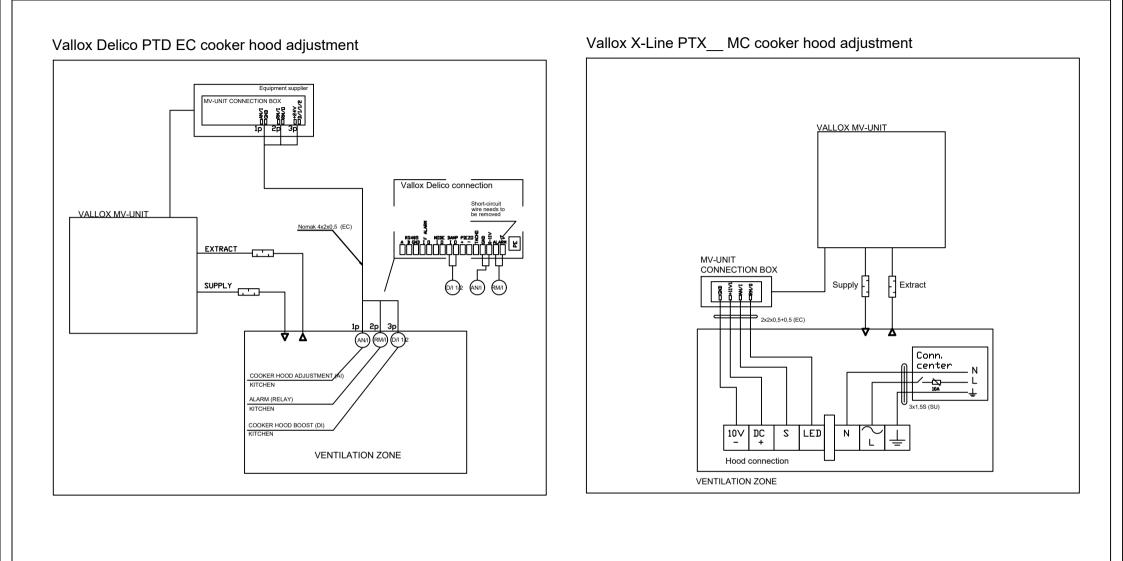


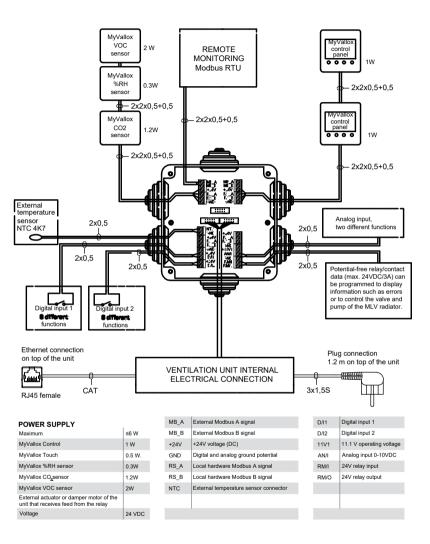
PART ID	DEVICE			LOCATION	SETTING VALUE		BUYS /	NOTE.
	DEVICE						INSTALLS	
%RHCO2	Concent	tration mea	surement	Internal	%RH- ja CO2-sensor		Standard delivery	Standard delivery
AI	Analog	input		Connection box			Standard delivery	
DI1	Digital	Input		Connection box			Standard delivery	
DI2	Digital	Input		Connection box			Standard delivery	
F1	ICO Coa	rse >75%		Internal	ISO Coarse >75%		Standard delivery	
F2	ISO ePM	11 >50%		Internal	ISO ePM1 >50%		Standard delivery	
F3	ICO Coa	rse >75%		Internal	ISO Coarse >75%		Standard delivery	
FG	Bypass	damper mo	tor	Internal			Standard delivery	
Н1	Control	Panel		Connecction box			Standard delivery	Need to be wired. Can be more than one panel.
HRC	Cross c	ounterflow	heat exchanger	Internal			Standard delivery	
LAN	LAN/Et	hernet-con	nection	Cable			Standard delivery	LAN-cabel on top of the unit.
LP1	Electric	al heater		Internal	900 W, with built-in thermal protection		Standard delivery	
LP2	Electrical heater Internal		900 W, with built-in thermal protection		Standard delivery			
мв	Modbus	Modbus-connection		Connection box			Standard delivery	Connected to MV-unit connection box
PF, CF	EC Cons	stant Flow ·	-fan	Internal	Constant Flow -fan		Standard delivery	
S1	Safety	switch		Internal			Standard delivery	
TE1	NTC 4k	7		Internal	4k7		Standard delivery	
TE2	NTC 4k	7		Internal	4k7		Standard delivery	
TE3	NTC 4k	7		Internal	4k7		Standard delivery	
TE4	NTC 4k	7		Internal	4k7		Standard delivery	
TE5	NTC 4k	7		Internal	4k7		Standard delivery	
TF, CF	EC Cons	stant Flow ·	-fan	Internal	Constant Flow -fan		Standard delivery	
X1	Relay o	output		Internal			Standard delivery	
C02	C02			Room			VC / EC	Option. External sensor connected to Modbus.
ких	KNX-co	onverter		External converter			VC / EC	Option, external KNX converter
Revision Do	+0	Person	Change					
		rerson	chunge					Target ADJUSTMENT AND CONTROL Client name DEVICE LIST Address Vallax 99 MV/CE
						VAL	lva (Address Vallox 99 MV CF
						Drawer Person	Designer Person	Project number Date. Revision Drawing number Page 001 Date 001 03 /13
		I	1				1. 0. 500	

