

# VALLOX PUREO

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Breath of fresh air for premises



**VALLOX**  
HOME *of* FRESH AIR

# AIR HANDLING UNITS

for all types of premises

# VALLOX Pureo

The Vallox Pureo range consists of three different product series. The differences are related to the location of the duct outlets and the heat recovery method, for instance.

## The product range includes 3 product series

The Vallox Pureo range consists of three different product series:

- Vallox Pureo SX
- Vallox Pureo TX
- Vallox Pureo SR

In SX series units the duct outlets are on the sides and in TX series units they are at the top. The units in both SX and TX series have an efficient plate heat exchanger. In SR series units the duct outlets are on the sides and the heat exchanger rotates.

All units have an efficient heat recovery and a post-heating liquid radiator as a standard feature. Units with a plate heat exchanger also include segment defrosting and bypass dampers with actuators.

## Designed for Finnish conditions

All Vallox Pureo air handling units are designed for the harsh Finnish climate conditions.

The units are suitable for offices, business premises, production and storage spaces, public premises including day care centres and schools, as well as sports and leisure facilities. SX units are also a good solution for centralised ventilation in apartment blocks.

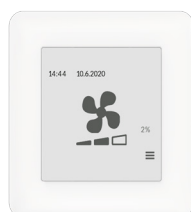
Thanks to their elegant appearance, the units can be installed in a visible location.

## A structure that complies with requirements

Vallox Pureo air handling units comply with all classifications required

in Finland, and their structure has been designed to comply with the VDI 6022 hygiene standard. The units have excellent soundproofing and cold insulation properties: the airtightness (L1) and strength (D1) of the envelope are top-of-the-line. Thanks to the airtight envelopes, Vallox Pureo units are also quiet, which means that the units do not cause any disturbing noise when installed close to work or social spaces.

Also the thermal insulation capacity of the Vallox Pureo units is the best found on the market: the thermal insulation class is T2 and the thermal bridge class is TB2. The bypass-flow class of the filters is F9, which is the highest possible.



Vallox Pureo controller

The control method can be selected to suit the application.

Automation can be increased by adding sensors.

Thanks to their modular design, also the larger Vallox Pureo units can be easily transported to work sites. Modules are joined together at installation.

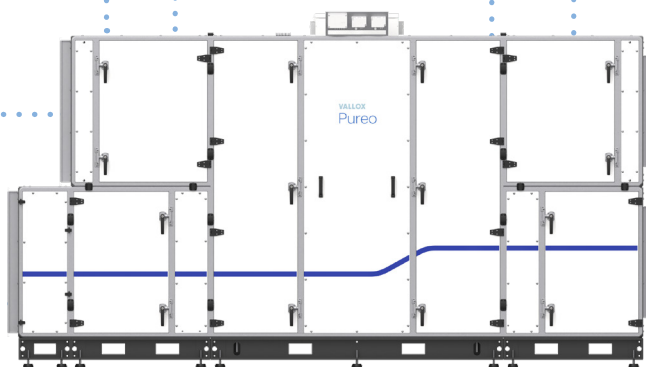
Top-of-the-line envelope airtightness (L1) and strength (D1).

Excellent thermal insulation class (T2) and thermal bridge class (TB2).

The units can be serviced from either side.

Can be connected to all existing house automation systems.

Units are delivered and technical support is provided from Loimaa.



Vallox Pureo SX 1500

## Diverse control options

The control options of the unit can be selected based on the intended location and use. The units are delivered either as a terminal block unit without automatics or equipped with automated electrical equipment and controls. The units can be connected to a controller that includes a Vallox Pureo controller with a touch screen. The units can also be connected to existing house automation systems. Automation can be enhanced by adding presence sensors and humidity, CO<sub>2</sub>, and VOC sensors.

## The unit can be accessed from both sides, which makes it is easy to install and maintain.

Vallox Pureo units have maintenance hatches on both long sides, which means that they can be serviced from either side. This means that the handedness of the unit does not need to be decided in advance and there is more choice when choosing the installation location.

The smallest Vallox Pureo units are delivered as complete units, while the larger ones are delivered as modular components, which makes their handling easy on site.

## Suitable for different ventilation needs

The needs for different applications and users can be met also in demanding conditions by changing the equipment of the units. There is a wide selection of accessories available for Vallox Pureo air handling units. Configuration is easy with the cloud based Vallox MySelecta Pureo selection software that produces component lists with zero effort.

## Support and spare parts are provided quickly and reliably from Loimaa.

Spare part and technical support service are located at the Vallox Loimaa factory. You will also receive the support of our professional setup and service network that operates in various locations all over Finland.



More information:  
[vallox.com/vallox-pureo](http://vallox.com/vallox-pureo)






### Standard equipment

- EC fans
- Automation centre with terminal blocks
- Bag filters
- Post-heating radiator (liquid)
- Sectional defrosting and bypass dampers with actuators (TX series, SX series)
- Internal sensors (NTC10, PT1000)
- Adjustable base
- Safety switch
- Dampers and actuators (SR series, SX series)

### Accessories

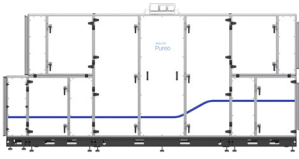


- Electrical equipment and controls
- Air flow meters
- 5 channel differential pressure transmitter
- Duct pressure transmitter
- Silencer
- Cooling coil
- Silencer and cooling coil module (SR series)
- Spare filters
- Heater group
- Transmitters (RH, CO<sub>2</sub>, VOC)
- Electrical pre-heating or post-heating radiator
- Dampers and actuators (TX series)

# SPECIFICATIONS

	Vallox Pureo TX 350	Vallox Pureo TX 500	Vallox Pureo TX 900
All models are equipped with energy saving EC fans  Standard feature ■ Accessory ▲			
Duct outlet orientation	up	up	up
Heat recovery type	Plate heat exchanger	Plate heat exchanger	Plate heat exchanger
Rated air flow (200 Pa) l/s	350	500	900
Width mm	1641	1852	2270
Height mm	1528	1662	2123
Depth mm	772	870	890
Weight kg	275	403	532
Number of duct outlets	4	4	4
Duct outlet size mm	ø 315	ø 315	ø 400
Equipment			
EC fans	■	■	■
Safety switch	■	■	■
Water circulation post-heater	■	■	■
Automation centre with terminal blocks	■	■	■
Bag filters		■	■
Cassette filters	■		
Internal sensors (NTC10)	■	■	■
Exhaust and fresh air dampers with actuators	separate delivery	separate delivery	separate delivery
Electrical post-heater	▲	▲	▲
Cooling coil, water circulation duct installation	▲	▲	▲
Cooling coil DX	▲	▲	▲
Silencer	▲	▲	▲
Controller package	▲	▲	▲
Pump group	▲	▲	▲
CO <sub>2</sub> /VOC/RH% sensors	▲	▲	▲



