

Vallox Pureo

Manual



Air handling units

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SAFETY

Safe and appropriate handling requires knowledge of the basic safety regulations, and of the intended use of the ventilation system. Please read this manual before operating the air handling unit and keep it for later reference. If you lose this manual, it can be downloaded from our website.

This user manual contains all the information necessary for the safe operation of the system. All persons who operate and maintain the ventilation system must follow the instructions provided in this manual. Furthermore, all local accident prevention regulations must be observed.

Installation

Installation and setup should only be carried out by a qualified expert. Electrical installations and connections must only be carried out by an electrician and in compliance with local regulations.

GUARANTEE

The guarantee and liability exclude damage resulting from:

- Inappropriate use of the ventilation system or the control unit
- Incorrect or inappropriate installation, setup, or use
- Neglect of instructions concerning transportation, installation, use, or maintenance
- Structural or electronic modifications, or changes made to the software

INTENDED USE

All Vallox air handling units have been designed to provide appropriate and continuous ventilation so as to present no threat to the health of people and to maintain the structures of the building in good condition.

DISPOSAL OF THE AIR HANDLING UNIT

Do not dispose of electronic devices with household waste. Follow local laws and regulations on safe and ecological disposal of the product.

Ensure that

- the components are separated and sorted according to material types.



NOTE

For further information, go to www.vallox.com



DANGER

The electrical connection must be fully isolated from the mains power supply until final assembly!

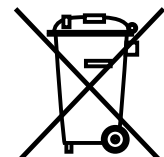


WARNING

The unit is not intended to be used by children under the age of 8 or by persons with reduced sensory, physical or mental capabilities, or whose lack of knowledge and experience does not ensure the safe operation of the unit.

Such persons can use the unit under supervision, or by following the instructions of someone who is responsible for their safety.

Children must be supervised and not be allowed to play with the device.



SAFETY SIGNS USED IN THE INSTRUCTIONS

**DANGER**

Indicates a hazard that will result in death or serious injury if not avoided.

**WARNING**

Indicates a hazard that can result in death or serious injury if not avoided.

**CAUTION**

Indicates a hazard that can result in minor or moderate injury if not avoided.

**IMPORTANT**

Indicates a hazard that can result in damage to property or a loss of data if not avoided.

**NOTE**

Indicates essential information about the product.

**TIP**

Provides additional information about the use of the product and its benefits.

REGULATIONS - GUIDELINES

If the product is installed correctly and used in accordance with its intended purpose, it conforms to all applicable provisions and CE guidelines that were valid at the time of its manufacture. Vallox Pureo TX air handling units are compliant with the applicable ErP Directive 2018 (Ecodesign Directive).

FIELD OF APPLICATION – INTENDED USE

Vallox Pureo TX air handling units are energy-saving, fully automated, low-noise and ready-to-operate ventilation units with heat recovery. Vallox Pureo TX is available in four different models that meet the volume flow rate requirement of up to 1800 dm³/s. There is an ePM₁ 60% class filter on the outdoor air side and an ePM₁₀ 60% class filter on the extract air side as standard.

Vallox Pureo TX units are equipped with highly energy efficient, low-noise, and power-saving fans. Fans that are equipped with EC motors can be operated by using three fixed speeds, or alternatively by using the integrated smart controller with the help of air quality sensors. Vallox Pureo TX units are equipped with cross counterflow heat exchangers, in which the heat contained in the extract air is recovered before the air is blown outdoors through the plates. The process is completed so that the air flows remain separate. Depending on the operating conditions, more than 80% of the heat contained in the extract air is recovered before the air is blown outdoors.

Supply air is transmitted to the primary areas (where supply air is needed) via the duct system. Used air is extracted from the secondary areas (such as social facilities, toilets, and showers). It flows through the duct network back to the ventilation unit, where heat is recovered before the air is discharged outdoors through the exhaust air duct.

Vallox Pureo TX units are only intended for the handling of air and for performing the following tasks:

- Filtering normally polluted air
- Heating and/or cooling of the air (with accessories)
- Heat recovery
- A combination of the above functions

The intended use also includes the observance of the operating manual, the manufacturer's instructions for individual components, and the inspection and maintenance intervals stipulated by Vallox.

Vallox Pureo TX units with the standard equipment are designed to be installed and used in frost-free premises (room temperature > 0°C). The availability of a frost-free condensate outlet must be ensured on site. The corrosion resistance class of the housing is C4 in accordance with ISO 12944. The unit can be used under these conditions.

Application limits:

- Ambient temperature 0-50°C
- Humidity (max.) 95% RH



IMPORTANT

Material damage due to the unit freezing!

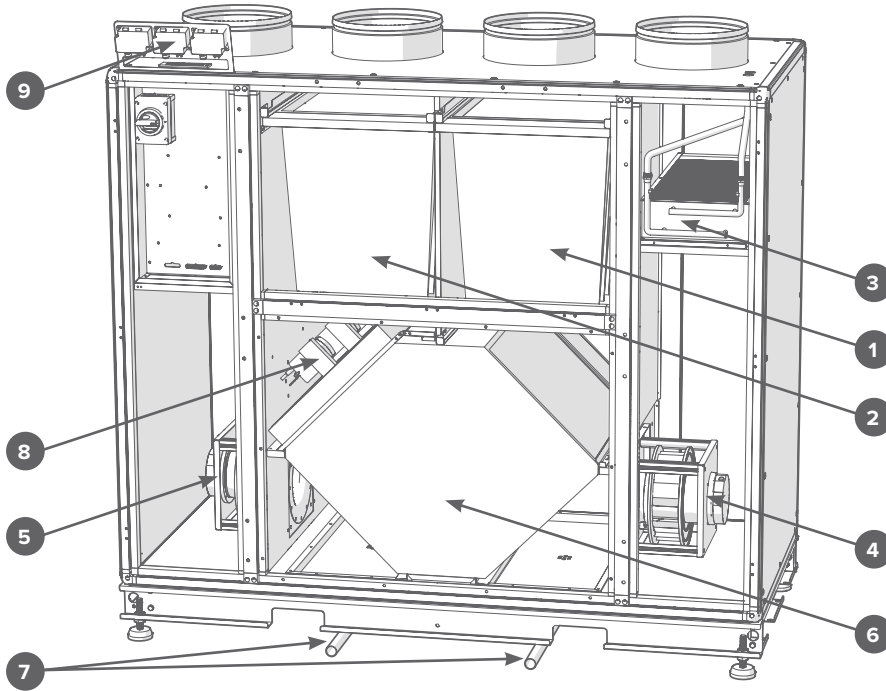


NOTE

Any use other than the intended use is prohibited!

MAIN PARTS

Vallox Pureo TX 500/900



Extract air filter

1



Supply air filter

2



Postheater (liquid)

3



Supply air fan

4



Exhaust air fan

5



Counter flow heat exchanger

6



Condensation Outlet Pipe

7



Bypass damper

8

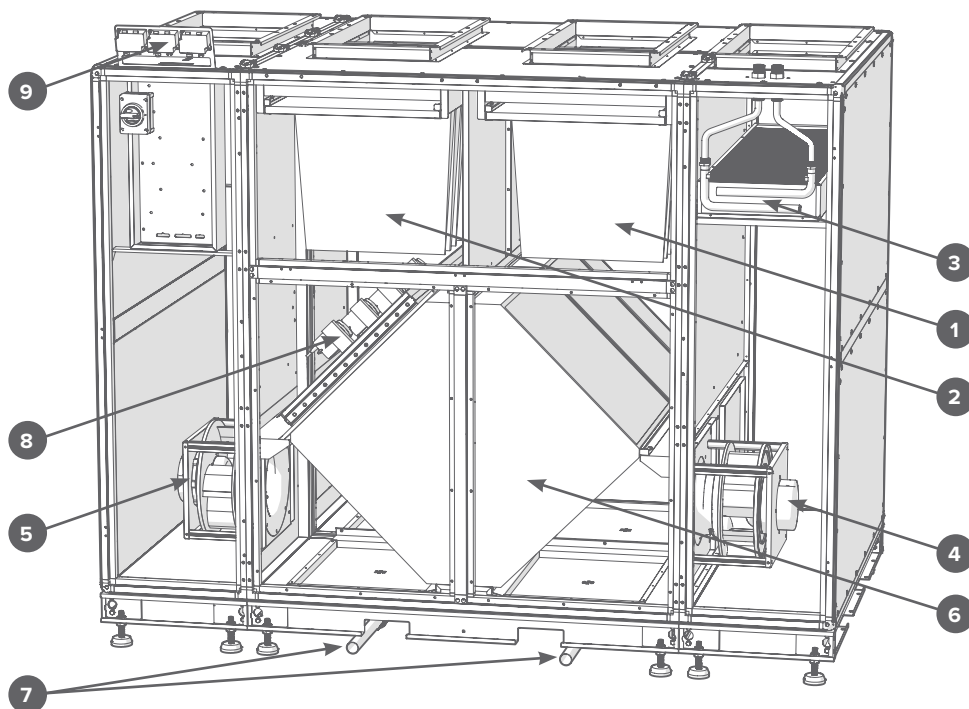











Pressure transmitter

9

MAIN PARTS

Vallox Pureo TX 1300/1800



- | | | | | | |
|-------------------------------------------------------------------------------------|---------------------|---------|-------------------------------------------------------------------------------------|-----------------------------|---------|
|  | Extract air filter | 1 |  | Counter flow heat exchanger | 6 |
|  | Supply air filter | 2 |  | Condensation Outlet Pipe | 7 |
|  | Postheater (liquid) | 3 |  | Bypass damper | 8 |
|  | Supply air fan | 4 |  | Pressure transmitter | 9 |
|  | Exhaust air fan | 5 | | | |

CONTENTS OF THE DELIVERY

The delivery contains one of the following unit types:

- Vallox Pureo TX 500
- Vallox Pureo TX 900
- Vallox Pureo TX 1300
- Vallox Pureo TX 1800



NOTE

Check the delivery immediately on receipt for accuracy and damage. If damaged, notify the carrier immediately. In case of delayed notification, any claims may be void.

The scope of the delivery also includes:

SCOPE OF DELIVERY								
	M6x20 screw DPT mounting	M8x30 screw Module assembly	M10x25 screw Base frame connection	DPT mounting sheet metal	Condensate drain pipe (set)	Main switch with screws	Door handle	U type manometer
Vallox Pureo TX 500	2			1	2	1	16	2
Vallox Pureo TX 900	2			1	2	1	16	2
Vallox Pureo TX 1300	2	24	8	1	2	1	18	2
Vallox Pureo TX 1800	2	24	8	1	2	1	18	2

The condensate outlets, door handles, and mounting brackets that are included in the scope of the delivery are located inside the unit.

PACKAGE DIMENSIONS AND WEIGHTS

The dimensions and weight of each unit type are shown in the following table. Vallox Pureo TX 1300 and 1800 units are delivered in three parts.



IMPORTANT

Before offloading the units, ensure that the means of transport and lifting have sufficient capacity for the required weight.

PACKAGE DIMENSIONS AND WEIGHTS							
	No. of packages	Package 1 dimensions (mm) (w x h x d)	Package 1 weight (kg)	Package 2 dimensions (mm) (w x h x d)	Package 2 weight (kg)	Package 3 dimensions (mm) (w x h x d)	Package 3 weight (kg)
Vallox Pureo TX 500	1	1993 x 1992 x 960	403	-	-	-	-
Vallox Pureo TX 900	1	2370 x 2332 x 980	532	-	-	-	-
Vallox Pureo TX 1300	3	654 x 2260 x 1620	221	1612 x 2260 x 1620	488	654 x 2260 x 1620	207
Vallox Pureo TX 1800	3	654 x 2260 x 1880	240	1612 x 2260 x 1880	510	654 x 2260 x 1880	228

STORAGE

When the unit is stored for a prolonged time, the following steps need to be taken to avoid damage: Protection by dry, airtight, and dust-proof packaging (a plastic bag with desiccant and humidity indicators). The storage place must be waterproof, vibration-free, and have an even temperature (ambient temperature limit: min. 0°C /max. +40°C). Damage due to improper transportation, storage, or setup must be verified and is not covered by the warranty.

TRANSPORTATION AND HAULING

Transportation must be carried out carefully. It is recommended to leave the unit in the original packaging until installation to avoid possible damage and contamination. Transportation and hauling must be carried out by trained and experienced personnel and the necessary safety precautions should be taken to prevent the overturning and slipping of the unit.

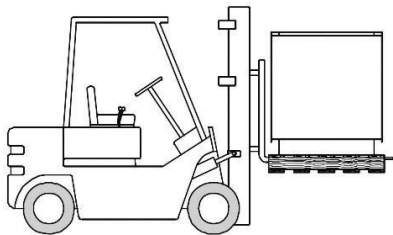
Due to the high centre of gravity, the unit can tip over and cause personal injury and material damage. When transporting the unit, carefully observe its behaviour and stay clear of any possible hazardous areas.

The unit can be hauled using a forklift, a pallet truck, or a crane. It should be ensured that the weight is evenly distributed when hauling the unit.



DANGER

Personal injury and/or material damage due to the unit tipping over!

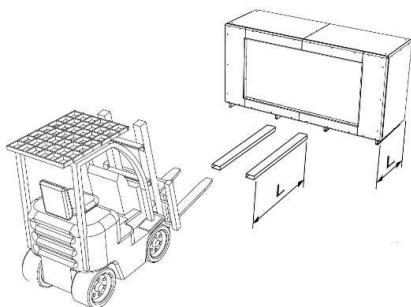


Before hauling the unit, ensure that the forks of the forklift are long enough to lift more than the entire underside of the unit. Lift the unit slowly.



DANGER

Personal injury and/or material damage due to the unit falling from the forklift!



DANGER

Personal injury and/or material damage due to incorrect transportation and hauling!

It must be ensured that the means of transport and lifting meet the capacity requirements related to weight and size. Make sure that the unit is firmly seated before lifting it.



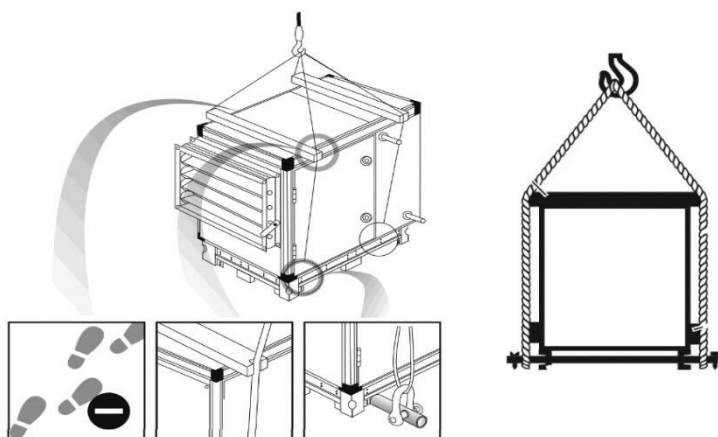
DANGER

Danger due to overhead loads!

The lifting gear, units, cables, or the tackle could be faulty or damaged. Never stand beneath suspended loads.

If the unit is transported with a crane, the holes in the base frame designed for transportation must be used.

1. Lead the transportation rods through the holes in the base frame.
2. Secure the transportation rods with screws.
3. Lead a chain or rope to the end of the transportation rods.
4. Spacers are used to prevent damage that could be caused to the unit by chains or ropes.



DANGER
Danger due to overhead loads!

The lifting gear, units, cables, or the tackle could be faulty or damaged. Never stand beneath suspended loads.

DISASSEMBLY AND RE-ASSEMBLY

The disassembly and re-assembly of the unit are not part of routine maintenance. The disassembly and re-assembly of the unit may only be carried out by a qualified specialist. Ensure that the unit is voltage-free and isolated from the mains power supply before disassembly or re-assembly! Earth and short circuit the unit. Shield neighbouring live components.



WARNING

Risk of personal injury and material damage! An electric shock can result in death or serious injury.

The following must be taken into account when installing heating and cooling coils:

- Close all hydraulic stop valves.
- Isolate all connections and ensure that the unit is leak-free with regard to oil and refrigerants.
- Since the diameter of the heating and cooling pipes is small, water may remain in the coil after emptying. For safety reasons, compressed air should be blown through the system to remove any remaining water.



IMPORTANT

Risk of material damage when installing the heating and cooling coils!

MECHANICAL ASSEMBLY

The installation and connection of the unit may only be carried out by qualified specialists. Electrical connections must be carried out by a person who has proper professional training and experience in the relevant accident prevention regulations, as well as other generally recognised safety and occupational health codes, and is authorised to perform work on the unit.



DANGER

Danger to life due to electric shock!

The Vallox Pureo TX air handling unit must be installed in the upright position. Due to noise levels, which vary depending on system pressure, it is recommended that the unit be installed in the utility room or a storage room. It must be ensured that there is a wastewater connection in the installation area. See the condensate outlet (pages 16-17).

The assembly should be implemented in a way that enables the shortest possible ventilation ducts and a trouble-free connection to the unit. Tight bends result in increased pressure losses and flow noises. The unit can be turned by 180° for optimal installation.

Ensure that the unit is positioned on an even surface before starting the installation work.

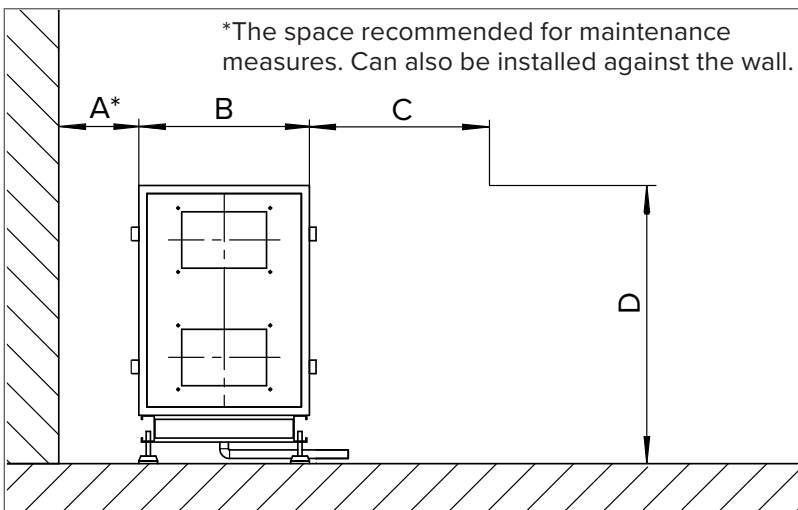
Assembly area

Ensure that there is sufficient space for maintenance when installing the unit.

- A Minimum distance to the wall
- B Width of the unit
- C Minimum distance for opening the service door
- D Height of the unit

ASSEMBLY DIMENSIONS

	Dimensions (mm)			
	A*	B	C	D
Vallox Pureo TX 500	665	870	870	1662
Vallox Pureo TX 900	795	890	890	1982
Vallox Pureo TX 1300	815	1520	1520	2030
Vallox Pureo TX 1800	815	1720	1720	2030



IMPORTANT

The ventilation ducts must not become twisted.

The connections to the connectors must be firm and tight.

The flange connections must be leakproof and firm.

If necessary, anti-vibration mounts can be used on site between the base of the unit and the floor.

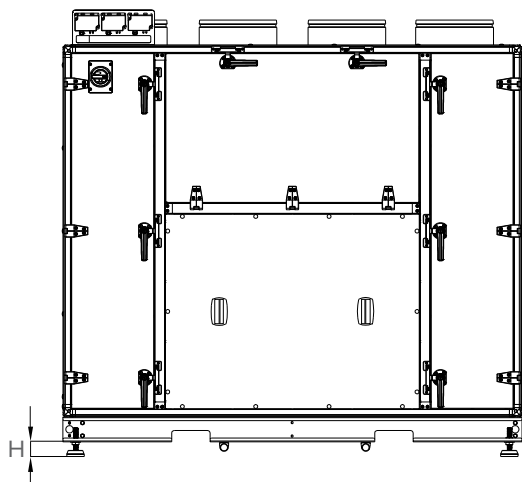


NOTE

It can be easier to install accessories prior to the final positioning and installation of the unit, as both sides of the unit can then be accessed.

LEVELLING THE UNIT

Vallox Pureo TX units have adjustable levelling feet. It must be ensured that the unit is standing on an even floor surface prior to installation work. The height of the levelling feet must be adjusted to level the unit. The height "H" must not exceed 125 mm.



