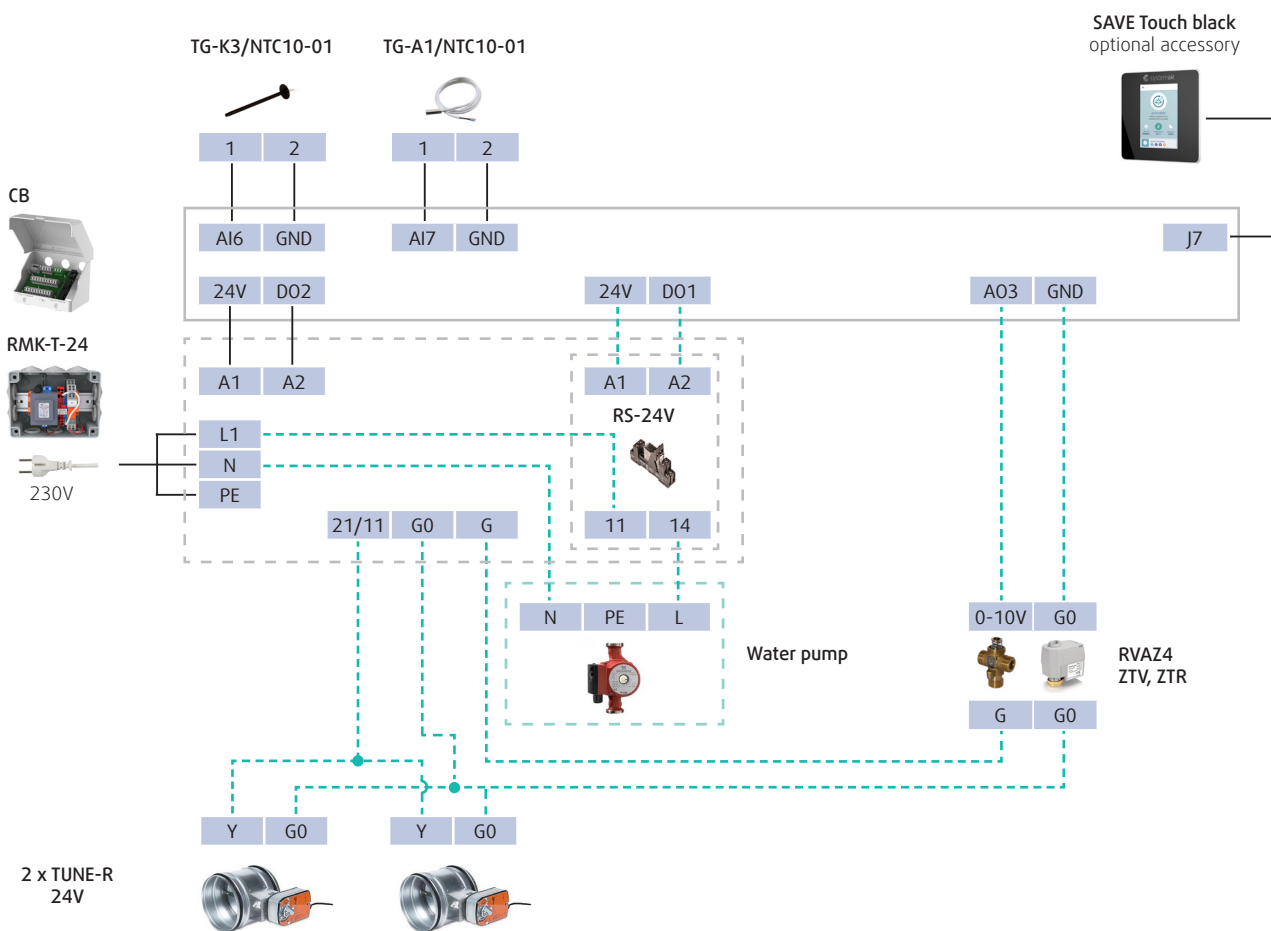
Systemair products	Item no.	Description	Pcs
SAVE VSR 500		Air handling unit	1
TUNE-R 24V		Damper with actuator	2
VBC		Water heater	1
RMK-T-24	153548	Switching module	1
RS-24V	159484	Relay	1
RVAZ4	9862	Valve actuator 24A, 0-10V	1
ZTV, ZTR		2 or 3-way valve	1
TG-K3/NTC10-01	211524	Temperature sensor	1
TG-A1/NTC10-01	211523	Frost protection sensor	1
External accessories			
Water pump			1



Legend:

1. Outdoor air
2. Supply air
3. Extract air
4. Exhaust air

Wiring diagram



NOTE:

All outputs and inputs must be configured in the Service menu. In case the inputs or outputs listed in the diagram are occupied, any available ones can be selected (e.g. A05 instead of A03). All PE terminals must be grounded.

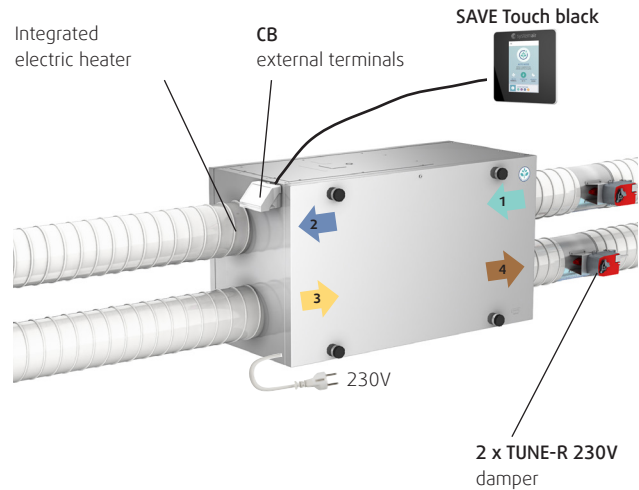
Legend:

-  Cable included from Systemair
-  The cable is not included with the Systemair, recommended CYKY type .. x 1,0
-  Accessories not included from factory