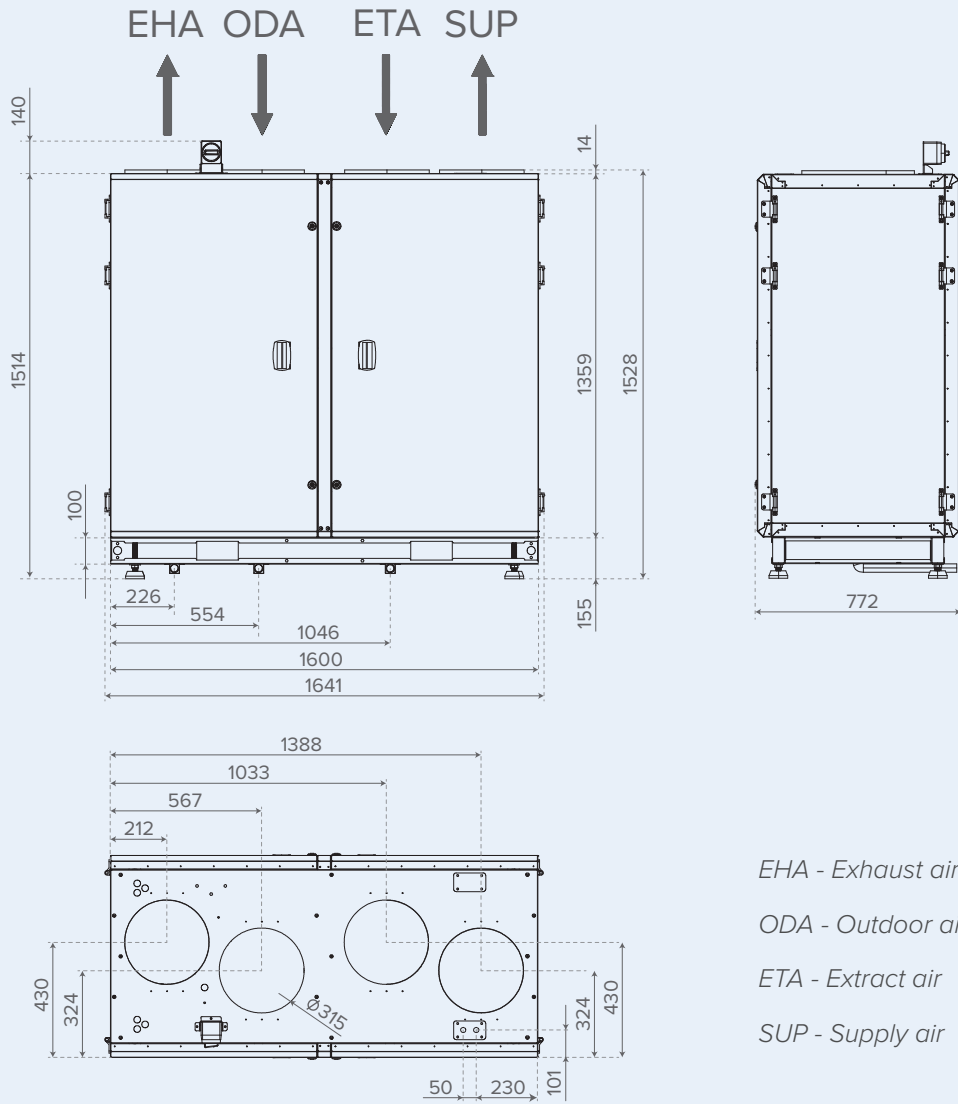
# SPECIFICATIONS

	Vallox Pureo SX 3000	Vallox Pureo SR 550	Vallox Pureo SR 1000
<p>All models are equipped with energy saving EC fans</p> <p>Standard feature <span style="color: blue;">■</span></p> <p>Accessory <span style="color: green;">▲</span></p>			
Duct outlet orientation	side	side	side
Heat recovery type	Plate heat exchanger	Rotating heat exchanger	Rotating heat exchanger
Rated air flow (200 Pa) l/s	3000	550	1000
Width mm	4797	2445	2445
Height mm	2235	1015	1320
Depth mm	2100	795	1200
Weight kg	2195	726	867
Number of duct outlets	4	4	4
Duct outlet size mm	1881 x 955	661 x 950	966 x 650
Equipment			
EC fans	<span style="color: blue;">■</span>	<span style="color: blue;">■</span>	<span style="color: blue;">■</span>
Safety switch	<span style="color: blue;">■</span>	<span style="color: blue;">■</span>	<span style="color: blue;">■</span>
Water circulation post-heater	<span style="color: blue;">■</span>	<span style="color: blue;">■</span>	<span style="color: blue;">■</span>
Automation centre with terminal blocks	<span style="color: blue;">■</span>	<span style="color: blue;">■</span>	<span style="color: blue;">■</span>
Bag filters	<span style="color: blue;">■</span>	<span style="color: blue;">■</span>	<span style="color: blue;">■</span>
Cassette filters			
Internal sensors (NTC10)	<span style="color: blue;">■</span>	<span style="color: blue;">■</span>	<span style="color: blue;">■</span>
Exhaust and fresh air dampers with actuators	integrated	integrated	integrated
Electrical post-heater			
Cooling coil, water circulation duct installation	<span style="color: green;">▲</span>	<span style="color: green;">▲</span>	<span style="color: green;">▲</span>
Cooling coil DX	<span style="color: green;">▲</span>	<span style="color: green;">▲</span>	<span style="color: green;">▲</span>
Silencer	<span style="color: green;">▲</span>	<span style="color: green;">▲</span>	<span style="color: green;">▲</span>
Controller package	<span style="color: green;">▲</span>	<span style="color: green;">▲</span>	<span style="color: green;">▲</span>
Pump group	<span style="color: green;">▲</span>	<span style="color: green;">▲</span>	<span style="color: green;">▲</span>
CO <sub>2</sub> /VOC/RH% sensors	<span style="color: green;">▲</span>	<span style="color: green;">▲</span>	<span style="color: green;">▲</span>

Vallox Pureo SR 1500	Vallox Pureo SR 2000	Vallox Pureo SR 3000	Vallox Pureo SR 4500
			
side	side	side	side
Rotating heat exchanger	Rotating heat exchanger	Rotating heat exchanger	Rotating heat exchanger
1500	2000	3000	4500
2739	3033	3033	3033
1625	1930	2235	2845
1350	1600	1700	1850
1231	1479	1835	2826
4	4	4	4
1271 x 955	1576 x 955	1881 x 1260	2491 x 1565
■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■
integrated	integrated	integrated	integrated
▲	▲	▲	▲
▲	▲	▲	▲
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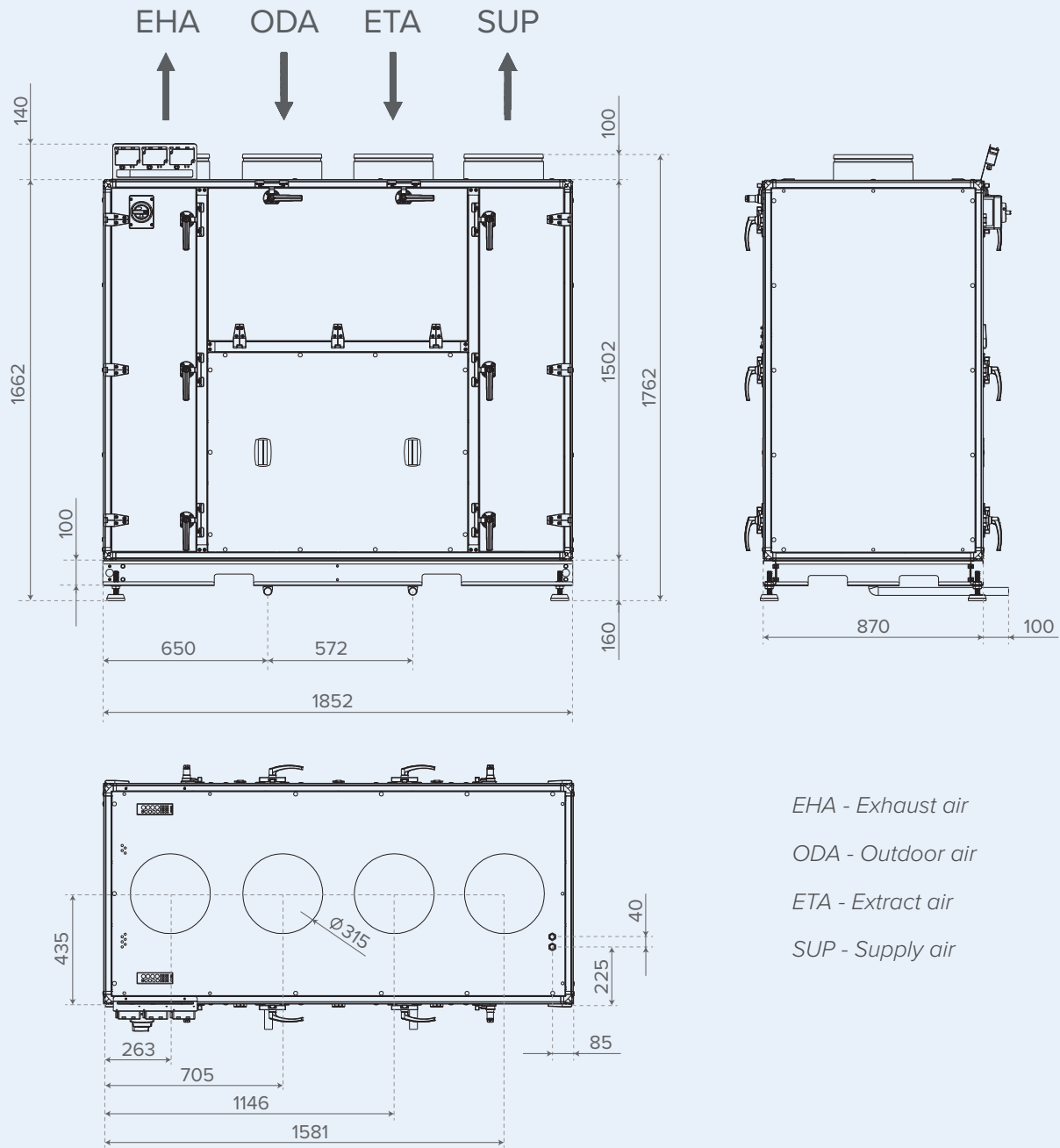
# DIMENSIONS AND DUCT OUTLETS

## VALLOX PUREO TX 350



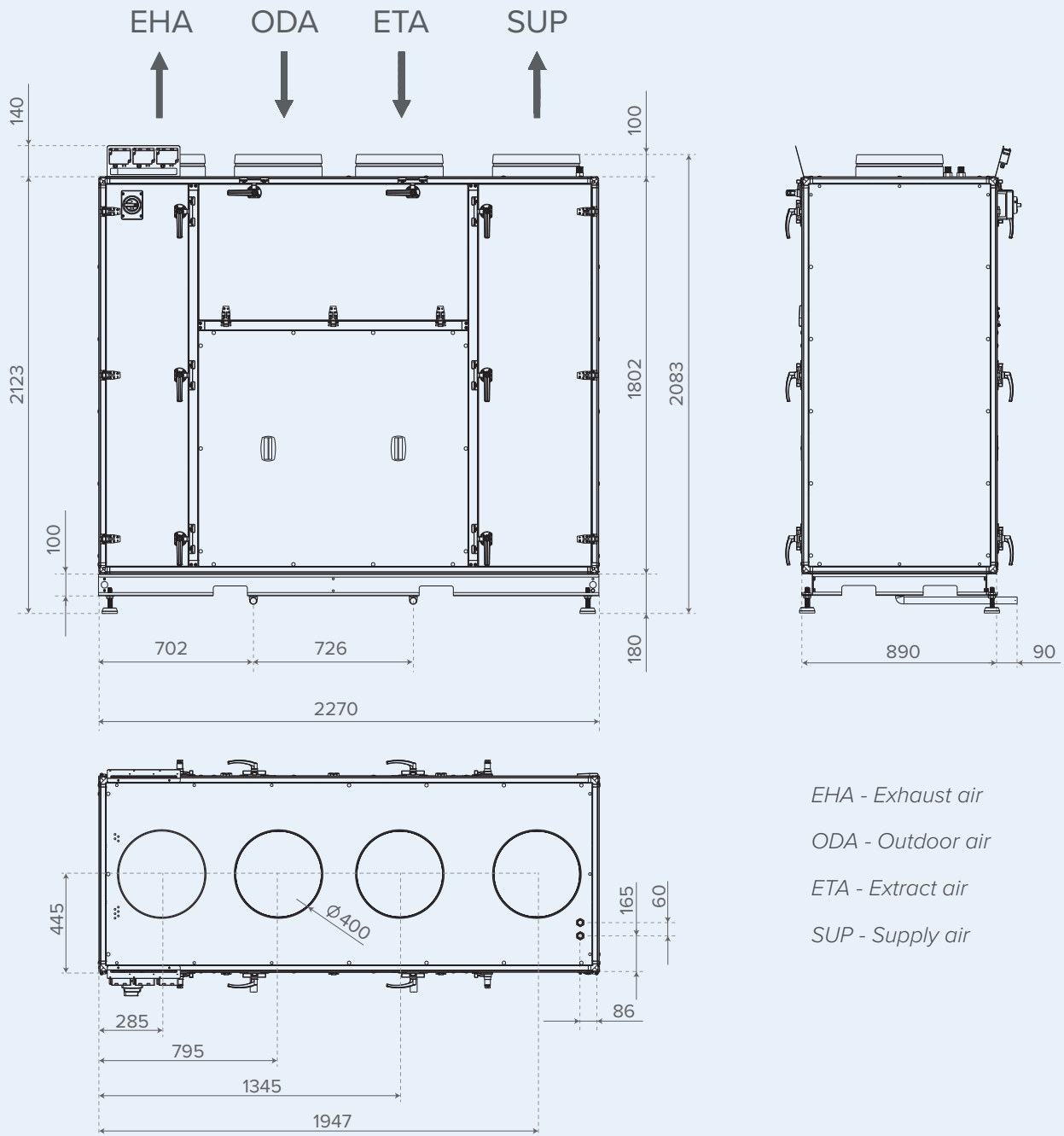
*EHA - Exhaust air*  
*ODA - Outdoor air*  
*ETA - Extract air*  
*SUP - Supply air*

