

# Installer Help Sheet

Additional information for the VRC-W 450/600



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**STIEBEL ELT**



# VRC-W 450/600 Premium

## HEAT RECOVERY VENTILATION

### Get healthy, fresh air comfortably and elegantly

Looking for a stylish and efficient way to supply fresh, healthy air to your home or commercial property? Introducing the VRC-W Premium, which surpasses its predecessors in terms of efficiency, comfort, and modern aesthetics. This quiet and compact device can be easily installed on the wall, making it suitable for single-family homes, apartments, and small commercial properties.



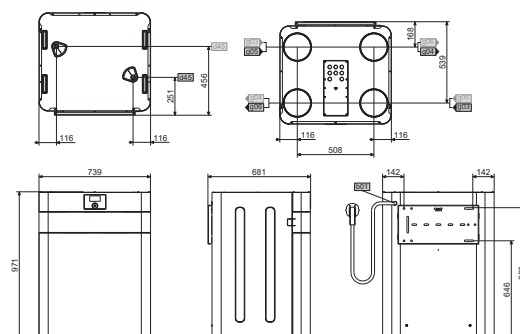
### Benefit from extensive features

The VRC-W Premium is designed for your convenience, offering extensive functions like weekly programs and built in CO<sub>2</sub> monitoring. But the benefits don't stop there. With its integrated heat exchanger, this model not only provides fresh air but also recovers heat energy from the exhaust air, supporting your heating needs. And if you're looking to cool down, the device can be easily utilised for passive cooling, giving you the power to create the perfect indoor environment.

### Product features

- › Centralised ventilation for optimum air quality
- › Suitable for outside temperatures ranging from -20°C to +50°C
- › Improve air quality with optional filter upgrades, including fine dust filters and HEPA filters
- › Convenient operation with WiFi connectivity
- › Elegant design
- › Easy-to-clean and replace filters, ensuring optimal hygiene
- › Efficient operation with balanced air volume flow
- › Innovative preheater ensures outside air temperature balance during winter months

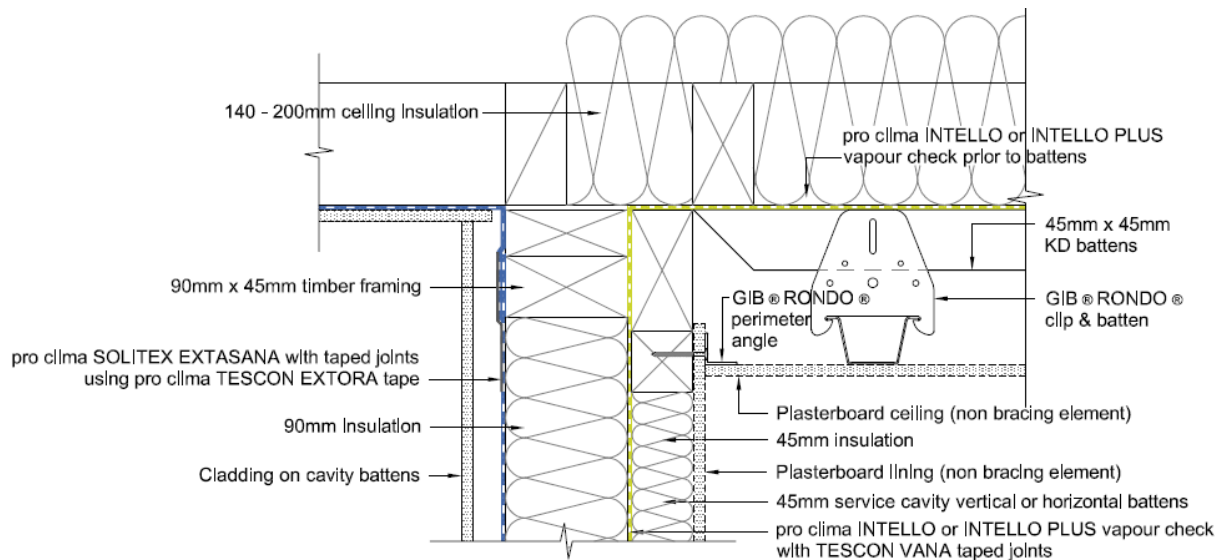
### Dimensions



Type	VRC-W 450 Premium	VRC-W 600 Premium
Article no.	204940	204714
Heat recovery level up to	% 90	87.5
Air flow volume	m <sup>3</sup> /h 110-450 m <sup>3</sup> /h	150-600 m <sup>3</sup> /h
Filter class	EPM1 ≥50% (F7)   ISO COURSE ≥65% (G4)	EPM1 ≥50% (F7)   ISO COURSE ≥65% (G4)
Sound power level (EN 12102)	dB(A) 49	54
Height	976mm	976mm
Width	740mm	740mm
Depth	659mm	659mm
Air connection diameter	180mm	180mm
Weight	kg 58.6 kg	58.6 kg
Nominal voltage	230 V	230 V
Energy efficiency class	A+	A+

