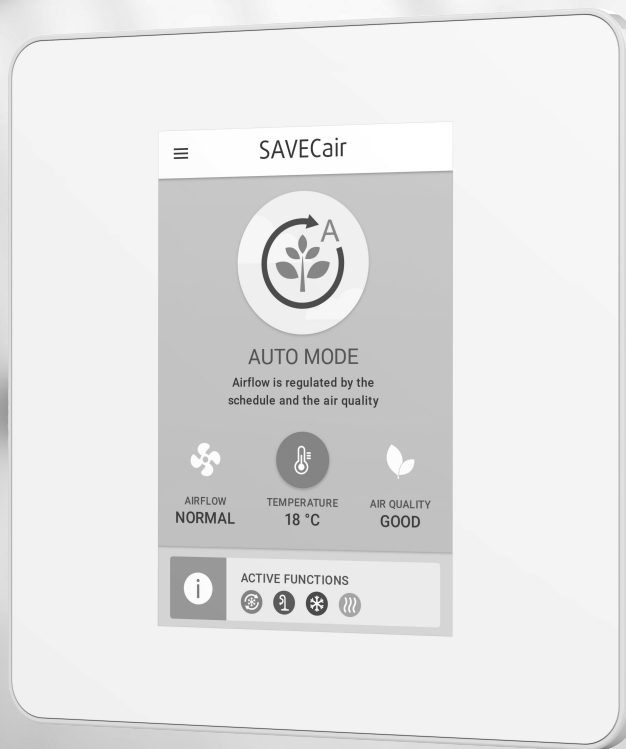


# SAVE

## Commissioning Record

GB

Document in original language | 211579 · A002



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# 1 General Information

Company:

Responsible:

Customer:	Date:	Installation:
Object/Unit:	Item:	Installation address:
Model/Size:	Serial number (unit ID):	Main board software version: IAM software version: HMI software version:

Time and date set:

Week schedule set:

External connections (sensors, dampers, external alarm, etc.) performed:

## 2 Control Regulation

### 2.1 Temperature Control

**Table 1 Temperature control settings**

Function	Default setting	Set value
Control mode	Supply air temperature control <input checked="" type="checkbox"/>	Supply air temperature control <input type="checkbox"/>
	Room temperature control <input type="checkbox"/>	Room temperature control <input type="checkbox"/>
	Extract air temperature control <input type="checkbox"/>	Extract air temperature control <input type="checkbox"/>
Set-point	18°C	____ °C
Temperature unit	Celsius <input checked="" type="checkbox"/>	Celsius <input type="checkbox"/>
	Fahrenheit <input type="checkbox"/>	Fahrenheit <input type="checkbox"/>

**Table 2 Cascade settings\***

Function	Default setting	Set value
Cascade setpoint	18°C	____ °C
Cascade control min supply setpoint	12°C	____ °C
Cascade control max supply setpoint	40°C	____ °C

\* Only available if Room temperature control Or Extract air temperature control mode is selected.

### 2.2 ECO mode

Function	Default setting	Set value
Heater offset	-3°C	____ °C

### 2.3 Fan Control

Function	Default setting	Set value
Airflow Type	Manual <input checked="" type="checkbox"/>	Manual <input type="checkbox"/>
	RPM <input type="checkbox"/>	RPM <input type="checkbox"/>
	Flow <input type="checkbox"/>	Flow <input type="checkbox"/>
	Pressure <input type="checkbox"/>	Pressure <input type="checkbox"/>
	External <input type="checkbox"/>	External <input type="checkbox"/>
P-Band*		_____
Manual Fan Stop	OFF <input checked="" type="checkbox"/>	OFF <input type="checkbox"/>
	ON <input type="checkbox"/>	ON <input type="checkbox"/>



**Note:**

\* Make sure to change P-Band after changing Airflow Type. P-Band value do not change automatically to match the airflow type. It has to be changed manually.