SAVE VSR 500 + ELB

With electric heater 

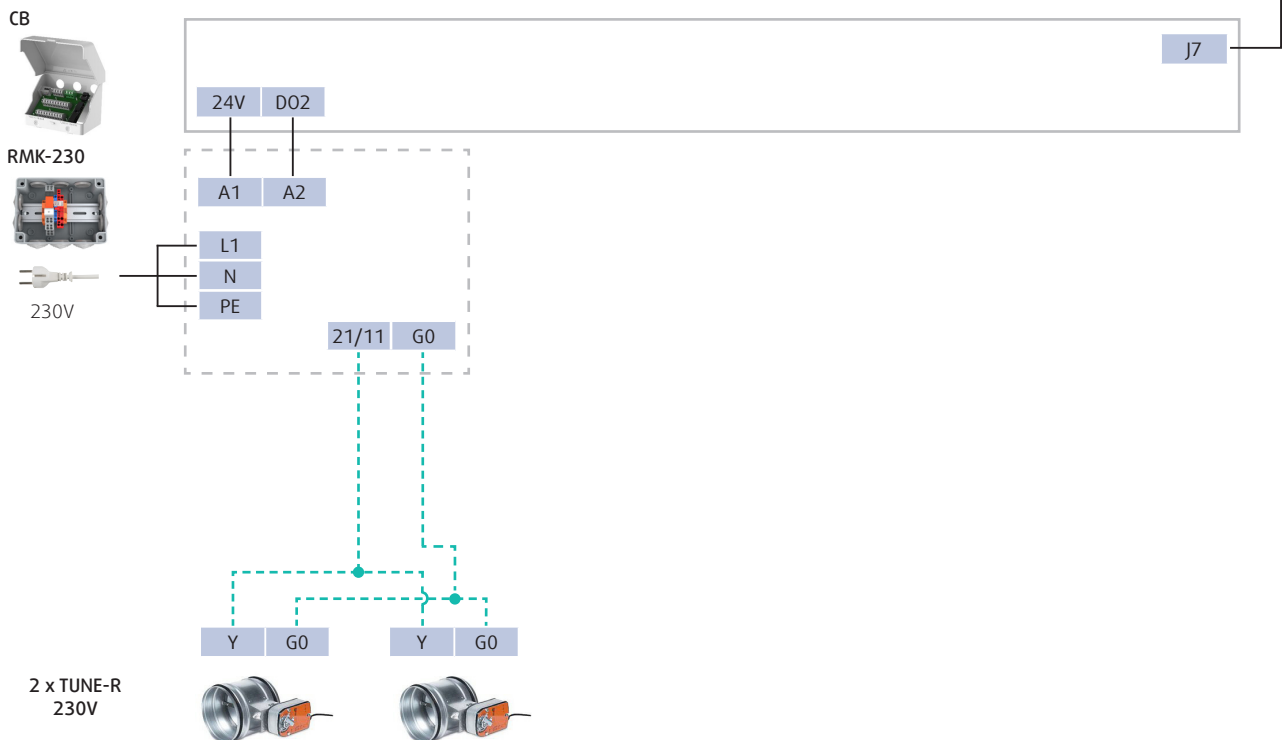
Systemair products	Item no.	Description	Pcs
SAVE VSR 500		Air handling unit	1
TUNE-R 230V		Damper with actuator	2
RMK-230	153549	Switching module	1



Legend:

- 1. Outdoor air
- 2. Supply air
- 3. Extract air
- 4. Exhaust air

Wiring diagram



NOTE:

All outputs and inputs must be configured in the Service menu. In case the inputs or outputs listed in the diagram are occupied, any available ones can be selected (e.g. A05 instead of A03).
Všechny PE svorky musí být uzemněny.

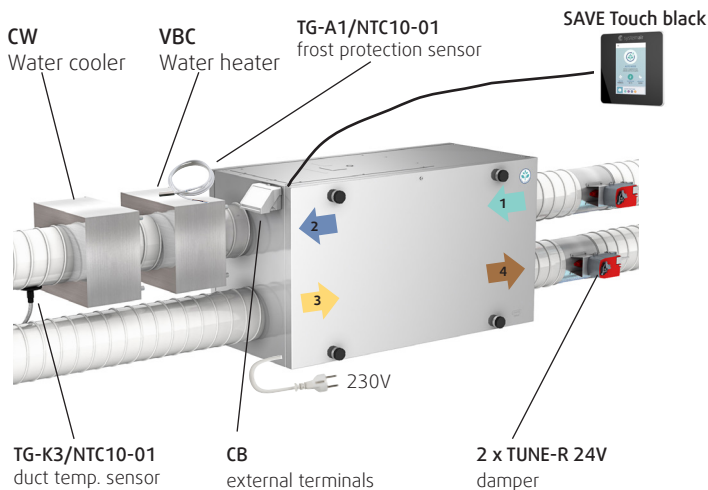
Legend:

-  Cable included from Systemair
-  The cable is not included with the Systemair, recommended CYKY type .. x 1,5
-  Accessories not included from factory

