VALLOX

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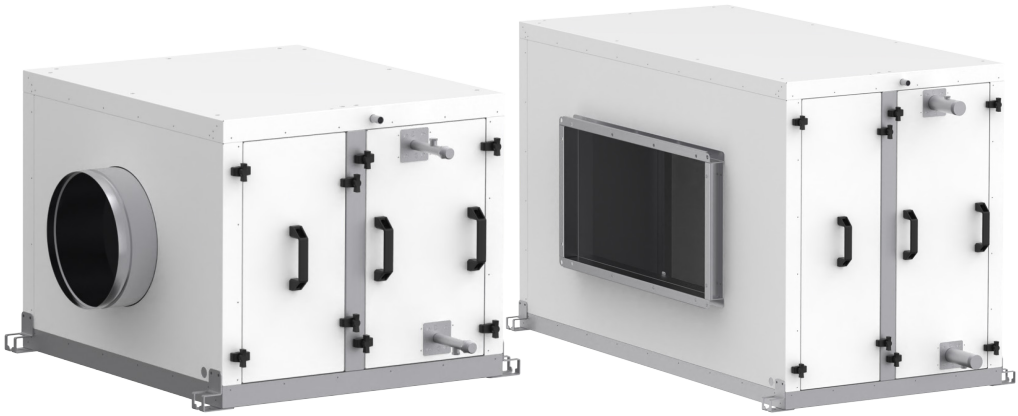
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20.08.2026

INSTRUCTIONS

VALLOX

# Pureo TX

Manual for cooling coil



Vallox Pureo TX cooling coil (CW/DX)

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# SAFETY

Safe and appropriate handling requires an understanding of the applicable basic safety regulations and the intended purpose of the Vallox Pureo TX cooling coil. Read this manual before using the cooling coil and keep it safe for later use. If you lose the manual, you can find and download it on our website.

This manual contains all the information needed for the safe use of the system. All persons using and maintaining the Vallox Pureo TX cooling coil shall follow the instructions in this manual. They must also comply with any local safety regulations to prevent accidents.

**NOTE**
Visit www.vallox.com for more information

**DANGER**
Electrical connections must be fully isolated from the main power source until the final assembly!

## Installation

The installation and setup of the unit must be carried out by qualified professionals only. Electrical installations and electrical connections must be done by an electrician in compliance with the local legislation.

# DISASSEMBLY AND REASSEMBLY

Make sure the Vallox unit is disconnected from power before disassembly or reassembly.

**WARNING**
Risk of personal injury or damage to property!

Disassembly and reassembly are not considered to be normal maintenance measures. The unit should be disassembled and reassembled by qualified professionals only.

**WARNING**
Installation poses a risk of physical damage!

Take the following steps when installing the cooling coil:

- Close all hydraulic stop valves.
- Insulate all connections and make sure the unit is leak-proof.
- The diameter of the cooling pipe is small and water may remain in the cooling coil even after draining. For safety reasons, blow compressed air into the system to remove any water remaining inside.

**DANGER**
Mortal danger caused by an electric shock!

An electric shock could result in death or serious injury. Make sure the Vallox unit is dead and disconnected from power. Earth and short-circuit the unit. Protect any adjacent live components.

# WARRANTY

The warranty and the manufacturer's responsibility do not cover damage caused by:

- Inappropriate use of the ventilation system or control unit
- Incorrect or inappropriate installation, setup or use of the unit
- Failure to comply with the instructions for transport, installation, use or maintenance
- Structural or electronic modifications, or changes made to the software



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## SAFETY SYMBOLS

**DANGER**
A hazard that could result in death or serious injury, if not avoided.

**WARNING**
A hazard that could result in death or serious injury, if not avoided.

**CAUTION**
A hazard that could result in minor or moderate injury, if not avoided.

**IMPORTANT**
A hazard that could result in damage to property or loss of data, if not avoided.

**NOTE**
Important information about the product.

**TIP**
Additional information about the use of the product and its benefits.

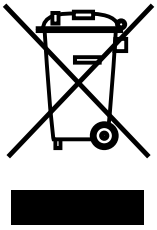
## REGULATIONS – INSTRUCTIONS

If the product has been installed correctly and it is used according to the intended purpose, it is in compliance with all the applicable regulations and requirements for CE markings valid at the time of manufacture.
The Vallox Pureo TX cooling coil is compliant with the 2018 Ecodesign Directive.