#### 2.3.1 Airflow Levels Settings

Function	Default setting	Set value
<b>MAXIMUM LEVEL</b>		
Supply Airflow		_____ airflow unit
Extract Airflow		_____ airflow unit
<b>HIGH LEVEL:</b>		
Supply Airflow		_____ airflow unit
Extract Airflow		_____ airflow unit
<b>NORMAL LEVEL</b>		
Supply Airflow		_____ airflow unit
Extract Airflow		_____ airflow unit
<b>LOW LEVEL</b>		
Supply Airflow		_____ airflow unit
Extract Airflow		_____ airflow unit
<b>MINIMUM LEVEL</b>		
Supply Airflow		_____ airflow unit
Extract Airflow		_____ airflow unit

#### 2.3.2 Pressure Sensors\*

Function	Default setting	Set value
<b>SUPPLY AIR FAN CONTROL</b>		
Pressure at 0V	0 Pa	_____ Pa
Pressure at 10V	1000 Pa	_____ Pa
<b>EXTRACT AIR FAN CONTROL</b>		
Pressure at 0V	0 Pa	_____ Pa
Pressure at 10V	1000 Pa	_____ Pa
SAF K-Factor (Airflow type: Flow)	20	_____

Function	Default setting	Set value
EAF F-Faktor (Airflow type: Flow)	20	_____
Unit (Airflow type: Flow)	l/s <input checked="" type="checkbox"/>	l/s <input type="checkbox"/>
	m <sup>3</sup> /h <input type="checkbox"/>	m <sup>3</sup> /h <input type="checkbox"/>
	ft <sup>3</sup> /h <input type="checkbox"/>	ft <sup>3</sup> /h <input type="checkbox"/>
Unit (Airflow type: Pressure)	Pa <input checked="" type="checkbox"/>	Pa <input type="checkbox"/>
	inwc <input type="checkbox"/>	inwc <input type="checkbox"/>

\* Only available if Flow or Pressure airflow type is selected.

## 2.4 Demand Control

Function	Default setting	Set value
SENSORS	OFF <input checked="" type="checkbox"/>	OFF <input type="checkbox"/>
	RH Sensor <input type="checkbox"/>	RH Sensor <input type="checkbox"/>
	CO <sub>2</sub> Sensor <input type="checkbox"/>	CO <sub>2</sub> Sensor <input type="checkbox"/>
	Relative humidity / CO <sub>2</sub> <input type="checkbox"/>	Relative humidity / CO <sub>2</sub> <input type="checkbox"/>
RH Sensor Setpoint Summer	50 %	_____ %
RH Sensor Setpoint Winter	50 %	_____ %
CO <sub>2</sub> Sensor Setpoint	900 ppm	_____ ppm
<b>INDOOR AIR QUALITY CONTROL</b>		
Improving Air Quality	Normal <input checked="" type="checkbox"/>	Normal <input type="checkbox"/>
	High <input type="checkbox"/>	High <input type="checkbox"/>
	Maximum <input type="checkbox"/>	Maximum <input type="checkbox"/>
Good Air Quality	Low <input checked="" type="checkbox"/>	Low <input type="checkbox"/>
	Normal <input type="checkbox"/>	Normal <input type="checkbox"/>

## 2.5 Moisture Transfer Control

Function	Default setting	Set value
Status	OFF <input checked="" type="checkbox"/>	OFF <input type="checkbox"/>
	ON <input type="checkbox"/>	ON <input type="checkbox"/>
Setpoint	40%	_____ %

## 2.6 Defrosting Control\*

Function	Default setting	Set value
Mode	Soft <input type="checkbox"/>	Soft <input type="checkbox"/>
	Normal <input checked="" type="checkbox"/>	Normal <input type="checkbox"/>
	Hard <input type="checkbox"/>	Hard <input type="checkbox"/>
Bypass location	None <input checked="" type="checkbox"/>	None <input type="checkbox"/>
	Supply <input type="checkbox"/>	Supply <input type="checkbox"/>
	Extract <input type="checkbox"/>	Extract <input type="checkbox"/>

\* Only available if heat exchanger type is selected as Plate.

