

11Air	handling unit, component catalog	<u>14</u> <u>15</u>	16 17
Designation	Name	Equipment	Technical data
OP20	Control panel	1 pc standard delivery	eWind delivery, contains cabel
TE01	Fresh air temperature	Standard	NTC-10
TE05	Supply air, after heat recovery	Standard	NTC-10
TE10	Supply air temperature	Standard	NTC-10
RHT30	Extraxt air; temperature and humidity	Standard	Sender
TE32	Exhaust air temperature	Standard	NTC-10
SU1	Fresh air filter	Standard	Standard M5
SU30	Extract air filter	Standard	Standard M5
LT075	Rotating heat exchanger	Standard	
M75+SC75	HRW motor + control	Standard	EC motor, max effect 15 W
TF10+M10+SC10	Supply fan	Standard	EC motor
PF30+M30+SC30	Exhaust fan	Standard	EC motor
SLP45	Supply air reheater, electrical	E-models	
W45	Supply air reheater, water	W-models	
TL45+SV45	Valve actuator + 2-way control valve	W-models	Kvs-value acc. to Unit size
TL50+SV50	Valve actuator+ 3-way control valve	CG-models	Kvs-value acc. to Unit size
CG50	Supply air cooler	CG-models	
TE02	Preheated outdoor air	Models with preheating	NTC-10
C02	CO2-measurement	Optional equipment	200-2000ppm, 0-10Vdc
HS	Extra time, switch	Optional equipment	Pushbutton
HZ	Emergency stop		Normally open (NO) as standard
FG01	Fresh air dampers+Damper motor	Optional equipment	
FG39	Exhaust air dampers+Damper motor	Optional equipment	

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General description of functions, eWind automation	
The Air Handling unit in operation	
The operation mode of the air handling unit can be changed from the control panel, by external control, or by fieldbus. Fieldbus:	Dampers: The dampers are controlled by a damper relay. As lo operating the potential free relay connection is closed
Modbus—RTU fieldbus is standard for all eWind air handling units. The unit can also be connected to KNX—fieldbus by an external adapter (extra equipment). Measurements can be read and settings changed by fieldbus. Fan control:	Models with electrical heater Air handling units equipped with more than 2 kW sup pressure differential monitoring of the supply air fan. disabled if pressure differential over the supply air fa
The fans operate at constant speed. The supply and extract fans have individual speed settings for all operating modes. Fan speed settings are made from the control panel.	Models with water heater Freeze protection When the unit is restarted, the TL45 modulating valve automation according to the outside air temperature.
Temperature control: The measurement for supply air temperature (TE10) is kept at its setpoint value by cooling (if applicable), heat recovery and by additional heating of the supply air after heat recovery.	mode, valve TL45 is regulated by the measurement for TE45 so that constant return water temperature can water temperature under operation-mode or stop-mo limit for return water temperature an A-alarm is action unit shuts down, valve TL45 remains in a fully open pump remains on.
Humidity boost: All eWind air handling units are equipped with a built in relative humidity sensor in the extract air. Users can activate the humidity boost. When activated, the eWind	Summer function All pump controlling outputs are equipped with pump the pump occasionally to prevent seizure of the pum A-alarm:
automation increases the fan speeds if the humidity limit is exceeded. CO2-boost (optional equipment):	In case of an A alarm the air handling unit shuts do in the operating panel display, and the alarm relay a included in models with cooling or preheating). The u reason for the alarm is fixed and the alarm acknowly
Activation of the CO2 boost is possible, if an internal or external CO2 sensor is installed (optional equipment). By activating the CO2 boosting function, the eWind automation increases the fan speeds if the CO2 level exceeds its setpoint.	AB-alarm:
General safety features and deactivations	In case of AB alarm the air handling unit goes into the supply and extract air fans are operating at min automatically acknowledged and the air handling unit
In units where the fans constitutes a danger, the unit shuts down if the service hatch is opened.	operation mode when the reason for the alarm is fix
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supply air electrical heaters have in. The electrical heater is	e
fan is missing.	
Ive is opened by the eWind	
e. When the unit is in stop for return water temperature	
in be maintained. If the return mode decreases below the alarr	m
n position and the circulation	
np summer control. This starts	
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down and an alarma is indicate	لہ
down and an alarm is indicate activates (alarm relay is not	
unit can be restarted when th wledged.	e
o fail—safe mode, meaning that	t
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