## DISPOSAL

Do not dispose of electrical appliances with domestic waste. Follow the local laws and regulations on safe and ecological disposal.

Make sure that the components are separated and sorted according to the material type.



## DELIVERY

The unit must be transported with utmost care. We recommend the unit be kept in the original packaging until installation to avoid damage or contamination.

The unit should be transported by qualified and experienced personnel and necessary safety measures must be taken to prevent the unit from falling over or slipping. The weight of the unit must be distributed evenly during transport.

**WARNING**
Risk of personal injury or damage to property!

**IMPORTANT**
Oversized load can lead to physical damage!

**DANGER**
Transport contrary to the instructions may lead to personal injury and/or physical damage!

## RECEPTION

Inspect the delivery contents upon receipt and make sure everything is in order. If you detect any damage, file a complaint with the transport company immediately. If no complaint is filed within a reasonable time, any future claims for compensation may be invalid.

## STORAGE

When the unit is stored for a long period of time, the following measures must be taken to avoid damage:

- The unit must be packed in a dry, airtight and dust-proof packaging (a plastic bag with drying agent and moisture detectors).
- The unit should be stored in a waterproof and vibration-free space of constant temperature.

Evidence of damage due to incorrect transport, storage or setup must be provided and such damage shall not be covered by the warranty.

**WARNING**
Children under the age of eight or persons with a sensory, physical or mental disability or with insufficient understanding and experience of the safe use of the unit shall not be allowed to use the unit unsupervised.

Such persons may use the unit under supervision or by following instructions given by a person responsible for their safety.

Keep an eye on children and do not let them play with the unit.

## SCOPE OF APPLICATION – INTENDED PURPOSE

The Vallox Pureo TX cooling coil is intended for use solely as an accessory of Vallox Pureo TX air handling units.

The cooling coils are designed to cool the supply air without posing a risk to the residents' health and to keep the building structures in good condition.

The cooling coils are accessories compatible with Vallox Pureo TX air handling units and they are energy-efficient, quiet and ready for use. There are five different models with a maximum air volume rate of 1800 $dm^3/s$.

The cooling coils are intended solely for cooling the supply air.

The cooling coils come with standard equipment and are intended for installation and use in spaces where the room temperature does not drop below zero. Non-freezing draining of condensate must be ensured on site. The casing's corrosion class is C4 pursuant to ISO 12944. The unit may be used in the conditions specified below.

Operating conditions:

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

**IMPORTANT**
Freezing could cause physical damage to the unit!

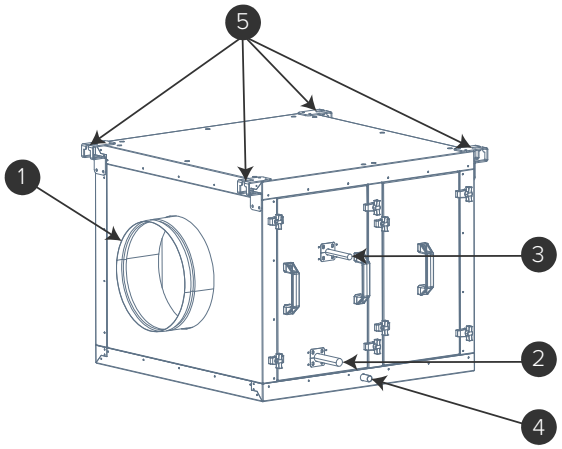
**NOTE**
Any use other than the intended purpose of use is prohibited!