## 2.7 Cooling Control

**Table 3 Cooling recovery**

Function	Default setting	Set value
Cooling recovery	OFF <input checked="" type="checkbox"/>	OFF <input type="checkbox"/>
	ON <input type="checkbox"/>	ON <input type="checkbox"/>
Cooling limit	2°C	___°C

**Table 4 Free Cooling**

Function	Default setting	Set value
Status	OFF <input checked="" type="checkbox"/>	OFF <input type="checkbox"/>
	ON <input type="checkbox"/>	ON <input type="checkbox"/>
Supply air fan level	Normal <input checked="" type="checkbox"/>	Normal <input type="checkbox"/>
	High <input type="checkbox"/>	High <input type="checkbox"/>
	Maximum <input type="checkbox"/>	Maximum <input type="checkbox"/>
Extract air fan level	Normal <input checked="" type="checkbox"/>	Normal <input type="checkbox"/>
	High <input type="checkbox"/>	High <input type="checkbox"/>
	Maximum <input type="checkbox"/>	Maximum <input type="checkbox"/>
<b>START CONDITIONS</b>		
Outdoor daytime temperature activation	25°C	___°C
<b>END CONDITIONS</b>		
Extract/Room cancel temperature	18°C	___°C
Outdoor nighttime activation high limit	23°C	___°C
Outdoor nighttime activation low limit	12°C	___°C
Start Time	00:00	_::_
End Time	08:00	_::_



### 3 Components

#### 3.1 Heat Exchanger

Function	Default setting	Set value
Type (depending on type of the unit)		Rotating <input type="checkbox"/>
		Plate <input type="checkbox"/>
Bypass location (only for VTC units)	None <input checked="" type="checkbox"/>	None <input type="checkbox"/>
	Supply <input type="checkbox"/>	Supply <input type="checkbox"/>
	Extract <input type="checkbox"/>	Extract <input type="checkbox"/>
Bypass air damper (only VTC units)	Inactive <input checked="" type="checkbox"/>	Inactive <input type="checkbox"/>
	Configured <input type="checkbox"/>	Configured <input type="checkbox"/>
Actuator		0-10V <input type="checkbox"/>
		10-0V <input type="checkbox"/>
		2-10V <input type="checkbox"/>
		10-2V <input type="checkbox"/>

**Table 5 Passive house\***

Function	Default setting	Set value
Status	OFF <input checked="" type="checkbox"/>	OFF <input type="checkbox"/>
	ON <input type="checkbox"/>	ON <input type="checkbox"/>

\* Only available if heat exchanger type is selected as Rotating.

#### 3.2 Heater

Function	Default setting	Set value
Type	None <input checked="" type="checkbox"/>	None <input type="checkbox"/>
	Electrical <input type="checkbox"/>	Electrical <input type="checkbox"/>
	Water <input type="checkbox"/>	Water <input type="checkbox"/>
	Change-over* <input type="checkbox"/>	Change-over* <input type="checkbox"/>
TRIAC OUTPUT (TRIAC configurable at Service > Output > ANALOG)	Inactive Output <input checked="" type="checkbox"/>	Inactive Output <input type="checkbox"/>
	Y1 Heating <input type="checkbox"/>	Y1 Heating <input type="checkbox"/>
Heater control function (Heater configurable at Service > Output > ANALOG OR DIGITAL)		Analog (Y1 Heating) <input type="checkbox"/>
		Digital (Step controller Y1 Heating) (On/Off) <input type="checkbox"/>
		Digital Start/Stop circulation pump, Y1 Heating <input type="checkbox"/>

Function	Default setting	Set value
Actuator		0-10V <input type="checkbox"/>
		10-0V <input type="checkbox"/>
		2-10V <input type="checkbox"/>
		10-2V <input type="checkbox"/>
Circulation Pump Start Temperature**	10°C	____ °C
Circulation Pump Stop Delay**	5 min	____ min

\* If Change-over is selected at heater type, the cooler type must be also set as Change-over.

\*\* Only available if heater type Water or Change-over is selected.

