

							1
PART ID D	DEVICE	LOCATION	SETTING VALUE		BUYS /	NOTE.	
					INSTALLS		
%RHC02 C	Concentration measurement	Internal	%RH- ja CO2-sensor		Standard delivery	Standard delivery	
AI A	Analog input	Connection box			Standard delivery		
DI1 D	Digital Input	Connection box			Standard delivery		
DI2 D	Digital Input	Connection box			Standard delivery		
F1 10	ICO Coarse >75%	Internal	ISO Coarse >75%		Standard delivery		
F2 IS	ISO ePM1 >50%	Internal	ISO ePM1 >50%		Standard delivery		
F3 10	ICO Coarse >75%	Internal	ISO Coarse >75%		Standard delivery		
FG B	Bypass damper motor	Internal			Standard delivery		
Н1 С	Control Panel	Connecction box			Standard delivery	Need to be wired. Can be more than one panel.	
HRC C	Cross counterflow heat exchanger	Internal			Standard delivery		
LAN L	LAN/Ethernet-connection	Cable			Standard delivery	LAN-cabel on top of the unit.	
LP1 E	Electrical heater	Internal	Built-in thermal protection		Standard delivery		
LP2 E	Electrical heater	Internal	Built-in thermal protection		Standard delivery		
мв м	Modbus-connection	Connection box			Standard delivery	Connected to MV-unit connection box	
PF E	EC-fan	Internal			Standard delivery		
S1 S	Safety switch	Internal			Standard delivery	NOTE: There is no safety-switch in Vallox 51 MV -unit	
TE1 N	NTC 4k7	Internal	4k7		Standard delivery		
TE2 N	NTC 4k7	Internal	4k7		Standard delivery		
TE3 N	NTC 4k7	Internal	4k7		Standard delivery		
TE4 N	NTC 4k7	Internal	4k7		Standard delivery		
TE5 N	NTC 4k7	Internal	4k7		Standard delivery		
TF E	EC-fan	Internal			Standard delivery		
X1 R	Relay output	Internal			Standard delivery		
CO2 C	C02	Room			VC / EC	Option. External sensor connected to Modbus.	
KNX K	KNX-converter	External converter			VC / EC	Option, external KNX converter	
,					1_		
Revision Date	Person Change			VAL	LOX	「arget Client name Address	ADJUSTMENT AND CONTROL DEVICE LIST
				TAL		adaress	Vallox MV-units
				Drawer	Designer	Project number Date. Re	evision Drawing number Page

PART ID	DEVIC	F		LOCATION	SETTING VALUE		BUYS /	NOTE.					
TANTID	DE VICI			ESCATION	SETTING VALUE		INSTALLS	11012.					
RH	%RH			Room			VC / EC	Option.	External sensor connected t	to Modbus.			
TE6	Exteri	nal NTC-sens	or	Duct	NTC 4k7		VC / EC	Option					
voc	voc			Room			VC / EC	Option.	External sensor connected t	to Modbus.			
	_ l			I .			<u> </u>	-					
Revision I	ate	Person	Change			WAL	LOV	Iarg Clien	et t name ess		AD DE	JUSTMENT AND COM	NTROL
						VAL	LOX	Addre	?SS		Vo	allox MV-units	
						Drawer Person	Designer Person		Project number 001	Date. Date	Revision	Drawing number 001	Page 04 /19
						1. 2. 22.7	1: 2: = =::		,	1		1	12:

VALLOX MV-UNIT POST- AND ADDITIONAL HEATER POWER AND UNIT MAX POWER CONSUMPTION

Unit	Postheater LP1	Add. heater LP2	Max. power consump.
Vallox 51 MV	0,9 kW	×	1 kW
Vallox TSK Multi 50 MV	0,9 kW	X	1 kW
Vallox 096 MV	0,9 kW	×	1,1 kW
Vallox 99 MV	0,9 kW	0,9 kW	2 kW
Vallox 110 MV	0,9 kW	0,9 kW	2 kW
Vallox TSK Multi 80 MV	0,9 kW	0,9 kW	2 kW
Vallox 125 MV	0,9 kW	0,9 kW	2,2 kW
Vallox 145 MV	0,9 kW	1,5 kW	2,7 kW
Vallox 245 MV	1,5 kW	1,5 kW	3,3 kW