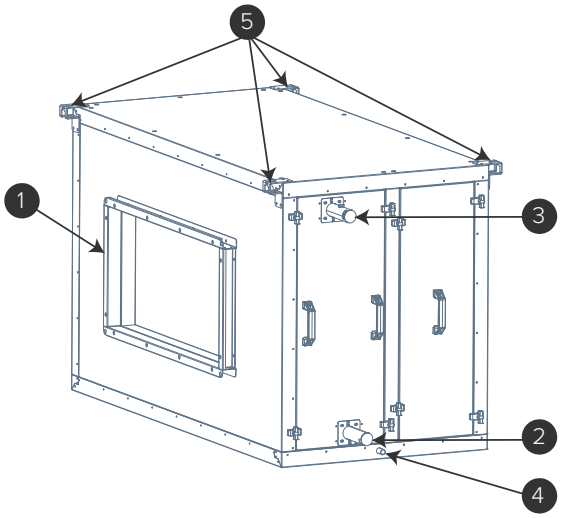
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# MAIN PARTS

## TX 350/500/900 cooling coil




## TX 1300/1800 cooling coil




Box coupling ..... 1

Liquid input ..... 2

Liquid output ..... 3

Condensation outlet pipe ..... 4

Support brackets ..... 5

## DELIVERY CONTENTS

The delivery includes one of the following cooling coils:

- Vallox Pureo TX 350 cooling coil
- Vallox Pureo TX 500 cooling coil
- Vallox Pureo TX 900 cooling coil
- Vallox Pureo TX 1300 cooling coil
- Vallox Pureo TX 1800 cooling coil

**NOTE**
Inspect the delivery contents upon receipt and make sure everything is in order. If you detect any damage, file a complaint with the transport company immediately. If no complaint is filed within a reasonable time, any future claims for compensation may be invalid.

## PACKAGE DIMENSIONS

| | No. of packages | Package dimensions (l x w x h) |
|---|---|---|
| TX 350 Duct Cooling Coil | 1 | 1072 x 976 x 828 mm |
| TX 500 Duct Cooling Coil | 1 | 1050 x 1095 x 790 mm |
| TX 900 Duct Cooling Coil | 1 | 1287 x 1230 x 940 mm |
| TX 1300 Duct Cooling Coil | 1 | 1287 x 1750 x 1090 mm |
| TX 1800 Duct Cooling Coil | 1 | 954 x 2005 x 1240 mm |

**IMPORTANT**
Before unloading the unit, make sure that the transport equipment and hoists meet the weight capacity requirements.

## OPERATION

The Vallox Pureo TX cooling coil has been designed to be installed outside the supply air ducts of a Vallox Pureo TX ventilation unit. The external cooling coil reduces the temperature of supply air. The cooling coil does not replace a complete ventilation system! The output of different cooling coil models has been specified in the table below:

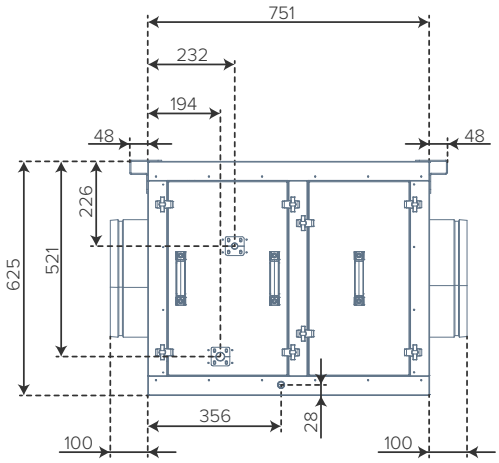
| | Cooling Capacity (kW) | Liquid Inlet/Outlet Temperature (°C) |
|---|---|---|
| TX CW 350 Duct Cooling Coil | 5,66 | 7/12 |
| TX DX 350 Duct Cooling Coil | 7,03 | |
| TX CW 500 Duct Cooling Coil | 9,72 | 7/12 |
| TX DX 500 Duct Cooling Coil | 10,37 | |
| TX CW 900 Duct Cooling Coil | 16,41 | 7/12 |
| TX DX 900 Duct Cooling Coil | 16,99 | |
| TX CW 1300 Duct Cooling Coil | 24,83 | 7/12 |
| TX DX 1300 Duct Cooling Coil | 26,65 | |
| TX CW 1800 Duct Cooling Coil | 35,47 | 7/12 |
| TX DX 1800 Duct Cooling Coil | 38,27 | |