			1			
PART ID	DEVICE	LOCATION	SETTING VALUE		BUYS /	NOTE.
					INSTALLS	
RH	%RH	Room			VC / EC	Option. External sensor connected to Modbus.
TE6	External NTC-sensor	Duct	NTC 4k7		VC / EC	Option
voc	voc	Room			VC / EC	Option. External sensor connected to Modbus.
Revision Dat	te Person Change	2				Target ADJUSTMENT AND CONTROL Client name DEVICE LIST
				I VAL		
				Drawer Person	Designer Person	Project numberDate.RevisionDrawing numberPage001Date00104 /13

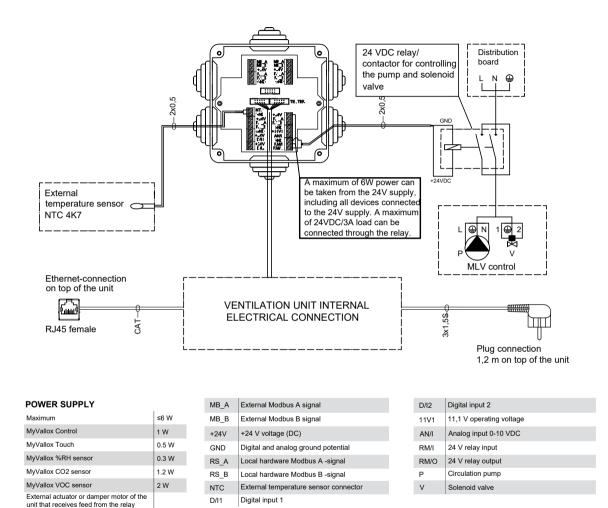


Revisio	n Date	Person	Change			Targ				DJUSTMENT AND CONTR	JL
							t name		ען	DEVICE LIST	
						Addre	22			∕allox 99 MV CF	
				Drawer	Designer		Project number	Date.	Revision	n Drawing number	Page
				Person	Person		001	Date	Α	001	05 /13

EXTERNAL ELECTRICAL CONNECTION



Rev	ision	Date	Person	Change			Client name				ADJUSTMENT AND CONTROL DEVICE LIST Vallox 99 MV CF		
										DEV			
										Val			
											-		
					Drawer	Designer		Project number	Date.	Revision	Drawing number	Page 06 /13	
					Person	Person		001	Date		001	06 /13	



EXTERNAL ELECTRICAL CONNECTION FOR MLV DUCT RADIATOR CONTROL

Revision	Date	Person	Change	VAL		Targe Client Addres	; name		DEN	USTMENT AND CONTRE /ICE LIST lox 99 MV CF]L
					Designer Person		Project number 001	Date. Date	Revision A	Drawing number 001	Page 07 /13

Voltage

24 VDC

MV ventilation unit control options:

- MyVallox Touch control panel
- o local control
- MyVallox Control panel
- o local control
- MyVallox Home online user interface
- o local control in the home network
- MyVallox Cloud online user interface as a cloud service
- o control through the www.MyVallox.com website
- Modbus RTU
- o remote control of the building through Modbus
- Through digital and analog inputs
- o local control, cooker hood or remote control

Fan speed control:

- The fan speed is controlled by using the Away, At home, Boost, and Custom modes. The modes can be switched in all control method options, except for the programmable mode.
- The rotation speed of supply and extract fans can be specified in percentages in the At home, Away, and Boost modes. The rotation speed ratio between the supply and extract fans is the same in the At home, Away and Boost modes.
- In CF models, the supply and extract air flows can be specified in percentages in the At home, Away, and Boost modes. The ratio between the supply and extract air flows is the same in the At home, Away and Boost modes. The air flows remain stable regardless of changes in pressure losses caused by ducts, wind, dirty filters or freezing of the HR cell and the defrost cycles.
- Settings of the Away mode
- Fan speed, supply air temperature, and %RH and CO2 adjustments on/off - Settings of the At home mode
- Fan speed, supply air temperature, and %RH and CO2 adjustments on/off
- Settings of the Boost mode
- Fan speed, supply air temperature, timer, and %RH and CO2 adjustments on/off
- Once the timing ends, the unit will restore to the mode that was in use before the timer setting was activated.
- Settings of the Custom mode
- Fan speed separately for the supply and extract air fans and the timer The supply air temperature setting is determined based on the previous mode Once the timing ends, the unit will restore to the mode that was in use before the timer setting was activated.
- Settings of the programmable mode
- Fan speed separately for the supply and extract air fans, supply air temperature, and the timer

The previous mode is restored once the timing ends

Can only be activated through the digital input 1 or 2, or, alternatively, through Modbus.

Supply air temperature adjustment:

- The supply air temperature adjustment options are supply air adjustment, extract air adjustment, and cooling adjustment.
- Operation of the supply air adjustment:

o When the temperature of the air passing through the heat recovery cell is lower than the temperature set for the supply air and the outdoor air temperature is lower than the Heating season setting, the adjustment uses the heat recovery cell and the post-heating radiator to achieve the set temperature.

o Heat recovery is bypassed if the outdoor air temperature is higher than the Heating season setting and the supply air temperature is higher than the temperature set for supply air.

Operation of the extract air adjustment:

o If the extract air temperature is lower than the temperature set for the supply air and the outdoor air temperature is lower than the Heating season setting, the adjustment increases the target value of the supply air adjustment (max. 10°C).

o If the extract air temperature is higher than the temperature set for supply air and the outdoor air temperature is lower than the Heating season setting, the adjustment decreases the target value of the supply air adjustment (max. 10°C).

o When the temperature of the air coming through the heat recovery cell is lower than the temperature set for supply air and the outdoor air temperature is lower than the Heating season setting, the adjustment uses the heat recovery cell and the post-heating radiator to achieve the target value.

o Heat recovery is bypassed if the outdoor air temperature is lower than the Heating season setting and the supply air temperature is higher than the supply air target value.

- Operation of the cooling adjustment:

o If the extract air temperature is lower than the temperature set for the supply air and the outdoor air temperature is lower than the Heating season setting, the adjustment increases the target value of the supply air adjustment (max. 10°C).

o If the extract air temperature is higher than the temperature set for supply air and the outdoor air temperature is lower than the Heating season setting, the adjustment decreases the target value of the supply air adjustment (max. 10 °C) and boosts the fan speed according to need up to the fan speed setting of the Boost mode. When the Boost mode is in use, the fan speed is increased based on the need up to the maximum speed.

o When the temperature of the air coming through the heat recovery cell is lower than the temperature set for supply air and the outdoor air temperature is lower than the Heating season setting, the adjustment uses the heat recovery cell and the post-heating radiator to achieve the target value.

o Heat recovery is bypassed if the outdoor air temperature is higher than the Heating season setting.

The permitted range of the supply air setting is +5...+25 °C. The recommended setting is +15 °C.

- The post-heating radiator is only used in the heat recovery mode and during defrosting, and when the outdoor air temperature is lower than the Heating season setting.

Revisio	n Date	Person	Change			Targ				ADJUSTMENT AND CONTRO	JL	
							Client name Address			DEVICE LIST		
						Addre	55		\ \	Vallox 99 M∨ CF		
					i							
				Drawer	Designer		Project number	Date.	Revisio	on Drawing number	Page 08 /13	
				Person	Person		001	Date	A	001	08 /13	

Controlling the heat recovery cell bypass:

- The heat recovery cell bypass can be set to operate partially in an on/off manner, or it can be turned off completely.

- The partial bypass of the heat recovery cell has two alternative modes:

o The aim is to maintain the supply air temperature at the set value by fully or partially bypassing the heat recovery cell, when the outdoor air temperature is higher than the Heating season setting.