MOUNTING THE DOOR HANDLES

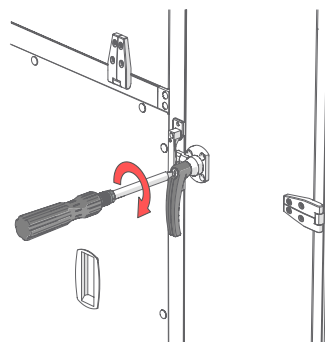
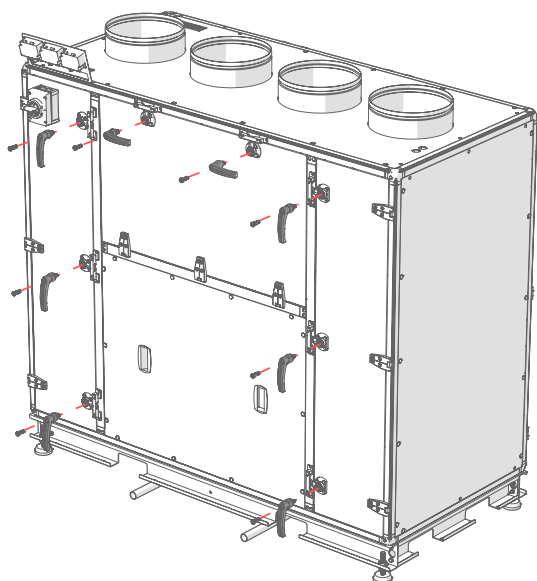
The door handles are individually packed to prevent damage during transportation. The door handles must be installed after the installation and levelling of the unit.

Position the door handles on the selected access side and secure them in place with screws.



IMPORTANT

Do not open the doors before the unit is standing on the ground and has been levelled.



CONDENSATE OUTLET

The humidity contained in the extract air condenses to water during the heating cycle. Large volumes of condensate can build up in new buildings when a large number of people is present. The condensate collected in a stainless steel condensate tray is discharged via two condensate outlets.



IMPORTANT

The drainage pipe must not be routed above the siphon. The condensate must flow out easily. If the automatic discharge of the condensate is not ensured, a suitable condensate pump must be used.

The condensate outlet must be frost-proof!

- Vallox Pureo TX units have two condensate outlets per condensate outlet pipe, one on the left and one on the right side of the unit. Connect the condensate pipe of the corresponding condensate outlet in the service direction.
- Ensure that any unused condensate outlets are plugged.

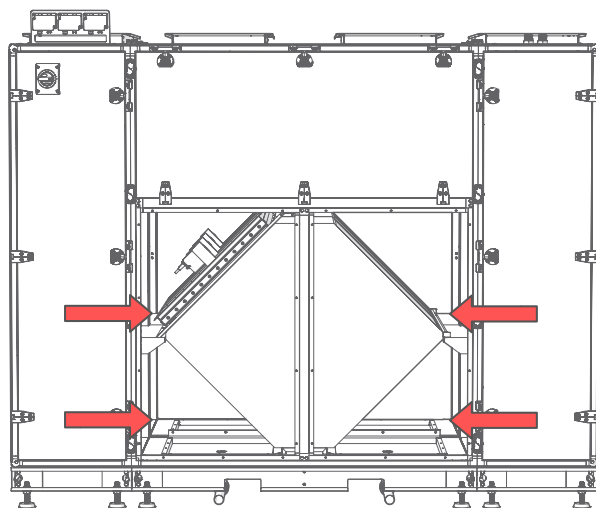
The unit has two condensate outlet pipes: one in the supply air side and one in the exhaust air side. It must be ensured that the condensate outlet pipes are connected separately. The condensate pipes must only be connected to the wastewater system via an odour trap (siphon).

The condensate must flow freely into the wastewater system after the siphon. Existing drainage systems must not be directly connected to the wastewater system.

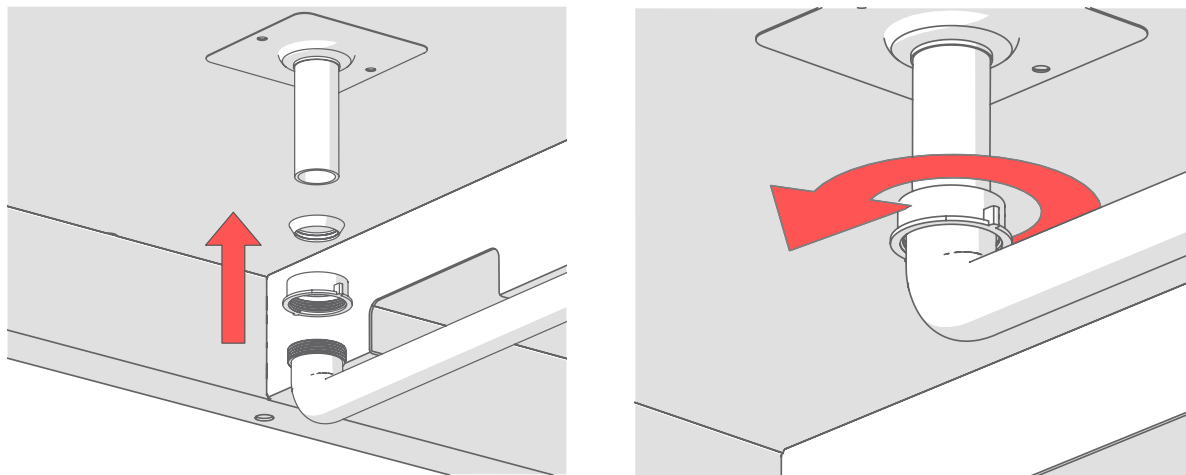


NOTE

A ball siphon is available as an accessory.

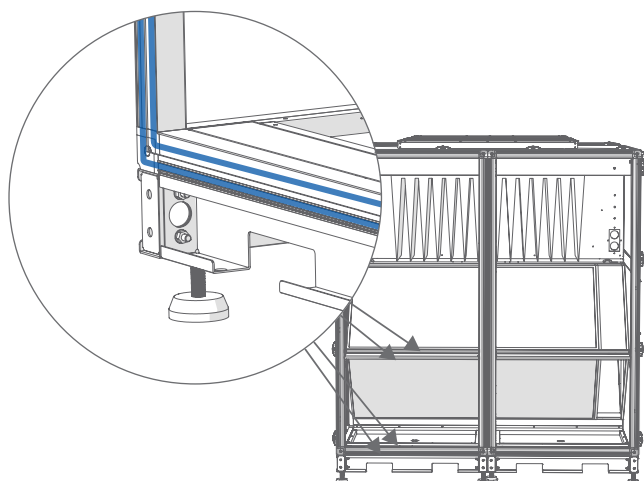


Mount a pipe elbow below the condensate tray. Ensure that the structure is watertight by turning the pipe connector.



MODULE ASSEMBLY VALLOX PUREO TX 1300/1800

Start the assembly by applying a gasket to both surfaces of the heat exchanger modules (Vallox Pureo TX 1300 and 1800).

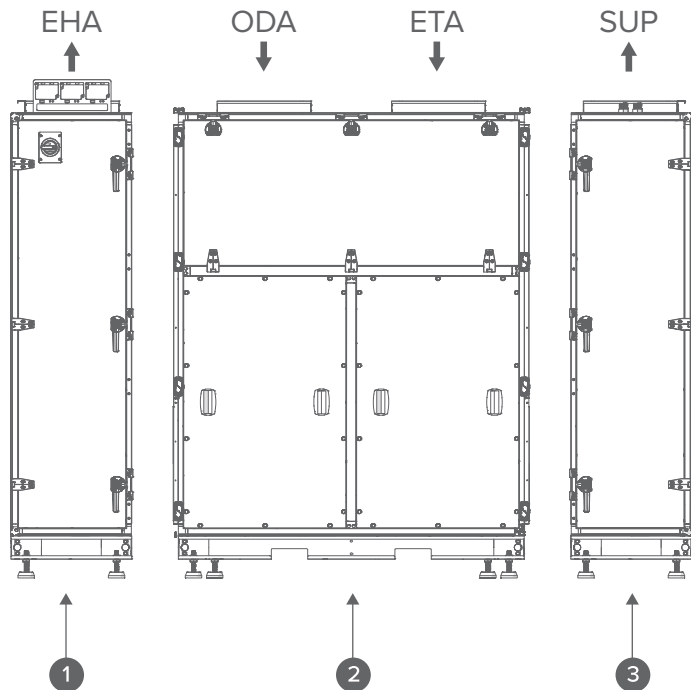


DANGER

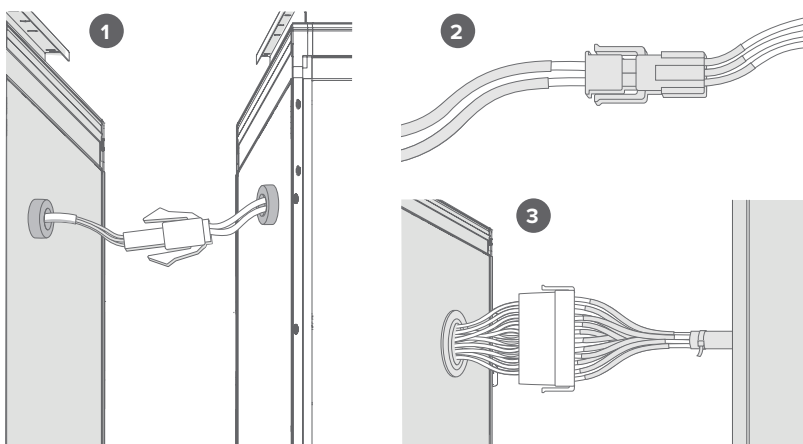
Danger to life due to electric shock!

An electric shock can result in death or serious injury. Ensure that the unit is voltage-free and isolated from the mains power supply. Earth and short circuit the unit. Shield neighbouring live components.

Vallox Pureo TX 1300 and 1800 units are delivered in three modules. Each module must be shipped separately.



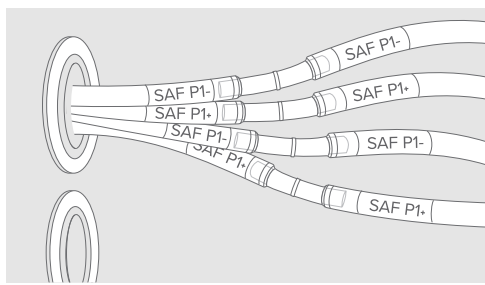
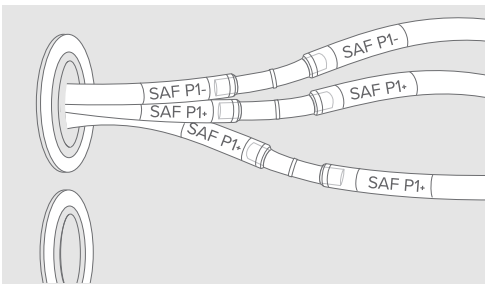
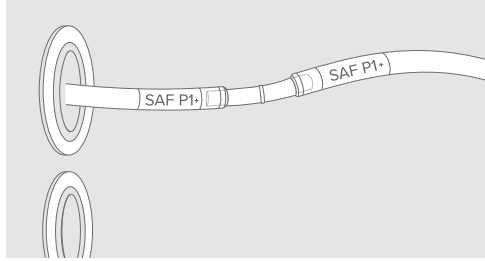
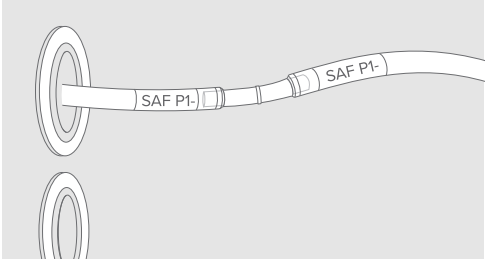
Prior to the assembly of the modules in their final location, they must be positioned as close to each other as possible. Only the respective base frame must be used to pull the modules together.



Ensure that all electrical connections have been made properly:

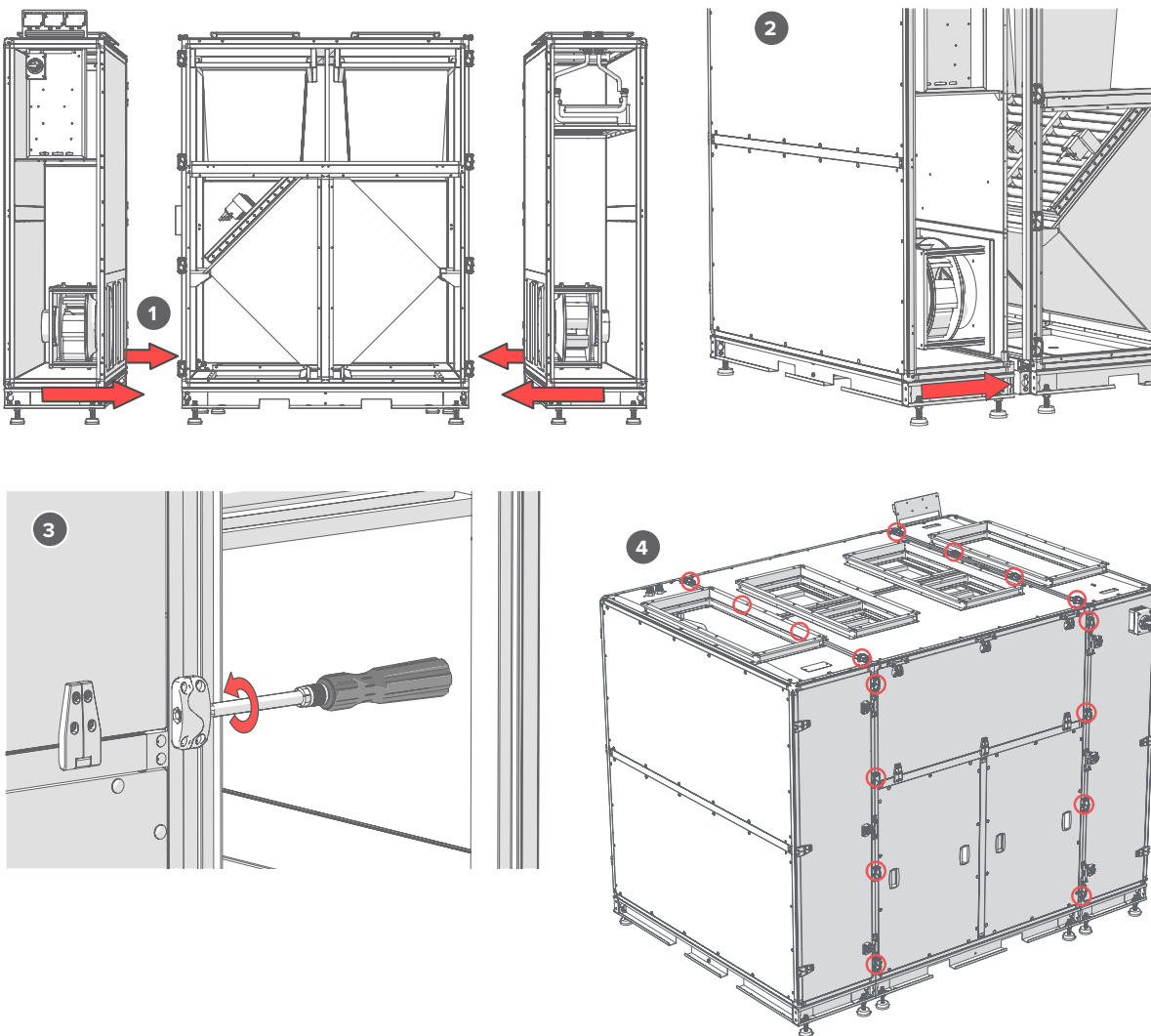
1. ODA and ETA temperature sensor socket
2. Damper motor connections
3. The main supply power socket

Ensure that all air pressure hoses have been connected correctly as indicated in the labels.



Prior to the assembly of the modules in the final position, they must be positioned as close together as possible. Only the corresponding base frame may be used to pull the modules together. Pull the modules close together and tighten with screws.

1. Move the modules as close together as possible.
2. Only push them from the base frame.
3. Press the modules together.
4. Ensure that all parts of the modular assembly are in contact with each other. Fasten in place with screws.

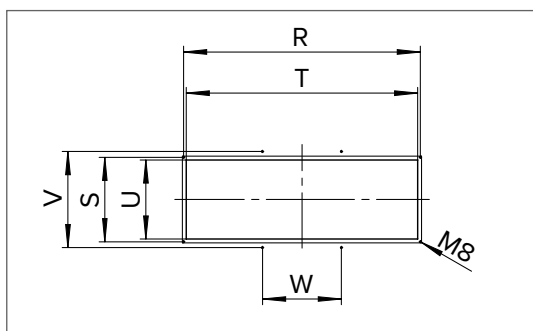


Flange connection and adapters

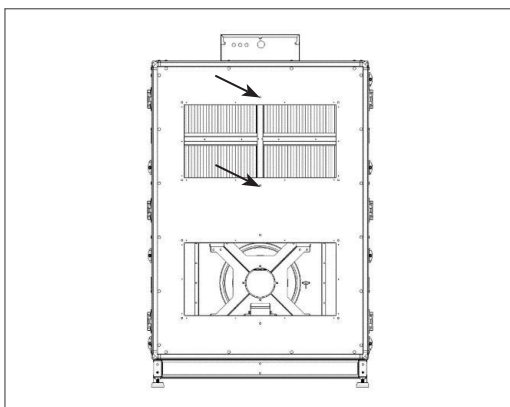
The dimensions for the flange connections of the unit can be found in the following table.

DIMENSIONS FOR THE UNIT FLANGE CONNECTIONS

	Dimensions (mm)						
	R	S	T	U	V	W	n
Vallox Pureo TX 1300	832	432	804,4	400	422,2	256,3	8
Vallox Pureo TX 1800	1032	432	1004,4	400	422,2	323	8



Fasten the duct, the connecting piece, and the flexible duct connectors at the corners of the unit with M8x16 screws.



NOTE
The ducts must be firmly and tightly connected to the connection valves.



NOTE
After tightening the screws, the accessory must also be fastened by using the mounting brackets.

AIR DUCTS, VENTILATION CIRCUIT

Follow the local regulations on air ducts and fire protection.

ELECTRICAL CONNECTIONS



DANGER

Danger to life due to electric shock!

The unit must be fully isolated from the mains power supply before all maintenance and installation work and before opening the terminal compartment! Electrical connections must be carried out in accordance with the relevant wiring diagram and must only be carried out by a qualified electrician. Electrical connections must be fully isolated from the mains power supply until final assembly!

The unit is equipped with a main switch and an isolator, which is secured against unauthorized switching with a U-lock. The relevant standards, safety regulations, and the technical connection conditions of the local energy supply company must be observed. The unit is connected to the mains electrical supply either directly through the terminal box or through the main switch. The controller of the unit (not included in the standard delivery) is connected to the unit via an accompanying cable. The Vallox Pureo controller is connected with a cable. The maximum controller cable length is 10 m. Based on the applicable standard, the units should be classified as “professional equipment”. The connection to a low voltage supply is permitted in so far as this has been agreed upon with the energy supply company.

NOTE



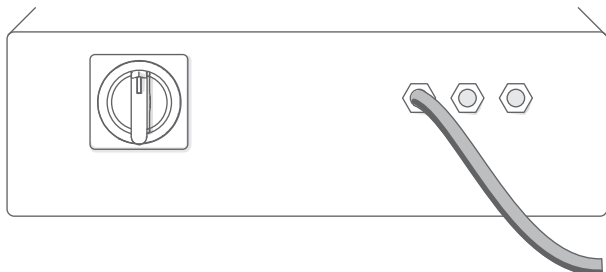
The following circuit breakers are recommended:

CIRCUIT BREAKERS			
	Phase	Type	Circuit breakers (A)
Vallox Pureo TX 500	~1	C	16
Vallox Pureo TX 900	~3	C	16
Vallox Pureo TX 1300	~3	C	16
Vallox Pureo TX 1800	~3	C	16

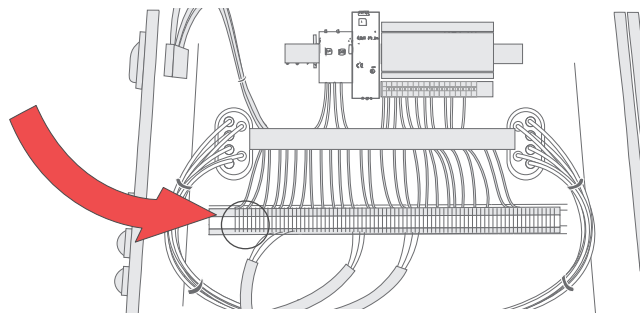
Further information on the power supply connection of accessory components can be found in the installation and operating instructions of the relevant accessory component.