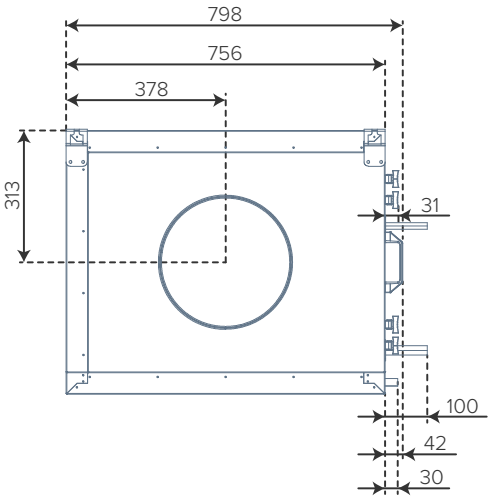


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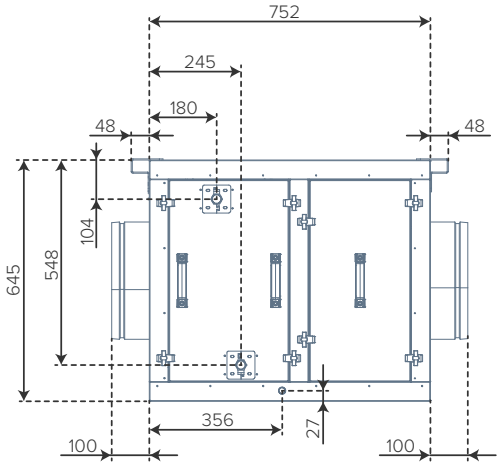
# DIMENSIONS

