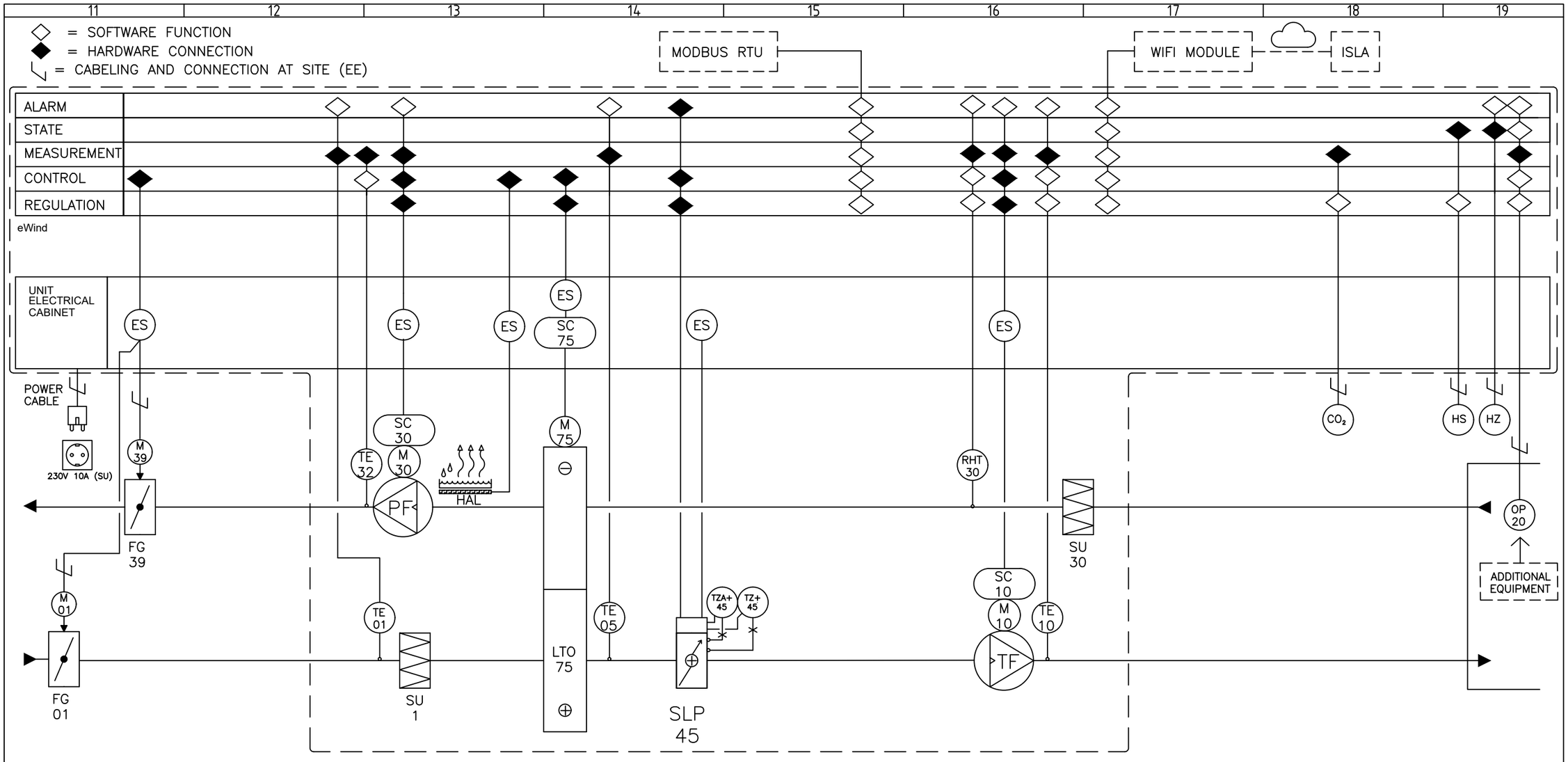

No	Change	Date	By	Appr by

Drawn by	Check by	Appr by		File	Date	Scale
JP	MKa				09.02.2026	0
			Name CONTROL CHART			Weight kg
Enervent Zehnder Oy Tel +358 207 528 800, www.enervent.com Kipinätie 1, FIN-06150, Porvoo			Dwg no. Salla Compact eWind E		Change -	Sheet 1