- o If the outdoor air temperature is lower than the Heating season setting, heat recovery is always
- on.
- On/off bypass of the heat recovery cell

o The heat recovery cell is bypassed fully when the outdoor air temperature is higher than the Heating season setting.

- The unit shifts to the cool recovery mode, when all of the following conditions are met:
- o The supply air target value is lower than the extract air temperature.
- o The outdoor temperature is two degrees higher than the indoor temperature.
- The bypass of the heat recovery cell is not in use:
- o The heat recovery cell is not bypassed.
- Controlling the heat recovery cell by means of a separate switch (digital input):

o The heat recovery mode is activated when the outdoor temperature falls under +3°C, and the heat recovery cell is bypassed when the outdoor temperature increases above +5°C.

Humidity-based control:

- The ventilation unit controls the fan speed based on the humidity level.
- The extract air chamber of the unit contains a humidity sensor that is used in the humidity-based control.
- A separate humidity sensor can be installed outside the unit in the apartment (optional).
- The humidity level can be set either automatically or manually.
- When the automatic humidity level setting is in use, establishing the value takes around 10 hours from the start-up. After this, the unit will update the humidity level automatically.
- When the manual humidity level setting is in use, the humidity level can be set between 1% and 99%.
- The humidity-based control increases the fan speed up to the fan speed setting of the Boost mode. When the Boost mode is in use, the fan speed is increased based on the need up to the maximum speed.
- The humidity-based control cannot reduce the fan speed below the set fan speed of the mode that is in use.
- Note! The ventilation unit cannot increase the humidity level of the apartment.

Carbon dioxide -based control:

- The ventilation unit controls the fan speed based on the carbon dioxide level.
- The extract air chamber of the unit contains a carbon dioxide sensor for carbon dioxide -based control.
- A separate carbon dioxide sensor can be installed outside the unit in the apartment (optional).
- The adjustment range of the carbon dioxide level is 500 ppm 2000 ppm.
- The carbon dioxide -based control increases the fan speed up to the fan speed setting of the

Boost mode. When the Boost mode is in use, the fan speed is increased based on the need up to the maximum speed.

 $-\,$ $\,$ The carbon dioxide -based control cannot reduce the fan speed below the set fan speed of the mode that is in use.

VOC-based control:

- The ventilation unit controls the fan speed based on the VOC level.
- Requires that a VOC sensor be installed outside the unit (optional).

 The VOC sensor gives the ventilation unit a value that is similar to the carbon dioxide level and which is within the range of 500 ppm - 2000 ppm.

The VOC-based control increases the fan speed up to the fan speed setting of the Boost mode.
 When the Boost mode is in use, the fan speed is increased based on the need up to the maximum speed.

 VOC-based control cannot reduce the fan speed below the set fan speed of the mode that is in use.

The defrosting function of the ventilation unit:

- The unit has a heat recovery cell defrosting function that is activated based on the need. When the formation of ice in the heat recovery cell has reached a certain point, the unit will start the defrosting cycle. The defrosting is completed with extract air by bypassing the supply air side of the heat recovery cell. The ratio of the supply and extract air will be maintained as even as possible. Supply air temperature during defrosting cycles can be set to +12...+20°C. During the defrost cycle, the unit uses the post-heating resistor and possible additional heating resistor to reach the set supply air temperature.

– Alternatively, the defrosting can be completed by stopping the supply air fan.

 If the unit cannot defrost the heat recovery cell within the set time limit, e.g., because the ceiling feed-through has become frozen, the unit will complete a boosted defrosting cycle and increase the extract fan speed for the duration of this cycle.

- The unit also includes a manual defrosting function that can be activated through various user interfaces.

Safety devices:

 Overheating protectors of the post-heating resistor: Two overheating protectors have been integrated with the resistor. One of the overheating protectors is automatically restoring (of type BTS) and the other is cutting off (of type BTC, cut-off).

- Fans are equipped with automatic overheating protectors.

 The safety switch of the door cuts off the power feed to the unit when the door is opened. Despite this, always disconnect the power plug before starting maintenance work on the unit. The Vallox 51 MV and 51K MV units do not have a door safety switch.