# VALLOX PUREO TX 500



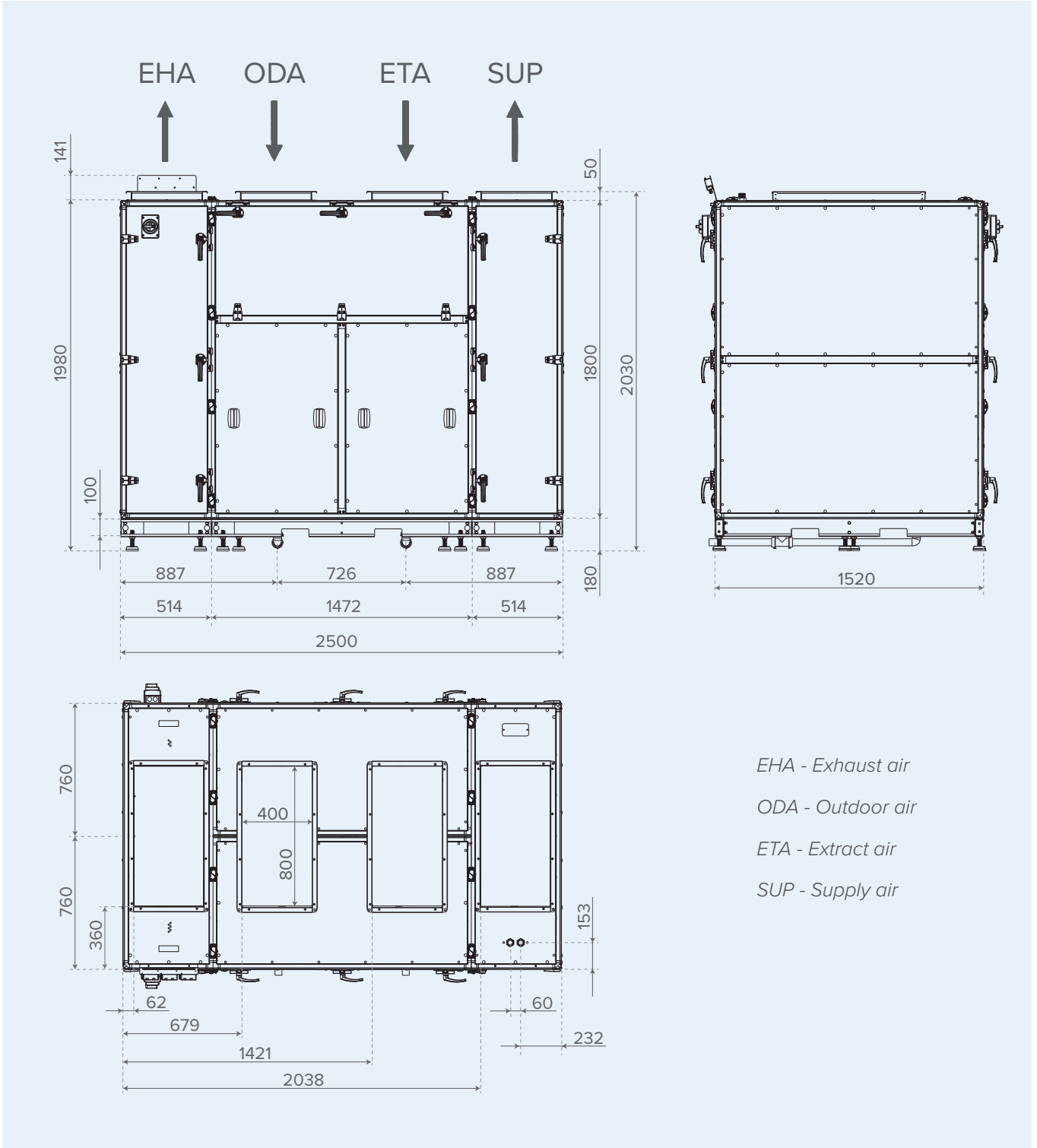
*EHA - Exhaust air*  
*ODA - Outdoor air*  
*ETA - Extract air*  
*SUP - Supply air*

# VALLOX PUREO TX 900



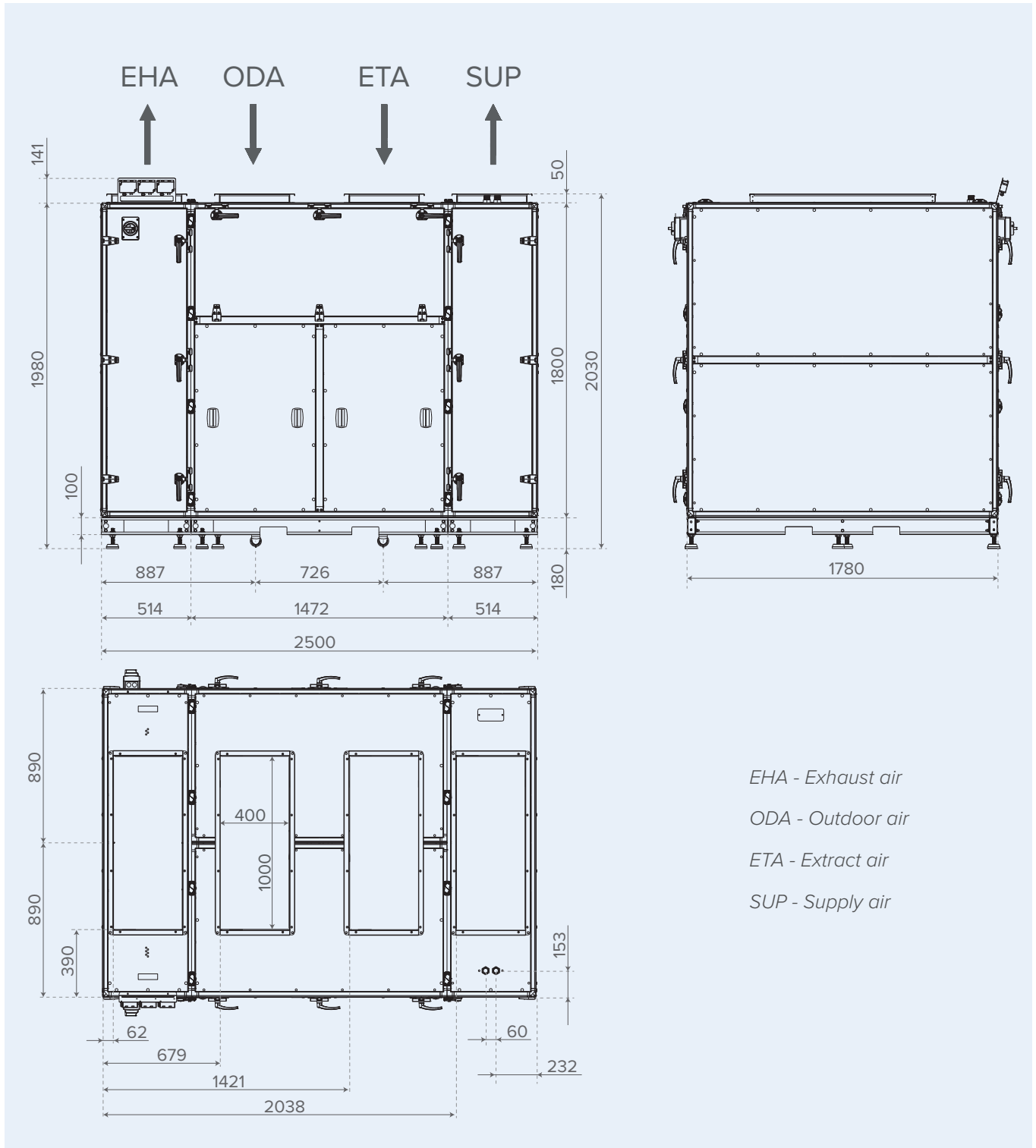
*EHA - Exhaust air*  
*ODA - Outdoor air*  
*ETA - Extract air*  
*SUP - Supply air*