Revision	Date	Person	Change

VALLOX

Designer

Person

Drawer

Person

Target Client name Address

001

ADJUSTMENT AND CONTROL DEVICE LIST

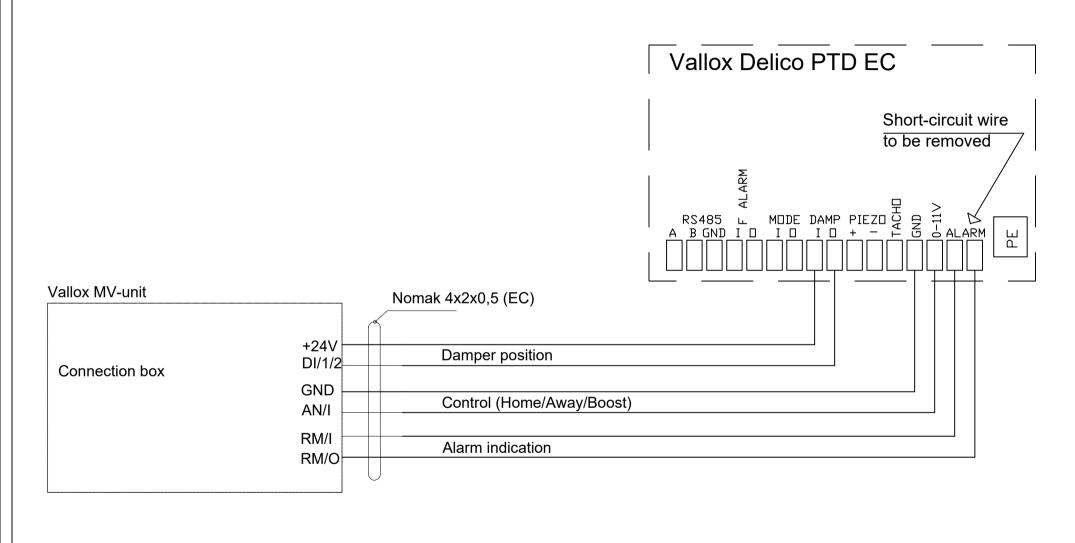
Vallox MV-units

Project number Date. Revision Drawing

Date

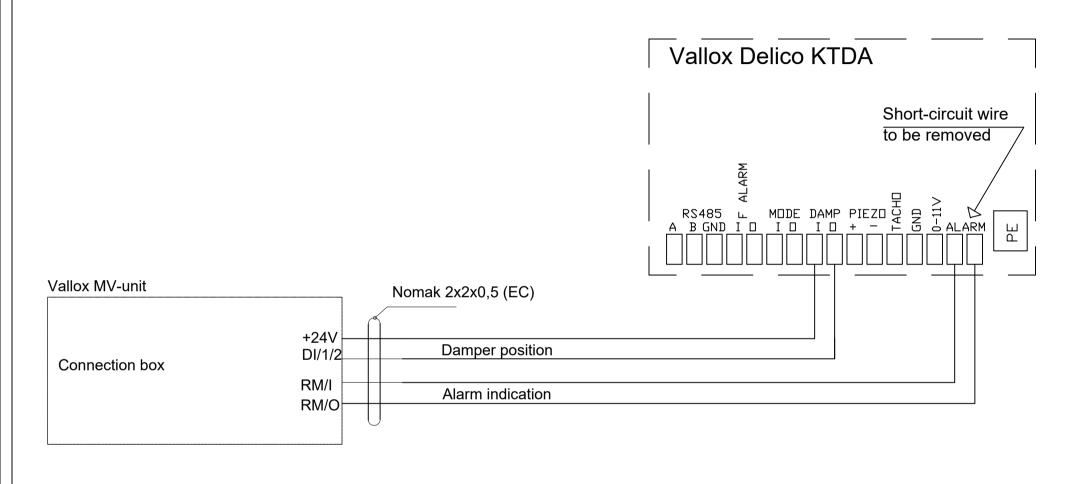
Drawing number Page 001 05 /19

Vallox MV-unit connection with Vallox Delico PTD EC cooker hood



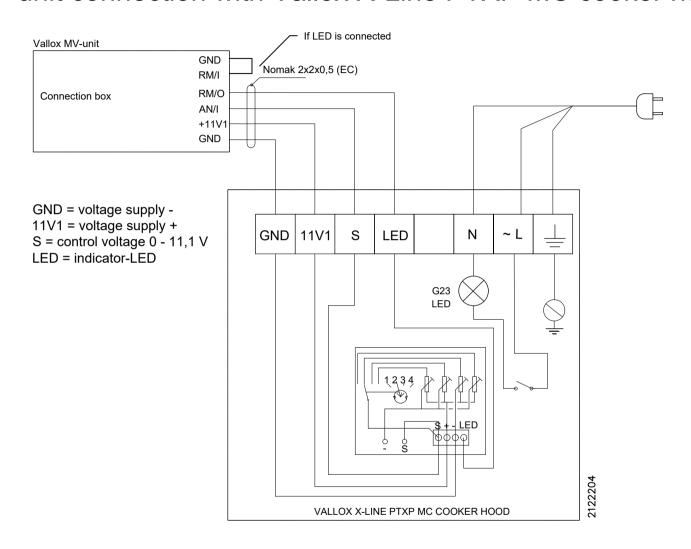
Revisio	n Date	Person	Change	VAL		Targe Client Addres	name		DE	DJUSTMENT AND CONTRO VICE LIST Allox MV-units	L
					Designer Person		Project number 001	Date. Date	Revision 	Drawing number	Page 06 /19