Revision	Date	Person	Change			Target Client name Address				ADJUSTMENT AND CONTROL DEVICE LIST		
						Addre	55			Vallo	× 99 M∨ CF	
				Drawer	Designer		Project number	Date.	Revisio	on Dr	rawing number	Page
				Person	Person		001	Date	Α	00	01	Page 09 /13

Alarms and reminders:

- The ventilation unit stops in error situations, except for data transfer errors. The unit gives an error message in the following situations:
- o The fan has stopped.
- o The temperature sensor is damaged
- o Data transfer error between the control panel and the motherboard
- o Low temperature of supply air
- The 24 V potential-free error relay provides information of the error affecting the unit. In an error situation, the ends of the relay open. The ends of the relay open in the following situations:
- o The fan has stopped.
- o The temperature sensor is damaged
- o The ventilation unit has stopped (on/off status information)

 The maintenance reminder notifies the user through the control panel of the service need once every four months (factory setting). The notification interval can be changed, turned off or set to be automatically acknowledged. Check the maintenance measures from the manual.

- Data can also be read through the Modbus channel.
- The relay can, alternatively, be programmed for the following functions:

Relay function	ends closed	ends open
Maintenance reminder	normal operation	maintenance reminder
Fault	normal operation	error situation
Fault and maintenance reminder	normal operation	maintenance reminder/error
Emergency stop	normal operation	emergency stop
Position of the bypass damper	winter setting	summer setting
Duct radiator control	on	off
Air heating	on	off
On/off status	on	off

Digital controls (2 pcs)

- The unit has two digital inputs. The functions listed in the table below can be selected for these inputs.
- Digital control can be operated either by using the press button or the rocker switch. Both digital inputs recognize the type of the switch automatically.
- The press button functions become activated every time the press button is released. A function that has been activated with the press button can be cancelled by keeping the press button pressed down for five seconds.
- When the press button is used, the selected mode will be activated for the duration set on the timer, after which the unit will return to the normal mode.
- Rocker switch functions will be activated and deactivated directly based on the position of the rocker switch.
- When the rocker switch is turned to the ON position for the first time, it will take the rocker switch function five seconds to activate. After that, the function will be activated immediately.

 In addition, the press button function can be activated by keeping the rocker switch in the ON position for less than five seconds. The press button function can be cancelled by keeping the rocker switch in the ON position for over five seconds.

Function	With the rocker swi	itch	Ends open
	0 V	24 V	A 24 V pulse for less than 5 seconds
Custom mode	Off	On	On for the set period of time
At home/Away control	At home	Away	Changes the status between the At home and Away modes
Emergency stop	The unit turns off	Normal operation	The unit turns off
Boost	Off	Ön	On for the set timer period
Direct control of the heat recovery cell bypass	Automatic status	Bypass status	Changes the bypass status
Week clock	Off	On	Changes the week clock status
Programmable input	Off	On	On for the set period of time

Programmable input (1 pc)

One programmable digital input can be connected to the ventilation unit

- The programmable input can be used to turn a preset function on (24V) or off (0V). The following will be configured for the function:

- o supply and extract air fan speeds
- o supply air temperature setting
- o duration

Analog input (1 pc) The control options of the analog input are:

Function	Voltage value
Stop, away, at home, boost	Stop = 0-1 V, Away = 2-4 V, At Home = 5-7 V, Boost = 8-10 V
Supply air temperature control	0-10 V = +5+25 °C

Modbus:

- Two-way traffic through Modbus
- o Modbus can be used to control and read the operating modes of the unit
- o Settings can be made for the ventilation unit (e.g., supply air temperature adjustment)
- o Errors can be read
- o See the separate Modbus register for further information

Power consumption of control panels and sensors

- The combined power of the devices connected to the ventilation unit must not exceed 6W. The power consumption of each device is specified below

- o Control panel 1W
- o Humidity sensor 0.3W
- o Carbon dioxide sensor 1.2W
- o VOC sensor 2W

Revisior	n Date	Person	Change			Targe				JUSTMENT AND CONTRI VICE LIST	OL
				VAL		Addres	; name ss			llox 99 MV CF	
										1	
				Drawer Person	Designer Person		Project number 001	Date. Date	Revision A	Drawing number 001	Page 10 /13

The external liquid radiator is controlled through the 24V relay of the ventilation unit Liquid radiator in the outdoor air duct

The ventilation unit measures the outdoor temperature by means of an NTC temperature sensor installed before the liquid radiator in the outdoor air duct (optional).

- Heating (optional)
- o When the outdoor temperature falls below the winter setting, the radiator is turned on.
- When the outdoor temperature increases one degree above the winter setting, the radiator is turned off.
 Cooling

o When the outdoor temperature it above the summer setting and the supply air temperature increases one degree above the supply air target value, the radiator is turned on.