SAVE VSR 500 + VBC + CW

With water heater and water cooler  

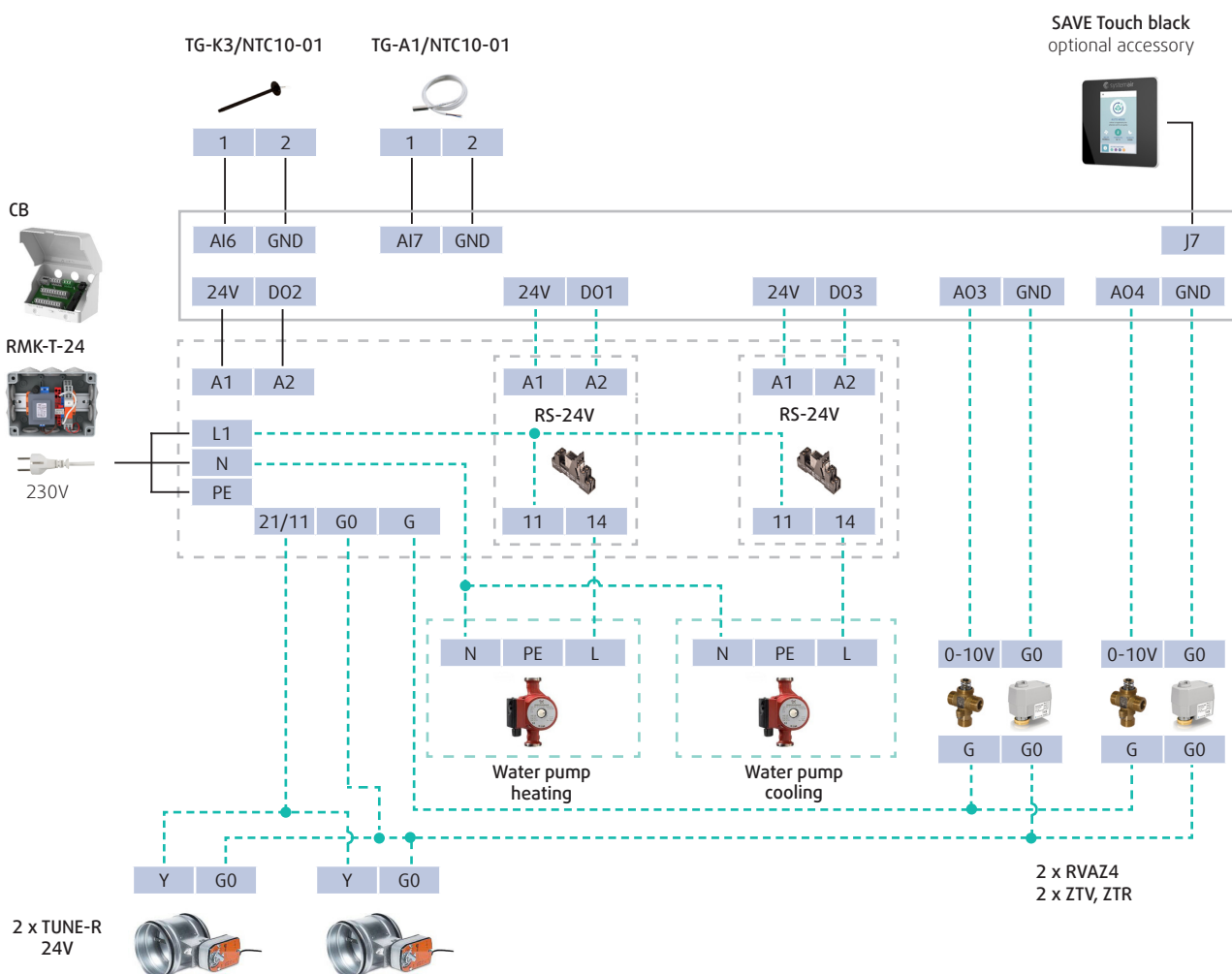
Systemair products	Item no.	Description	Pcs
SAVE VSR 500		Air handling unit	1
TUNE-R 24V		Damper with actuator	2
VBC		Water heater	1
CW		Water cooler	1
RMK-T-24	153548	Switching module	1
RS-24V	159484	Relay	2
RVAZ4	9862	Valve actuator 24A, 0-10V	2
ZTV, ZTR		2 or 3-way valve	2
TG-K3/NTC10-01	211524	Temperature sensor	1
TG-A1/NTC10-01	211523	Frost protection sensor	1
External accessories			
Water pump			2



Legend:

1. Outdoor air
2. Supply air
3. Extract air
4. Exhaust air

Wiring diagram



NOTE:

All outputs and inputs must be configured in the Service menu. In case the inputs or outputs listed in the diagram are occupied, any available ones can be selected (e.g. AO5 instead of AO3). All PE terminals must be grounded.

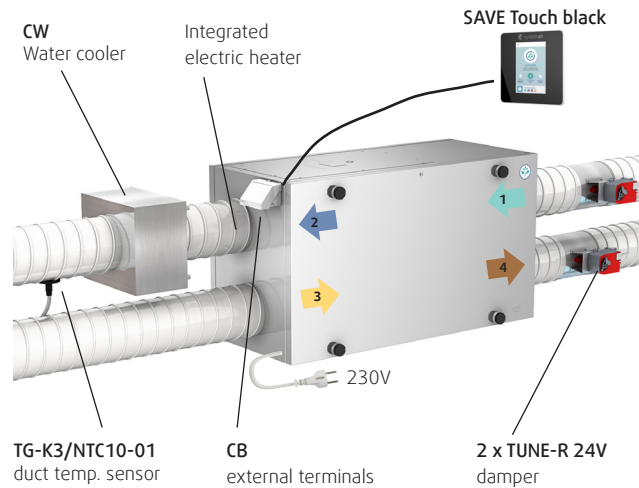
Legend:

-  Cable included from Systemair
-  The cable is not included with the Systemair, recommended CYKY type .. x 1,0
-  Accessories not included from factory

SAVE VSR 500 + ELB + CW

With electric heater and water cooler  

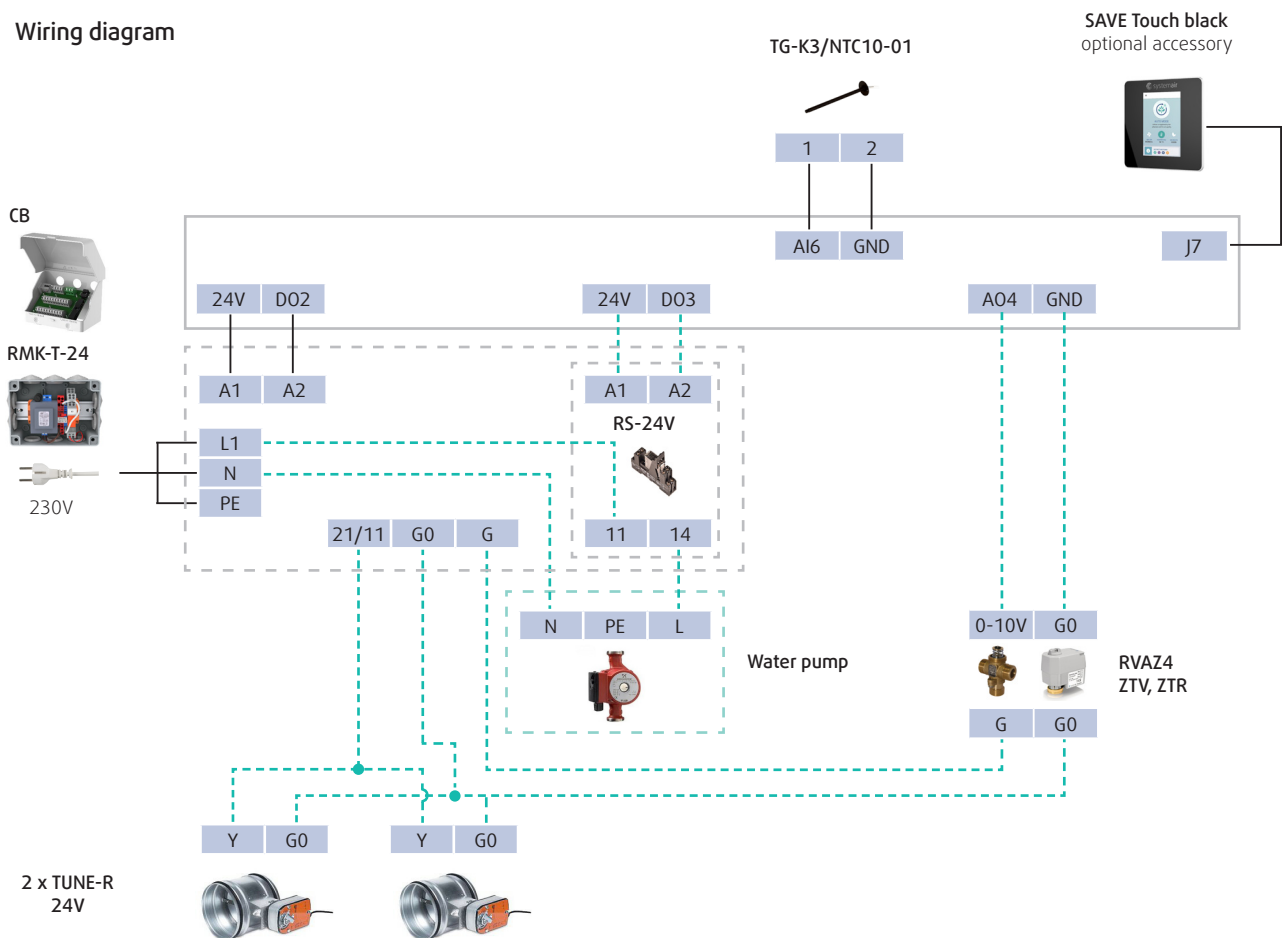
Systemair products	Item no.	Description	Pcs
SAVE VSR 500		Air handling unit	1
TUNE-R 24V		Damper with actuator	2
CW		Water cooler	1
RMK-T-24	153548	Switching module	1
RS-24V	159484	Relay	1
RVAZ4	9862	Valve actuator 24A, 0-10V	1
ZTV, ZTR		2 or 3-way valve	1
TG-K3/NTC10-01	211524	Temperature sensor	1
External accessories			
Water pump			1