POWER SUPPLY CONNECTION

1. Open the terminal box cover.
2. Check the diameter of the cable to be used for the power connection.

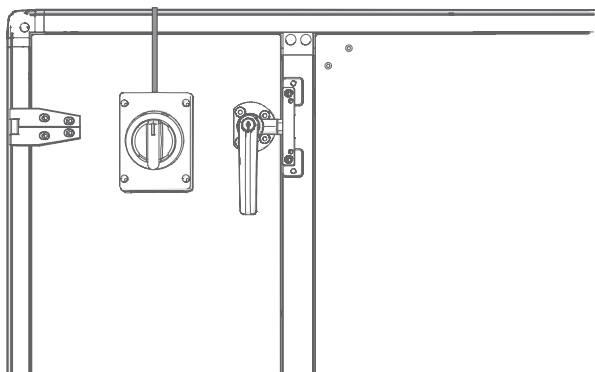


3. Loosen the marked grommet and insert the cables.
4. Connect the cables to the marked terminals.



Vallox Pureo TX 1300 and 1800

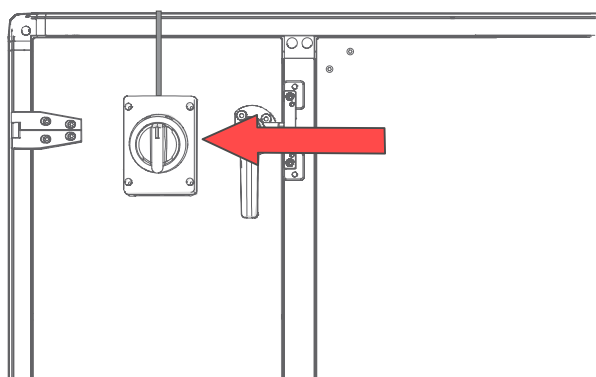
1. See mounting the main switch next page.
2. Check the diameter of the cable that is used for the power supply connection.
3. Insert the cable to the marked main switch.
4. Connect the cables to the terminals. Refer to the wiring diagram for the connections.



MOUNTING THE MAIN SWITCH

The main switch must be mounted as follows:

1. Determine the service side of the unit.
2. Mount the main switch to the panel, which is used to access the unit, with a M4x10 screw.



CONTROLLER CONNECTION

! DANGER
Danger to life due to electric shock!

An electric shock can result in death or serious injury. Ensure that the unit is voltage-free and isolated from the mains power supply. Earth and short circuit the unit. Shield neighbouring live components.

! WARNING
Risk due to electric shock, moving parts (fan), and hot surfaces!

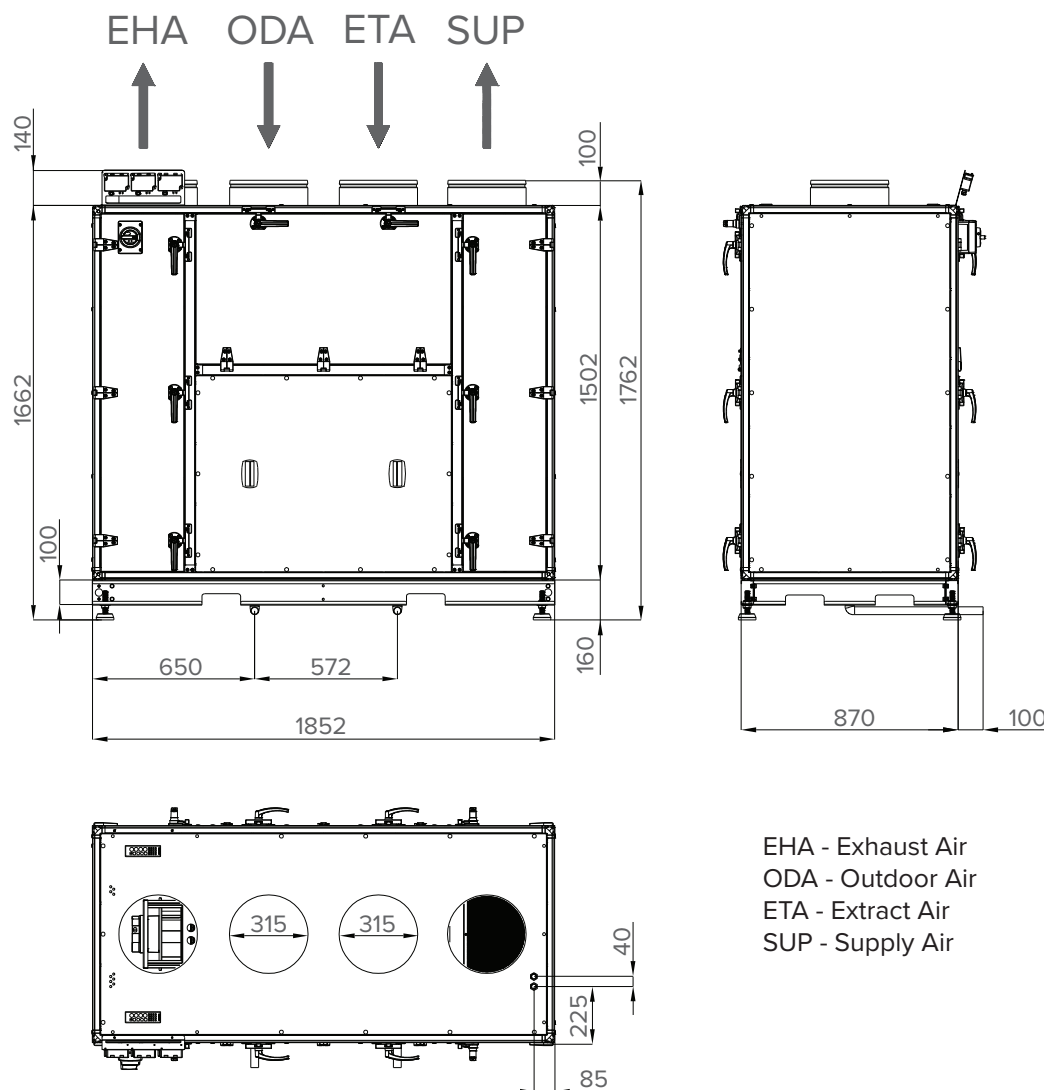
1. Open the terminal box cover.
2. Loosen the marked grommet and insert the cables.



3. Connect the controller cable to the marked terminals in the terminal box (see electrical connections).
4. Connect the other end of the HMI cable to the display (see electrical connections).

DIMENSIONS AND DUCT OUTLETS

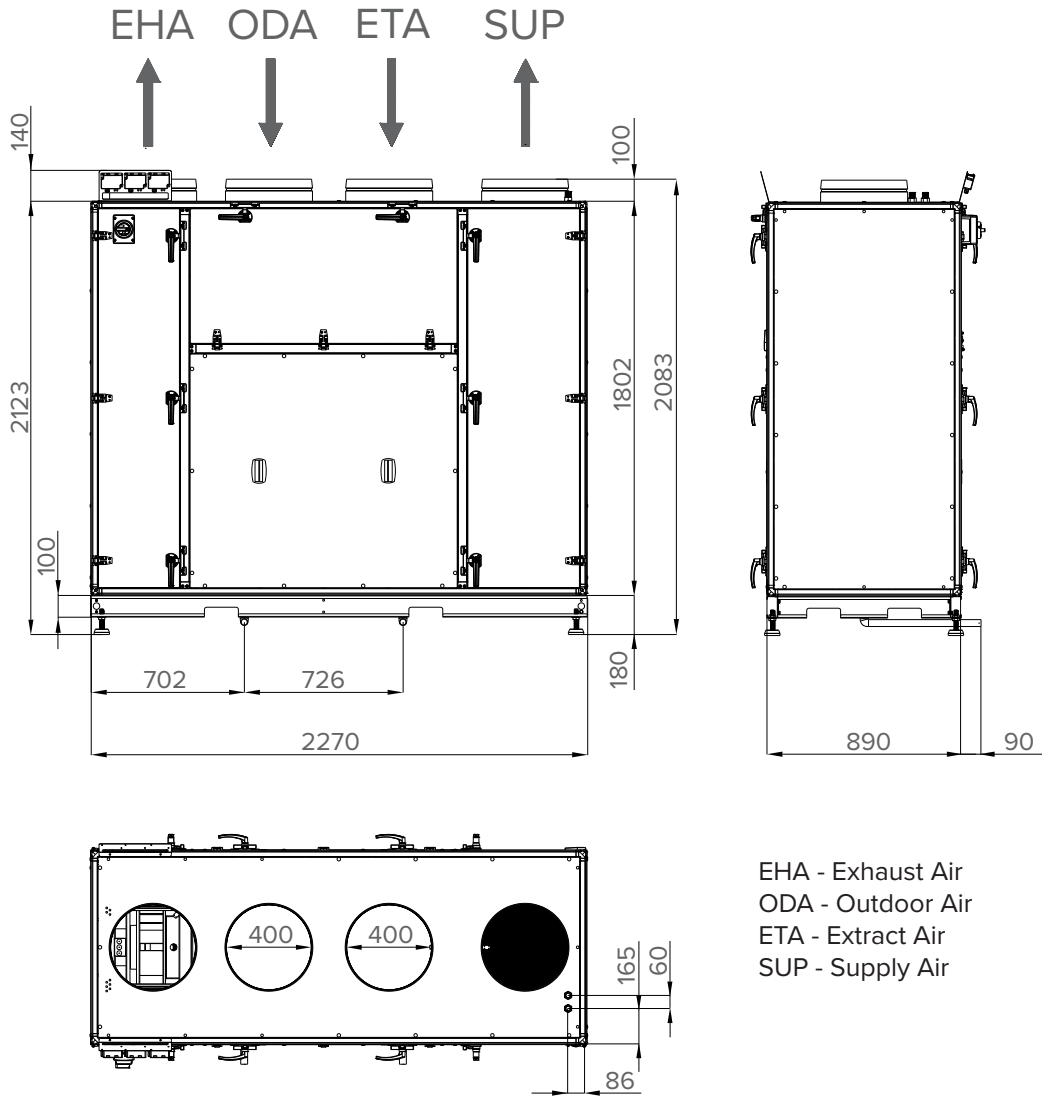
Vallox Pureo TX 500



EHA - Exhaust Air
 ODA - Outdoor Air
 ETA - Extract Air
 SUP - Supply Air

DIMENSIONS AND DUCT OUTLETS

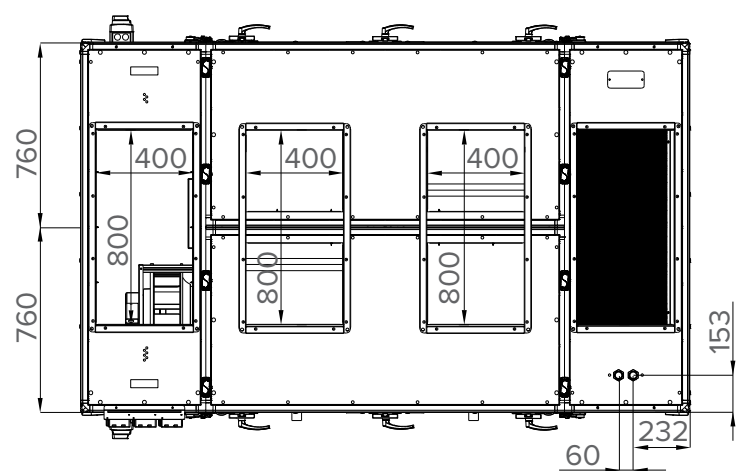
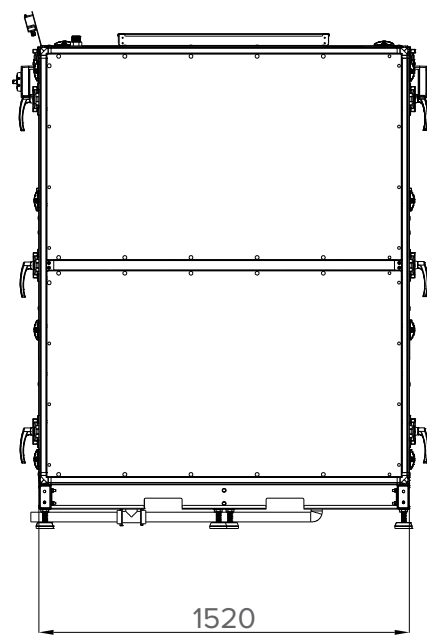
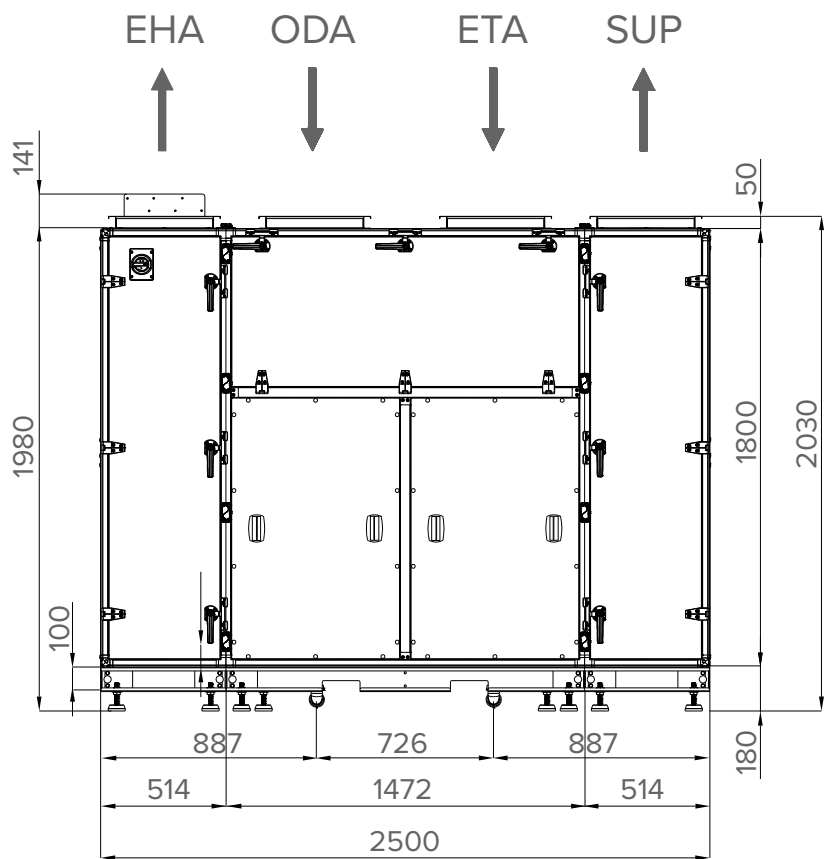
Vallox Pureo TX 900



EHA - Exhaust Air
 ODA - Outdoor Air
 ETA - Extract Air
 SUP - Supply Air

DIMENSIONS AND DUCT OUTLETS

Vallox Pureo TX 1300




EHA - Exhaust Air
 ODA - Outdoor Air
 ETA - Extract Air
 SUP - Supply Air

SERVICE AND MAINTENANCE


The filter change is usually carried out by the user. Additional cleaning and maintenance work may only be carried out by an electrician.

The unit must be fully isolated from the mains power supply before all maintenance and installation work and before opening the service door!

 **DANGER**
Danger to life due to electric shock!

MAINTENANCE PLAN

The unit must be fully isolated from the mains power supply before all maintenance and installation work and before opening the terminal compartment! Electrical connections must be carried out in accordance with the relevant wiring diagram and must only be carried out by a qualified electrician. Electrical connections must be fully isolated from the mains power supply until final assembly!


 **DANGER**
Danger of electric shock, moving parts (fan), and hot surfaces!

The unit must be regularly inspected as regards the subsections of the following maintenance plan:

MAINTENANCE PLAN					
Activity	Measure (if required)	3 months	6 months	12 months	24 months
1. Outside air and exhaust air outlets					
Check for contamination, damage and corrosion	Clean and repair				X
2. Filters					
Check for unacceptable contamination and damage (leaks) and odours	Replace affected filters	X			
3. Air ducts					
Check accessible air duct sections for damage	Repair			X	
Check two or three representative locations on inner air duct surface for contamination, corrosion and condensation	Inspect duct system in other locations, decide on cleaning requirement (not just visible section!)			X	
4. Fan					
Check for contamination, damage and corrosion	Clean and repair		X		
5. Heat exchanger					
Visual inspection of cross counterflow heat exchanger for contamination, damage and corrosion	Clean and repair		X		
Heating coil: Check for contamination, damage, corrosion and seal tightness	Clean and repair, replace	X			
Cooling coil (optional): Check coil, droplet separator and condensate tray for contamination, damage, corrosion and seal tightness	Clean and repair	X			
Check condensation outlet and siphon for functionality	Clean and repair	X			
6. Housing					
Check for unacceptable contamination and damage (leaks) and odours	Clean and repair	X			

SERVICE AND MAINTENANCE OF THE CROSS COUNTERFLOW HEAT EXCHANGER

The unit must be fully isolated from the mains power supply before all maintenance and installation work and before opening the terminal compartment! Danger of electric shock, moving parts (fan), and hot surfaces!

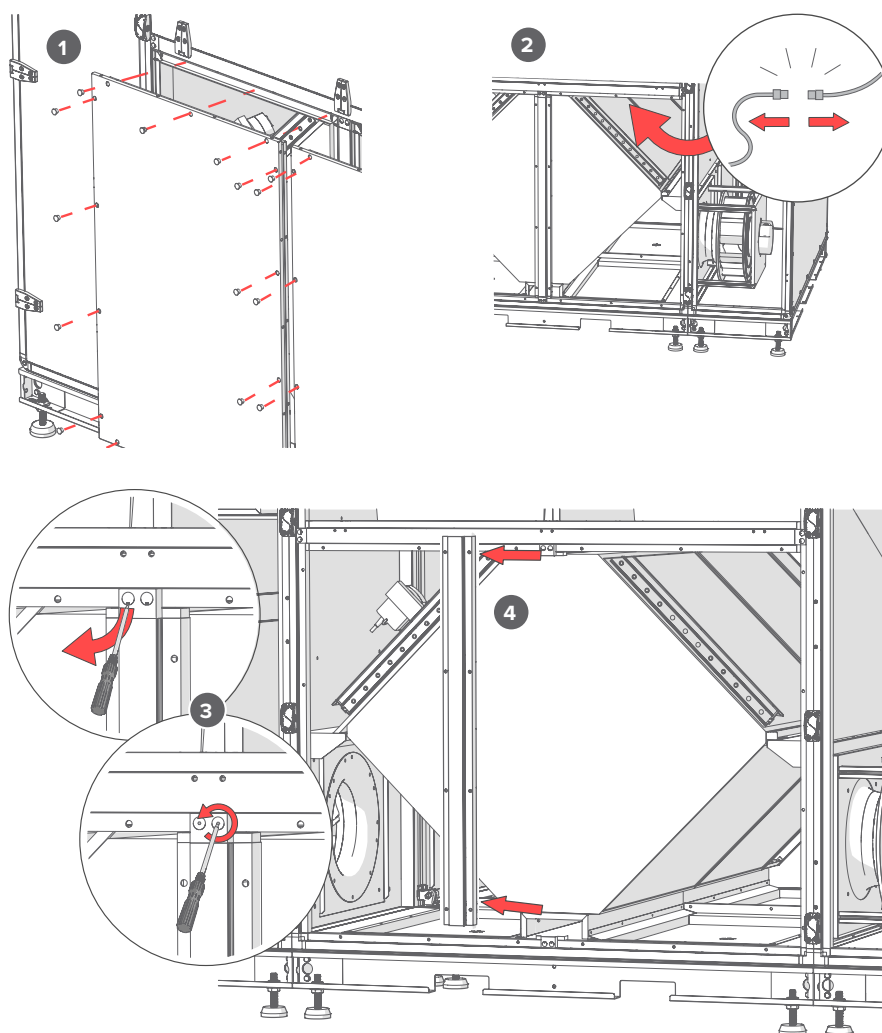
 **DANGER**
Danger to life due to electric shock!



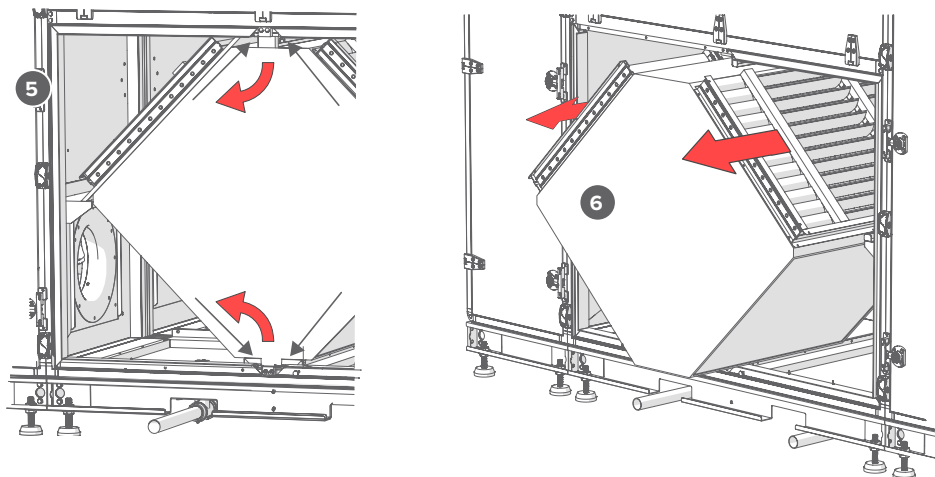
WARNING
Heat exchangers are very heavy and can contain condensate! Maintenance and service work should always be carried out by at least two people!