# VALLOX PUREO TX 1300

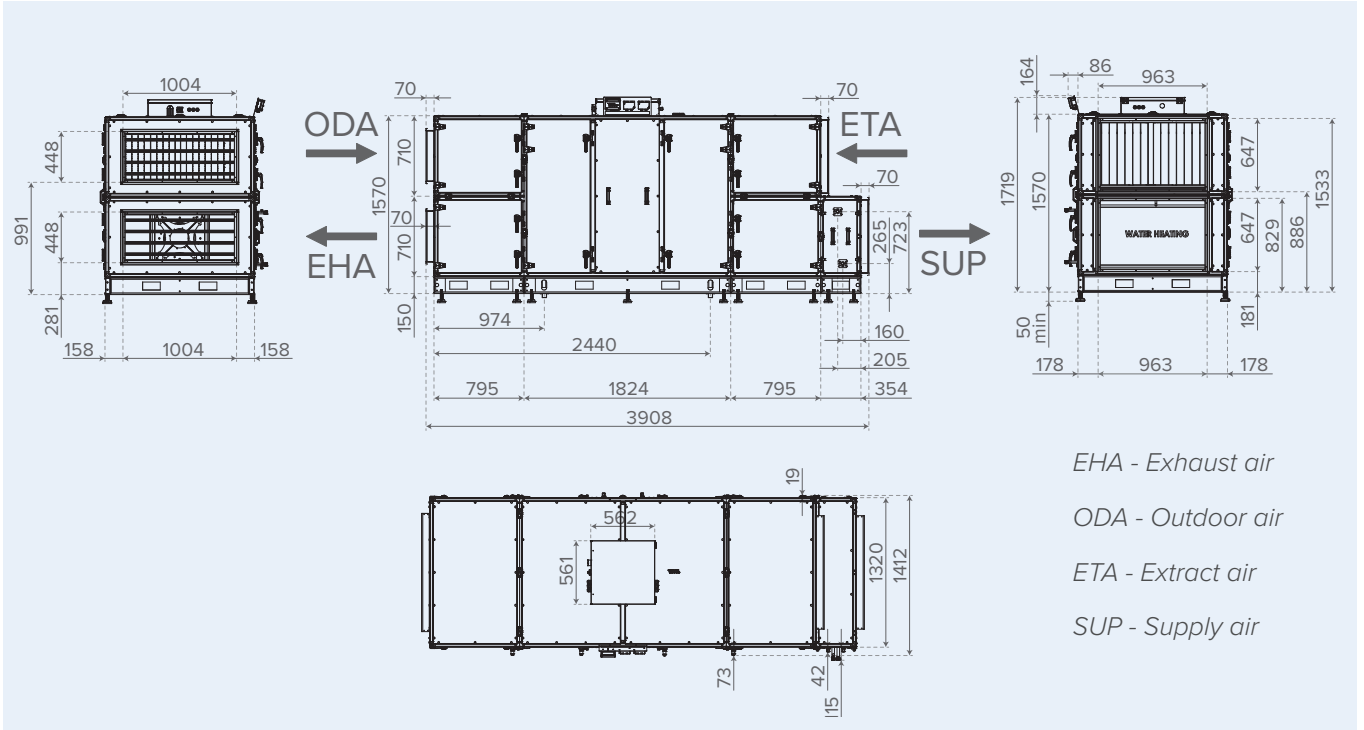


*EHA - Exhaust air*  
*ODA - Outdoor air*  
*ETA - Extract air*  
*SUP - Supply air*

# VALLOX PUREO TX 1800

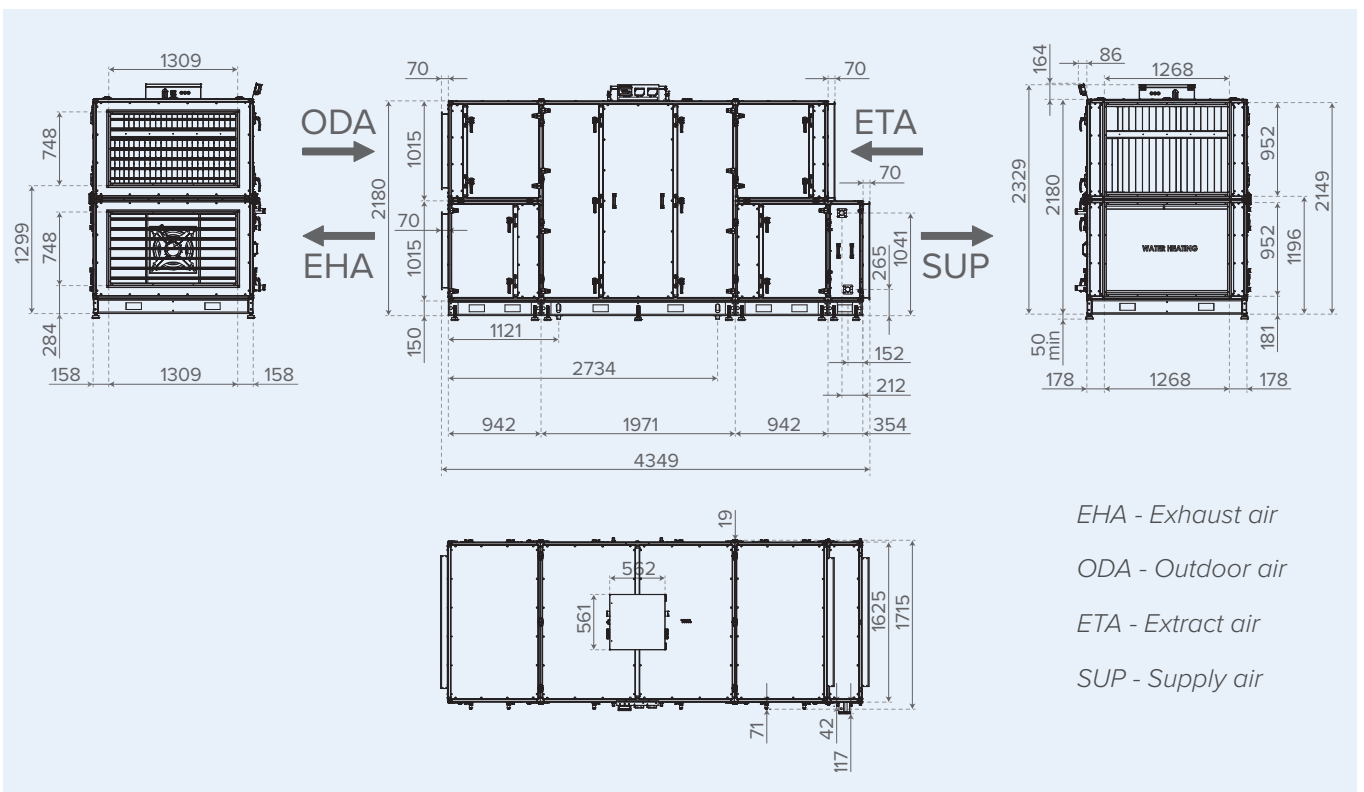


## VALLOX PUREO SX 1000



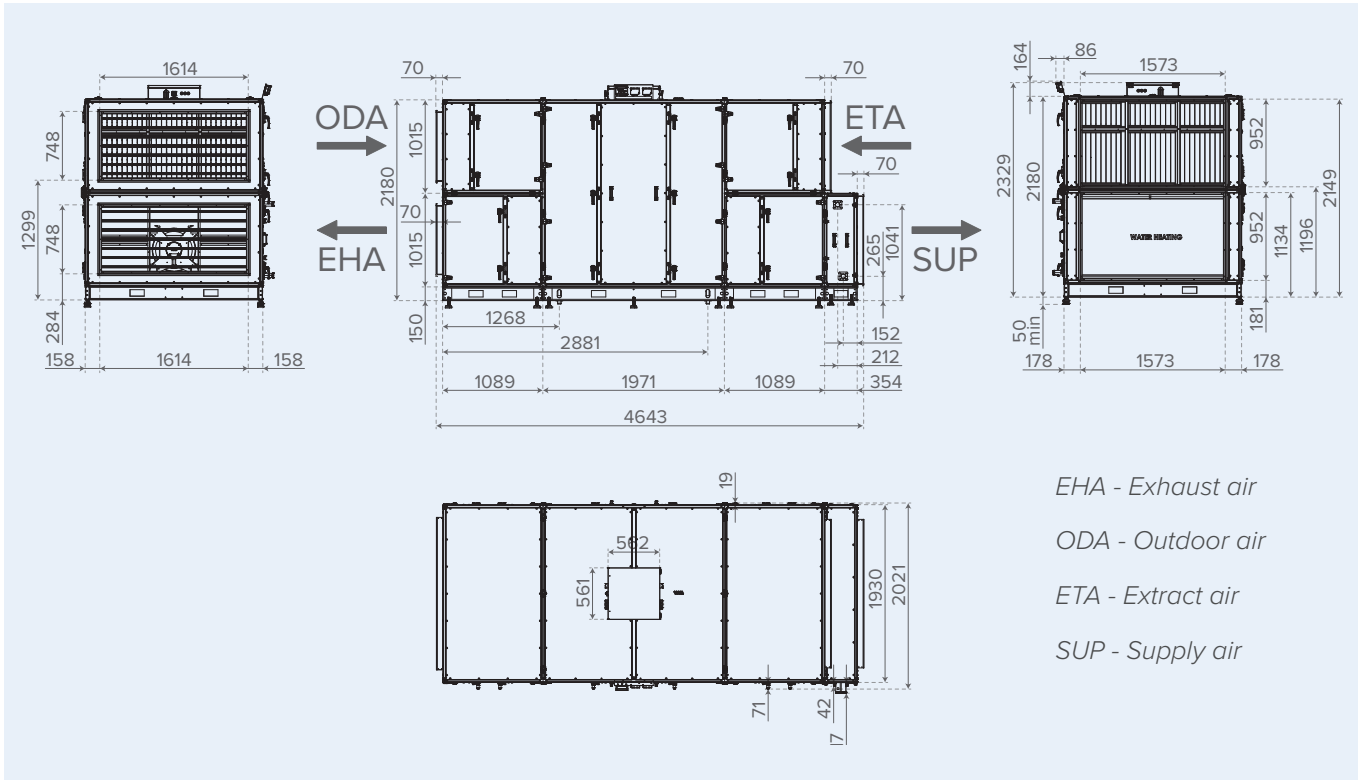
EHA - Exhaust air  
 ODA - Outdoor air  
 ETA - Extract air  
 SUP - Supply air