Vallox MV-unit connection with Vallox Delico KTDA cooker hood



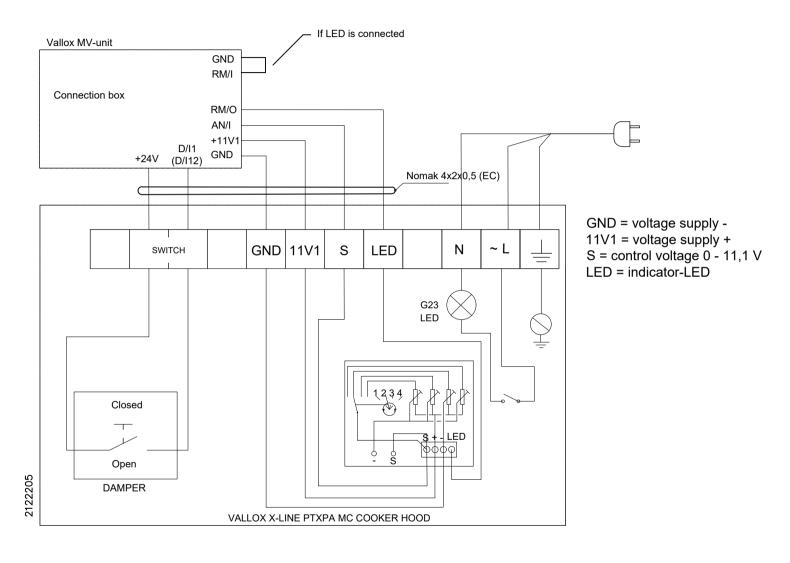
Revision	n Date	Person	Change			Targe	et t name				IL
				VAL		Addre				llox MV-units	
					Designer Person		Project number 001	Date. Date	Revision 	Drawing number 001	Page 07 /19

Vallox MV-unit connection with Vallox X-Line PTXP MC cooker hood



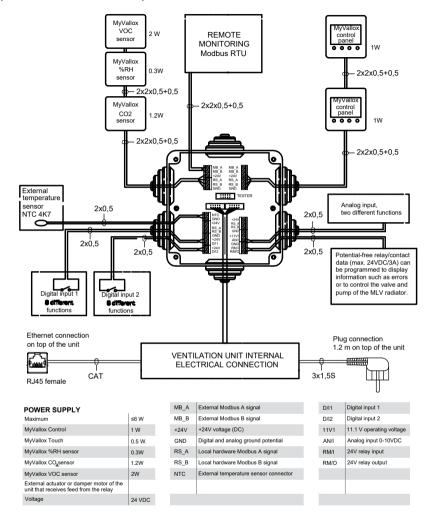
Revisio	n Date	Person	Change			Targe			USTMENT AND CONTRO	JL
				VAL		Client Addres	name ss		ICE LIST lox MV-units	
				Drawer Person	Designer Person		Project number 001	Date. Date	Drawing number	Page 08 /19