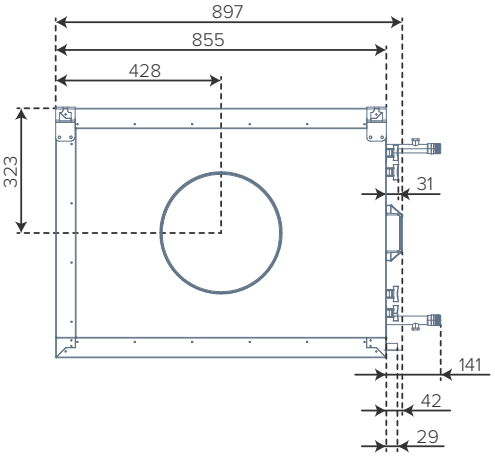
## TX 350 cooling coil



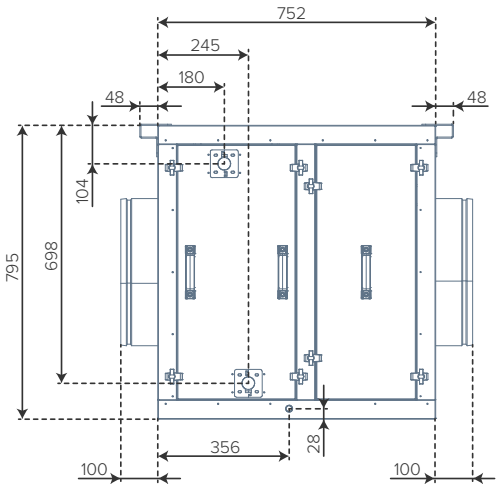



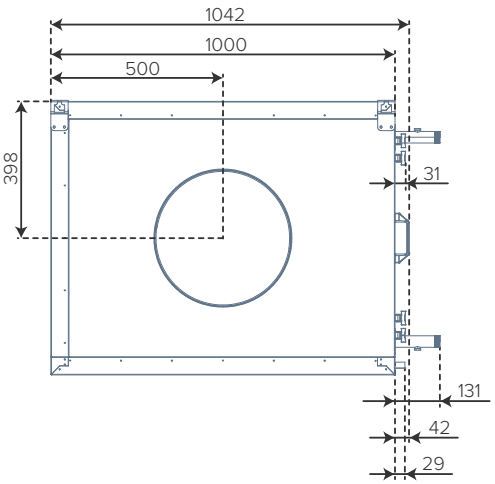

## TX 500 cooling coil



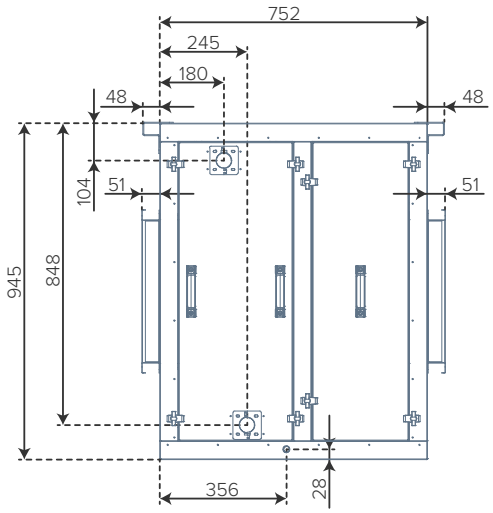



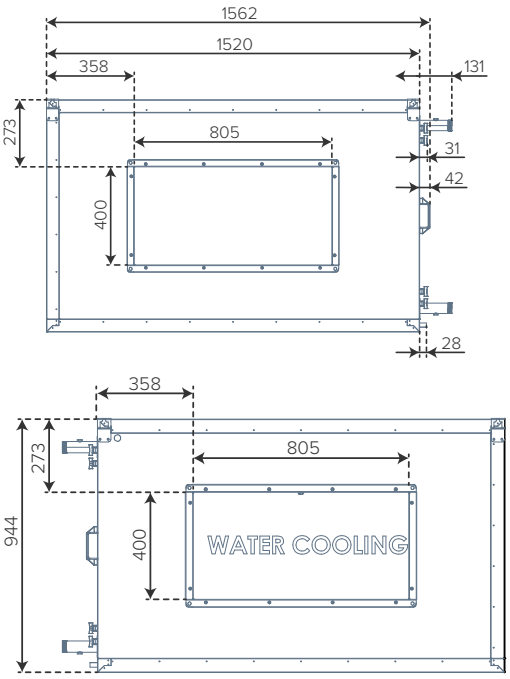

## TX 900 cooling coil



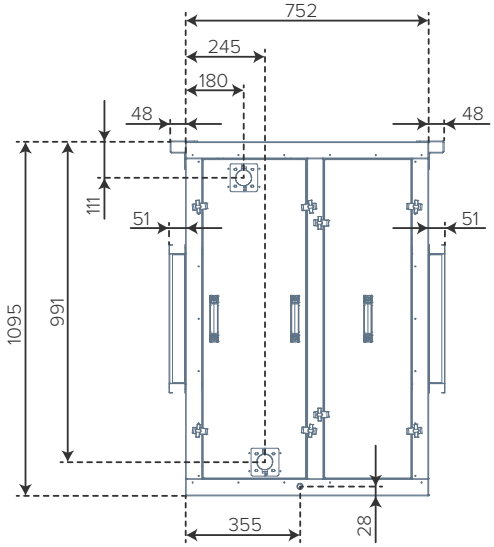



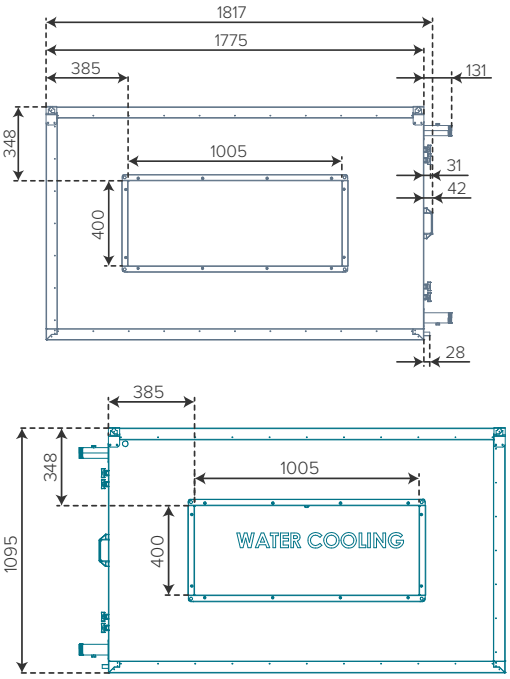
## TX 1300 cooling coil




## TX 1800 cooling coil






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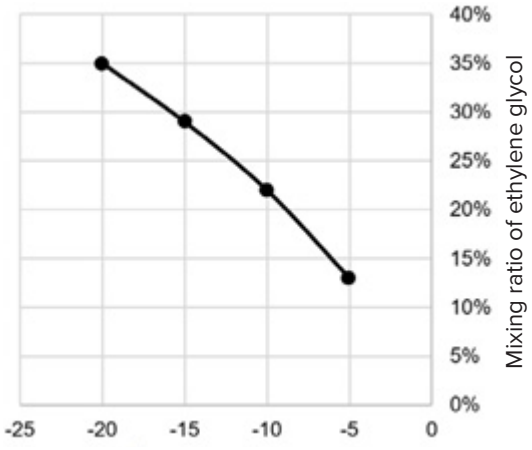
# MECHANICAL ASSEMBLY

**DANGER**
Mortal danger caused by an electric shock!

The Vallox unit must be installed and connected by experienced professionals only. The person carrying out electrical connection work must have an appropriate qualification and sufficient experience of the applicable