Legend:

1. Outdoor air
2. Supply air
3. Extract air
4. Exhaust air

Wiring diagram



NOTE:

All outputs and inputs must be configured in the Service menu. In case the inputs or outputs listed in the diagram are occupied, any available ones can be selected (e.g. A05 instead of A03). All PE terminals must be grounded.

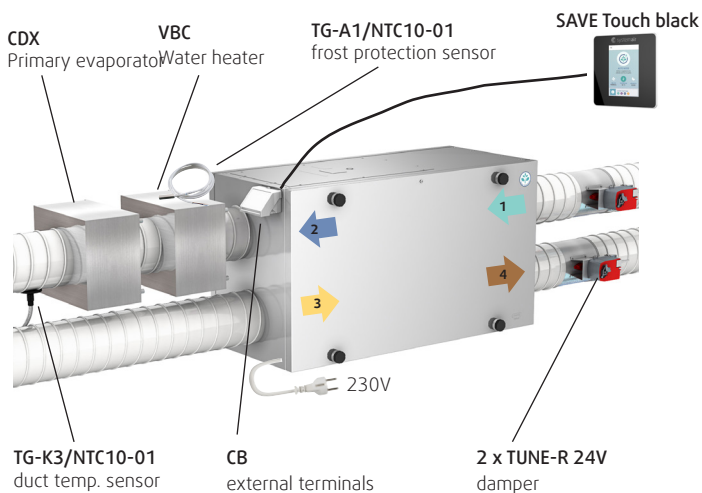
Legend:

-  Cable included from Systemair
-  The cable is not included with the Systemair, recommended CYKY type .. x 1,0
-  Accessories not included from factory

SAVE VSR 500 + VBC + CDX

With water heater and direct evaporator  

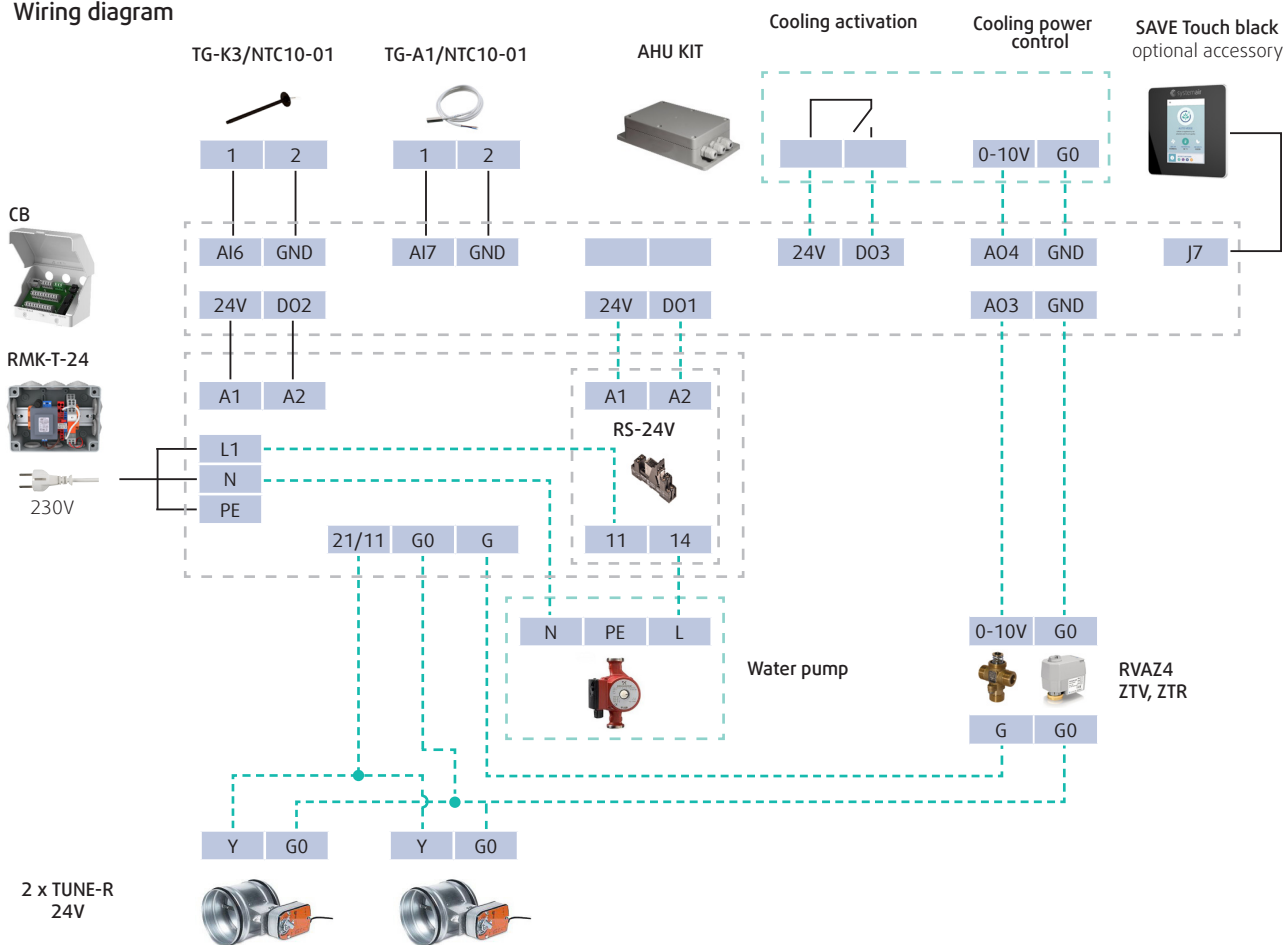
Systemair products	Item no.	Description	Pcs
SAVE VSR 500		Air handling unit	1
TUNE-R 24V		Damper with actuator	2
VBC		Water heater	1
CDX		Primary evaporator	1
RMK-T-24	153548	Switching module	1
RS-24V	159484	Relay	1
RVAZ4	9862	Valve actuator 24A, 0-10V	1
ZTV, ZTR		2 or 3-way valve	1
TG-K3/NTC10-01	211524	Temperature sensor	1
TG-A1/NTC10-01	211523	Frost protection sensor	1
External accessories			
AHU KIT		Cooling device controller	1
Water pump			1