DISMANTLING

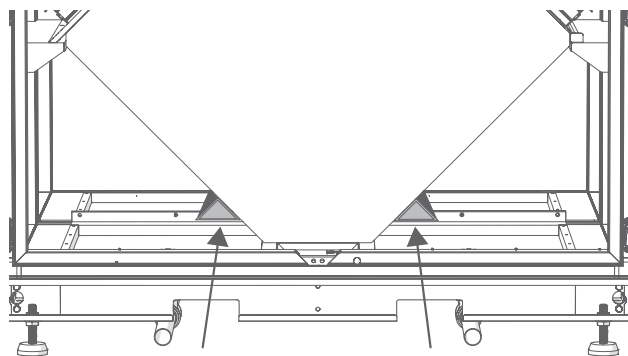
1. Unscrew and remove service panels.
2. Unplug the heat exchanger.
3. The profile must be removed (Vallox Pureo TX 1300/1800) to implement any service measures on the heat exchanger. To do this, remove the covers and undo the screws.
4. Carefully remove the profile.



5. Pull the heat exchanger latches forward and open them.
6. Carefully remove the cross counterflow heat exchanger from the unit and set it down safely.



A forklift can be used to remove the cross counterflow heat exchanger from the Vallox Pureo TX 1300 and 1800 units. Ensure that there is sufficient space for the forklift, so that maintenance work can be carried out on the heat exchanger.



CLEANING

The cross counterflow heat exchanger must be regularly checked for any accumulated dirt and dust. The cross counterflow heat exchanger must also be checked for damage once in every 6 months. If there is dirt or dust on the heat exchanger, these can be removed as follows:

- Aluminium cross counterflow heat exchangers can be cleaned with water (cleaning pressure max. 5 bar).
- The cleaning can be carried out with cold or warm water (up to max. 70°C). Household cleaners may be used.
- Clean the heat exchanger on both sides!
- Do not bend the fins!
- When cleaning, ensure that the heat exchanger is not damaged either mechanically or chemically.



IMPORTANT
Allow the heat exchanger to dry before installation!

FILTER CHANGE

The unit must be fully isolated from the mains power supply before all maintenance and cleaning measures.

The filters must be checked for contamination, damage, and odours once in every three months. If the filters are damp or mouldy, they must be replaced immediately.

The Vallox Pureo TX unit is equipped with an ePM₁ 60% class filter on the outdoor air side and an ePM₁₀ 60% class filter on the extract air side as standard. If another filter is to be used in the unit, the settings of the controller of the unit must be modified.

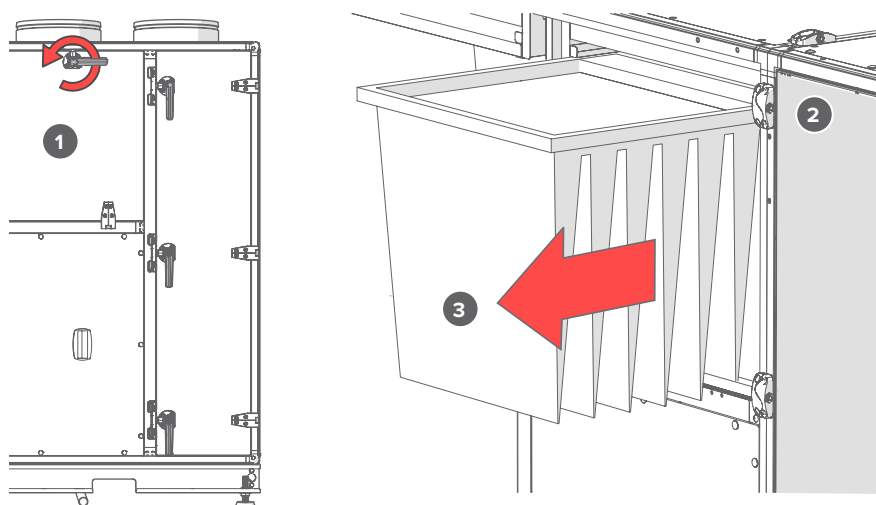


DANGER

Danger to life due to electric shock!

The technical data of the standard filter can be found in the table below:

1. Open the lock and turn the handles counterclockwise to open the doors.
2. Pull the lock to release the filter.
3. Remove the filter.



IMPORTANT

The air flow direction of the filter must be observed!



NOTE

Replacement air filters are also available online at filters.vallox.com

TECHNICAL DATA FOR STANDARD FILTERS

	Filters	Nominal air volume flow (dm ³ /s)	Number of filters	Filter class	Dimensions (mm) (l x h x w)	Recommended final pressure differential (Pa)
Vallox Pureo TX 500	Extract air	500	1	ePM ₁₀ 60 %	490 x 592 x 535	120
Vallox Pureo TX 500	Outside air	500	1	ePM ₁₀ 60 %	490 x 592 x 535	174
Vallox Pureo TX 900	Extract air	900	1	ePM ₁₀ 60 %	592 x 592 x 535	120
Vallox Pureo TX 900	Outside air	900	1	ePM ₁₀ 60 %	592 x 592 x 535	174
Vallox Pureo TX 1300	Extract air	1300	1	ePM ₁₀ 60 %	592 x 592 x 535	120
Vallox Pureo TX 1300	Extract air	1300	1	ePM ₁₀ 60 %	287 x 592 x 535	120
Vallox Pureo TX 1300	Outside air	1300	1	ePM ₁₀ 60 %	592 x 592 x 535	174
Vallox Pureo TX 1300	Outside air	1300	1	ePM ₁₀ 60 %	287 x 592 x 535	174
Vallox Pureo TX 1800	Extract air	1800	2	ePM ₁₀ 60 %	592 x 592 x 535	120
Vallox Pureo TX 1800	Outside air	1800	2	ePM ₁₀ 60 %	287 x 592 x 535	174

SERVICE AND MAINTENANCE OF THE FANS

The unit must be fully isolated from the mains power supply before all maintenance and cleaning measures. Risk of injury due to electric shock, moving parts (fan), and hot surfaces.



WARNING

Danger to life due to electric shock!

Be careful during service and maintenance work, because the fans are very heavy. The fans must be checked for contamination, damage, and corrosion once in every 6 months or even more frequently depending on the degree of impeller contamination:

- Regular inspection with periodic cleaning, if required, is necessary to prevent an imbalance caused by contamination.
- Clean the fan housing.
- Vibration and oscillation-free operation must be ensured.
- Clean the fan with a damp cloth. Do not use aggressive agents that could damage the paint. High-pressure cleaners and jet water are not permitted.
- If water enters the motor: dry off the motor winding before using it again.



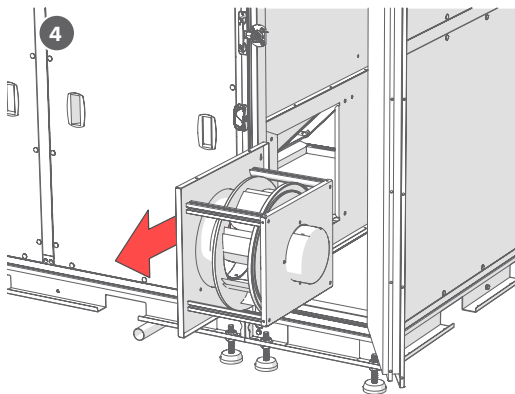
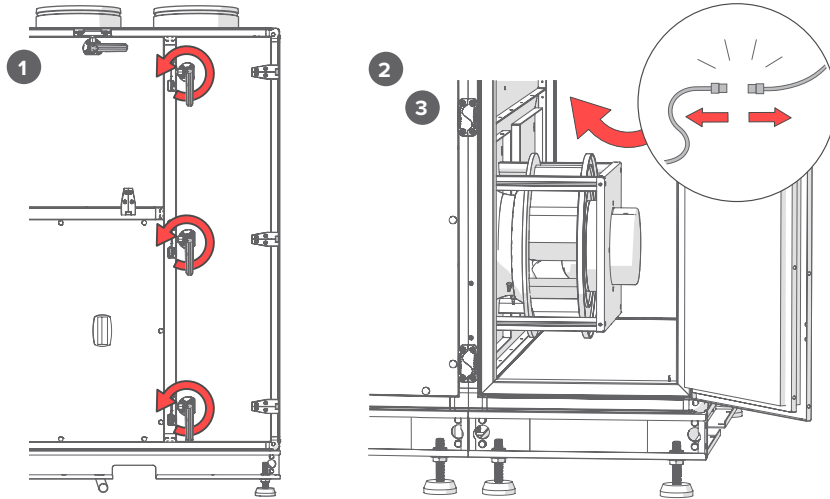
WARNING

Risk of injury due to high unit weight!

K FACTORS

Vallox Pureo TX 500	60
Vallox Pureo TX 900	121
Vallox Pureo TX 1300	154
Vallox Pureo TX 1800	197

1. Open the lock and turn the handles counterclockwise to open the doors.
2. Remove the fan connector.
3. Remove the pressure hoses of the fan.
4. Remove the fan slowly and carefully.



NOTE
Pay attention to electrical connections and the correct connection of the pressure hoses when installing the fan!

CLEANING THE CONDENSATE TRAY

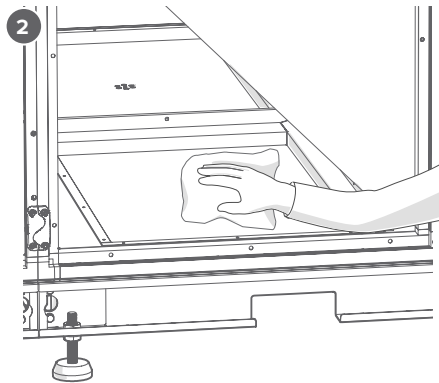
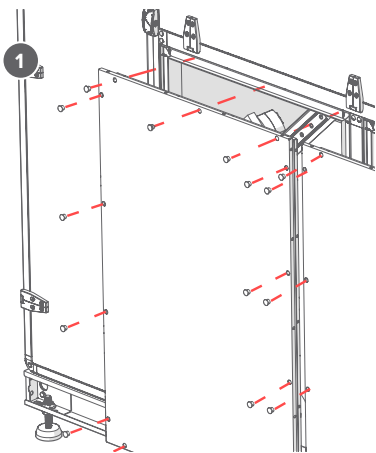
The unit must be fully isolated from the mains power supply before all maintenance and cleaning measures. Risk of injury due to electric shock, moving parts (fan), and hot surfaces. If a condensate pump is installed, disconnect the condensate pump connections before removing the service door. The condensate tray must be checked for contamination and damage once in every 6 months.



DANGER

Danger to life due to electric shock!

1. Unscrew and remove the service panels.
2. Clean the condensate tray with a cloth.



CLEANING THE HOUSING

The unit must be fully isolated from the mains power supply before all maintenance and cleaning measures. Risk of injury due to electric shock, moving parts (fan), and hot surfaces.

- The housing must be checked for dirt, damage, and corrosion once in every 12 months.
- Clean the housing with a damp cloth.



DANGER

Danger to life due to electric shock!

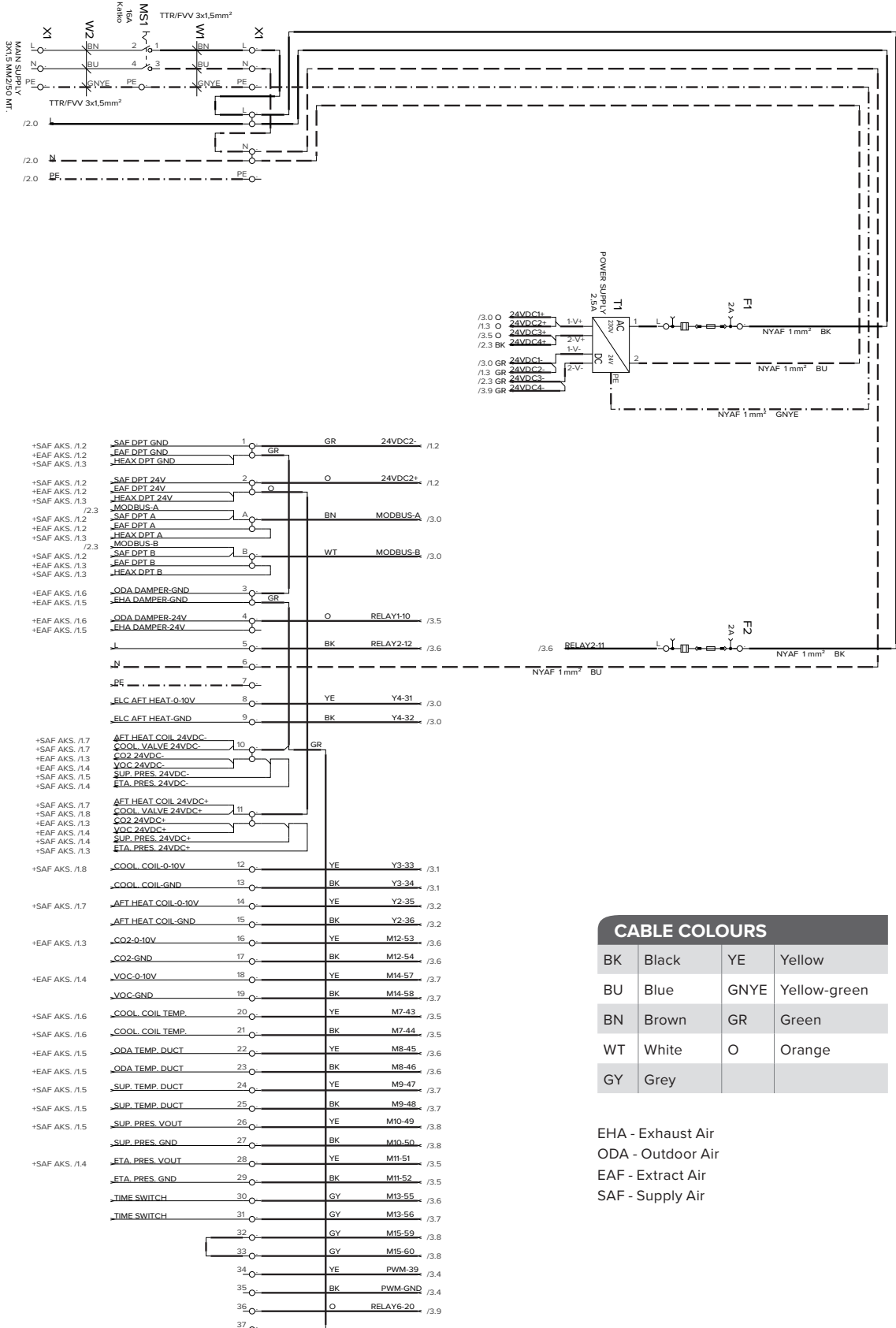
PERFORMANCE DATA AND TECHNICAL DATA

Detailed dimensioning values and technical data can be found in the product selection tool. Available online at valloxselect.com.

Mechanical connections must be made correctly to achieve the maximum unit efficiency. The thermal efficiency, sound level, and electrical performance of the unit may vary depending on the environmental conditions under which the unit is operated. These conditions can influence the measurement result on site and differ from the data provided in the selection software.

ELECTRICAL CONNECTIONS (TERMINAL BLOCK)

Vallox Pureo TX 500



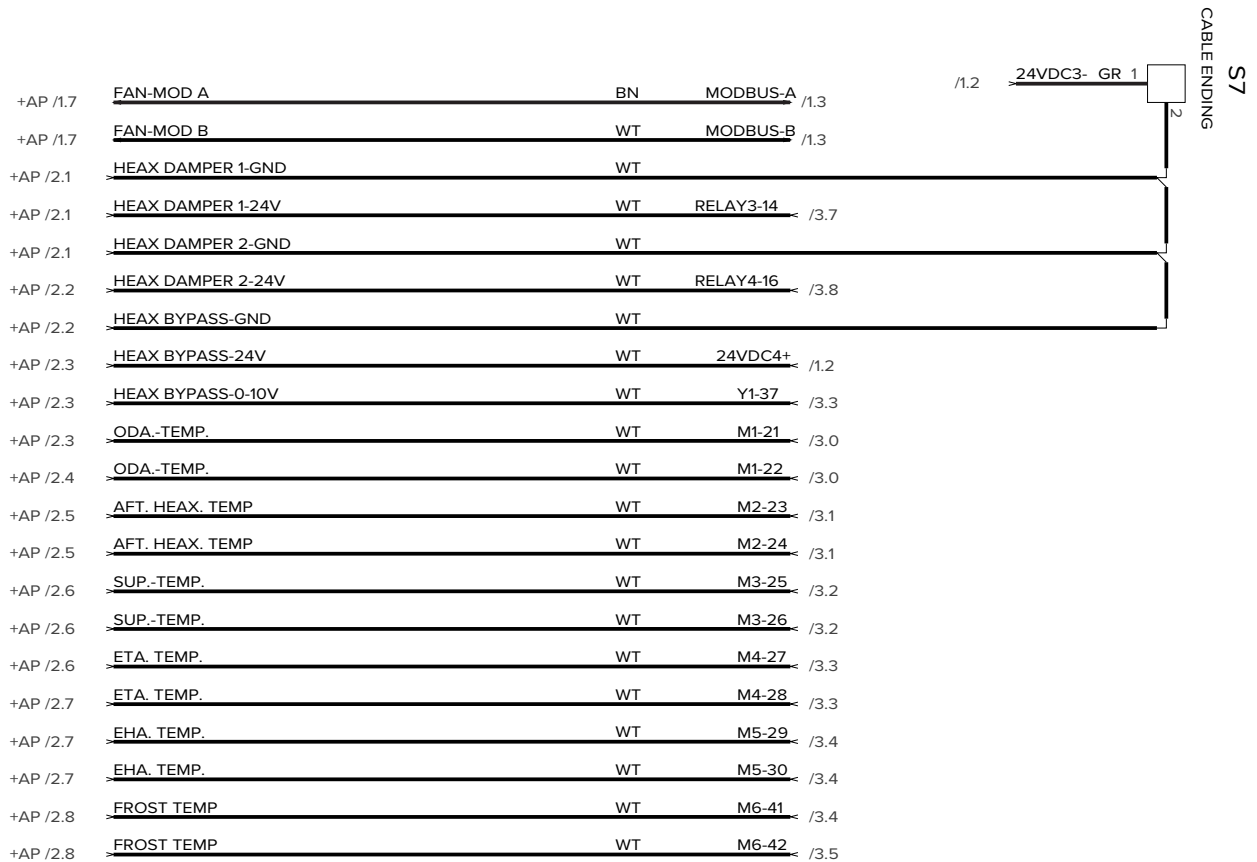
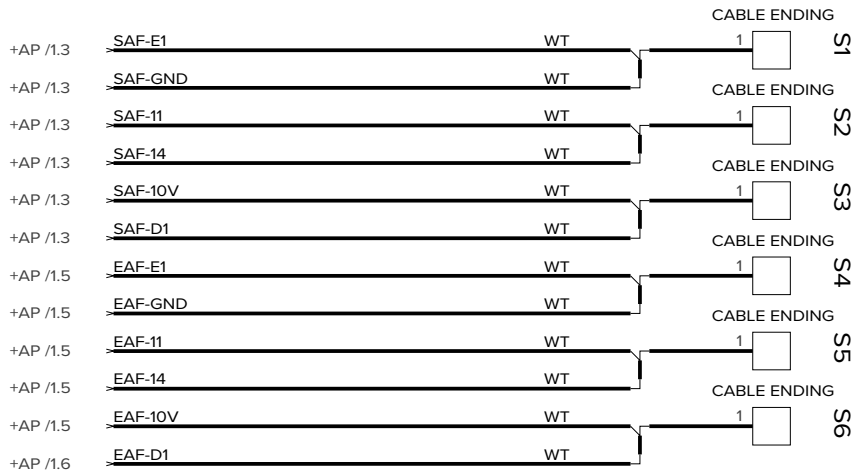
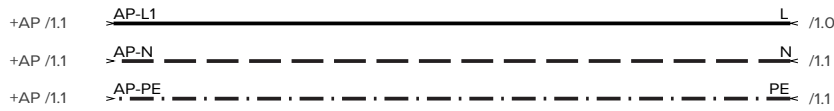
CABLE COLOURS

BK	Black	YE	Yellow
BU	Blue	GNYE	Yellow-green
BN	Brown	GR	Green
WT	White	O	Orange
GY	Grey		