- o When the outdoor temperature falls below the supply air target value, the radiator is turned off.
- Automatic condensing limit (optional)
- o The ventilation unit calculates a dew point based on the temperature and humidity, and will not cool the supply air below this temperature. Requires that an NTC temperature sensor be installed in the duct. Liquid radiator in the supply air duct

The ventilation unit measures the supply air temperature through an NTC sensor (optional) that is installed in the supply air duct after the liquid radiator or in the room. The unit aims to maintain the supply air temperature at the target value. If the target value cannot be achieved by partially bypassing the heat recovery cell, the duct radiator is turned on.

Ventilation heating

- When the supply air or the room temperature falls below the target value, the radiator is turned on.
- When the supply air or the room temperature increases one degree above the target value, the radiator is turned off.

Cooling

 When the outdoor temperature is above the summer setting and the supply air or room temperature increases one degree above the supply air target value, the radiator is turned on.

- When the supply air or the room temperature falls below the supply air target value, the radiator is turned off. Automatic condensing limit (optional)

 The ventilation unit calculates a dew point based on the temperature and humidity, and will not cool the supply air below this temperature. Requires that an NTC temperature sensor be installed in the duct.
 Freeze protection of the internal liquid radiator of the unit (Vallox 245 MV VKL)

- The internal liquid radiator of the unit has programmed freeze protection. Both fans of the unit stop, when the supply air temperature is <+5°C and the outdoor air temperature is <0°C. The fans start, when the supply air temperature is >+5 °C.

Cooker hood control options

Control method 1 (cooker hood, humidity and carbon dioxide -based control)

MyVallox ventilation units do not have a control panel. The setup of the unit is completed through a computer or a setup control panel. The fan speed of the MyVallox ventilation unit is adjusted from the Vallox Delico PTD EC cooker hood (Away/At home/Boost). The fan speed will be increased to the Boost mode, when the damper of the cooker hood is opened. The damper of the cooker hood will close after one hour (can be adjusted) when the timer is used, or it can be closed by using the button located on the cooker hood, after which the fan speed is restored to the previously used speed. When the humidity or carbon dioxide level of the extract air increases, ventilation is boosted. When the error data/alarm of the cooker hood (Alarm) is connected, the signal light of the cooker hood will flash when a maintenance reminder or error data is received from the ventilation unit. The relay setting options of the ventilation unit are maintenance reminder, error data, both, or off. If the signal light is not turned on, Alarm cables can be left disconnected.

Control method 2 (MyVallox Control panel, cooker hood, humidity and carbon dioxide -based control)

The fan speed of the MyVallox ventilation unit is adjusted from the MyVallox Control panel and the Vallox Delico PTD EC cooker hood (Away/At home/Boost). The latest command will remain in force. The fan speed will be increased to the Boost mode, when the damper of the cooker hood is opened. The damper of the cooker hood will close after one hour (can be adjusted) when the timer is used, or it can be closed by using the button located on the cooker hood, after which the fan speed is restored to the previously used speed. When the humidity or carbon dioxide level of the extract air increases, ventilation is boosted. When the error data/alarm of the cooker hood (Alarm) is connected, the signal light of the cooker hood will flash when a maintenance reminder or error data is received from the ventilation unit. The relay setting options of the ventilation unit are maintenance reminder, error data, both, or off. If the signal light is not turned on, Alarm cables can be left disconnected.

Control method 3 (cooker hood, contact data of the position of the cooker hood damper, humidity and carbon dioxide -based control)

MyVallox ventilation units do not have a control panel. The setup of the unit is completed through a computer or a setup control panel. The fan speed of the MyVallox ventilation unit is adjusted from the Vallox Delico PTD EC cooker hood (Away/At home/Boost). The speed of the fans is increased to the selected speed based on the contact data received from the cooker hood indicating that the damper is open. For the duration that the damper is open, the speeds of the supply and extract air fans will be set so that the ratio between the supply and extract air flows does not change. The damper of the cooker hood will close after one hour (can be adjusted) when the timer is used, or it can be closed by using the button located on the cooker hood, after which the fan speed is restored to the previously used speed. When the humidity or carbon dioxide level of the extract air increases, ventilation is boosted. When the error data/alarm of the cooker hood (Alarm) is connected, the signal light of the cooker hood will flash when a maintenance reminder or error data is received from the ventilation unit. The relay setting options of the ventilation unit are maintenance reminder, error data, both, or off. If the signal light is not turned on, Alarm cables can be left disconnected.