11	12	13	14	15	16	17	18	19

Component catalog				
Designation	Name	Equipment	Technical data	Note
iSLa	Operating application	Standard	Application	Downloading from the app store
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 F7	
SU30	Extract air filter	Standard	Standard M5	Alternatively F7
LTO75	Rotating heat exchanger	Standard		
M75+SC75	HRW motor + control	Standard	EC motor, max effect 5 W	
TF10+M10+SC10	Supply fan	Standard	EC motor	
PF30+M30+SC30	Exhaust fan	Standard	EC motor	
HAL	Evaporation basin heater	Standard	60W	
SLP45	Supply air reheater, electrical	Standard		Effect acc. to Unit size
OP20	Control panel	Optional equipment	eWind delivery, contains cabel	
CO2	CO2−measurement	Optional equipment	200−2000ppm, 0−10Vdc	
HS	Extra time, switch	Optional equipment	Pushbutton	
FG01	Fresh air dampers+Damper motor	Optional equipment		
FG39	Exhaust air dampers+Damper motor	Optional equipment		
HZ	Emergency stop		Normally open (NO) as standard	

No	Change	Date	By	Appr by

Drawn by	Check by	Appr by		File	Date	Scale
JP	MKa				09.02.2026	0
			Name COMPONENT CATALOGUE			Weight kg
Enervent Zehnder Oy Tel +358 207 528 800, www.enervent.com Kipinätie 1, FIN−06150, Porvoo			Dwg no. Salla Compact eWind E			Change − / Sheet 1

eWind – Control general function description

Operation of Unit:

Operation modes can be changed from the control panel, with external inputs or through bus control.

BUS connections:

Modbus–RTU is included in the eWind control by default. The units can also be connected to KNX–bus with an external converter (optional equipment). Through the bus measurements can be read and settings can be changed.

Fan control:

The fans are controlled by constant speed. Separate speeds can be adjusted for both fans. Settings can be changed from the control panel.

Heating control:

Supply air temperature TE10 is kept at its set point by help of (cooling), heat recovery and post heater (and additional heater).

Humidity boosting

The eWind control is always equipped with a built–in humidity sensor on the extract air side. The user can take humidity boosting in use when desired. In this case the controller will increase fan speeds if humidity boosting limit value is exceeded.

CO2–Boosting (Optional equipment)

The user can enable CO2–boosting if the unit is equipped with a CO2 sensor. The controller will increase fan speeds if the limit value is exceeded.

Precautions and securities

General

In units with danger of fans, the unit is shut down when the door is opened for maintenance.

Dampers

The dampers are controlled with a relay. The relay is closed when unit is running.

Units with electrical heater

If the heater power exceeds 2kW the unit is equipped with a pressure guard over the supply air fan disabling the heater if there is no airflow through supply air fan.

Units with water heater coil

If the unit is started during cold weather, the TL45 valve is pre–opened depending on the outdoor air temperature as a precaution. When the unit is in stop mode the return water temperature is kept at set stand by temperature measured by the return water temperature sensor. If the return water temperature drops below forcing limits the TL45 valve opens fully. If the return water temperature drops despite all this below alarm limits, the A–alarm is triggered. In this case the TL45 valve stays fully open and the pump relay stays on. There is an exercise function in all pump and valve outputs which runs the pump and valve from time to time to avoid them from sticking up.

Alarms

A–alarms

Class A alarms cause the unit to stop fully and trigger an alarm to the control panel and the A–alarm relay to close. The unit restarts only by resetting the alarm.

AB–alarms

Class AB alarms the unit goes in a state where supply air fan stops, and extract air fan keeps running on minimum speed. When the reason for the alarm is no longer existing, the unit returns to normal operation mode.

No	Change	Date	By	Appr by

Drawn by	Check by	Appr by		File	Date	Scale
JP	MKa				09.02.2026	0
			Name FUNCTION DESCRIPTION			Weight kg
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