STIEBEL ELTRON is committed to our policy of continual improvement, some features may have subsequently been changed or even removed. Our advisors will be happy to consult with you regarding the currently applicable equipment features. The images used in this data sheet are for reference only.

# Thermal envelope ducting runs



402  
-

## TYPICAL WALL / CEILING JUNCTION + SERVICE CAVITY

Scale 1:5 @ A4

NOTE: Also refer to pro clima System Interior Insulation

### Typical 90mm wall - suspended ceiling junction with 45mm service cavity

Scale:

1:5

Date:

04/07/14



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DWG. No. :

AT . 402

Example of top plate construction for service cavity

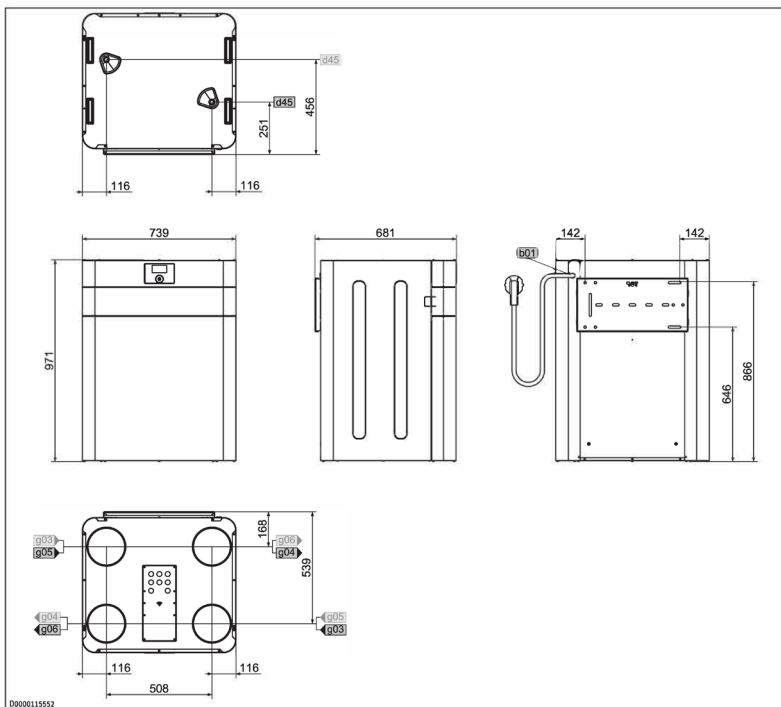




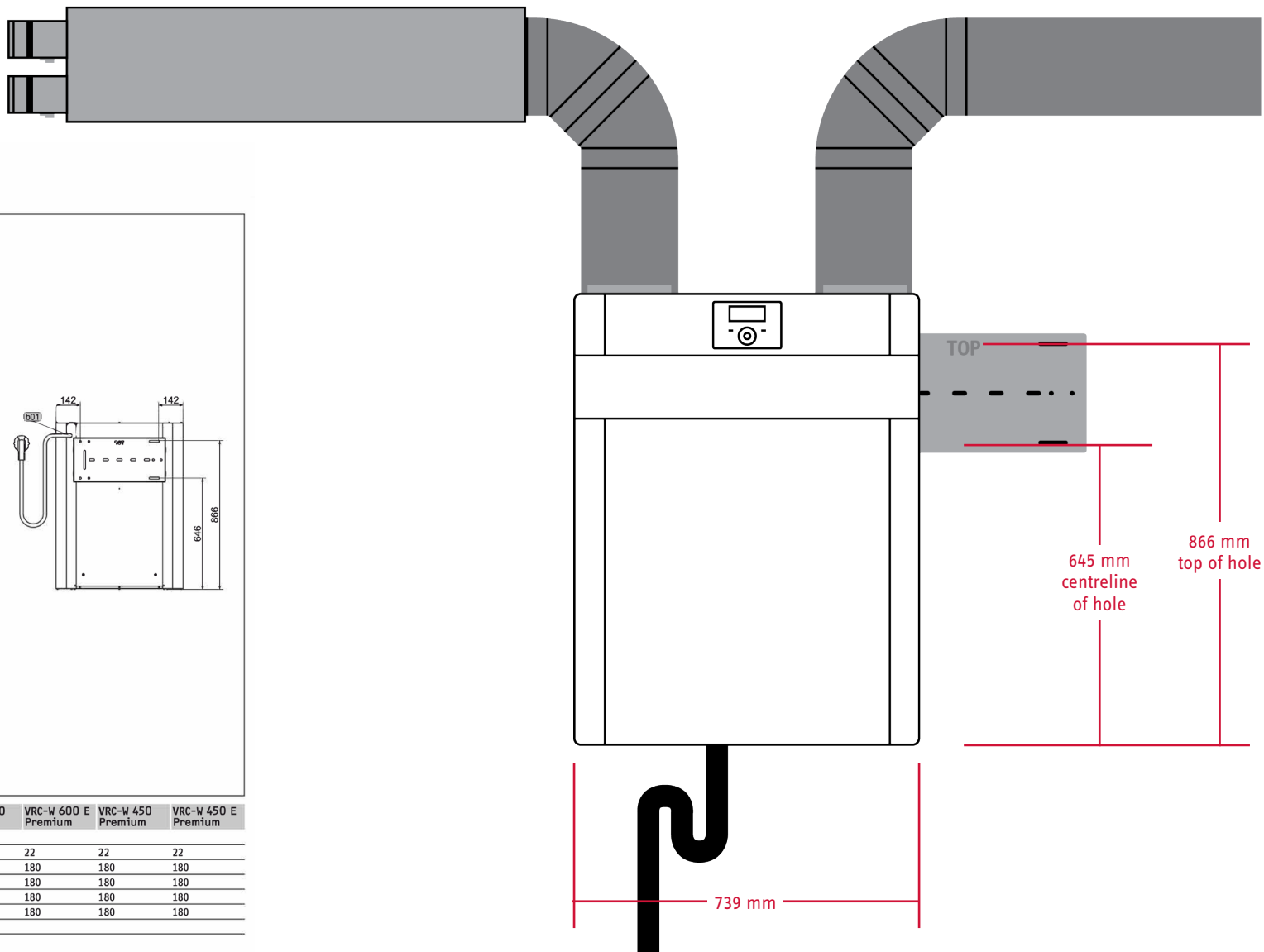