Vallox MV-unit connection with Vallox X-Line PTXPA MC cooker hood

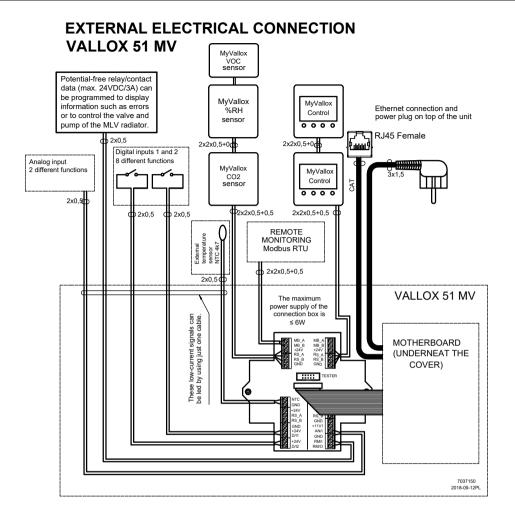


Revision	Date	Person	Change			Targe				JUSTMENT AND CONTRO	IL I
				VAL		Client	name		DF	VICE LIST	
						Addres	55		Vo	ullox MV-units	
	1	1		Drawer	Designer		Project number	Date.	Revision	Drawing number	Page
				Person	Person		001	Date	Α	001	Page 09 /19

EXTERNAL ELECTRICAL CONNECTION | MYVALLOX VENTILATION UNITS (NOT VALLOX 51 MV)



Re	vision	Date	Person	Change			Targe				JUSTMENT AND CONTRO	JL
					VAL			t name] DF /	/ICE LIST	
							Addre	55		Val	llox MV-units	
								•				
		_			Drawer	Designer		Project number	1	Revision	Drawing number	Page
					Person	Person		001	Date		001	10 /19



POWER SUPPLY

Maximum	≤6 W
MyVallox Control	1 W
MyVallox Touch	0.5 W
MyVallox %RH sensor	0.3 W
MyVallox CO2 sensor	1.2 W
MyVallox VOC sensor	2 W
External actuator or damper motor of the unit that receives feed from the relay	
Voltage	24 VDC

MB_A	External Modbus A signal
MB_B	External Modbus B signal
+24V	+24V voltage (DC)
GND	Digital and analog ground potential
RS_A	Local hardware Modbus A signal
RS_B	Local hardware Modbus B signal
NTC	External temperature sensor connector

D/I1	Digital input 1
D/I2	Digital input 2
11V1	11.1 V operating voltage
AN/I	Analog input 0-10 VDC
RM/I	24V relay input
RM/O	24V relay output

Revision	Date	Person	Change



Target Client name Address ADJUSTMENT AND CONTROL DEVICE LIST

Vallox MV-units

Drawer Person

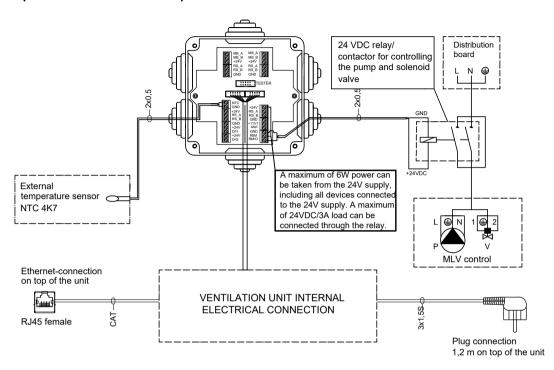
Designer Person Project number 001 Revision

Date.

Date

Drawing number 001 Page 11 /19

EXTERNAL ELECTRICAL CONNECTION FOR MLV DUCT RADIATOR CONTROL (NOT VALLOX 51 MV)



POWER SUPPLY

Maximum	≤6 W
MyVallox Control	1 W
MyVallox Touch	0.5 W
MyVallox %RH sensor	0.3 W
MyVallox CO2 sensor	1.2 W
MyVallox VOC sensor	2 W
External actuator or damper motor of the unit that receives feed from the relay	
Voltage	24 VDC

MB_A	External Modbus A signal
MB_B	External Modbus B signal
+24V	+24 V voltage (DC)
GND	Digital and analog ground potential
RS_A	Local hardware Modbus A -signal
RS_B	Local hardware Modbus B -signal
NTC	External temperature sensor connector
D/I1	Digital input 1