EHA - Exhaust Air
ODA - Outdoor Air
EAF - Extract Air
SAF - Supply Air

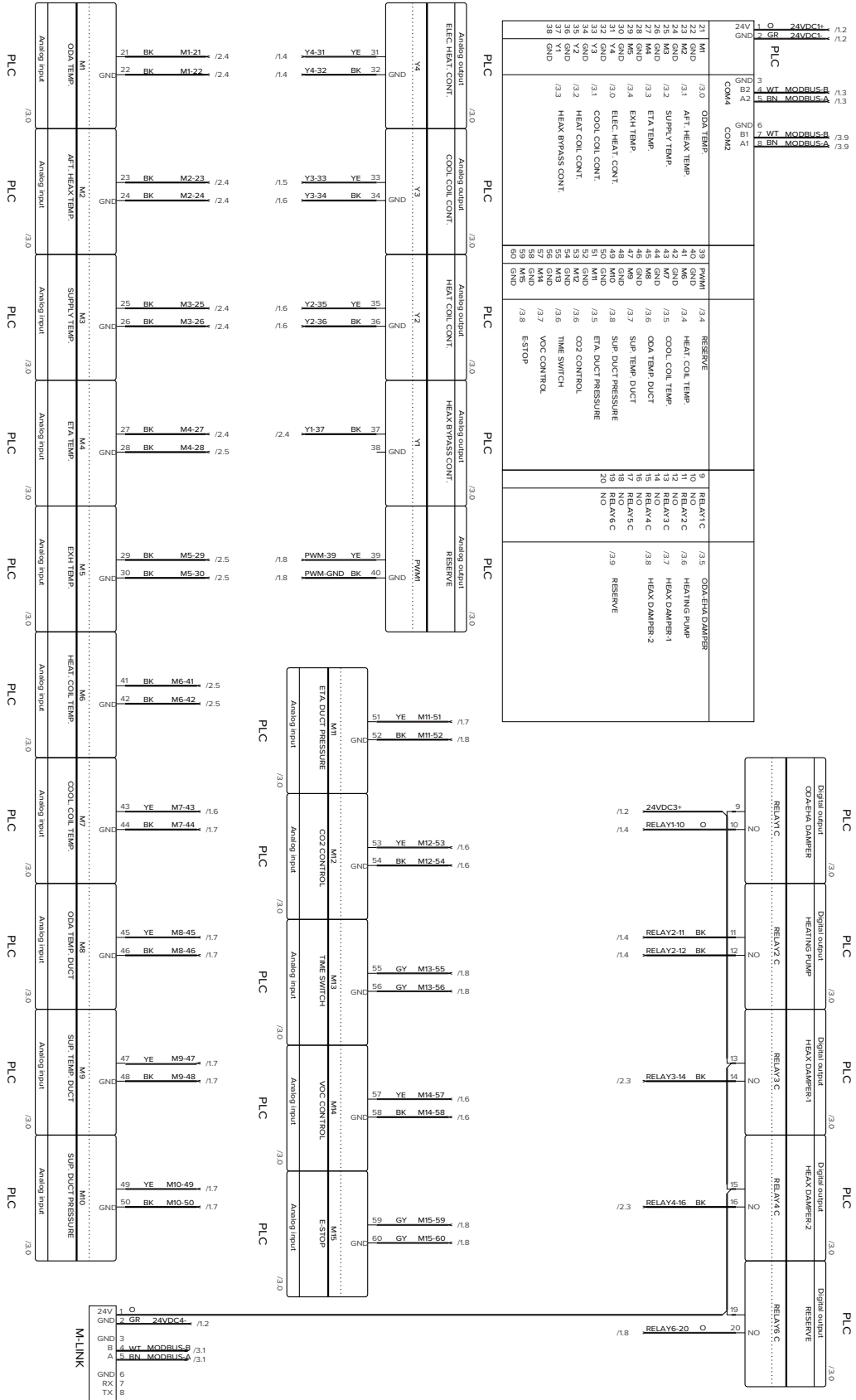
ELECTRICAL CONNECTIONS (TERMINAL BLOCK)

Vallox Pureo TX 500



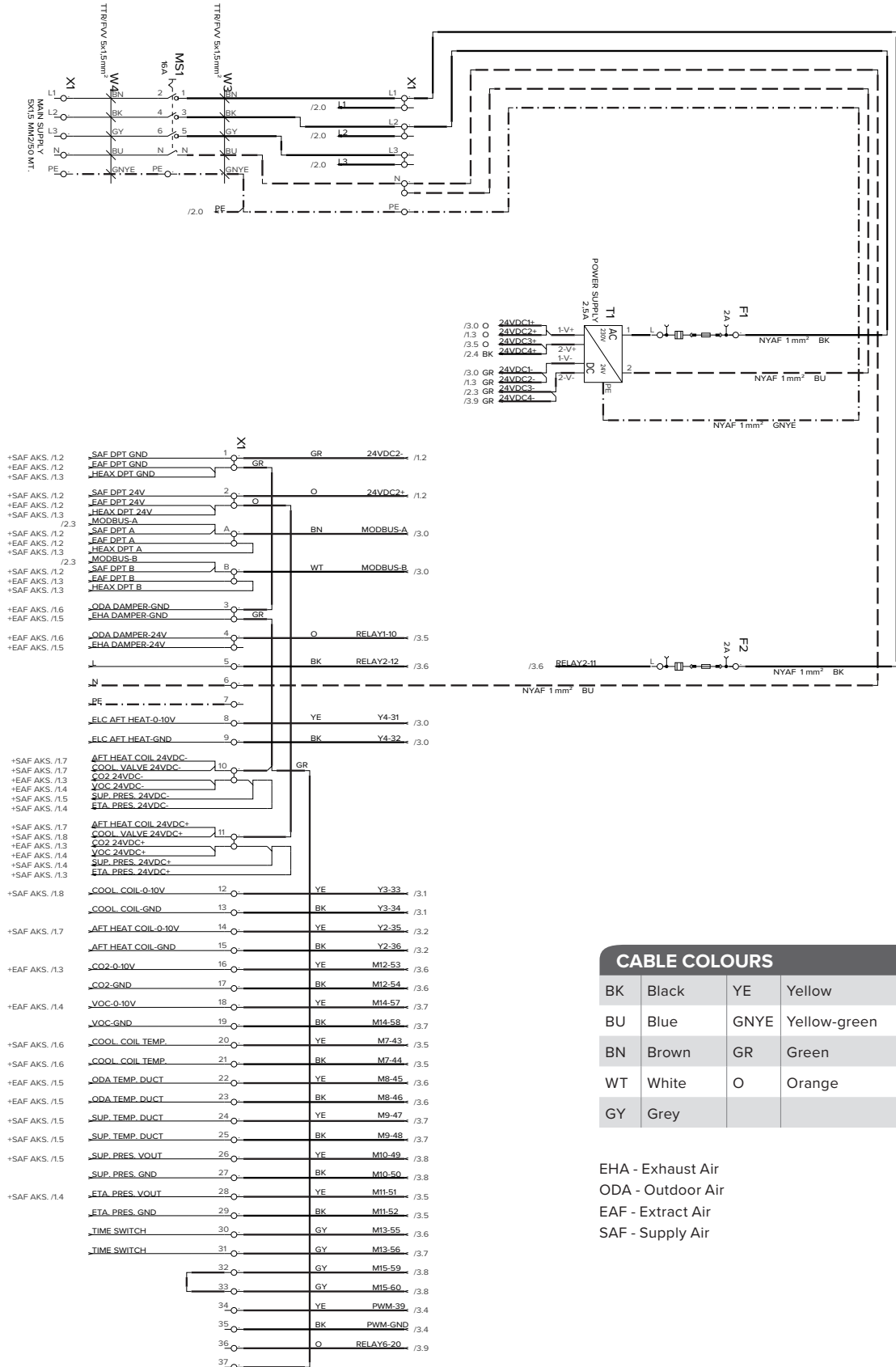
ELECTRICAL CONNECTIONS (TERMINAL BLOCK)

Vallox Pureo TX 500



ELECTRICAL CONNECTIONS (TERMINAL BLOCK)

Vallox Pureo TX 900

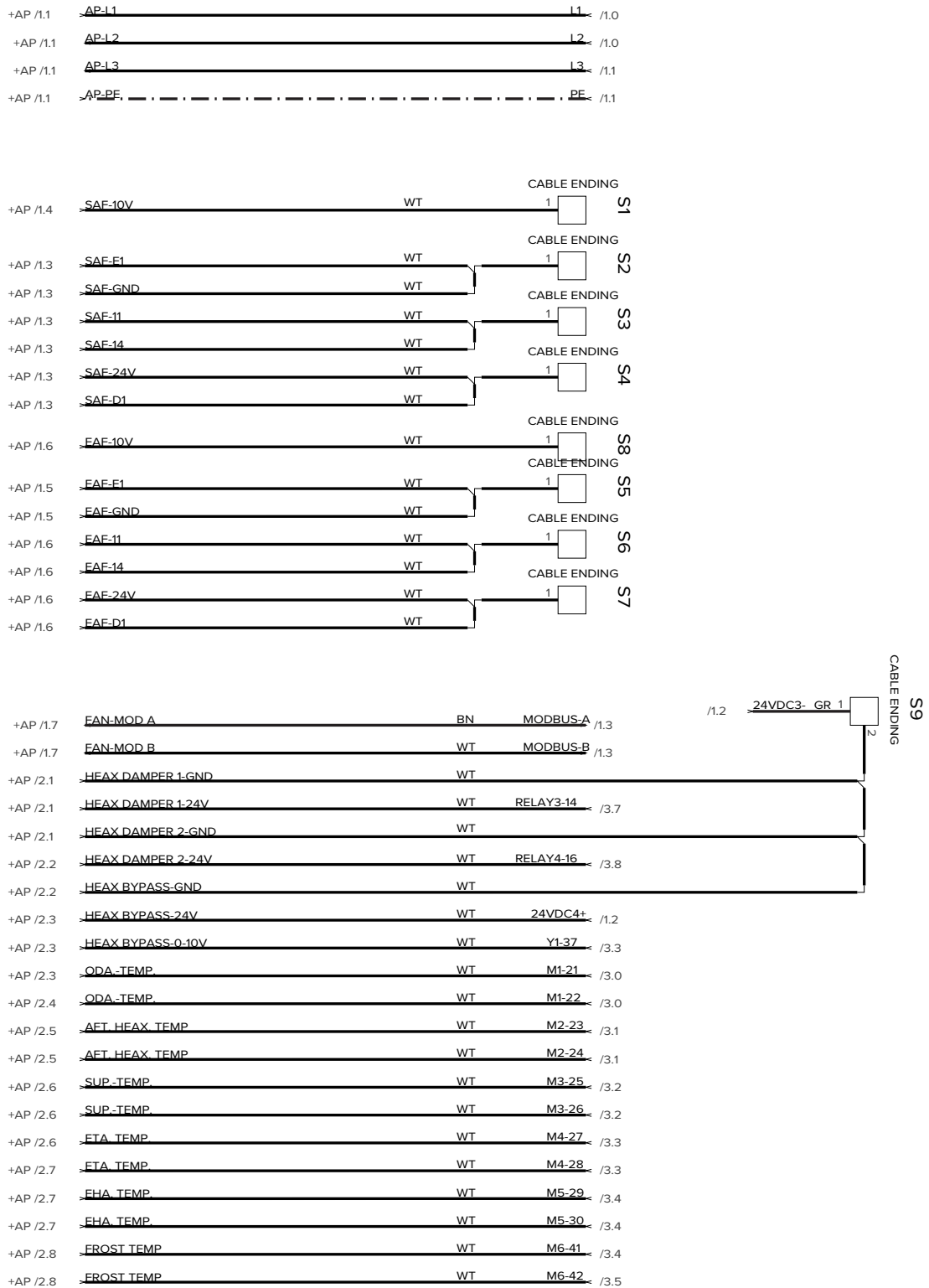


CABLE COLOURS			
BK	Black	YE	Yellow
BU	Blue	GNYE	Yellow-green
BN	Brown	GR	Green
WT	White	O	Orange
GY	Grey		

EHA - Exhaust Air
ODA - Outdoor Air
EAF - Extract Air
SAF - Supply Air

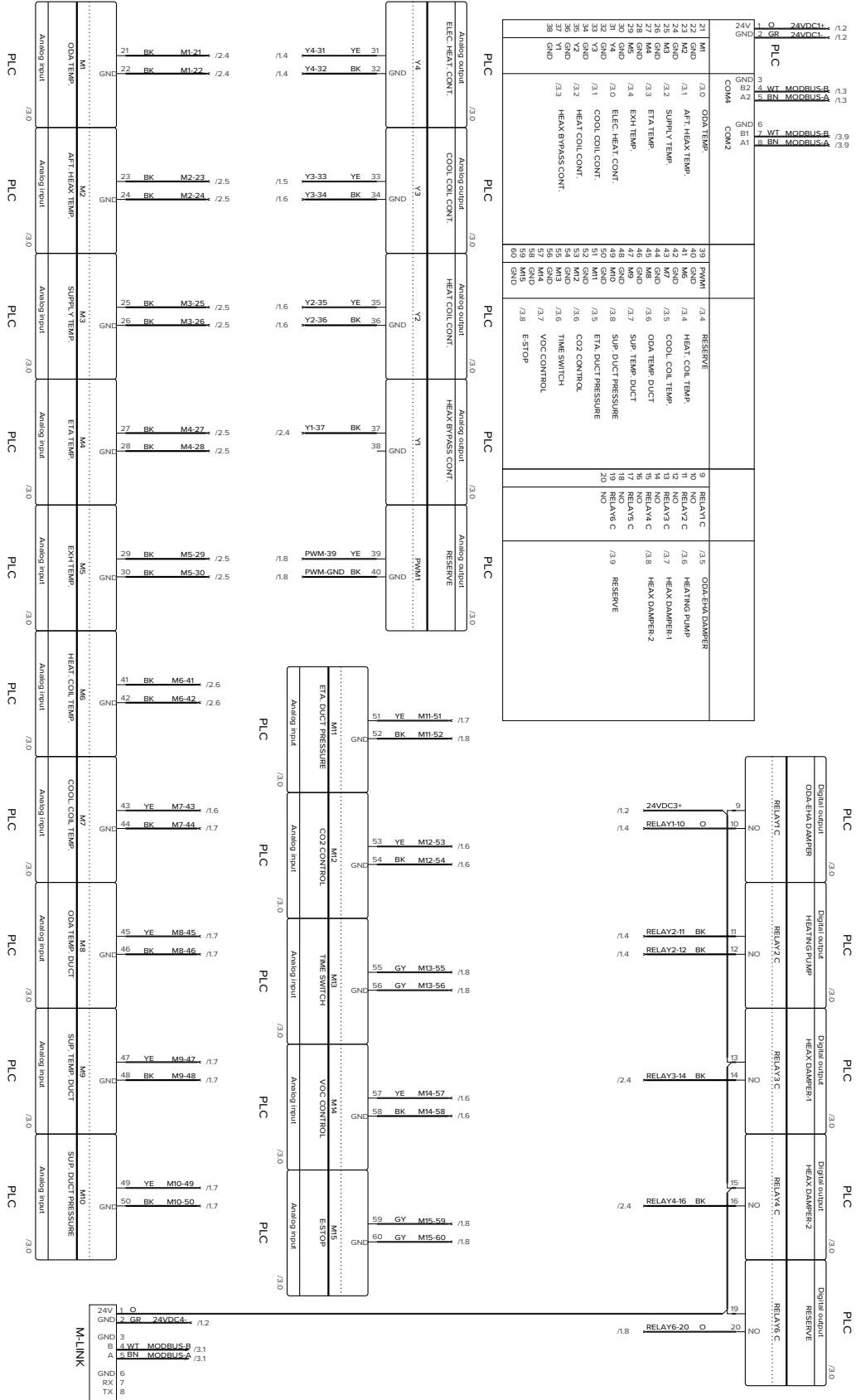
ELECTRICAL CONNECTIONS (TERMINAL BLOCK)

Vallox Pureo TX 900



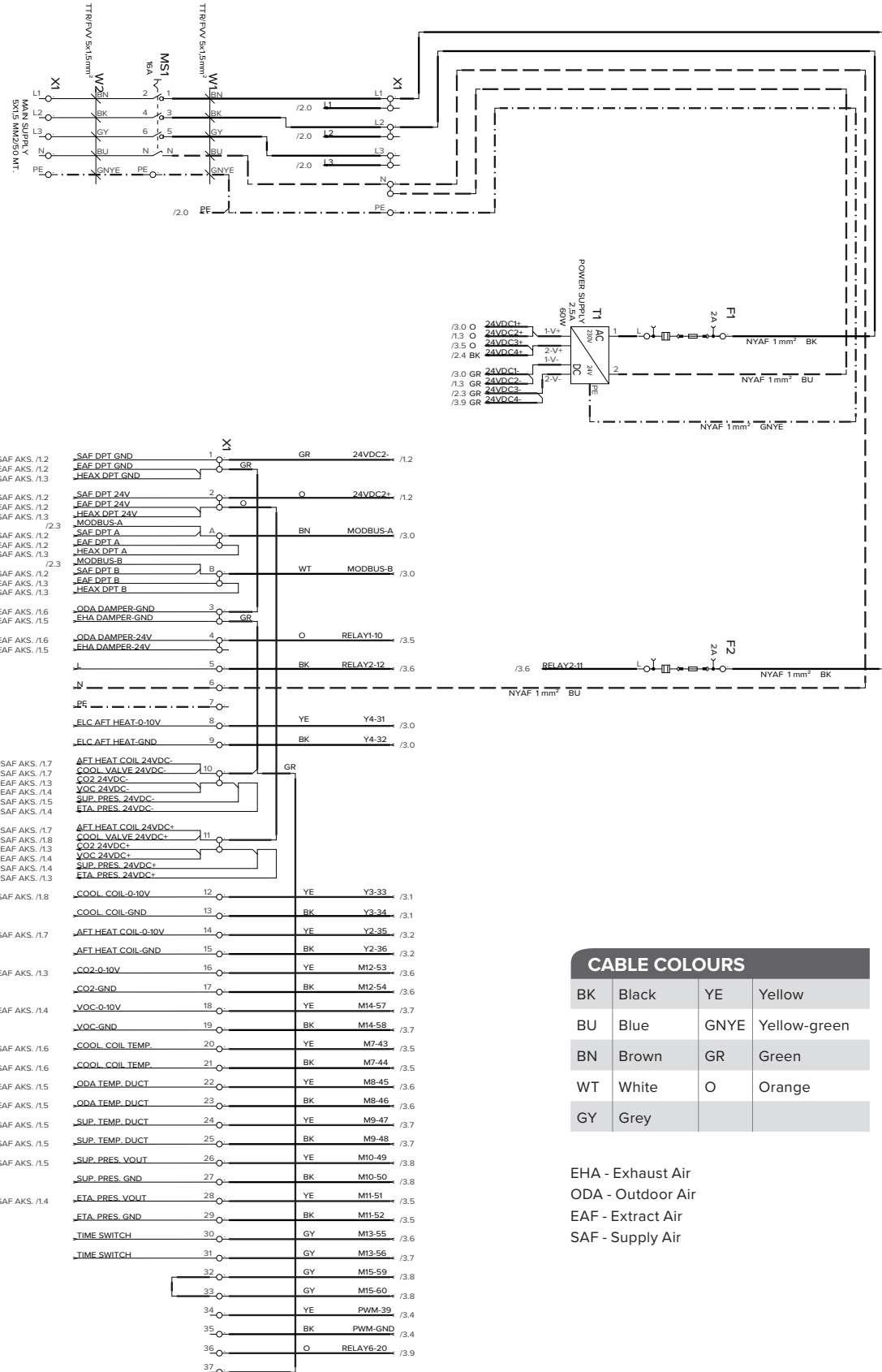
ELECTRICAL CONNECTIONS (TERMINAL BLOCK)