## VALLOX PUREO SX 1500

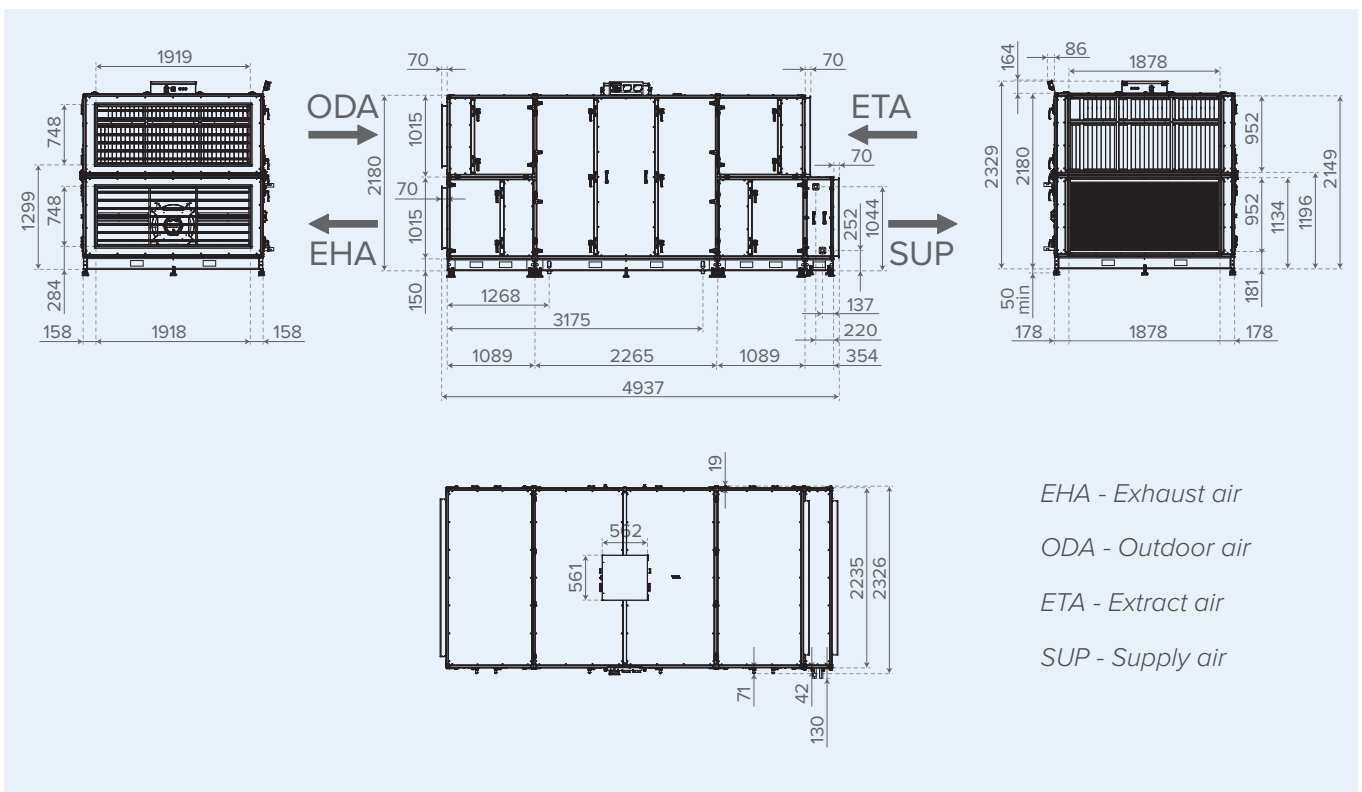


EHA - Exhaust air  
 ODA - Outdoor air  
 ETA - Extract air  
 SUP - Supply air

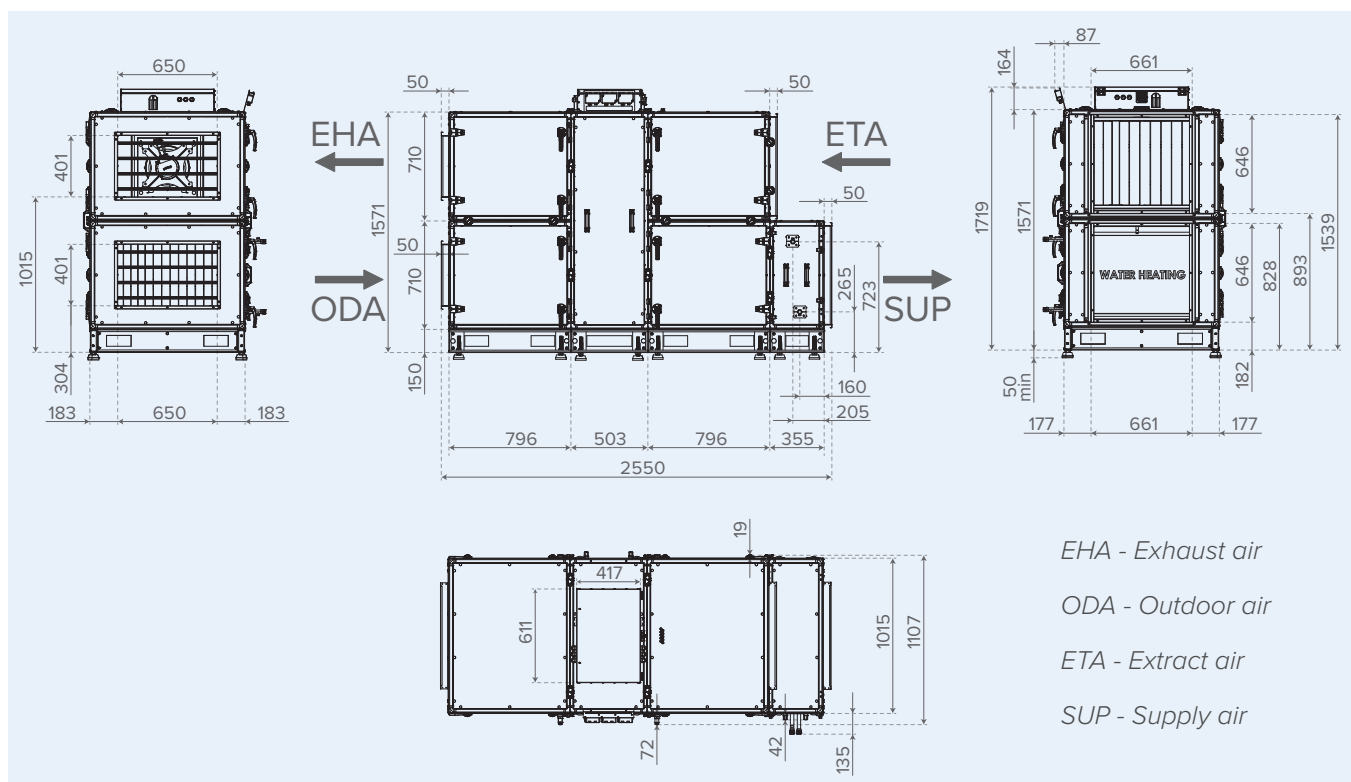