Legend:

1. Outdoor air
2. Supply air
3. Extract air
4. Exhaust air

Wiring diagram



NOTE:

The cooling activation signal may need to be provided via a relay (NO/NC contact). The internal wiring of the AHU KIT depends on the equipment supplied, it is possible that activation of cooling may be necessary. All outputs and inputs must be configured in the Service menu. In case the inputs or outputs listed in the diagram are occupied, any available ones can be selected (e.g. A05 instead of A03). All PE terminals must be grounded.

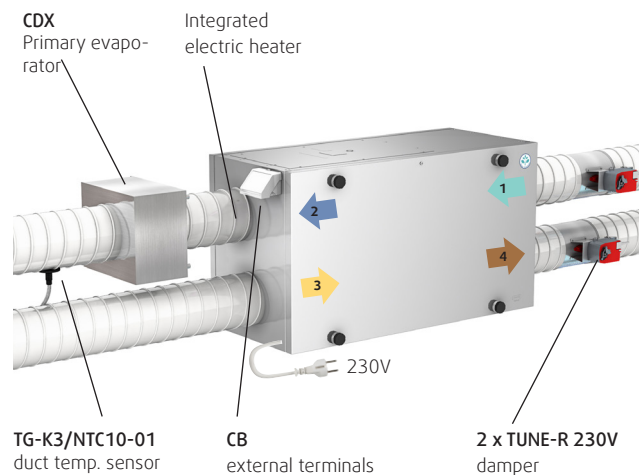
Legend:

-  Cable included from Systemair
-  The cable is not included with the Systemair, recommended CYKY type .. x 1,0
-  Accessories not included from factory

SAVE VSR 500 + ELB + CDX

With electric heater and direct evaporator  

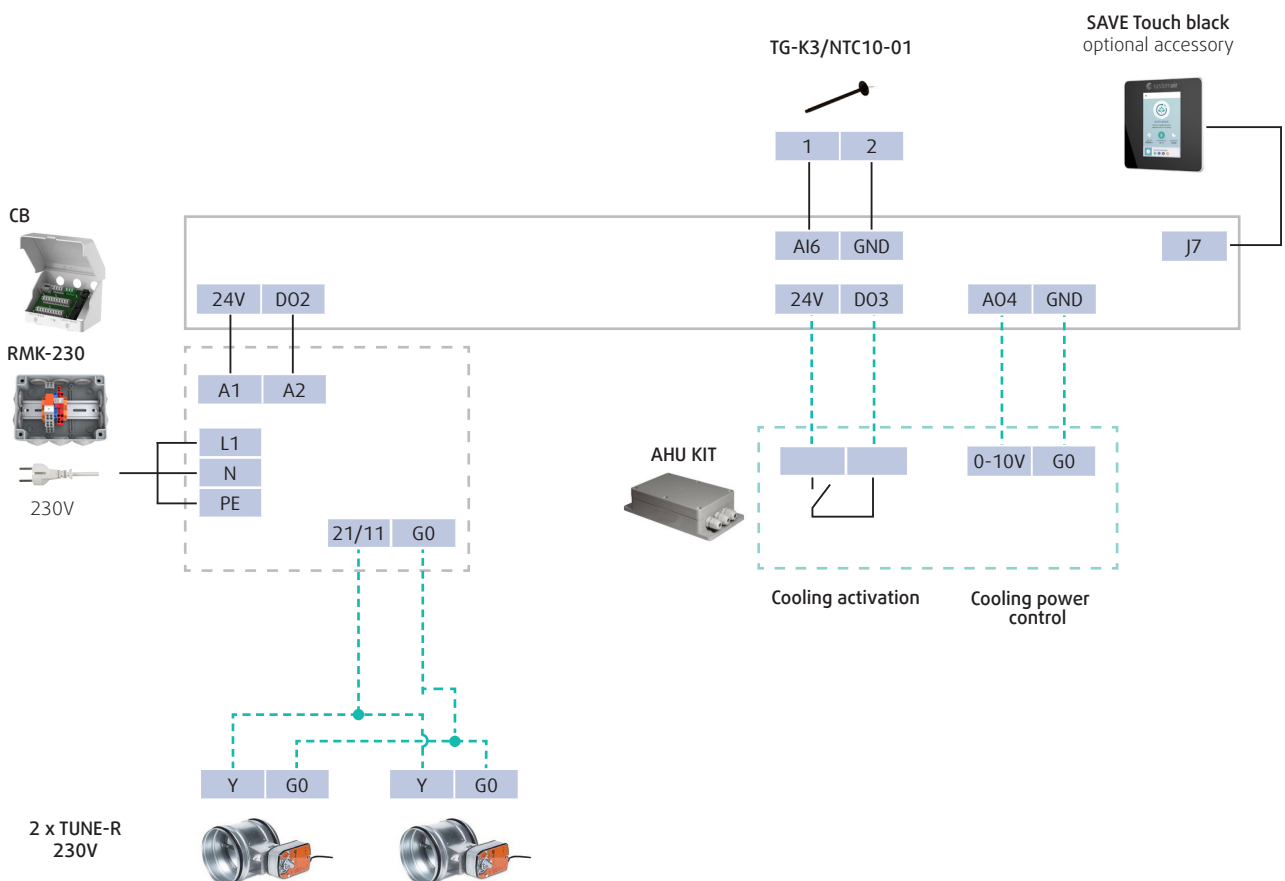
Systemair products	Item no.	Description	Pcs
SAVE VSR 500		Air handling unit	1
TUNE-R 230V		Damper with actuator	2
CDX		Primary evaporator	1
ELB-1,67 kW VTC 500		Built-in electric heater	1
RMK-230	153549	Switching module	1
TG-K3/NTC10-01	211524	Temperature sensor	1
External accessories			
AHU KIT		Cooling device controller	1