Vallox Pureo TX 900



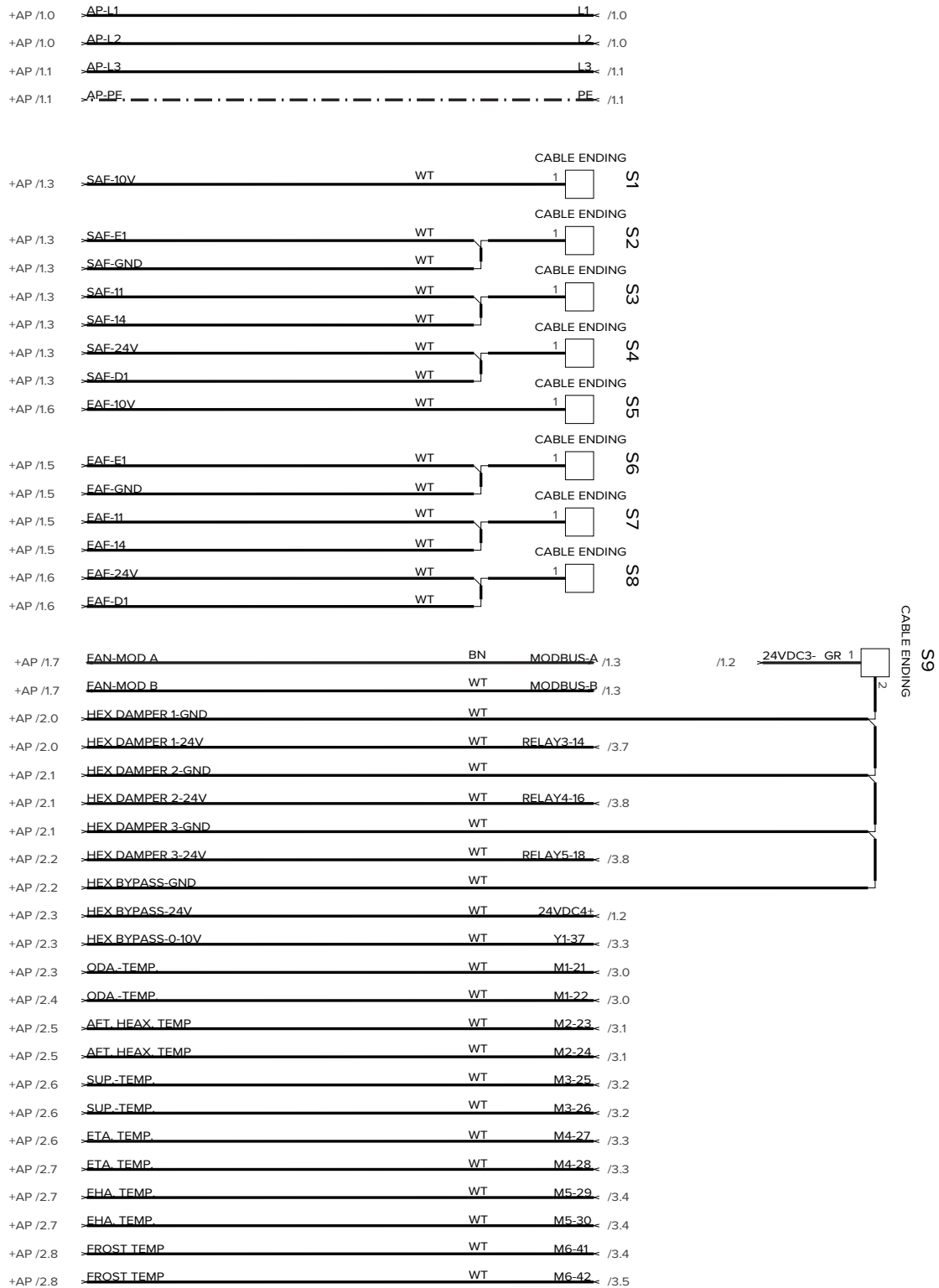
ELECTRICAL CONNECTIONS (TERMINAL BLOCK)

Vallox Pureo TX 1300



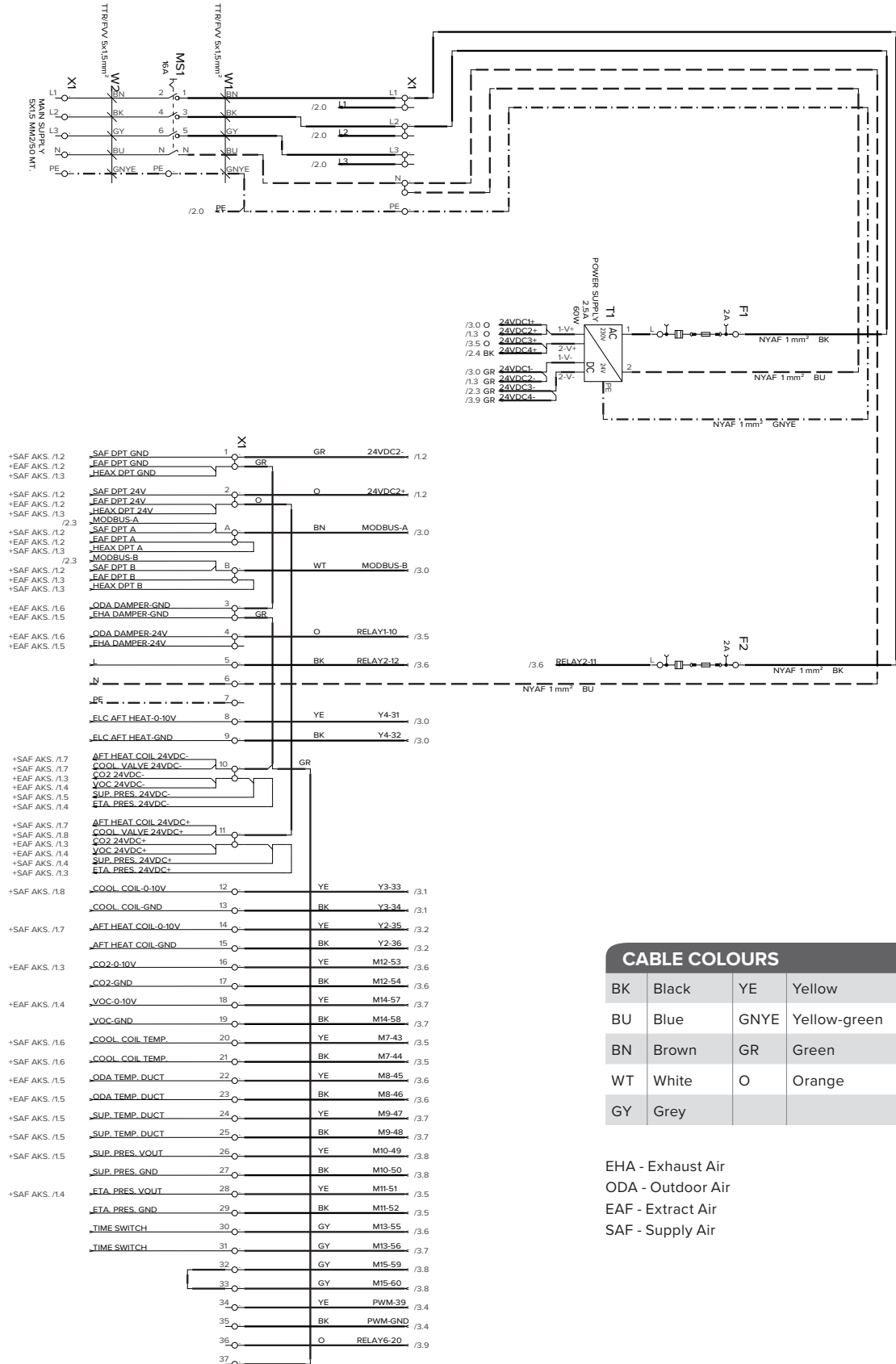
ELECTRICAL CONNECTIONS (TERMINAL BLOCK)

Vallox Pureo TX 1300



ELECTRICAL CONNECTIONS (TERMINAL BLOCK)

Vallox Pureo TX 1800

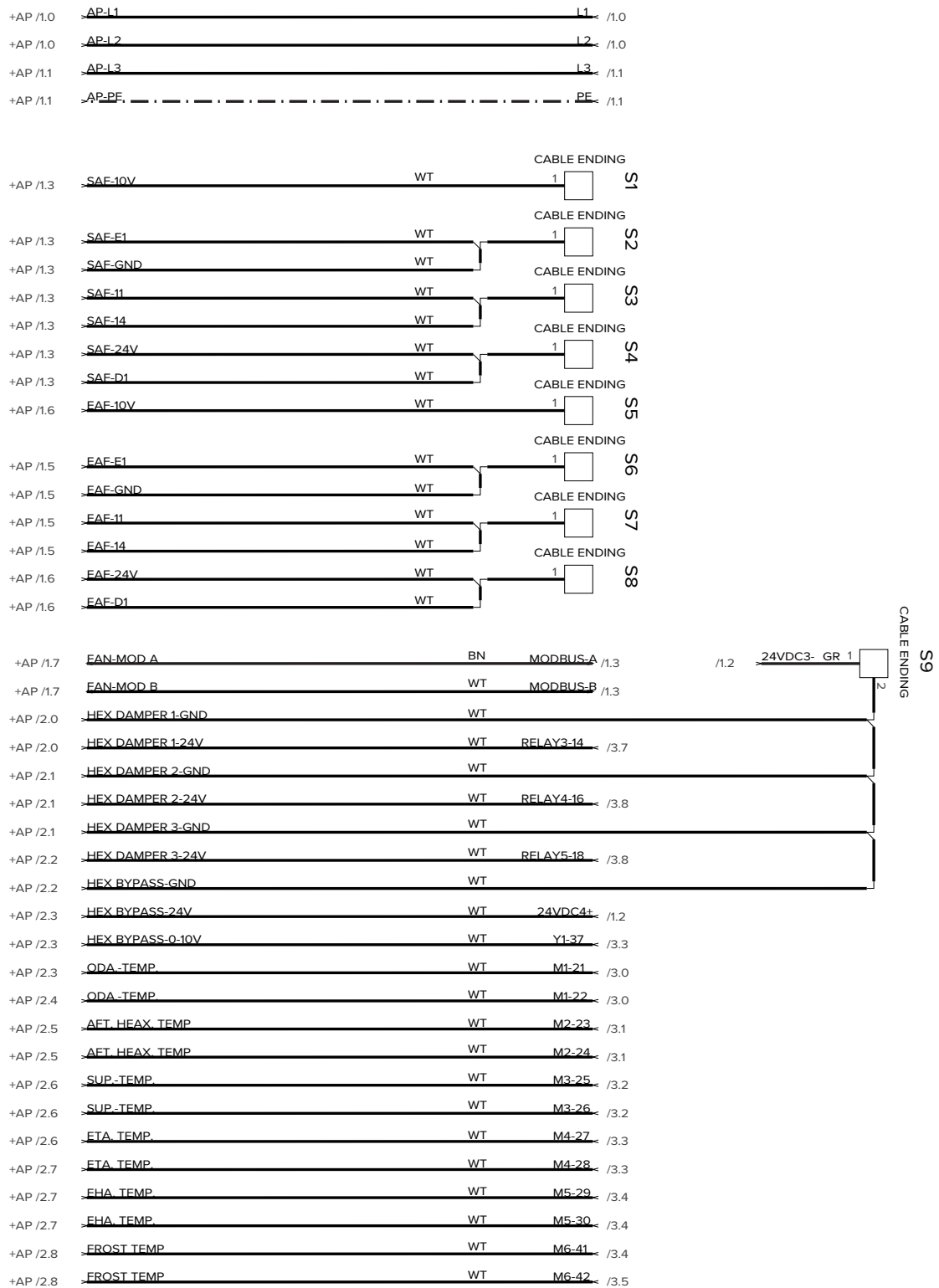


CABLE COLOURS			
BK	Black	YE	Yellow
BU	Blue	GNYE	Yellow-green
BN	Brown	GR	Green
WT	White	O	Orange
GY	Grey		

EHA - Exhaust Air
ODA - Outdoor Air
EAF - Extract Air
SAF - Supply Air

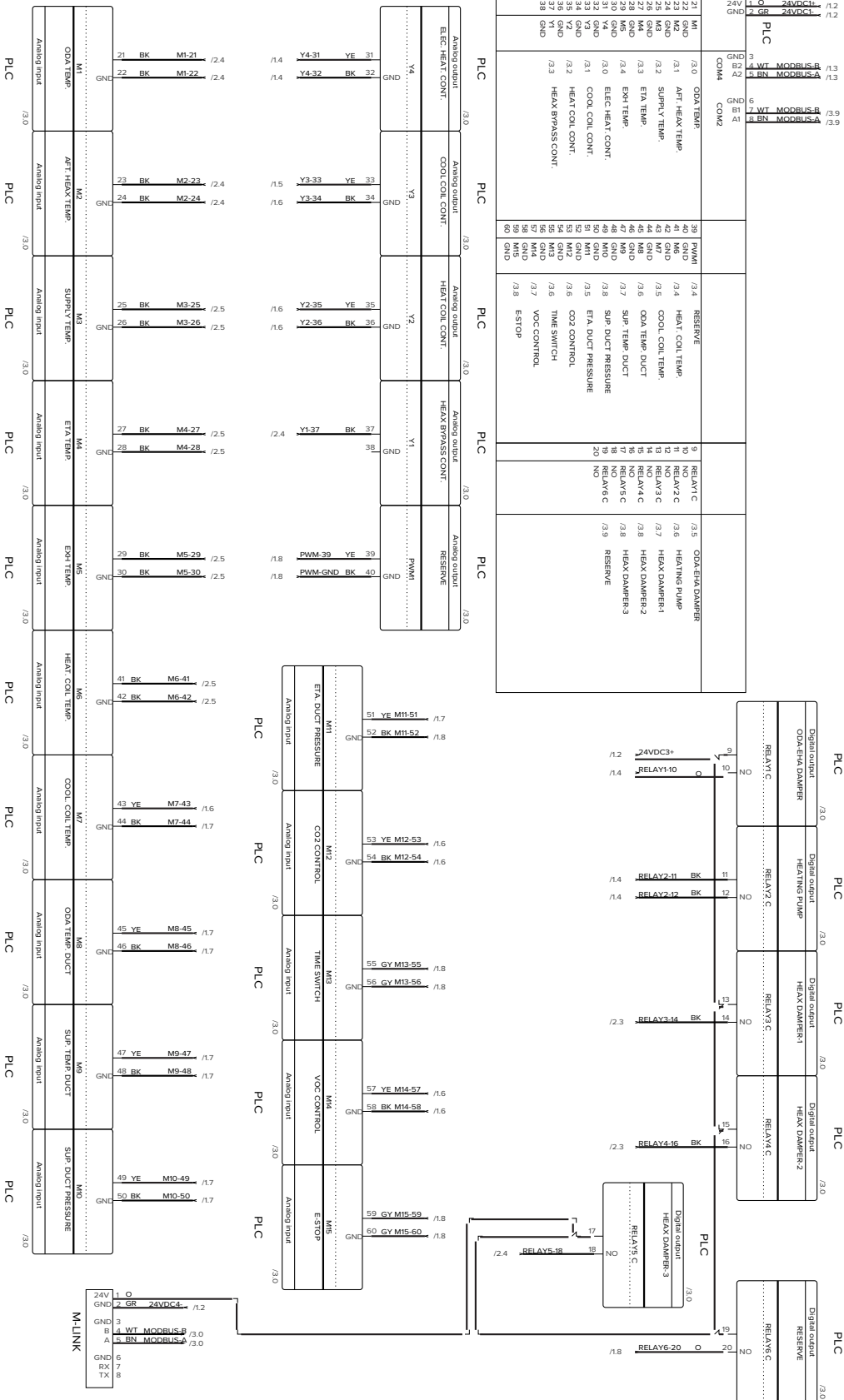
ELECTRICAL CONNECTIONS (TERMINAL BLOCK)

Vallox Pureo TX 1800



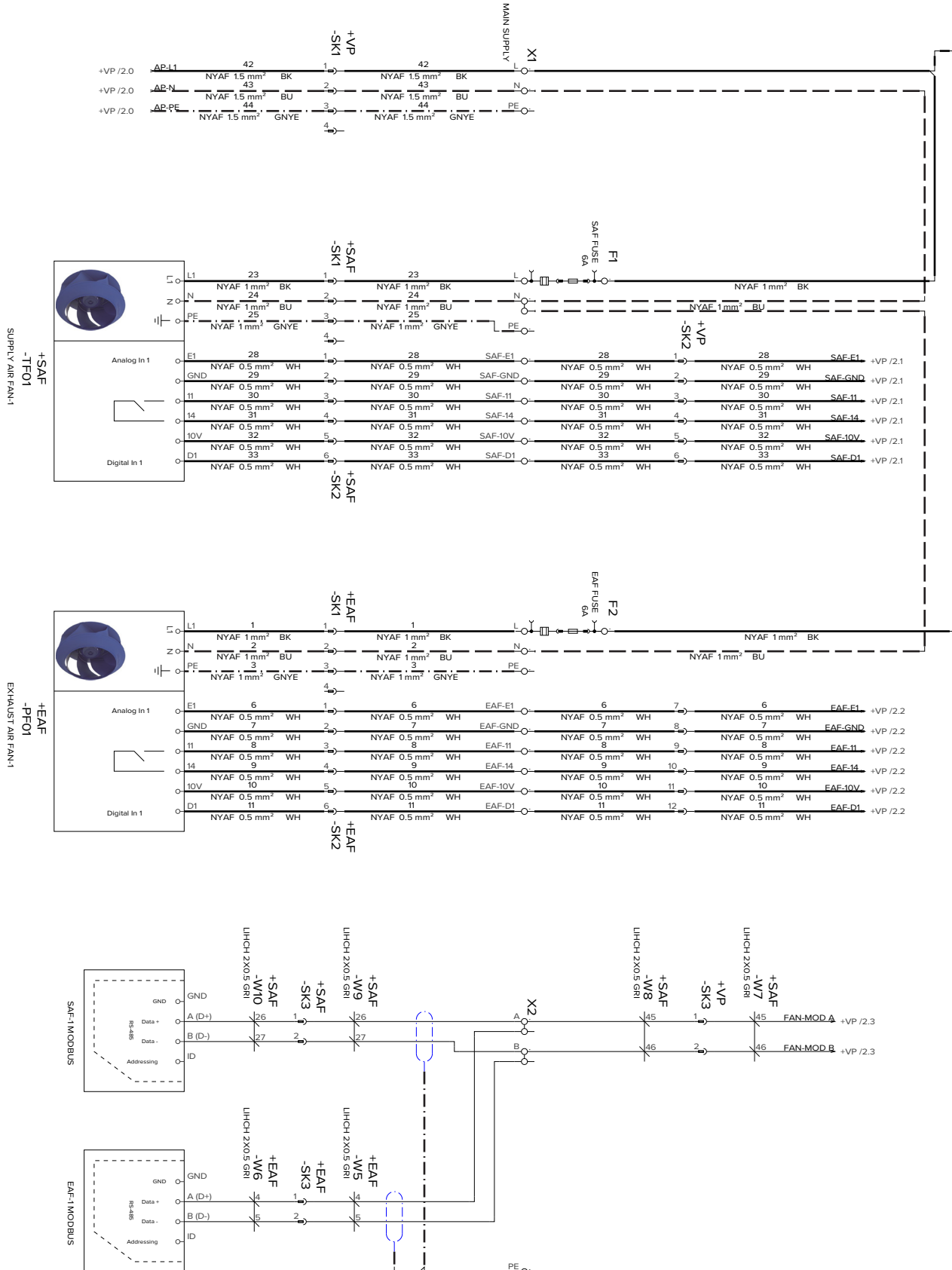
ELECTRICAL CONNECTIONS (TERMINAL BLOCK)

Vallox Pureo TX 1800



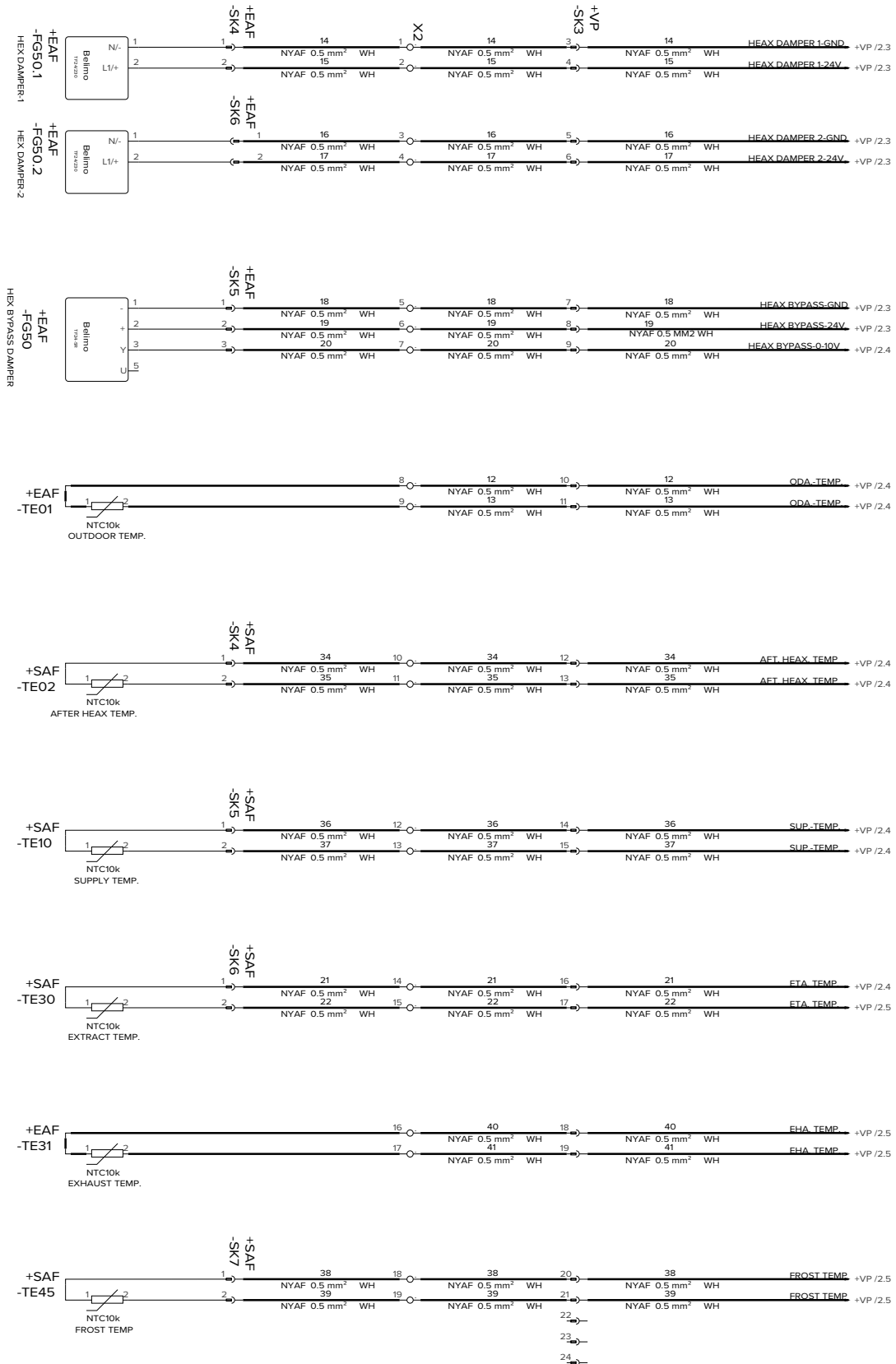
ELECTRICAL CONNECTIONS (INTERNAL)