## VALLOX PUREO SX 2000



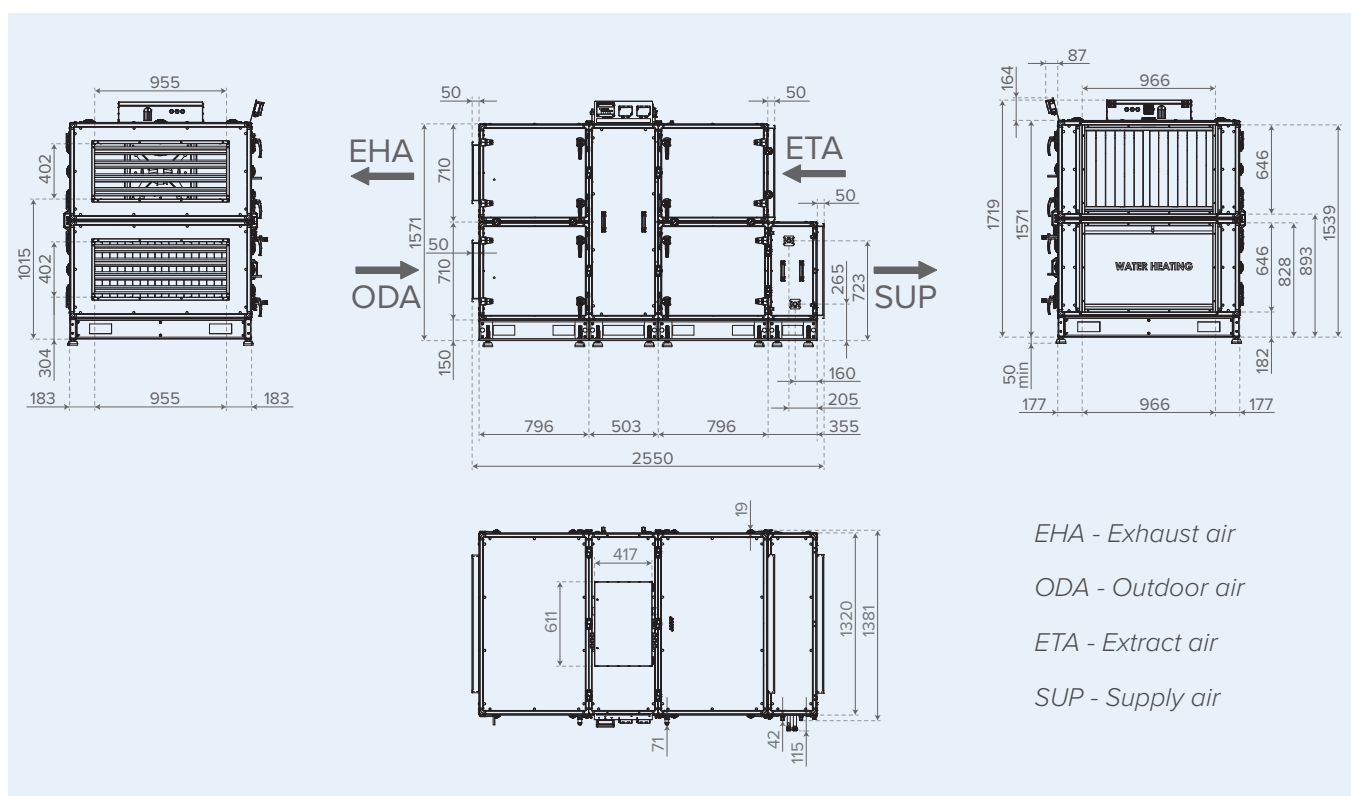
## VALLOX PUREO SX 3000



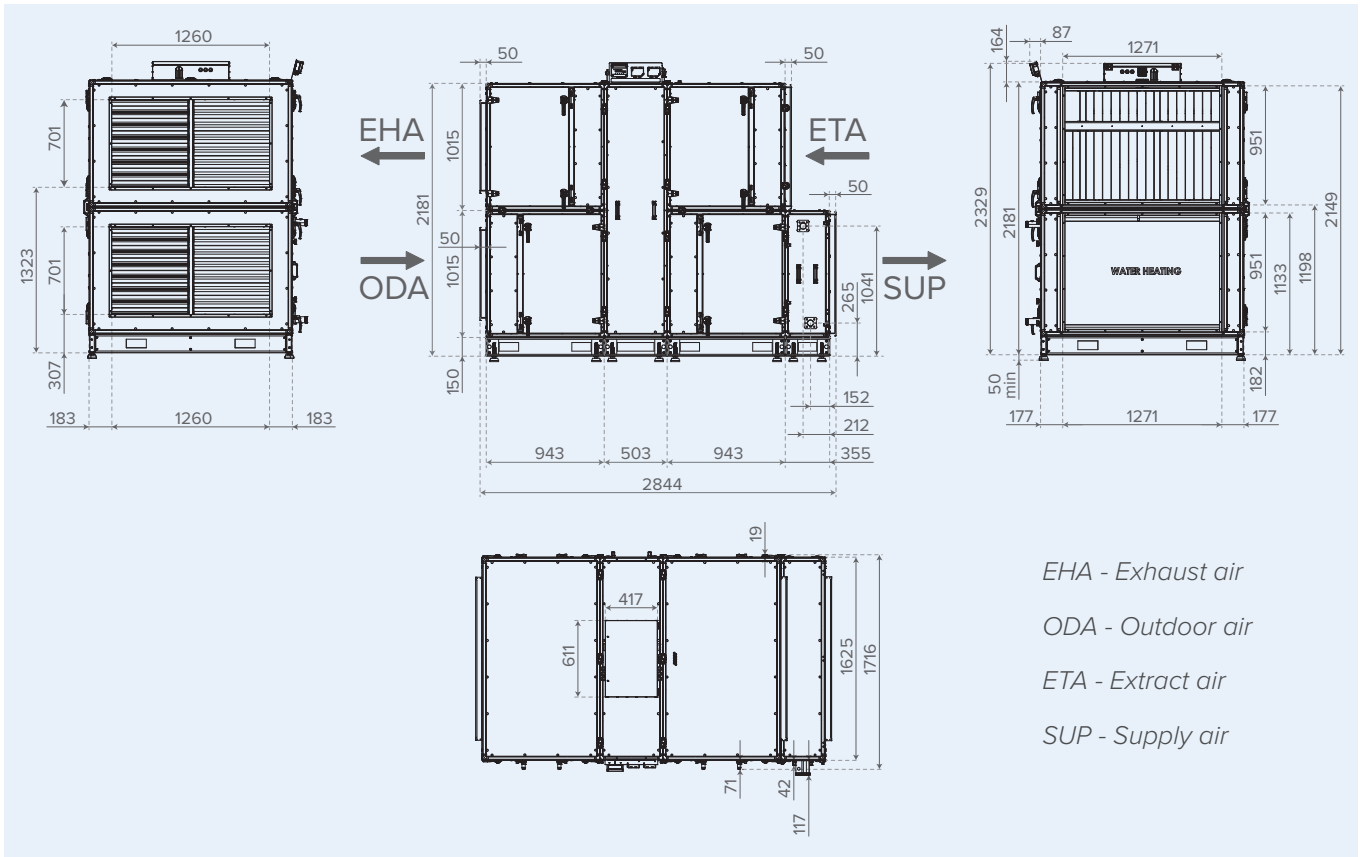
## VALLOX PUREO SR 550



## VALLOX PUREO SR 1000



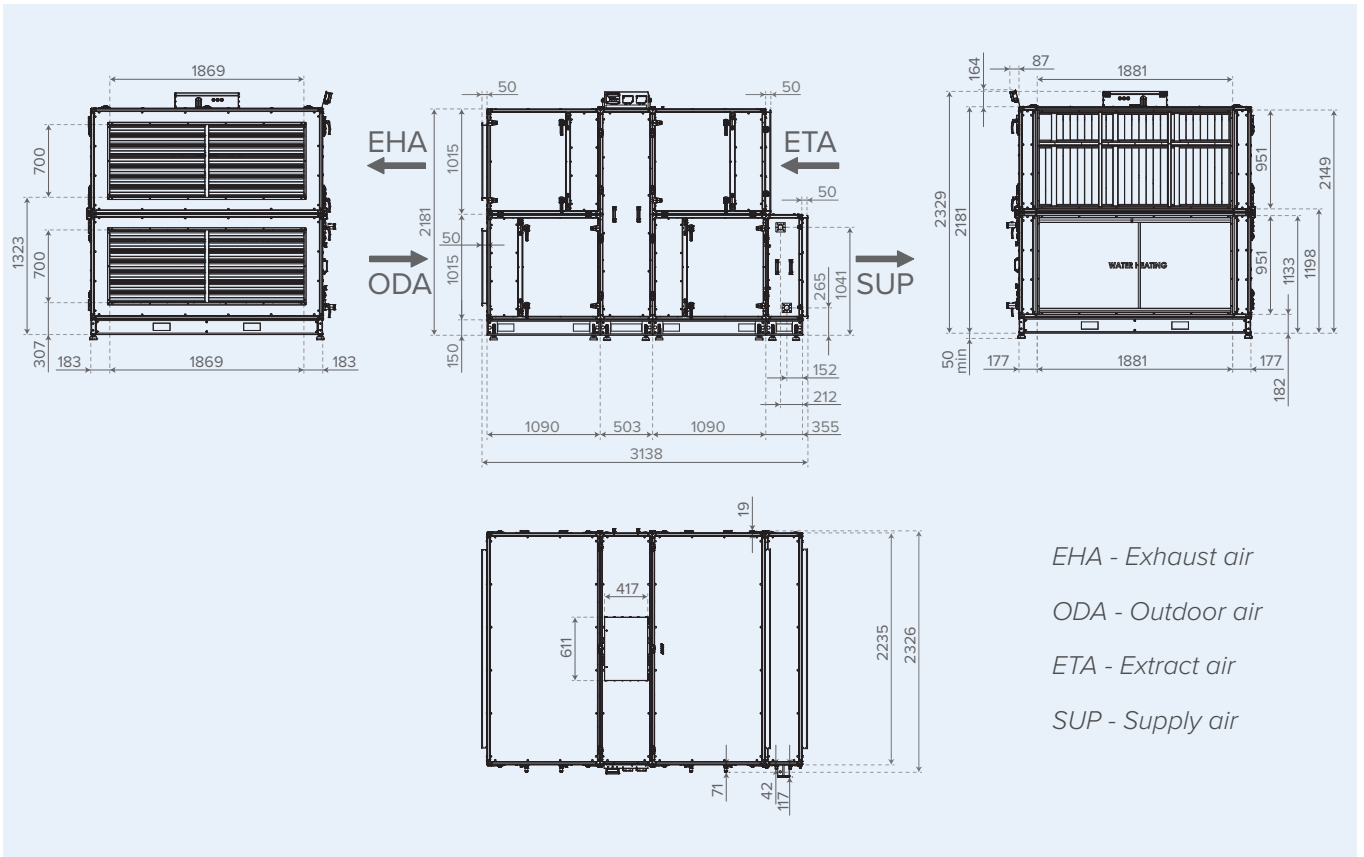