Legend:

1. Outdoor air
2. Supply air
3. Extract air
4. Exhaust air

Wiring diagram



NOTE:

The cooling activation signal may need to be provided via a relay (NO/NC contact). The internal wiring of the AHU KIT depends on the equipment supplied, it is possible that activation of cooling may be necessary.

All outputs and inputs must be configured in the Service menu. In case the inputs or outputs listed in the diagram are occupied, any available ones can be selected (e.g. AO5 instead of AO3).

All PE terminals must be grounded.

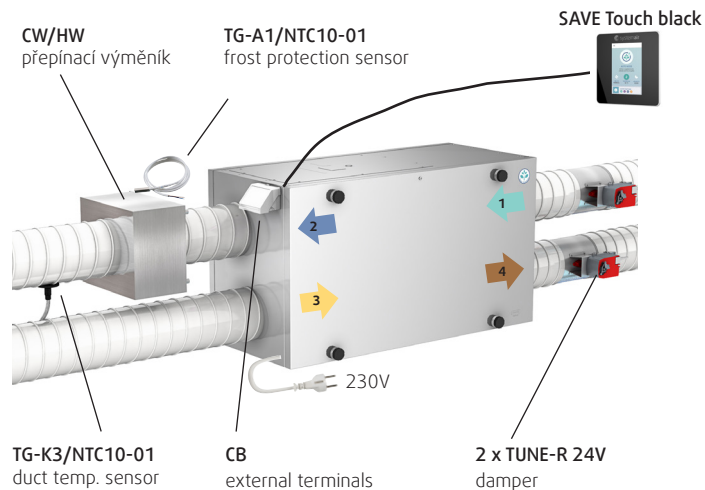
Legend:

-  Cable included from Systemair
-  The cable is not included with the Systemair, recommended CYKY type .. x 1,0
-  Accessories not included from factory

SAVE VSR 500 + CW/HW

With change-over heater/cooler 

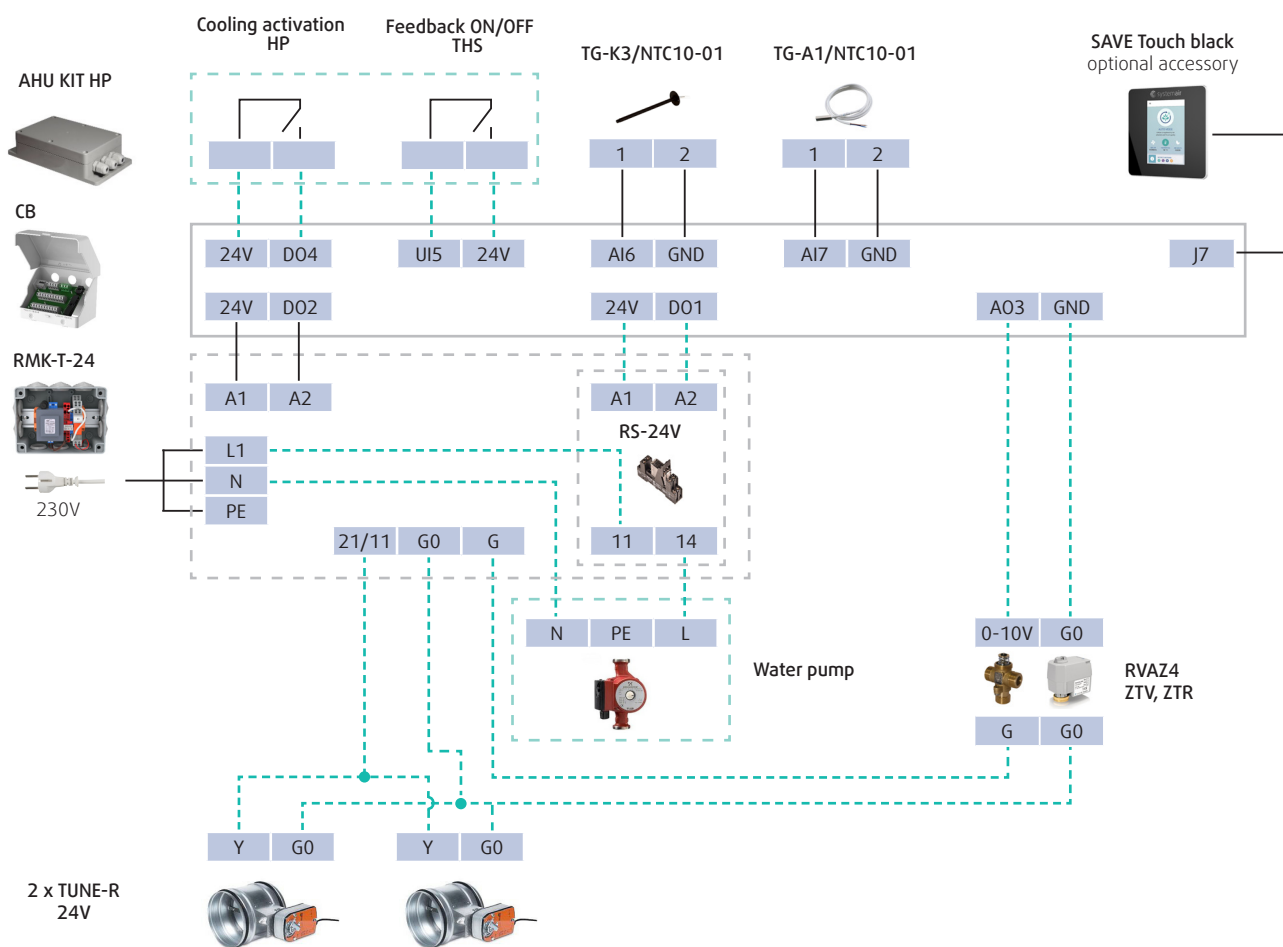
Systemair products	Item no.	Description	Pcs
SAVE VSR 500		Air handling unit	1
TUNE-R 24V		Damper with actuator	2
CW/HW		Change-over battery (water)	1
RMK-T-24	153548	Switching module	1
RS-24V	159484	Relay	1
RVAZ4	9862	Valve actuator 24A, 0-10V	1
ZTV, ZTR		2 or 3-way valve	1
TG-K3/NTC10-01	211524	Temperature sensor	1
TG-A1/NTC10-01	211523	Frost protection sensor	1
External accessories			
AHU KIT HP		Heat pump controller	1
Water pump			1