### 3.3 Cooler

Function	Default setting	Set value
Type	None <input checked="" type="checkbox"/>	None <input type="checkbox"/>
	Water <input type="checkbox"/>	Water <input type="checkbox"/>
	Change-over* <input type="checkbox"/>	Change-over* <input type="checkbox"/>
Outside Air Temperature Interlock	10°C	____ °C
Cooler control function (Cooler configurable at Service > Output > ANALOG OR DIGITAL)		Analog (Y3 Cooling) <input type="checkbox"/>
		Digital (Step controller Y3 Cooling) (On/Off) <input type="checkbox"/>
		Digital (Start/Stop circulation pump, Y3 Cooling) <input type="checkbox"/>
Actuator		0-10V <input type="checkbox"/>
		10-0V <input type="checkbox"/>
		2-10V <input type="checkbox"/>
		10-2V <input type="checkbox"/>
Circulation Pump Stop Delay**	5 min	____ min

\* If Change-over is selected at cooler type, the heater type must be also set as Change-over.

\*\* Only available if heater type Water or Change-over is selected.

### 3.4 Extra Controller

Function	Default setting	Set value
Extra Controller Mode	None <input checked="" type="checkbox"/>	None <input type="checkbox"/>
	Preheater <input type="checkbox"/>	Preheater <input type="checkbox"/>
	Heating <input type="checkbox"/>	Heating <input type="checkbox"/>
	Cooling <input type="checkbox"/>	Cooling <input type="checkbox"/>

Function	Default setting	Set value
Extra controller control function (Extra controller configurable at Service > Output > ANALOG OF DIGITAL)		Analog (Y4 Extra Controller) <input type="checkbox"/>
		Digital (Step Controller Y4 Extra Controller) <input type="checkbox"/>
		Digital (Start/Stop circulation pump, Y4 Extra Controller) <input type="checkbox"/>
Set-Point	0°C	___ °C
P-Band	4 °C	___ °C
I-Time	0	___ seconds
Actuator		0-10V <input type="checkbox"/>
		10-0V <input type="checkbox"/>
		2-10V <input type="checkbox"/>
		10-2V <input type="checkbox"/>
Circulation Pump Start Temperature*	10°C	___ °C
Circulation Pump Stop Delay	5 min	___ min

\* Only available if Preheater or Heating is selected

## 4 User Modes

Function	Default setting	Set value
Away	Supply air fan level Low	Minimum/Low/Normal _____
	Extract air fan level Low	Minimum/Low/Normal _____
	Delay time 1-72 h	Delay time _____ h
Crowded	Supply air fan level High	Normal/High/Maximum _____
	Extract air fan level High	Normal/High/Maximum _____
	Delay time 1-8 h	Delay time _____ h
	Temperature setpoint offset -10 – 0°C	___ °C
Central Vacuum Cleaner	Supply air fan level Normal	Low/Normal/High _____
	Extract air fan level Low	Minimum/Low/Normal _____
Cooker Hood	Supply air fan level Normal	Low/Normal/High _____
	Extract air fan level Low	Minimum/Low/Normal _____
Fireplace	Supply air fan level Normal	Normal/High/Maximum _____
	Extract air fan level Low	Minimum/Low/Normal _____
	Delay time 1-60 min	Delay time _____ min
Holiday	Supply air fan level Low	Minimum/Low/Normal _____
	Extract air fan level Low	Minimum/Low/Normal _____

Function	Default setting		Set value	
Refresh	Delay time	1-365 days	Delay time	_____ days
	Supply air fan level	High	Normal/High/Maximum	_____
	Extract air fan level	High	Normal/High/Maximum	_____
	Delay time	1-240 min	Delay time	_____ min

**Note:**

Delay time is set during activation of the function at the main screen.