## VALLOX PUREO SR 1500



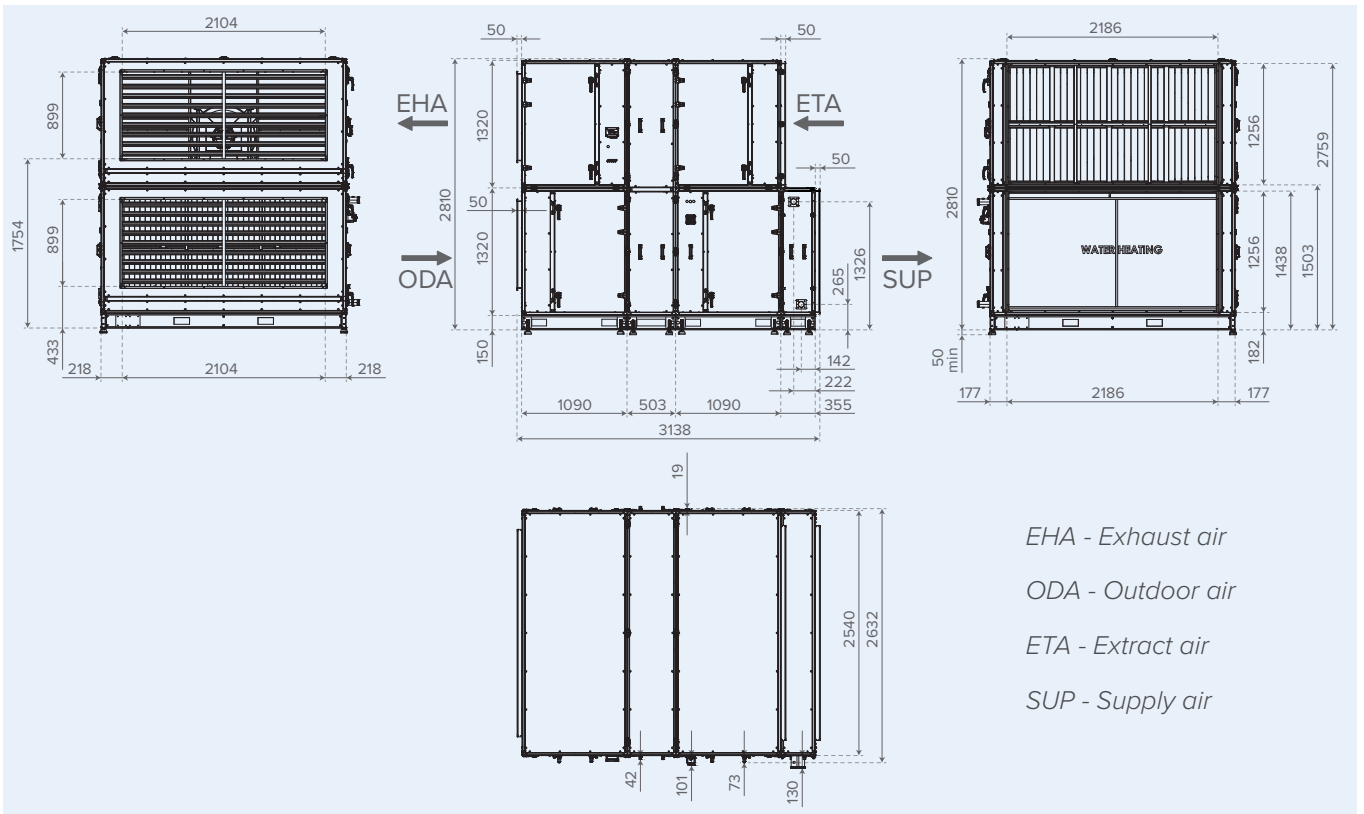
## VALLOX PUREO SR 2000



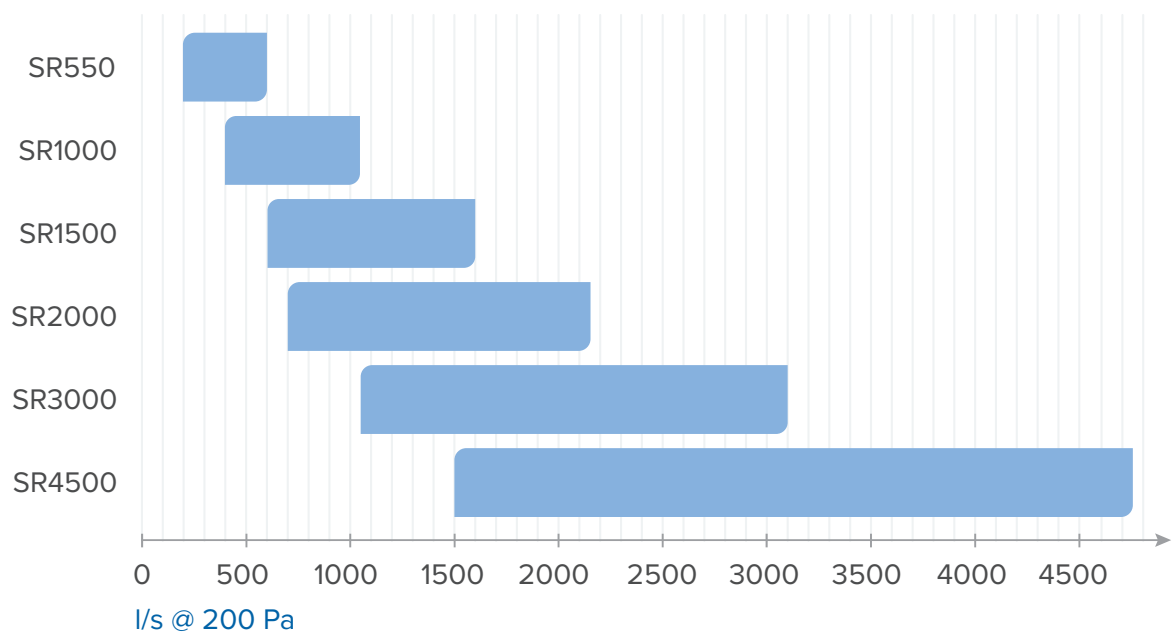
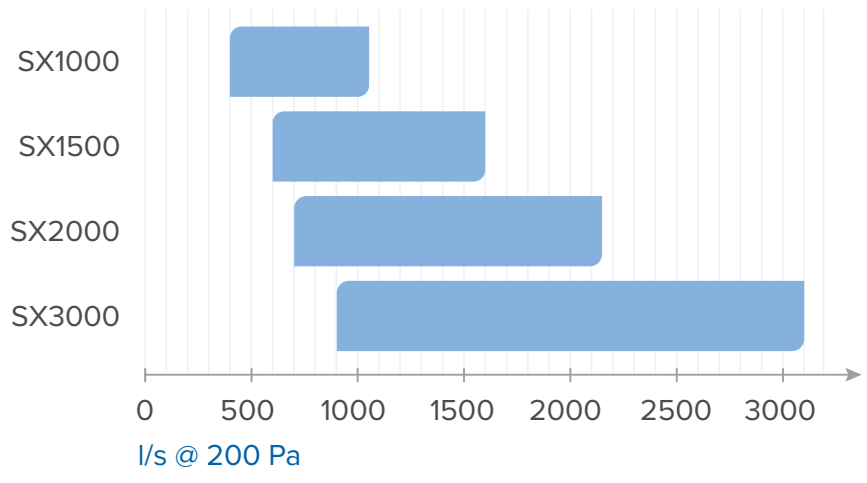
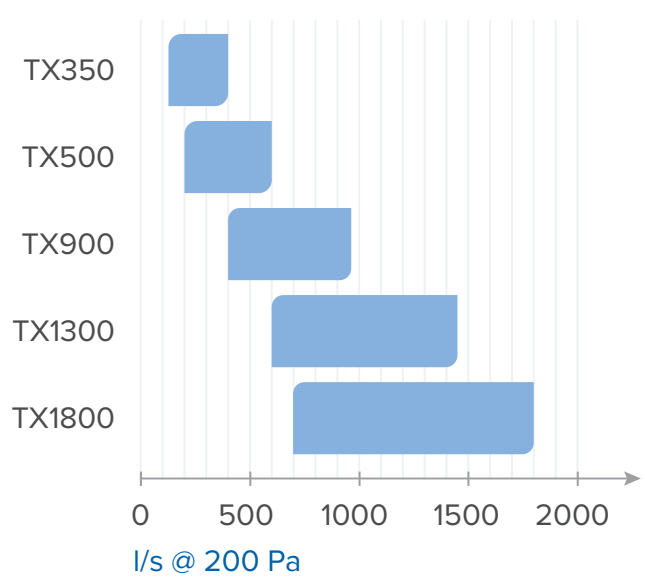
## VALLOX PUREO SR 3000