D/I2	Digital input 2
11V1	11,1 V operating voltage
AN/I	Analog input 0-10 VDC
RM/I	24 V relay input
RM/O	24 V relay output
Р	Circulation pump
V	Solenoid valve

Revision	Date	Person	Change	_
				1
				ì
				_
	·			. 1

VALL	OX
------	----

Target Client name Address ADJUSTMENT AND CONTROL DEVICE LIST

Vallox MV-units

Drawer Designer
Person Person

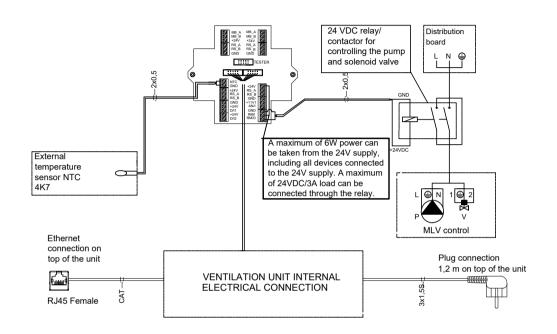
Project number 001 Revision A

Date.

Date

Drawing number 001 Page 12 /19

EXTERNAL ELECTRICAL CONNECTION FOR CONTROLLING THE MLV DUCT RADIATOR VALLOX 51 MV



POWER SUPPLY

Maximum	≤6 W
MyVallox Control	1 W
MyVallox Touch	0.5 W
MyVallox %RH sensor	0.3 W
MyVallox CO2 sensor	1.2 W
MyVallox VOC sensor	2 W
External actuator or damper motor of the unit that receives feed from the relay	
Voltage	24 VDC

MB_A	External Modbus A signal
MB_B	External Modbus B signal
+24V	+24V voltage (DC)
GND	Digital and analog ground potential
RS_A	Local hardware Modbus A signal
RS_B	Local hardware Modbus B signal
NTC	External temperature sensor connector
D/I1	Digital input 1

D/I2	Digital input 2
11V1	11.1 V operating voltage
AN/I	Analog input 0-10VDC
RM/I	24V relay input
RM/O	24V relay output
Р	Circulation pump
V	Solenoid valve

Revision	Date	Person	Change



Target Client name Address ADJUSTMENT AND CONTROL DEVICE LIST

Vallox MV-units

Drawer Person Designer Person Project number 001 Date. Date Revision

Drawing number

Page 13 /19

MV ventilation unit control options:

- MvVallox Touch control panel
- local control
- MvVallox Control panel
- local control O
- MvVallox Home online user interface
- local control in the home network 0
- MvVallox Cloud online user interface as a cloud service
- control through the www.MyVallox.com website 0
- Modbus RTU
- remote control of the building through Modbus
- Through digital and analog inputs
- 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
- 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:
- 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.
- 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:
- 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).
- 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).
- 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.
- 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:
- 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).
- 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.
- 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.
- Heat recovery is bypassed if the outdoor air temperature is higher than the Heating season 0 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.

sion	Date	Person	Change	
				VALIO
				VALLUA

Target Client name Address

ADJUSTMENT AND CONTROL DEVICE LIST

Vallox MV-units

Drawer Designer Person

Person

Project number 001

Date. Date Α

Revision

Drawing number 001

Page 14 /19

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.
- 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:
- 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
- Note! The ventilation unit cannot increase the humidity level of the apartment.

Carbon dioxide -based control:

Person

Change

Revision Date

- 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.

Target Client name Address ADJUSTMENT AND CONTROL DEVICE LIST

Vallox MV-units

Drawer Person

Designer Person Project number 001 Date. Ro Date A

Revision D

Drawing number NN1 Page 15 /19

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

Revision	Date	Person	Change	VAL		Client name				ADJUSTMENT AND CONTROL DEVICE LIST		
				VAL		Address			Vo	Vallox MV-units		
				Drawer	Designer		Project number	Date.	Revision	Drawing number	Page	
				Person	Person		001	Date	Α	001	16 /19	

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.
- o 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			Targe				JUSTMENT AND CONTRE	JL	
				VAL		Client name			ηF,	DEVICE LIST		
				VAL		Address			Va	Vallox MV-units		
				Drawer	Designer		Project number	Date.	Revision	Drawing number	Page 17 /19	
				Person Person			001	Date	Α	001	17 /19	

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 MvVallox ventilation unit is adjusted from the MvVallox 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 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 6 (MvVallox 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 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 7 (cooker hood, humidity and carbon dioxide -based control)

MvVallox 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.