Legend:

1. Outdoor air
2. Supply air
3. Extract air
4. Exhaust air

Wiring diagram



NOTE:

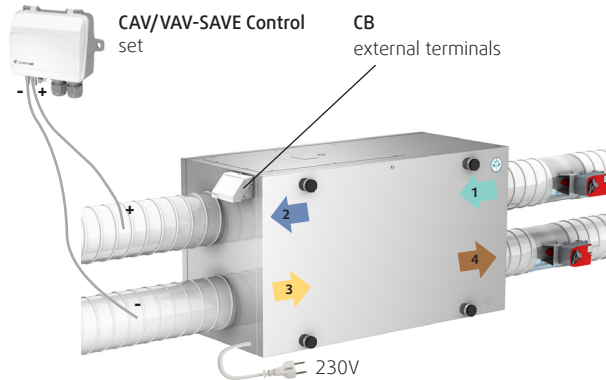
Heating mode: „Cooling activation” = OFF and water circuit thermostat at the same time. THS reaches the set value (terminals closed).
 Cooling mode: „Cooling activation” = ON and the water circuit thermostat at the same time THS does not reach the set value (terminals open).
 All outputs and inputs must be configured in the Service menu. In case the inputs or outputs listed in the diagram are occupied, any available ones can be selected (e.g. A05 instead of A03).
 All PE terminals must be grounded.

Legend:

- Cable included from Systemair
- - - The cable is not included with the Systemair, recommended CYKY type .. x 1,0
- [] Accessories not included from factory

SAVE VSR 500 + VAV

With variable air volume control 



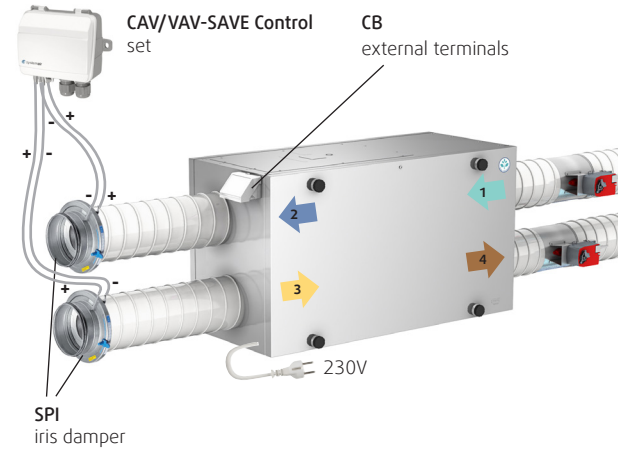
Legend:

1. Outdoor air
2. Supply air
3. Extract air
4. Exhaust air

Systemair products	Item no.	Description	Pcs
SAVE VSR 500		Air handling unit	1
VAV/CAV conversion kit	140777	CAV/VAV control kit	1

SAVE VSR 500 + CAV

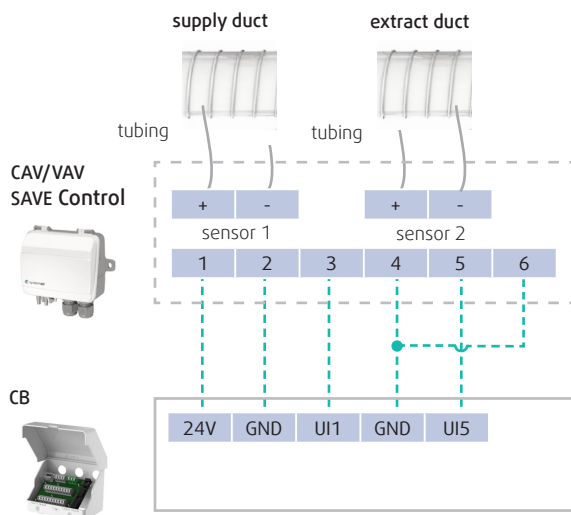
With constant air volume control 



Legend:

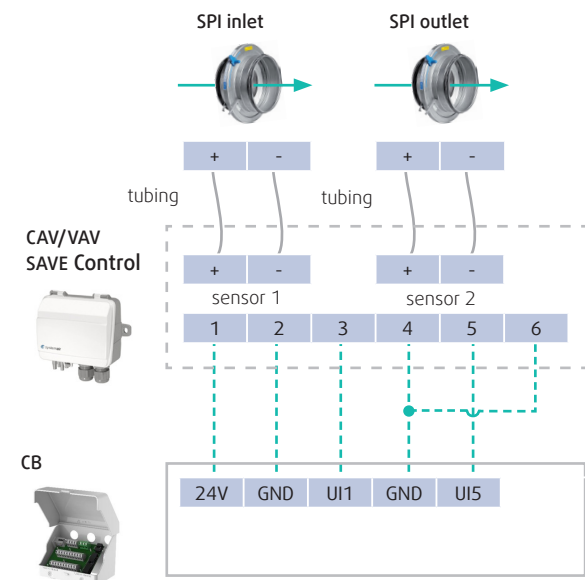
1. Outdoor air
2. Supply air
3. Extract air
4. Exhaust air

Systemair products	Item no.	Description	Pcs
SAVE VSR 500		Air handling unit	1
VAV/CAV conversion kit	140777	CAV/VAV control kit	1
SPI		Iris damper with K factor	2



NOTE:

All outputs and inputs must be configured in the Service menu. In case the inputs or outputs listed in the diagram are occupied, any available ones can be selected (e.g. A05 instead of A03).
Terminal 3 = sensor 1 = UI1 = supply fan
Terminal 5 = sensor 2 = UI5 = extract fan