safety regulations and other generally recognised safety and occupational health regulations. They must also be authorised to carry out work on the unit.

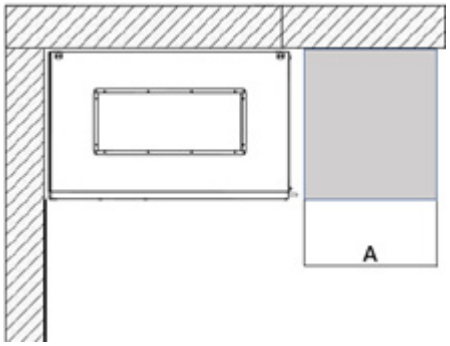
The ducts behind the cooling grille must be insulated. The supply and return pipes must be insulated.

If the water temperature drops below zero, the freezing point of water may be lowered by mixing it with ethylene glycol. See the mixing ratio of ethylene glycol in the figure below.




## Assembly area

A: Minimum distance required for Vallox Pureo TX cooling coil maintenance.

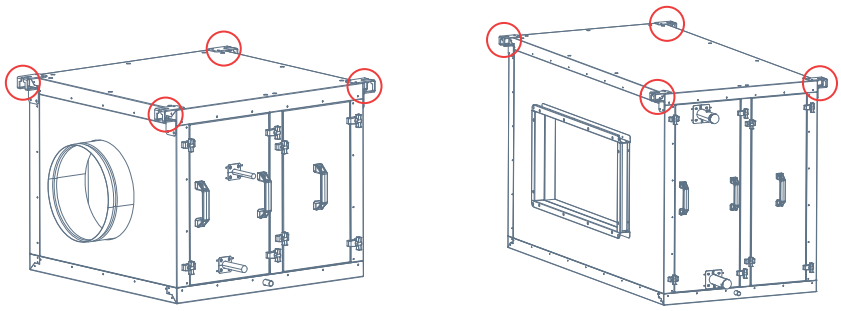



| | A (mm) |
|---|---|
| TX 350 Duct Cooling Coil | 750 |
| TX 500 Duct Cooling Coil | 850 |
| TX 900 Duct Cooling Coil | 1000 |
| TX 1300 Duct Cooling Coil | 1550 |
| TX 1800 Duct Cooling Coil | 1800 |