Revisio	n Date	Person	Change				Target			ADJUSTMENT AND CONTROL		
						Clien ⁻ Addre	t name		1	DE∨ICE LIST		
						Huure	22		\ `	Vallox 99 MV CF		
					·		i					
				Drawer	Designer		Project number	Date.	Revisio	n Drawing number	Page	
				Person	Person		001	Date	А	001	Page 11 /13	

Control method 4 (MyVallox Control panel, cooker hood, contact data of the position of the cooker hood damper, humidity and carbon dioxide -based control)

The fan speed of the MyVallox ventilation unit is adjusted from the MyVallox Control panel and the Vallox Delico PTD EC cooker hood (Away/At home/Boost). The latest command will remain in force. The speed of the fans is increased to the selected speed based on the contact data received from the cooker hood indicating that the damper is open. For the duration that the damper is open, the speeds of the supply and extract air fans will be set so that the ratio between the supply and extract air flows does not change. The damper of the cooker hood will close after one hour (can be adjusted) when the timer is used, or it can be closed by using the button located on the cooker hood, after which the fan speed is restored to the previously used speed. When the humidity or carbon dioxide level of the extract air increases, ventilation is boosted. When the error data/alarm of the cooker hood (Alarm) is connected, the signal light of the cooker hood will flash when a maintenance reminder or error data is received from the ventilation unit. The relay setting options of the ventilation unit are maintenance reminder, error data, both, or off. If the signal light is not turned on, Alarm cables can be left disconnected.

Control method 5A (At home/Away switch, contact data of the position of the cooker hood damper, humidity and carbon dioxide -based control)

MyVallox ventilation units do not have a control panel. The setup of the unit is completed through a computer or a setup control panel. The switch located in the lobby is used to select either the Away or the At home mode. The speed of the fans increases to the selected speed based on the contact data received from the Vallox Delico KTD A, or Vallox X-Line KTXA cooker hood indicating that the damper is open. For the duration that the damper is open, the speeds of the supply and extract air fans will be set so that the ratio between the supply and extract air flows does not change. The damper of the cooker hood will close after one hour when the timer is used, or it can be closed by using the button located on the cooker hood, after which the fan speed is restored to the speed previously used. When the humidity or carbon dioxide level of the extract air increases, ventilation is boosted. When the error data/alarm of the cooker hood (Alarm) is connected, the signal light of the cooker hood will flash when a maintenance reminder or error data is received from the ventilation unit. The relay setting options of the ventilation unit are maintenance reminder, error data, both, or off. If the signal light is not turned on, Alarm cables can be left disconnected.

Control method 5B (contact data of the position of the cooker hood damper, humidity and carbon dioxide -based control)

MyVallox ventilation units do not have a control panel. The setup of the unit is completed through a computer or a setup control panel. The speed of the fans increases to the selected speed based on the contact data received from the Vallox Delico KTD A, or Vallox X-Line KTXA cooker hood indicating that the damper is open. For the duration that the damper is open, the speeds of the supply and extract air fans will be set so that the ratio between the supply and extract air flows does not change. The damper of the cooker hood will close after one hour when the timer is used, or it can be closed by using the button located on the cooker hood, after which the fan speed is restored to the speed previously used. The ventilation unit normally uses the fan speed set for the Away mode and the ventilation is boosted when the humidity or carbon dioxide level of the extract air increases. When the error data/alarm of the cooker hood (Alarm) is connected, the signal light of the cooker hood will flash when a maintenance reminder or error data, both, or off. If the signal light is not turned on, Alarm cables can be left disconnected.

Control method 6 (MyVallox Control panel, contact data of the position of the cooker hood damper, humidity and carbon dioxide -based control)

The fan speed of the MyVallox ventilation unit is adjusted from the MyVallox Control -panel (Away/At home/Boost). From the boost mode, the fan speed restores to the previously used speed after 30 minutes (can be adjusted). The speed of the fans increases to the selected speed based on the contact data received from the Vallox Delico KTD A, or Vallox X-Line KTXA cooker hood indicating that the damper is open. For the duration that the damper is open, the speeds of the supply and extract air fans will be set so that the ratio between the supply and extract air flows does not change. The damper of the cooker hood will close after one hour when the timer is used, or it can be closed by using the button located on the cooker hood, after which the fan speed is restored to the speed previously used. When the humidity or carbon dioxide level of the extract air increases, ventilation is boosted. When the error data/alarm of the cooker hood (Alarm) is connected, the signal light of the cooker hood will flash when a maintenance reminder or error data, both, or off. If the signal light is not turned on, Alarm cables can be left disconnected.