## 5 Input

### 5.1 Analog

Type	Default setting		Set value	
	Input number	Compensation	Input number	Compensation
Outdoor Air Temperature Sensor (OAT)	1-7	-9.9...9.9°C	___	___°C
Supply Air Temperature Sensor (SAT)	1-7	-9.9...9.9°C	___	___°C
Overheat Temperature Sensor (OHT)	1-7	-9.9...9.9°C	___	___°C
Frost Protection Temperature Sensor (FPT)	1-7	-9.9...9.9°C	___	___°C
Room Air Temperature Sensor (RAT)	1-7	-9.9...9.9°C	___	___°C
Extract Air Temperature Sensor (EAT)	1-7	-9.9...9.9°C	___	___°C
Extra Controller Temperature Sensor (ECT)	1-7	-9.9...9.9°C	___	___°C
Efficiency Temperature Sensor (EFT)	1-7	-9.9...9.9°C	___	___°C

### 5.2 Digital

Type	Default setting		Set value	
	Input number	Polarity	Input number	Polarity
Away Function	1-2	NO/NC	___	___
Bypass Damper (BYS)	1-2	NO/NC	___	___
Central Vacuum Cleaner Function	1-2	NO/NC	___	___
Cooker Hood Function	1-2	NO/NC	___	___
Crowded Function	1-2	NO/NC	___	___
Emergency thermostat	1-2	NO/NC	___	___
External Stop	1-2	NO/NC	___	___
Extra Controller Alarm	1-2	NO/NC	___	___
Fireplace Function	1-2	NO/NC	___	___
Holiday Function	1-2	NO/NC	___	___
Refresh Function	1-2	NO/NC	___	___
Rotation Guard (RGS)	1-2	NO/NC	___	___
Fire Alarm	1-2	NO/NC	___	___
Change-over feedback	1-2	NO/NC	___	___

## 5.3 Universal

**Table 6 Universal inputs are on Connection board only**

Signal type	Input type	Default setting		Set value	
		Input number	Compensation	Input number	Compensation
ANALOG	RH Sensor (RH)	1-5	-9...9%	___	___
	CO <sub>2</sub> Sensor (CO <sub>2</sub> )	1-5	-99...99 ppm	___	___
	Supply Air Fan Control (SAFC)	1-5	-99...99 l/s, m <sup>3</sup> /h, ft <sup>3</sup> /min	___	___
	Extract Air Fan Control (SAFC)	1-5	-99...99 l/s, m <sup>3</sup> /h, ft <sup>3</sup> /min	___	___
		Input number	Polarity	Input number	Polarity
DIGITAL	Away Function	1-5	NO/NC	___	___
	Bypass Damper (BYS)	1-5	NO/NC	___	___
	Central Vacuum Cleaner Function	1-5	NO/NC	___	___
	Cooker Hood Function	1-5	NO/NC	___	___
	Crowded Function	1-5	NO/NC	___	___
	Emergency thermostat (EMT)	1-5	NO/NC	___	___
	External Stop	1-5	NO/NC	___	___
	Extra Controller Alarm	1-5	NO/NC	___	___
	Fireplace Function	1-5	NO/NC	___	___
	Holiday Function	1-5	NO/NC	___	___
	Refresh Function	1-5	NO/NC	___	___
	Rotation Guard (RGS)	1-5	NO/NC	___	___
	Fire Alarm	1-5	NO/NC	___	___
	Change-over feedback	1-5	NO/NC	___	___

**Table 7 PDM Input 1/PDM Input 2**

Function	Default setting	Set value
PDM configuration	None <input checked="" type="checkbox"/> Compensation RH Sensor (RH) <input type="checkbox"/> -9...9°C Extract Air Temperature Sensor (EAT) <input type="checkbox"/> -9,9...9,9°C	None <input type="checkbox"/> Compensation RH Sensor (RH) <input type="checkbox"/> ___ °C Extract Air Temperature Sensor (EAT) <input type="checkbox"/> ___ °C

## 6 Output

### 6.1 Analog

Type	Default setting		Set value	
	Output number	Output type	Output number	Output type
Y1 Heating	1-5	0-10; 2-10; 10-0; 10-2 V	___	___ V
Y2 Exchanger	1-5	0-10; 2-10; 10-0; 10-2 V	___	___ V
Y3 Cooler	1-5	0-10; 2-10; 10-0; 10-2 V	___	___ V
Y4 Extra Controller	1-5	0-10; 2-10; 10-0; 10-2 V	___	___ V
Y1 / Y3 Change-over	1-5	0-10; 2-10; 10-0; 10-2 V	___	___ V