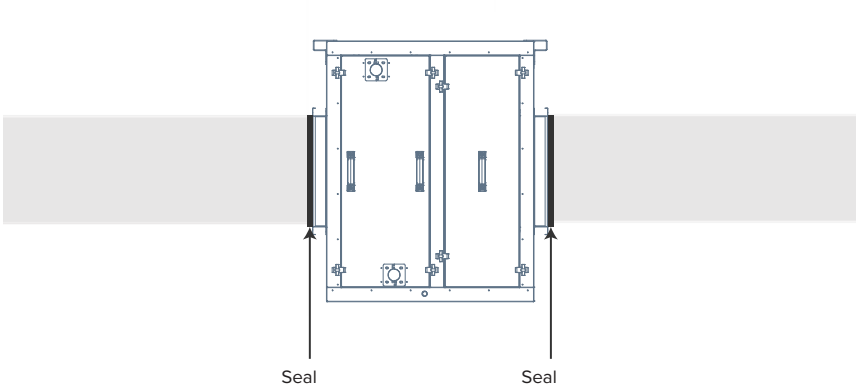
# INSTALLATION

- Check the delivery contents
- Install the cooling coil (check the correct air flow direction)
- Insulate the ducts
- Connect the supply and return pipes
- Build the plumbing for condensing water
- Bleed the system
- Check the system for any leaks
- Turn the unit on
- Check that the condensing water is drained correctly

The cooling coil has four support brackets for installation. Hang the cooling coil on these support brackets. Use rubber silencers.



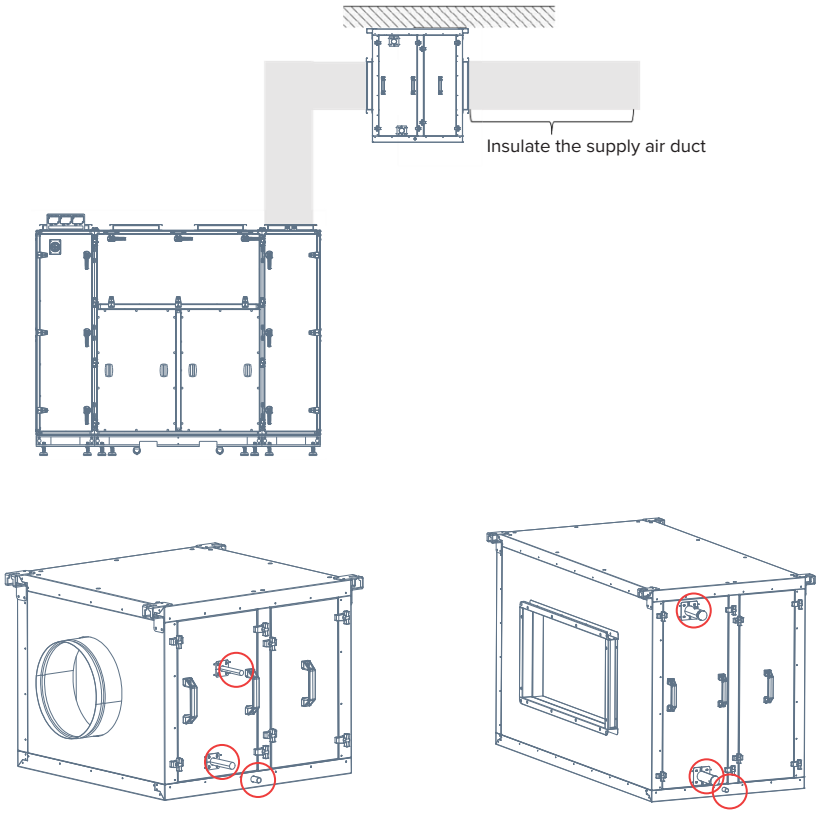
Connect the duct to the cooling coil's box coupling. Before connecting the duct, seal the connection to prevent air from leaking.