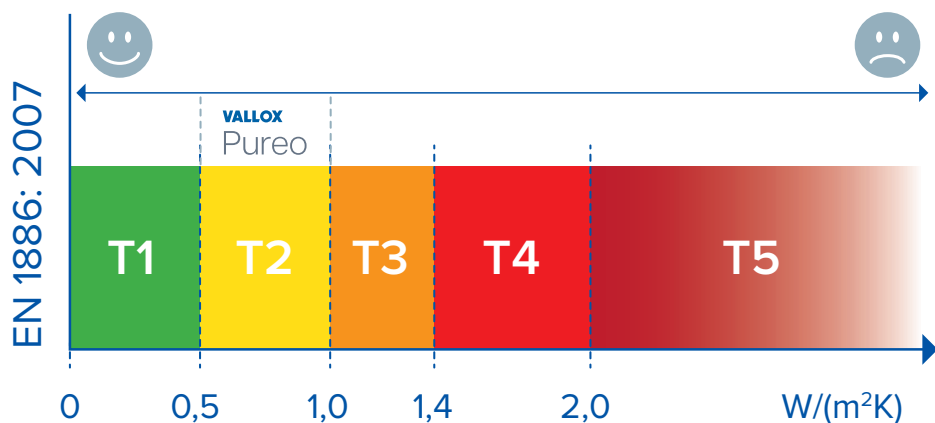
## VALLOX PUREO SR 4500



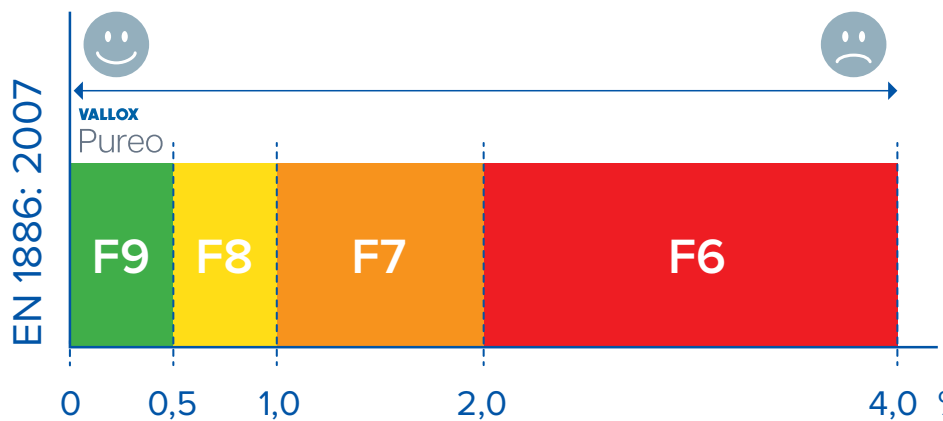
# AIR FLOW RANGES



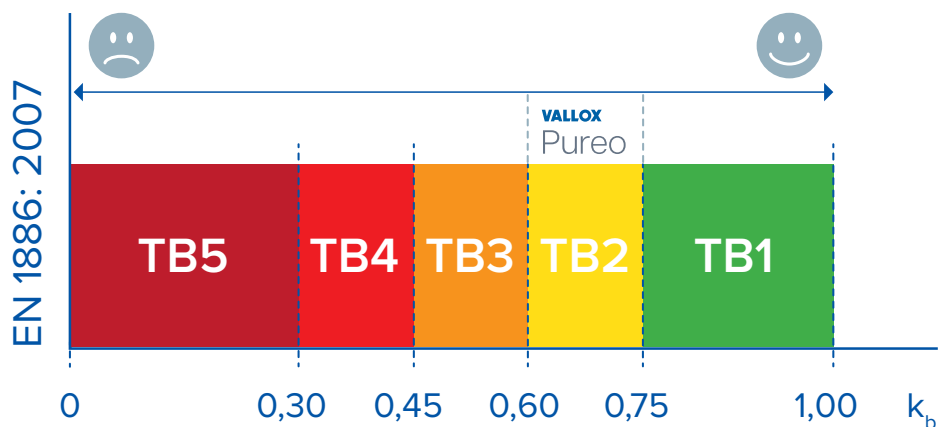
## THERMAL INSULATION CLASS



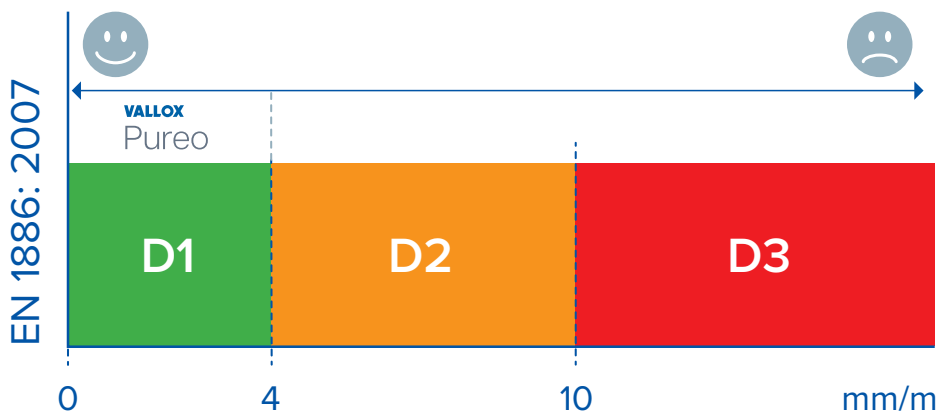
## FILTER BYPASS-FLOW CLASS



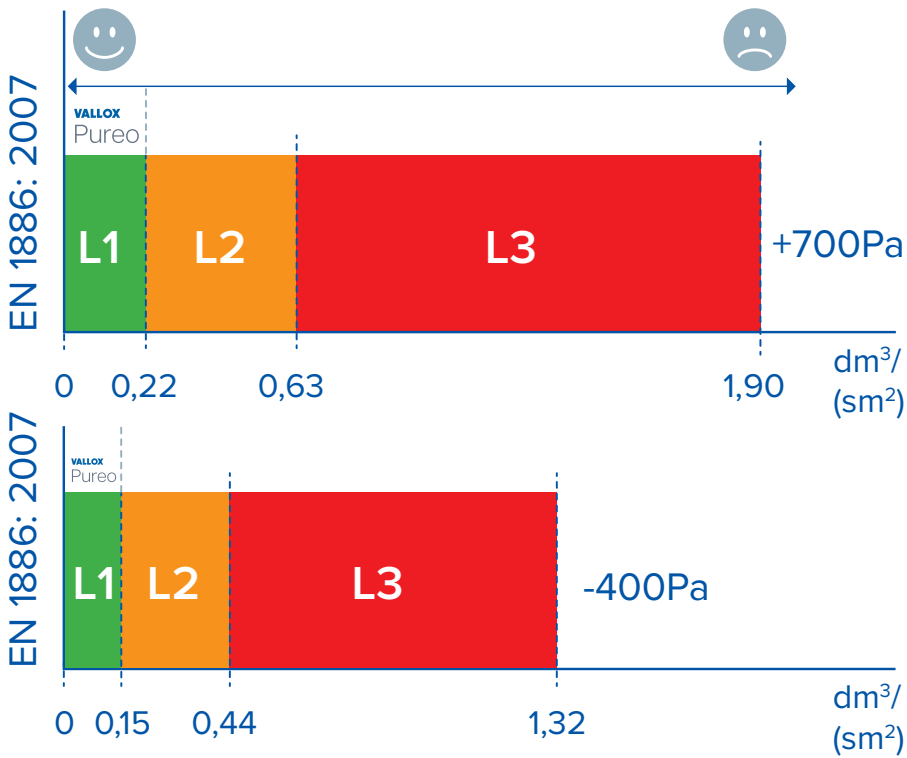
## THERMAL BRIDGE CLASS



## STRENGTH CLASS



## AIRTIGHTNESS CLASS



## MODEL-SPECIFIC MANUALS



Vallox Pureo TX



Vallox Pureo SX



Vallox Pureo SR

# PRODUCT PACKAGES

## VALLOX PUREO TX

Product name	Product number
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### Vallox Pureo TX 350

Terminal block unit package with water heater	3581250
Cooling package	3581350
Heater group	3582600
Electrical heater package	3583000

### Vallox Pureo TX 500

Terminal block unit package with water heater	3581300
Cooling package	3581400
Heater group	3582600
Electrical heater package	3583000

### Vallox Pureo TX 900

Terminal block unit package with water heater	3581500
Cooling package	3581600
Heater group	3582700
Electrical heater package	3583100

### Vallox Pureo TX 1300

Terminal block unit package with water heater	3581700
Cooling package	3581800
Heater group	3582800
Electrical heater package	3583200

### Vallox Pureo TX 1800

Terminal block unit package with water heater	3581900
Cooling package	3582000
Heater group	3582900
Electrical heater package	3583300

### Vallox Pureo TX 350–1800

Controller package	3582100
Controller package for duct pressure control	3582200

## VALLOX PUREO SX

Product name	Product number
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### Vallox Pureo SX 1000

Terminal block unit package with water heater	3581910
Cooling package	3581402
Heater group	3582800
Silencer	3611060

### Vallox Pureo SX 1500

Terminal block unit package with water heater	3581920
Cooling package	3581403
Heater group	3582900
Silencer	3611070

### Vallox Pureo SX 2000

Terminal block unit package with water heater	3581930
Cooling package	3581404
Heater group	3652800
Silencer	3611080

### Vallox Pureo SX 3000

Terminal block unit package with water heater	3581940
Cooling package	3581405
Heater group	3652810
Silencer	3611090

### Vallox Pureo SX 1000–3000

Controller package	3582100
Controller package for duct pressure control	3582200

## VALLOX PUREO SR

Product name	Product number
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**Vallox Pureo SR 550**

Terminal block unit package with water heater	3581950
Cooling package	3581401
Heater group	3582700
Silencer	3611060

**Vallox Pureo SR 1000**

Terminal block unit package with water heater	3581910
Cooling package	3581402
Heater group	3582700
Silencer	3611060

**Vallox Pureo SR 1500**

Terminal block unit package with water heater	3581920
Cooling package	3581403
Heater group	3582900
Silencer	3611070

**Vallox Pureo SR 2000**

Terminal block unit package with water heater	3581930
Cooling package	3581404
Heater group	3652800
Silencer	3611080

**Vallox Pureo SR 3000**

Terminal block unit package with water heater	3581940
Cooling package	3581405
Heater group	3652810
Silencer	3611090

**Vallox Pureo SR 4500**

Terminal block unit package with water heater	3581995
Cooling package	3581406
Heater group	3652820
Silencer	3611100

**Vallox Pureo SR 550–4500**

Controller package	3582100
Controller package for duct pressure control	3582200

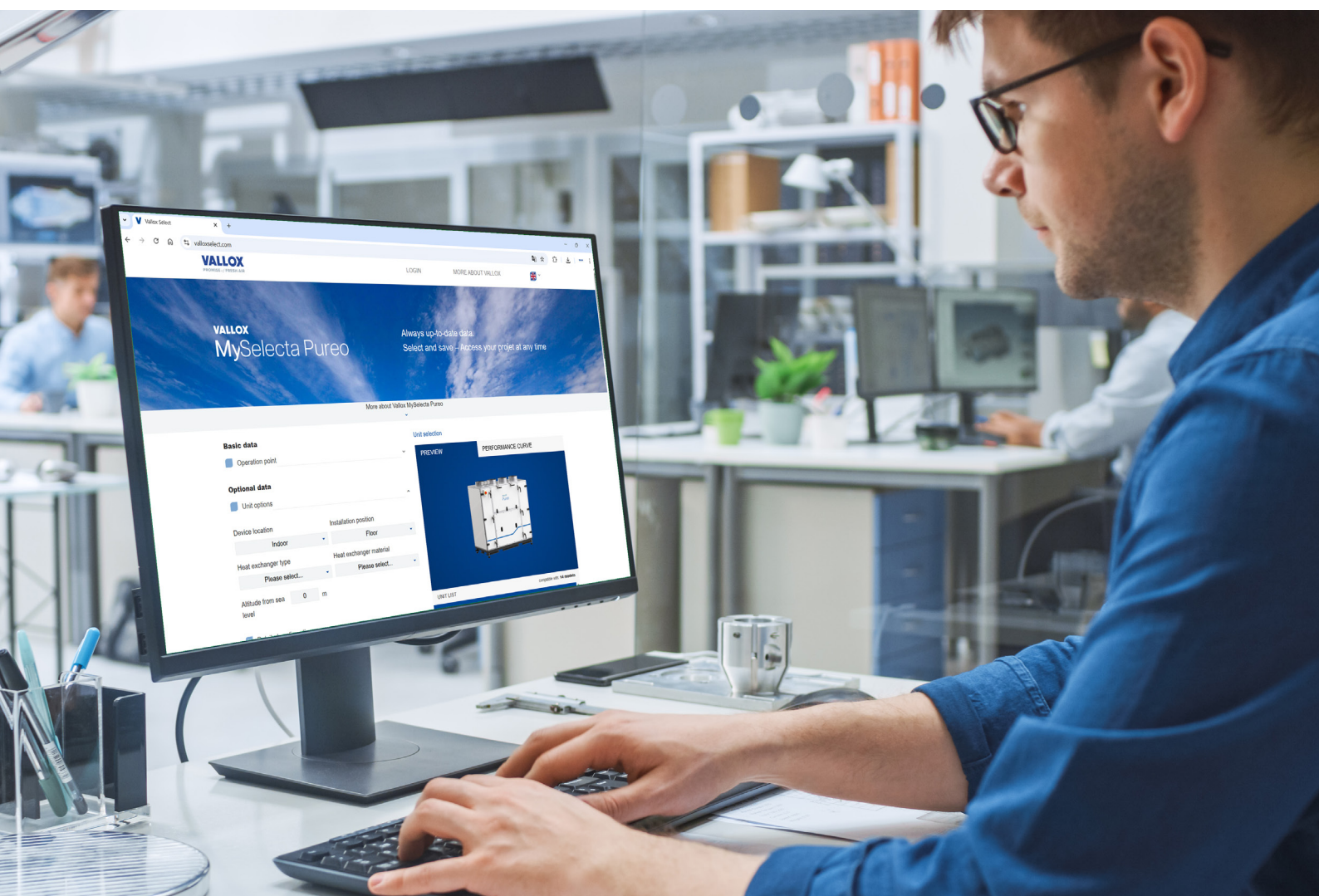
# SUITABLE UNIT CAN BE FOUND USING THE SELECTION SOFTWARE

## VALLOX MySelecta Pureo

- Browser based selection software is always available and up-to-date, and does not require signing in.
- The air handling unit is easy and quick to configure for the selected application.
- The selection software results can be saved, exported to various programmes, and restored at any time (you need to be signed in to be able to save).
- The accessories are easy to configure.
- A component list is defined according to each user's choices.
- Detailed calculation results and fan curves.



Learn more about  
the selection software:  
[valloxselect.com](http://valloxselect.com)



# VALLOX

[www.vallox.com](http://www.vallox.com)

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