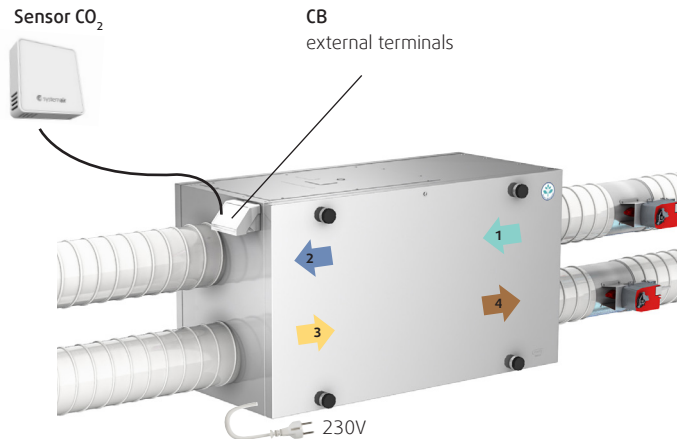


Legend:

-  Cable included from Systemair
-  The cable is not included with the Systemair, recommended CYKY type .. x 1,0
-  Accessories not included from factory

SAVE VSR 500 + CO₂

With airflow control based on CO₂ sensor



Legend:

- 1. Outdoor air
- 2. Supply air
- 3. Extract air
- 4. Exhaust air

Systemair-E CO₂

Sensor CO₂



Systemair CO₂-RH-T

Sensor CO₂, humidity and temperature



Systemair E-D-CO₂

Sensor CO₂

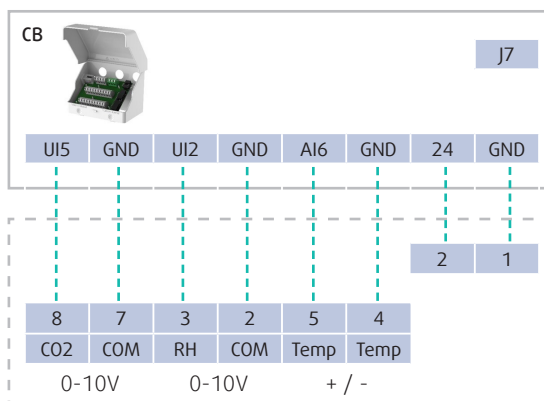


Systemair 1-CO₂

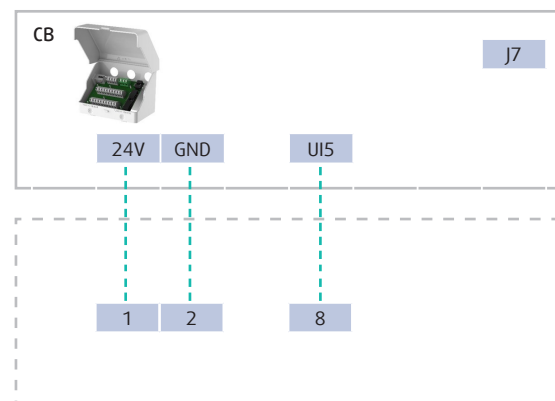
Sensor CO₂



Wiring diagram



Systemair CO₂-RH-T
Sensor CO₂, humidity and temperature



Systemair-E CO₂
Sensor CO₂



Systemair E-D-CO₂
Sensor CO₂



Systemair 1-CO₂
Sensor CO₂



NOTE:

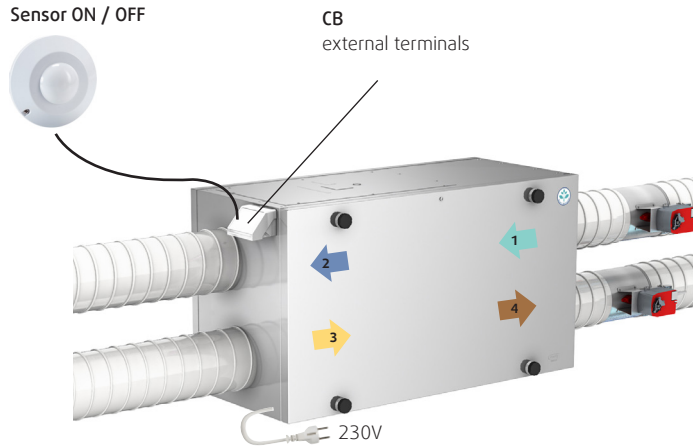
All outputs and inputs must be configured in the Service menu. In case the inputs or outputs listed in the diagram are occupied, any available ones can be selected (e.g. AO5 instead of AO3).

Legend:

- Cable included from Systemair
- - - The cable is not included with the Systemair, recommended CYKY type .. x 1,0
- [] Accessories not included from factory

SAVE VSR 500 + ON/OFF

With ON/OFF switch control 



Legend:

- 1. Outdoor air
- 2. Supply air
- 3. Extract air
- 4. Exhaust air

IR-24PC
Motion sensor



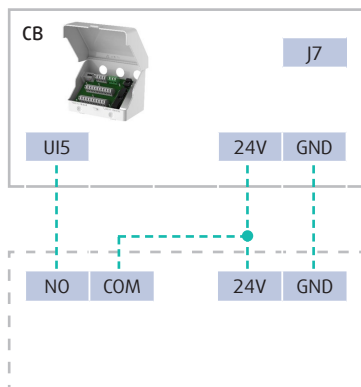
DPR 200T
Pressure sensor



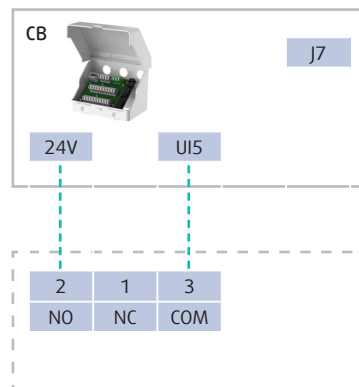
ON / OFF
Switch



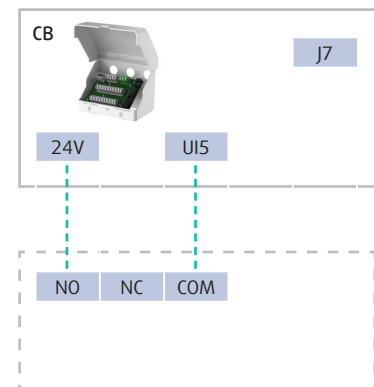
Wiring diagram



IR-24PC
Motion sensor



DPR 200T
Pressure sensor



ON / OFF
Switch



NOTE:

All outputs and inputs must be configured in the Service menu. In case the inputs or outputs listed in the diagram are occupied, any available ones can be selected (e.g. A05 instead of A03).

Legend:

-  Cable included from Systemair
-  The cable is not included with the Systemair, recommended CYKY type .. x 1,0
-  Accessories not included from factory

Hierarchy of signals

High



Medium



Low