## 6.2 Digital

Type	Default setting	Set value
	Output number	Output number
Step Controller Y1 Heating	1-5	—
Step Controller Y2 Exchanger	1-5	—
Step Controller Y3 Cooling	1-5	—
Step Controller Y4 Extra Controller	1-5	—
Sum Alarm	1-5	—
Outdoor-/Exhaust Air Damper	1-5	—
Secondary Air (Recirculation Air)	1-5	—
Activate cooling	1-5	—
Interlock External fan control	1-5	—
Start/Stop Circulation Pump, Y1 Heating	1-5	—
Start/Stop Circulation Pump, Y3 Cooling	1-5	—
Start/Stop Circulation Pump, Y1/Y3 Change-over	1-5	—
Start/Stop Circulation Pump, Y4 Extra Controller	1-5	—

## 7 Communication

Function	Default setting	Set value
Modbus	OFF <input checked="" type="checkbox"/>	OFF <input type="checkbox"/>
	ON <input type="checkbox"/>	ON <input type="checkbox"/>
Address	0	_____
Baud Rate	1000	_____
Parity	None <input checked="" type="checkbox"/>	None <input type="checkbox"/>
	Even <input type="checkbox"/>	Even <input type="checkbox"/>
	Odd <input type="checkbox"/>	Odd <input type="checkbox"/>
Stop Bits	0	_____

## 8 Week Schedule

Function	Default setting	Set value
Week Schedule	OFF <input checked="" type="checkbox"/>	OFF <input type="checkbox"/>
	ON <input type="checkbox"/>	ON <input type="checkbox"/>
Scheduled Period Airflow Level	Off/Low/Normal/High/Demand	_____
Unscheduled Period Airflow Level	Off/Low/Normal/High/Demand	_____
Scheduled Period Temperature Offset	-10 - 0°C	___ °C
Unscheduled Period Temperature Offset	-10 - 0°C	___ °C
Monday period 1 start	0-23 h 1-59 min	___ h ___ min
Monday period 1 stop	0-23 h 1-59 min	___ h ___ min

Function	Default setting	Set value	
Monday period 2 start	0-23 h 1-59 min	___ h	___ min
Monday period 2 stop	0-23 h 1-59 min	___ h	___ min
Tuesday period 1 start	0-23 h 1-59 min	___ h	___ min
Tuesday period 1 stop	0-23 h 1-59 min	___ h	___ min
Tuesday period 2 start	0-23 h 1-59 min	___ h	___ min
Tuesday period 2 stop	0-23 h 1-59 min	___ h	___ min
Wednesday period 1 start	0-23 h 1-59 min	___ h	___ min
Wednesday period 1 stop	0-23 h 1-59 min	___ h	___ min
Wednesday period 2 start	0-23 h 1-59 min	___ h	___ min
Wednesday period 2 stop	0-23 h 1-59 min	___ h	___ min
Thursday period 1 start	0-23 h 1-59 min	___ h	___ min
Thursday period 1 stop	0-23 h 1-59 min	___ h	___ min
Thursday period 2 start	0-23 h 1-59 min	___ h	___ min
Thursday period 2 stop	0-23 h 1-59 min	___ h	___ min
Friday period 1 start	0-23 h 1-59 min	___ h	___ min
Friday period 1 stop	0-23 h 1-59 min	___ h	___ min
Friday period 2 start	0-23 h 1-59 min	___ h	___ min
Friday period 2 stop	0-23 h 1-59 min	___ h	___ min
Saturday period 1 start	0-23 h 1-59 min	___ h	___ min
Saturday period 1 stop	0-23 h 1-59 min	___ h	___ min
Saturday period 2 start	0-23 h 1-59 min	___ h	___ min
Saturday period 2 stop	0-23 h 1-59 min	___ h	___ min
Sunday period 1 start	0-23 h 1-59 min	___ h	___ min
Sunday period 1 stop	0-23 h 1-59 min	___ h	___ min
Sunday period 2 start	0-23 h 1-59 min	___ h	___ min
Sunday period 2 stop	0-23 h 1-59 min	___ h	___ min

## 9 Client confirmation

Date:	Location:	Name:	Signature / Stamp:
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