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The ducts behind the cooling coil must be insulated.




Before setup, make sure that:

- the coil has been installed the right side up
- the air flow direction is correct
- condensing water is drained in the right direction
- the water circulation system has been bled
- there are no leaks
- the control valves are open
- the cooling works
- condensing water is being drained

| | Water Inlet Diameter (") – (mm) | Water Outlet Diameter (") – (mm) | Condensate Pipe Diameter (") – (mm) |
|---|---|---|---|
| TX 350 Duct Cooling Coil | 3/4 – 33,2 | 3/4 – 33,2 | 3/8 – 17,2 |
| TX 500 Duct Cooling Coil | 3/4 – 26.9 | 3/4 – 26.9 | 3/8 – 17.2 |
| TX 900 Duct Cooling Coil | 1 – 33.2 | 1 – 33.2 | 3/8 – 17.2 |
| TX 1300 Duct Cooling Coil | 1 1/4 – 42.2 | 1 1/4 – 42.2 | 3/8 – 17.2 |
| TX 1800 Duct Cooling Coil | 1 1/2 – 48.3 | 1 1/2 – 48.3 | 3/8 – 17.2 |

# SERVICE AND MAINTENANCE

Any cleaning and maintenance work must be carried out by an electrician.

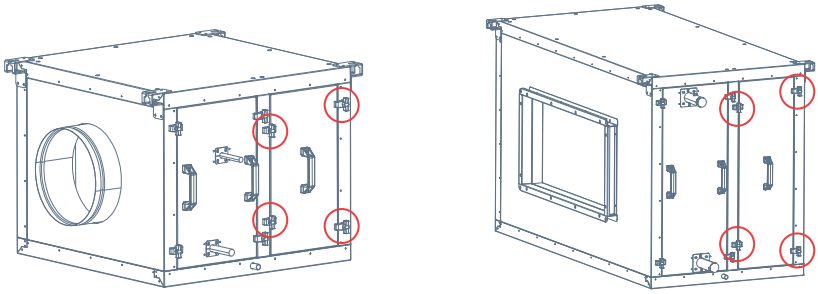
**DANGER**
Mortal danger!

The Vallox unit must be fully isolated from the mains before any servicing and maintenance is carried out! Danger caused by electric shock, moving parts (fan) and hot surfaces (additional heating grilles sold as accessories)!

## Condensate tray

The condensate tray must be cleaned every six months.

- Loosen the knurled-head screws to remove the maintenance hatch

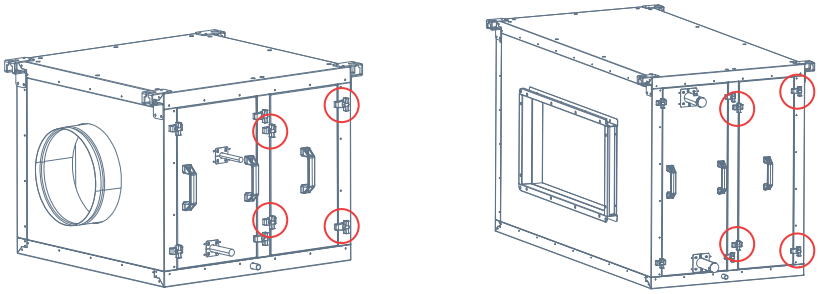


- If necessary, wipe the condensate tray clean with a cloth.

## Water heater

It is recommended the cooling coil be checked for dirt every six months. The cooling coil should be checked regularly for dirt and dust. If the cooling coil is dirty or dusty, you can wipe it with water. Use water and household cleaning agents for cleaning.  Do not bend the plates! When cleaning the unit, make sure to not damage it mechanically or chemically.

- Loosen the knurled-head screws to remove the maintenance hatch.



- If necessary, wipe the coil clean with a cloth.



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