Vallox Pureo TX 500



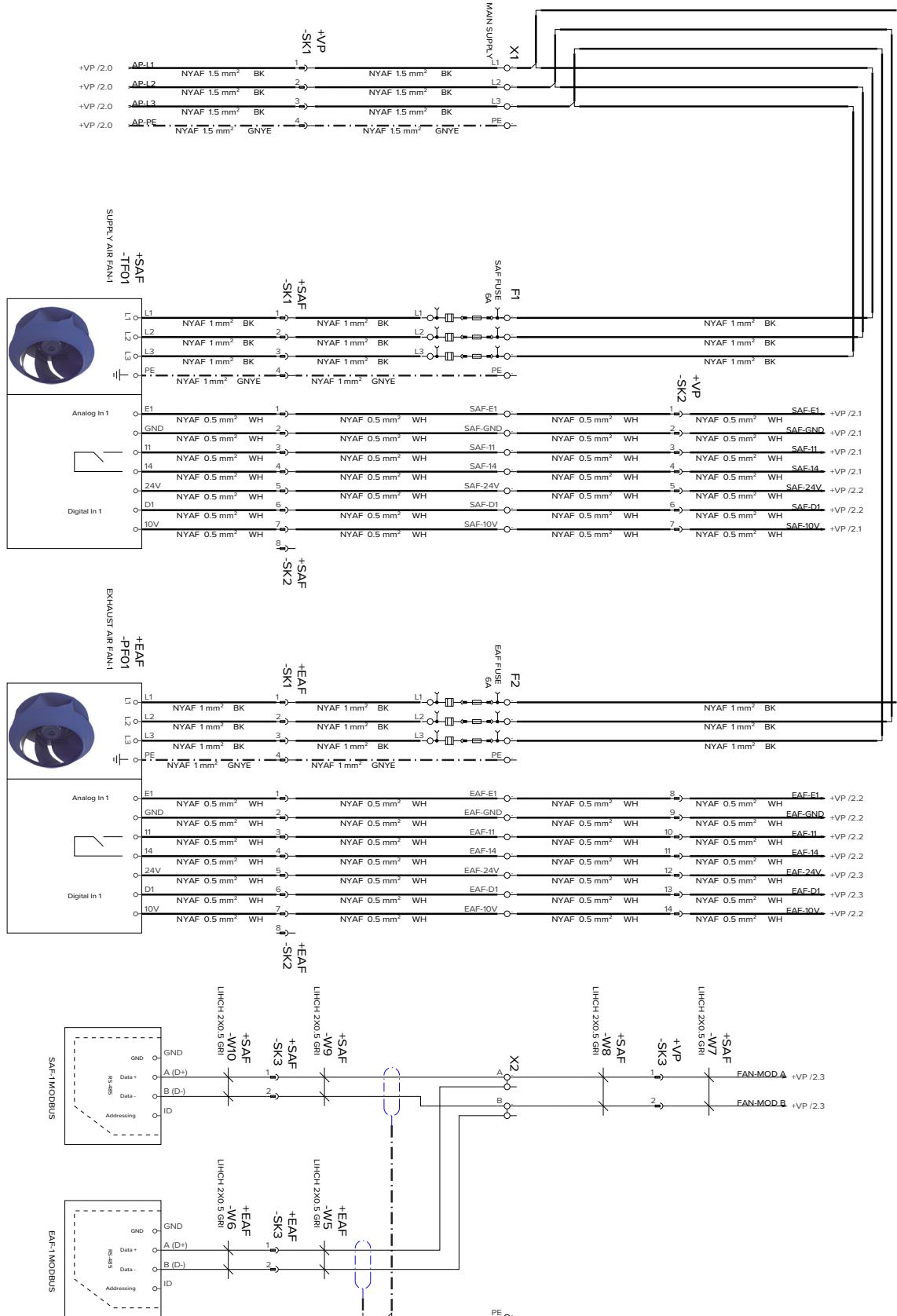
ELECTRICAL CONNECTIONS (INTERNAL)

Vallox Pureo TX 500



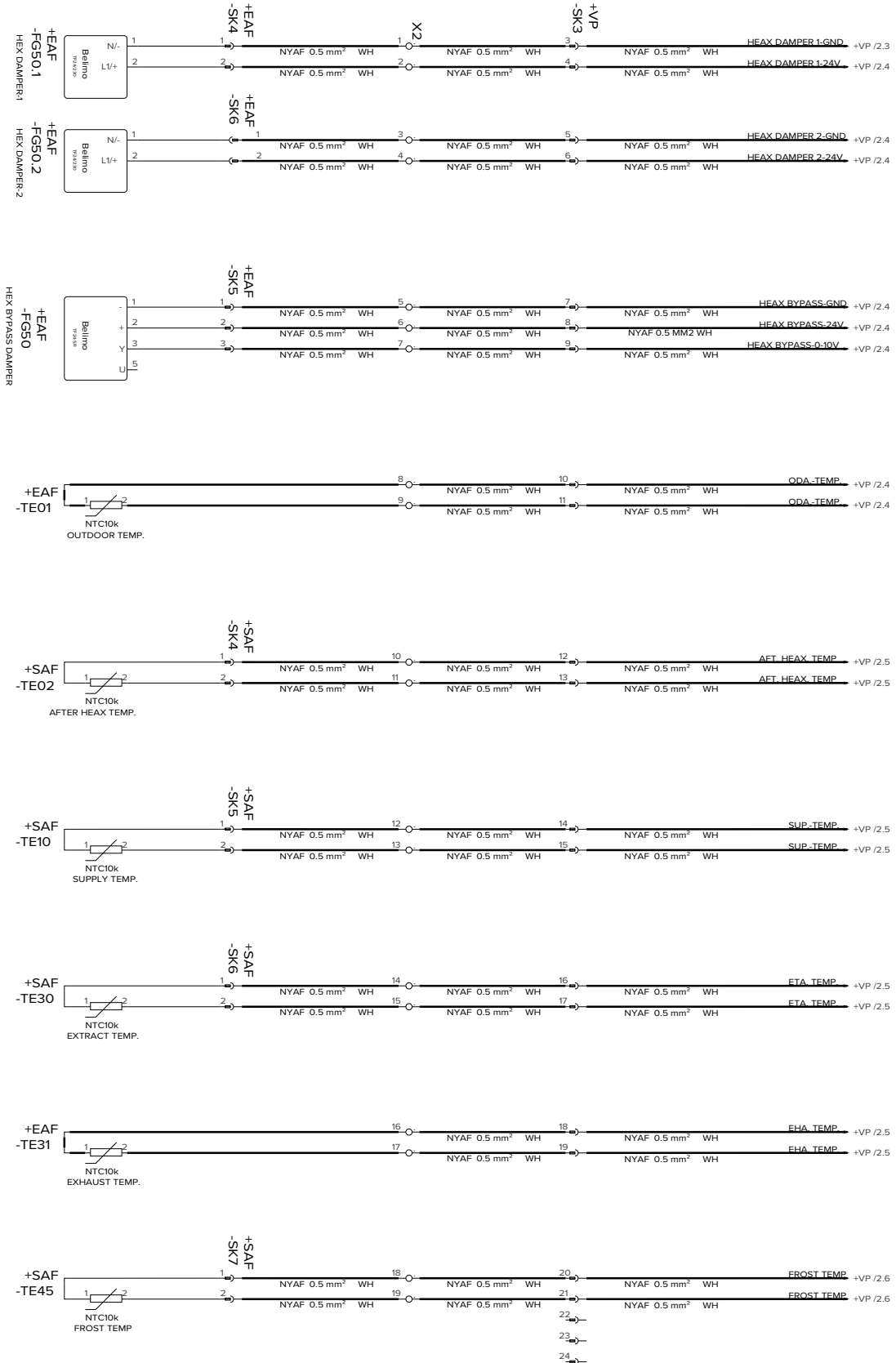
ELECTRICAL CONNECTIONS (INTERNAL)

Vallox Pureo TX 900



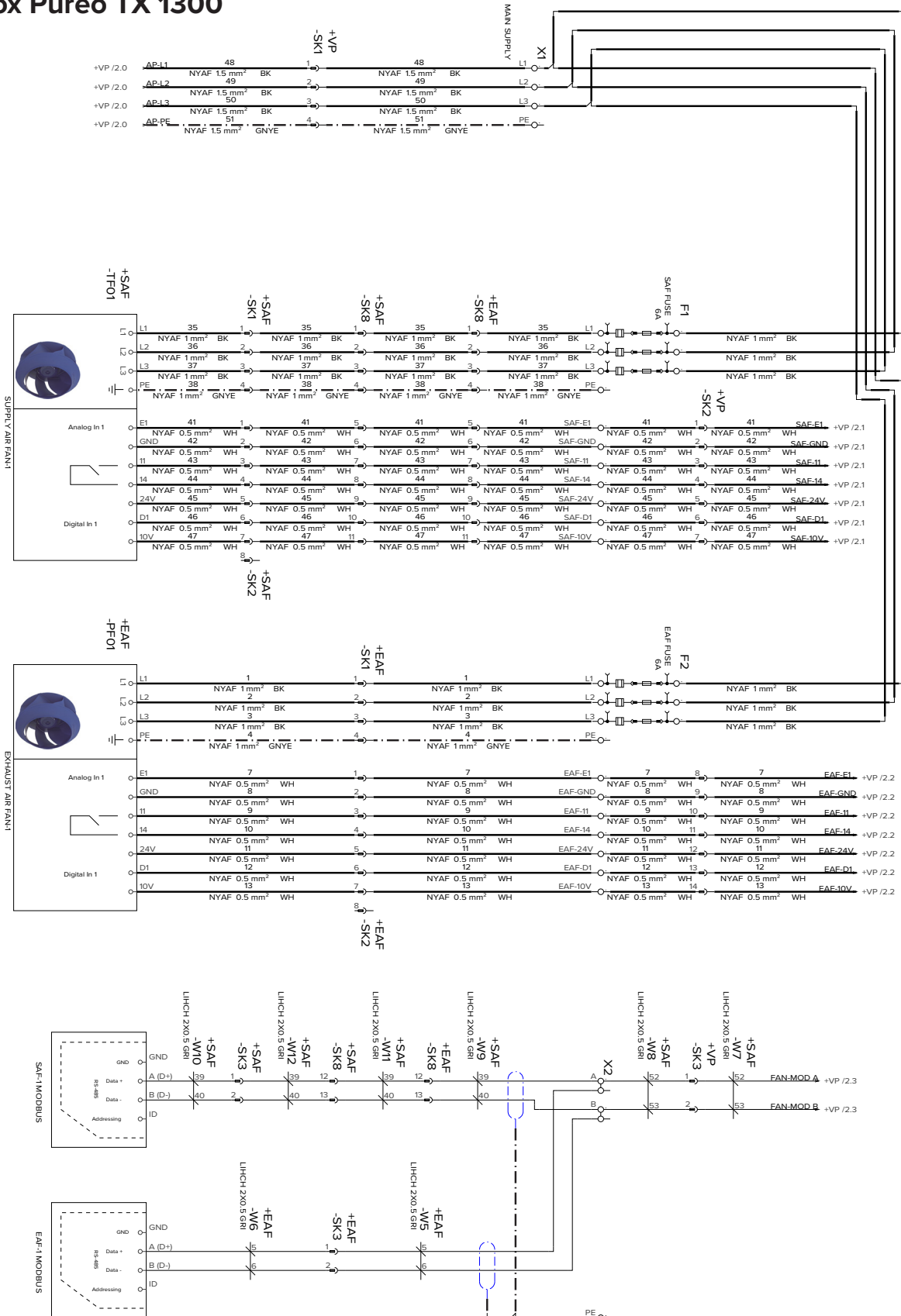
ELECTRICAL CONNECTIONS (INTERNAL)

Vallox Pureo TX 900



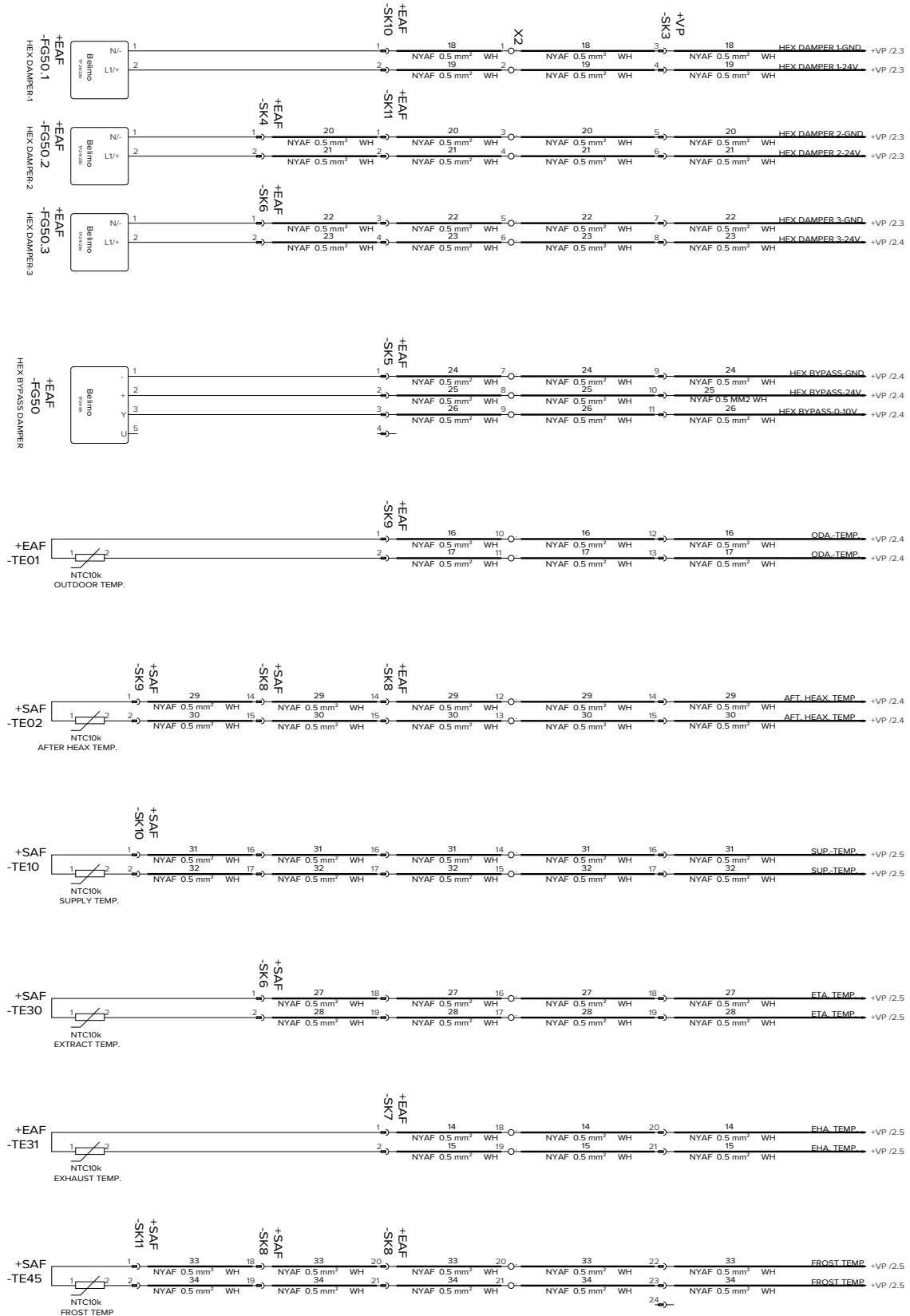
ELECTRICAL CONNECTIONS (INTERNAL)

Vallox Pureo TX 1300



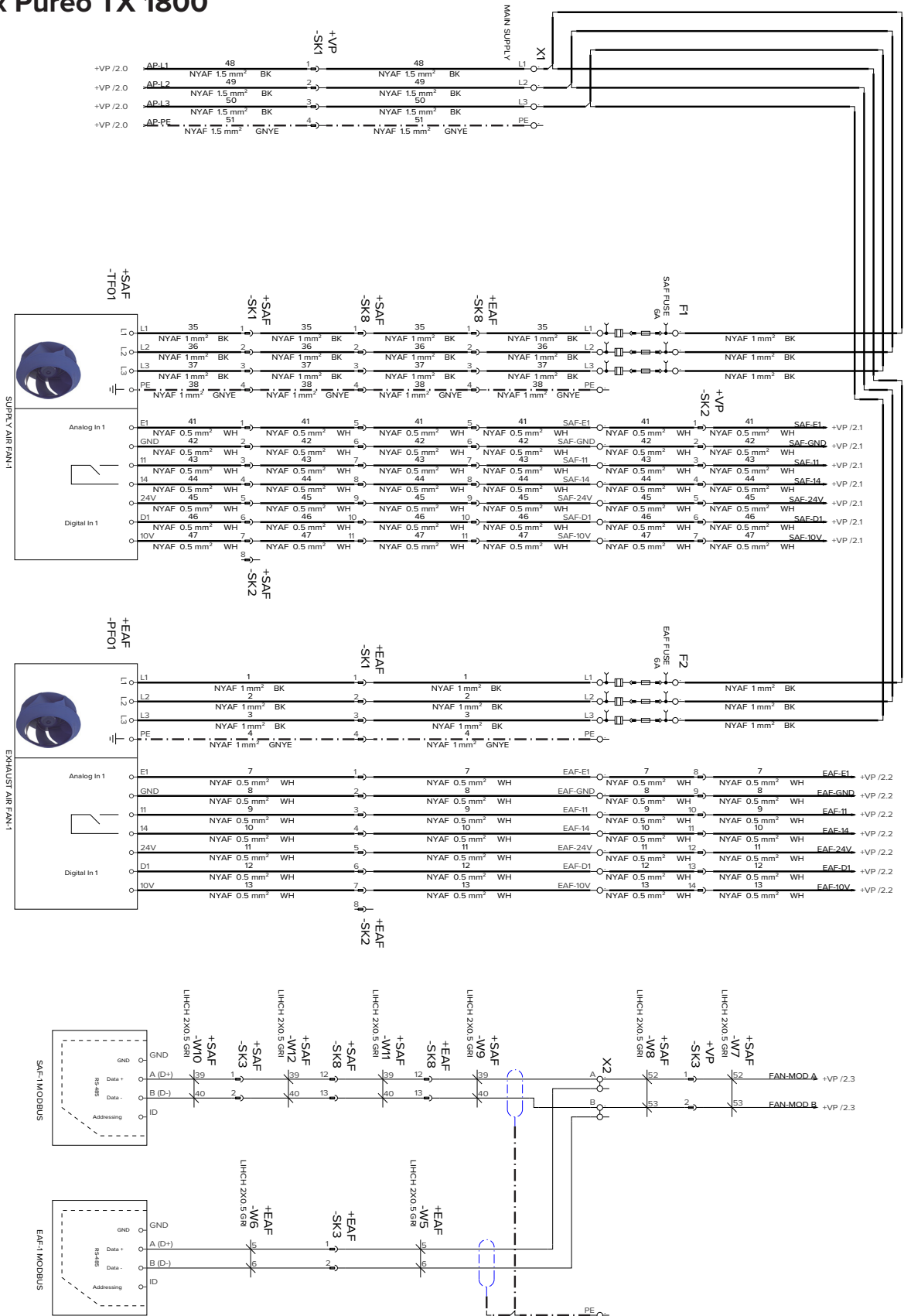
ELECTRICAL CONNECTIONS (INTERNAL)