	Change	Person	Date	Revision
Drawer Person				
rerson		I	i	



Target Client name Address

ADJUSTMENT AND CONTROL DEVICE LIST

Vallox MV-units

Person

Project number 001

Revision

Date.

Date

Drawing number 001

Page 18 /19



Temperatures are in centikelvins.

— Temperature in Celelus degrees = (temperature in centikelvins - 27315) / 100

— Temperature in centikelvin degrees = (temperature in Celelus degrees * 100) + 27315

All registers are holding registers.

Supported function codes:

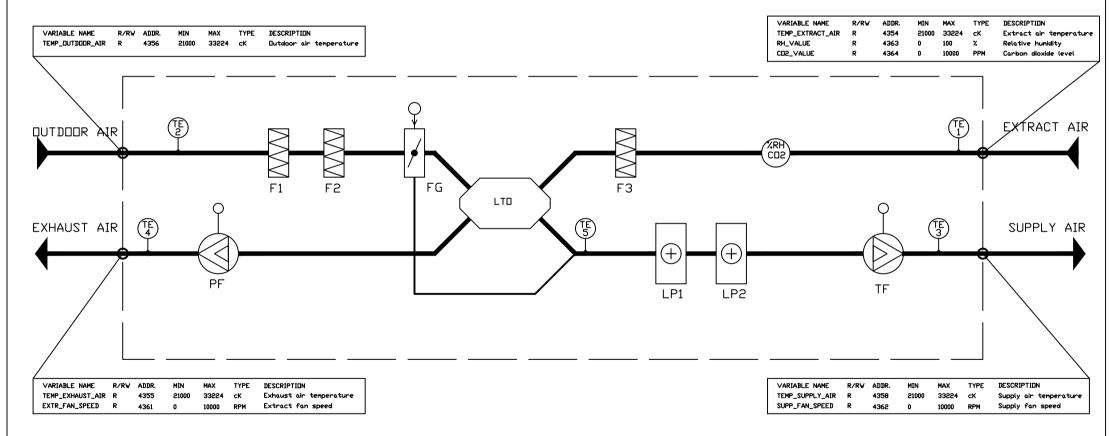
Read multiple holding registers, 0x03

Write one holding register, 0x06

Write multiple holding registers, 0x10

Writing to read—only holding registers is prohibited and will cause an error code.

VARIABLE NAME	R/RW	ADDR.	MIN	MAX	TYPE	DESCRIPTION
MODE	R/W	4610	0	7		Unit state, 0 = normal state, 5 = turned off
EXTR_FAN_BALANCE_BASE	R/W	20485	0	100	%	Base level of extract air fan control percentage
SUPP_FAN_BALANCE_BASE	R/W	20486	0	100	%	Base level os supply air fan control percentage
STATE	R/W	4609	0	1		Operating mode (0=Away, 1=Home)
CELL_STATE	R	4616	0	3		0=Heat recovery, 1=Cool recovery, 2=Bypass, 3=Defrosting
FAN_SPEED	R	4353	0	100	%	Current fan speed
AWAY_SPEED_SETTING	R/W	20501	0	100	%	Away-profile fan speed
HOME_SPEED_SETTING	R/W	20507	0	100	%	Home-profile fan speed
BODST_SPEED_SETTING	R/W	20513	0	100	%	Boost-profile fan speed
AWAY_AIR_TEMP_TARGET	R/W	20502	27815	29815	cK	Away-profile supply air temperature
HDME_AIR_TEMP_TARGET	R/W	20508	27815	29815	cK	Home-profile supply air temperature
BOOST_AIR_TEMP_TARGET	R/W	20514	27815	29815	cK	Boost-profile supply air temperature



Revisio	n Date	Person	Change								L	
				VAL		Client name Address			DF	DEVICE LIST		
					TALLOA		Hadress		Va	Vallox MV-units		
				Drawer	Designer		Project number	Date.	Revision	Drawing number	Page	
				Person	Person		001	Date	Α	001	Page 19 /19	