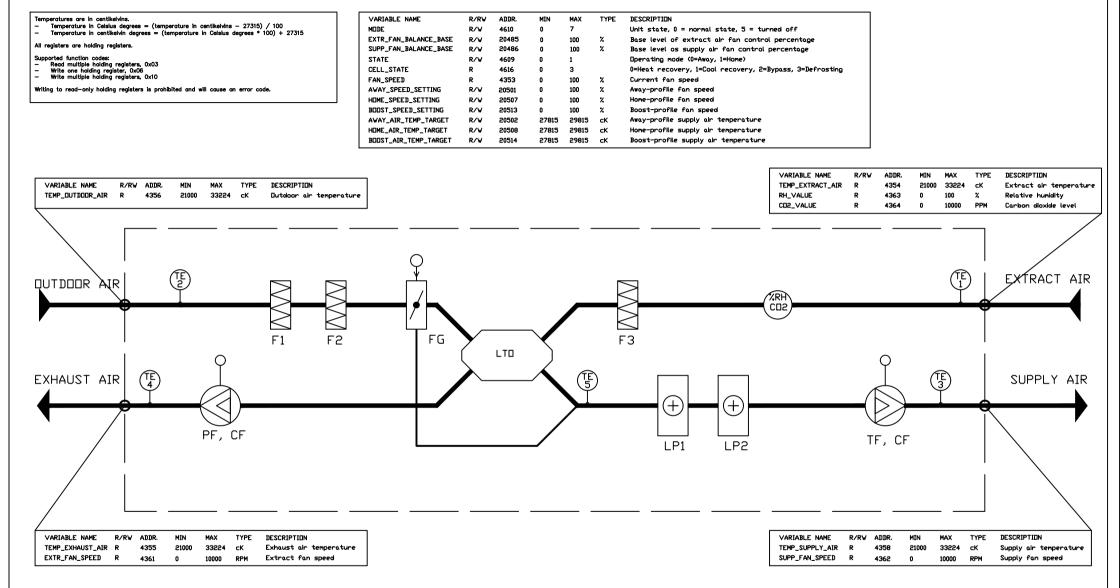
Control method 7 (cooker hood, humidity and carbon dioxide -based control)

MyVallox ventilation units do not have a control panel. The setup of the unit is completed through a computer or a setup control panel. The fan speed of the MyVallox ventilation unit is adjusted from the Vallox X-Line PTXP MC or Vallox X-Line PTXPA MC cooker hood (Away/At home/Boost). When the humidity or carbon dioxide level of the extract air increases, ventilation is boosted. When the LED cable of the cooker hood is connected, the signal light of the cooker hood will remain turned on when the ventilation unit is on. The signal light will turn off when a maintenance reminder or error data is received from the ventilation unit. The relay setting options of the ventilation unit are maintenance reminder, error data, both, or off. If the signal light is not turned on, the LED cable can be left disconnected.

Control method 8 (MyVallox Control panel, cooker hood, humidity and carbon dioxide -based control)

The fan speed of the MyVallox ventilation unit is adjusted from the MyVallox Control panel and the Vallox X-Line PTXP MC or Vallox X-Line PTXPA MC cooker hood (Away/At home/Boost). The latest command will remain in force. When the humidity or carbon dioxide level of the extract air increases, ventilation is boosted. When the LED cable of the cooker hood is connected, the signal light of the cooker hood will remain turned on when the ventilation unit is on. The signal light will turn off when a maintenance reminder or error data is received from the ventilation unit. The relay setting options of the ventilation unit are maintenance reminder, error data, both, or off. If the signal light is not turned on, the LED cable can be left disconnected.

Revisio	n Date	Person	Change			Targe			ADJUSTMENT AND CONTROL		
						Client name Address				DEVICE LIST	
										Vallox 99 MV CF	
				Drawer Designer		Project number		Date.	Revisio	on Drawing number	Page
				Person	Person		001	Date		001	Page 12 /13



Complete Modbus register descriptions can be found from: https://res.cloudinary.com/vallox/image/upload/v1701783910/FileStock/ValidManuals/Manual_Modbus_ENG.pdf

MODBUS (RTU) REGISTERS

Revis	on Date	Person	Change			Target Client name Address			ADJUSTMENT AND CONTROL			
									DF	DEVICE LIST		
						Addres	55		Va	Vallox 99 MV CF		
											_	
				Drawer	Designer		Project number	Date.	Revision	Drawing number	Page	
				Person	Person		001	Date	А	001	Page 13 /13	