Vallox Pureo TX 1300



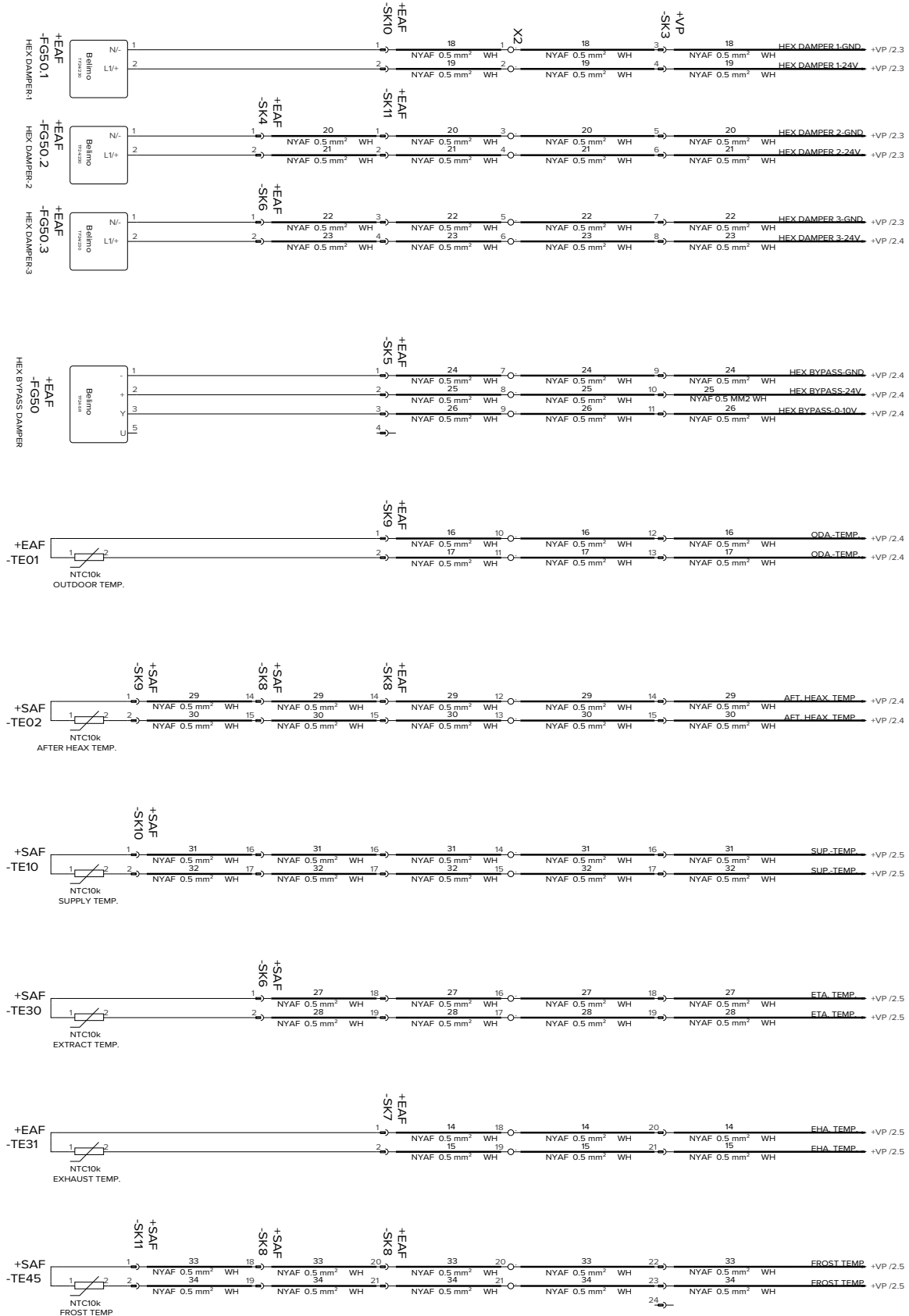
ELECTRICAL CONNECTIONS (INTERNAL)

Vallox Pureo TX 1800



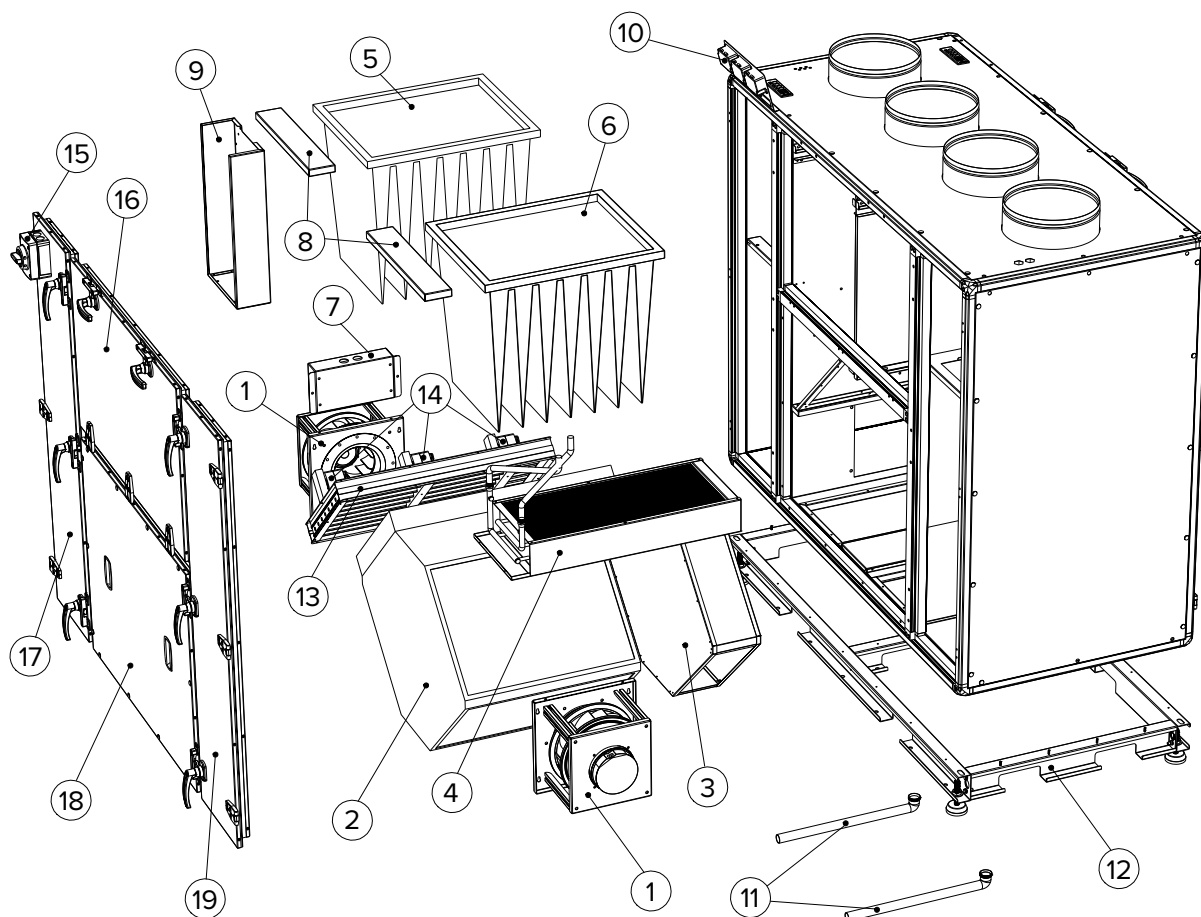
ELECTRICAL CONNECTIONS (INTERNAL)

Vallox Pureo TX 1800



EXPLODED VIEW AND PARTS LIST

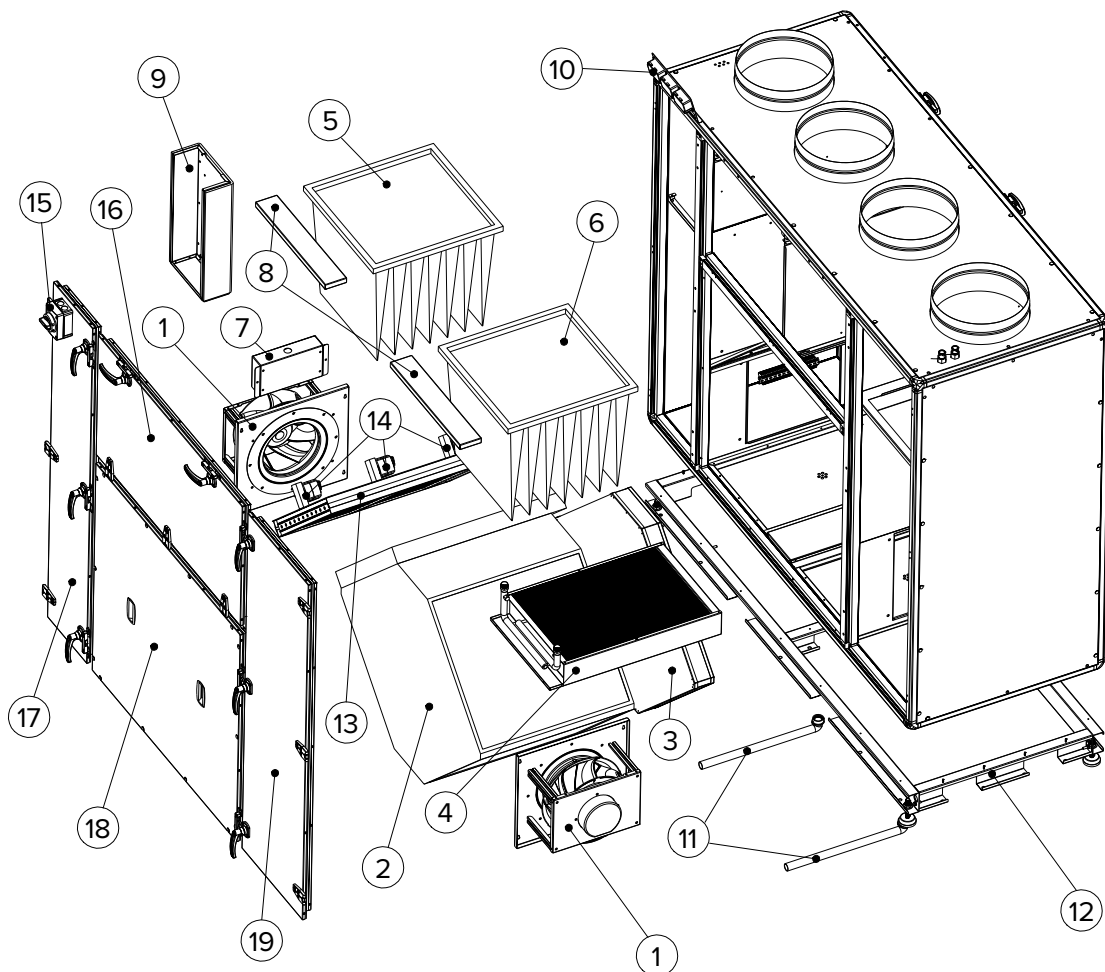
Vallox Pureo TX 500



1.	Supply / exhaust air fan	8.	Filter fixing plate	15.	Main switch
2.	Counter flow heat exchanger	9.	Control Panel	16.	Filter service door
3.	Bypass section	10.	Pressure transmitter	17.	Exhaust air fan service door
4.	Postheater (liquid)	11.	Condensation outlet pipe	18.	Counter flow heat exchanger service panel
5.	Supply air filter	12.	Base frame	19.	Supply air fan service door
6.	Extract air filter	13.	Bypass frame		
7.	Electrical panel	14.	Bypass actuator		

EXPLODED VIEW AND PARTS LIST

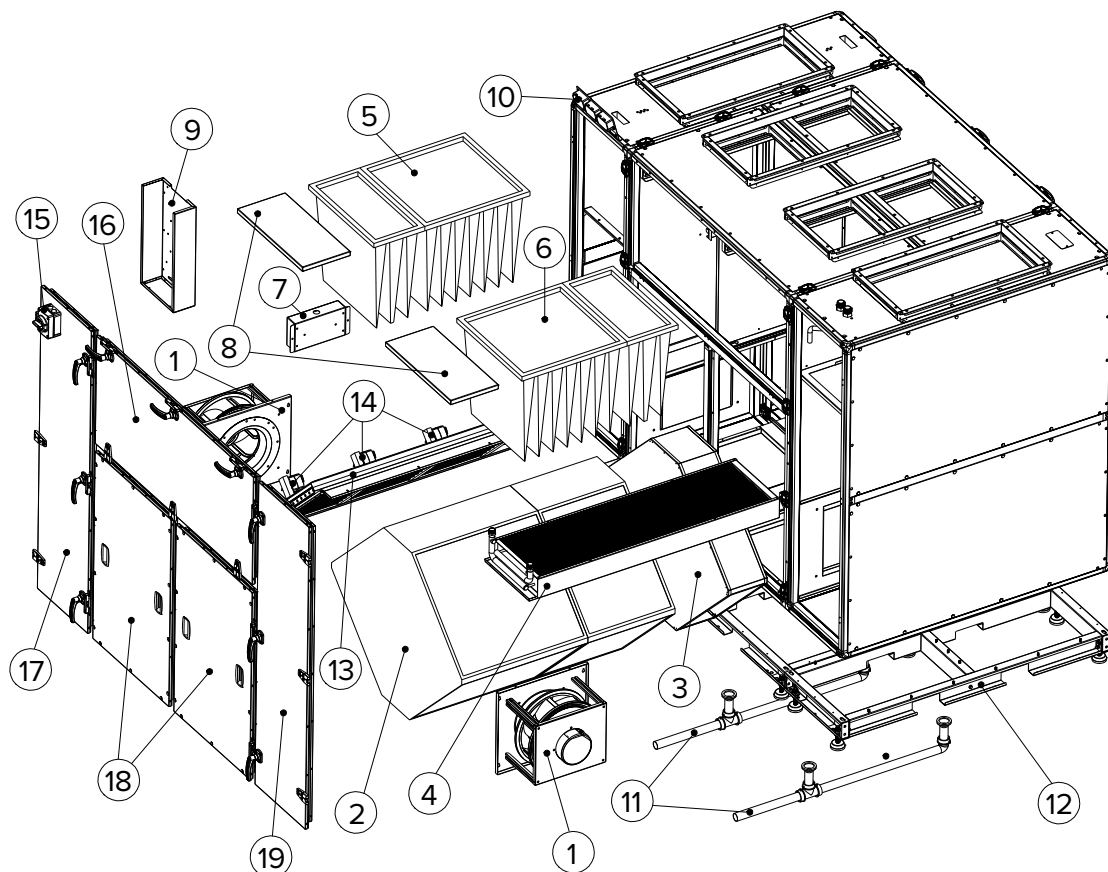
Vallox Pureo TX 900



1.	Supply / exhaust air fan	8.	Filter fixing plate	15.	Main switch
2.	Counter flow heat exchanger	9.	Control Panel	16.	Filter service door
3.	Bypass section	10.	Pressure transmitter	17.	Exhaust air fan service door
4.	Postheater (liquid)	11.	Condensation outlet pipe	18.	Counter flow heat exchanger service panel
5.	Supply air filter	12.	Base frame	19.	Supply air fan service door
6.	Extract air filter	13.	Bypass frame		
7.	Electrical panel	14.	Bypass actuator		

EXPLODED VIEW AND PARTS LIST

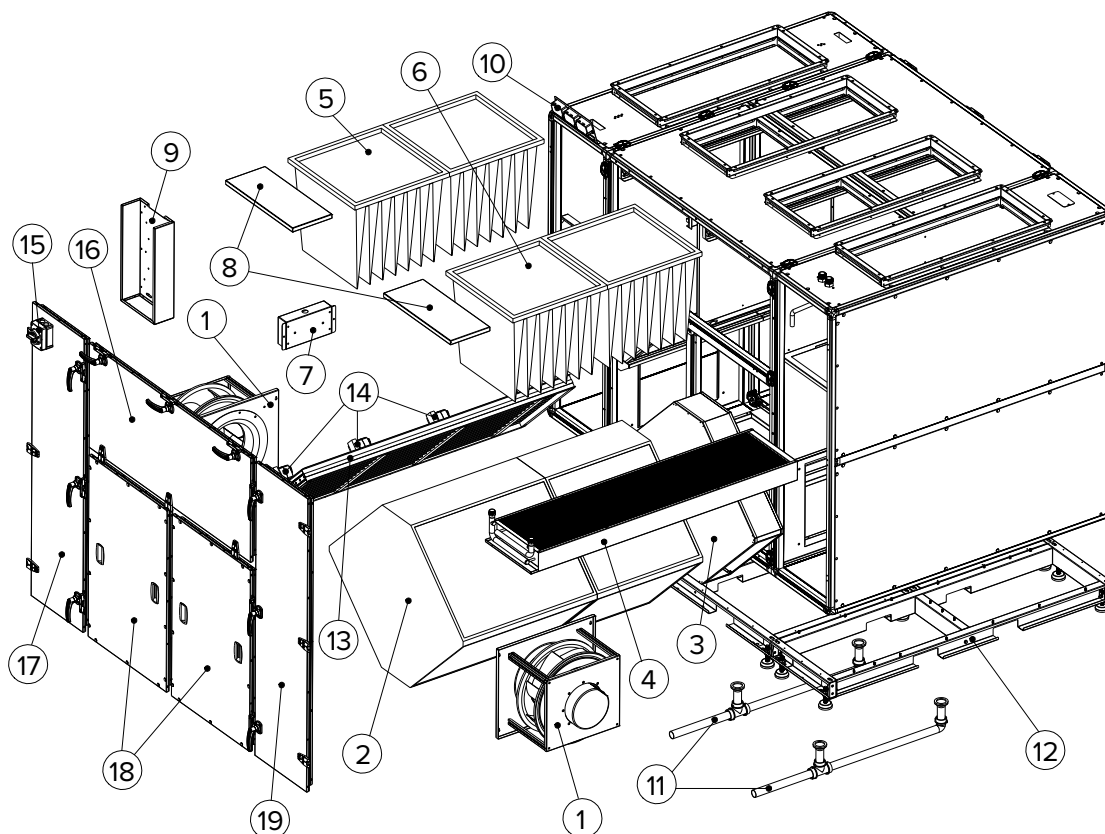
Vallox Pureo TX 1300



1.	Supply / exhaust air fan	8.	Filter fixing plate	15.	Main switch
2.	Counter flow heat exchanger	9.	Control Panel	16.	Filter service door
3.	Bypass section	10.	Pressure transmitter	17.	Exhaust air fan service door
4.	Postheater (liquid)	11.	Condensation outlet pipe	18.	Counter flow heat exchanger service panel
5.	Supply air filter	12.	Base frame	19.	Supply air fan service door
6.	Extract air filter	13.	Bypass frame		
7.	Electrical panel	14.	Bypass actuator		

EXPLODED VIEW AND PARTS LIST

Vallox Pureo TX 1800



1.	Supply / exhaust air fan	8.	Filter fixing plate	15.	Main switch
2.	Counter flow heat exchanger	9.	Control Panel	16.	Filter service door
3.	Bypass section	10.	Pressure transmitter	17.	Exhaust air fan service door
4.	Postheater (liquid)	11.	Condensation outlet pipe	18.	Counter flow heat exchanger service panel
5.	Supply air filter	12.	Base frame	19.	Supply air fan service door
6.	Extract air filter	13.	Bypass frame		
7.	Electrical panel	14.	Bypass actuator		

EC DECLARATION OF CONFORMITY

Manufacturer Vallox Oy
Myllykyläntie 9-11, FIN-32200 LOIMAA, FINLAND
Tel. +358 10 7732 200, Fax +358 10 7732 201

Declares that:

Description of unit Air handling unit
Model Vallox Pureo TX 500, Vallox Pureo TX 900, Vallox Pureo TX 1300, Vallox Pureo TX 1800 and accessories for each respective size that fall within the scope of these directives.

If the product is installed correctly and used to its intended purpose, it conforms to below standards and directives at its date of manufacture.

Directives

1. Machinery Directive 2006/42/EC
2. Low Voltage Directive 2014/35/EU
3. EMC Directive 2014/30/EU
4. Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU
5. Eco-design (Commission regulation (EU) No. 1253/2014) 2009/125/EC

Standards

1. SFS-EN JSO 12100:2010 Safety of machinery. General principles for design. Risk assessment and risk reduction
2. EN60204-1 Safety of machinery. Electrical equipment of machines. General requirements
3. EN 61000-6-3 Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light-industrial environments
4. EN13053:2006 Air handling units - Rating and performance for units, components and sections
5. EN1886:2007 Ventilation for buildings - Air handling units - Mechanical performance

The person who compiles the technical file

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Myllykyläntie 9-11, FIN-32200 LOIMAA, FINLAND
Tel. +358 10 7732 245
Fax +358 10 7732 201
Email juuso.nystrom@vallox.com

This declaration relates exclusively to the machinery in the state in which it was placed on the market and installed according to Vallox Oy's instructions. This declaration does not include components which are added or changes done subsequently to the unit.

This is the original Declaration of Conformity

Loimaa, 24th March 2021



Jukka-Pekka Korja
Managing Director

VALLOX

www.vallox.com

Vallox Oy | Myllykyläntie 9-11 | 32200 LOIMAA | FINLAND

D9674/14.12.2022