# Minimum clearances

## 19 Specification

### 19.1 Dimensions and connections



				VRC-W 600 Premium	VRC-W 600 E Premium	VRC-W 450 Premium	VRC-W 450 E Premium
b01	Entry electrical cables						
d45	Condensate drain	Diameter	mm	22	22	22	22
g03	Outdoor air	Diameter	mm	180	180	180	180
g04	Exhaust air	Diameter	mm	180	180	180	180
g05	Extract air	Diameter	mm	180	180	180	180
g06	Supply air	Diameter	mm	180	180	180	180
i13	Wall mounting bracket						



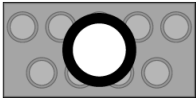
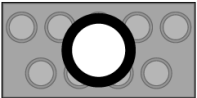
# Distribution Manifolds

VTS 6

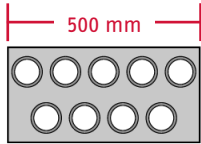
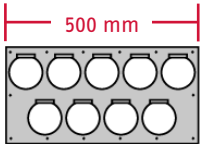
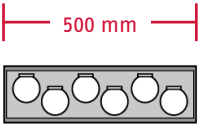
VTS 9

VT 9

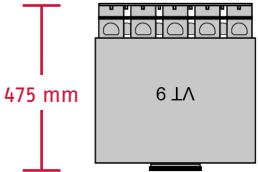
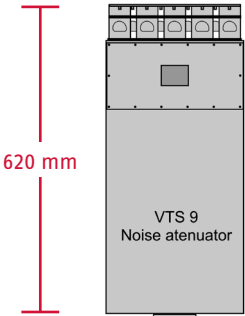
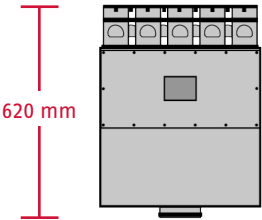
Back view



Front view



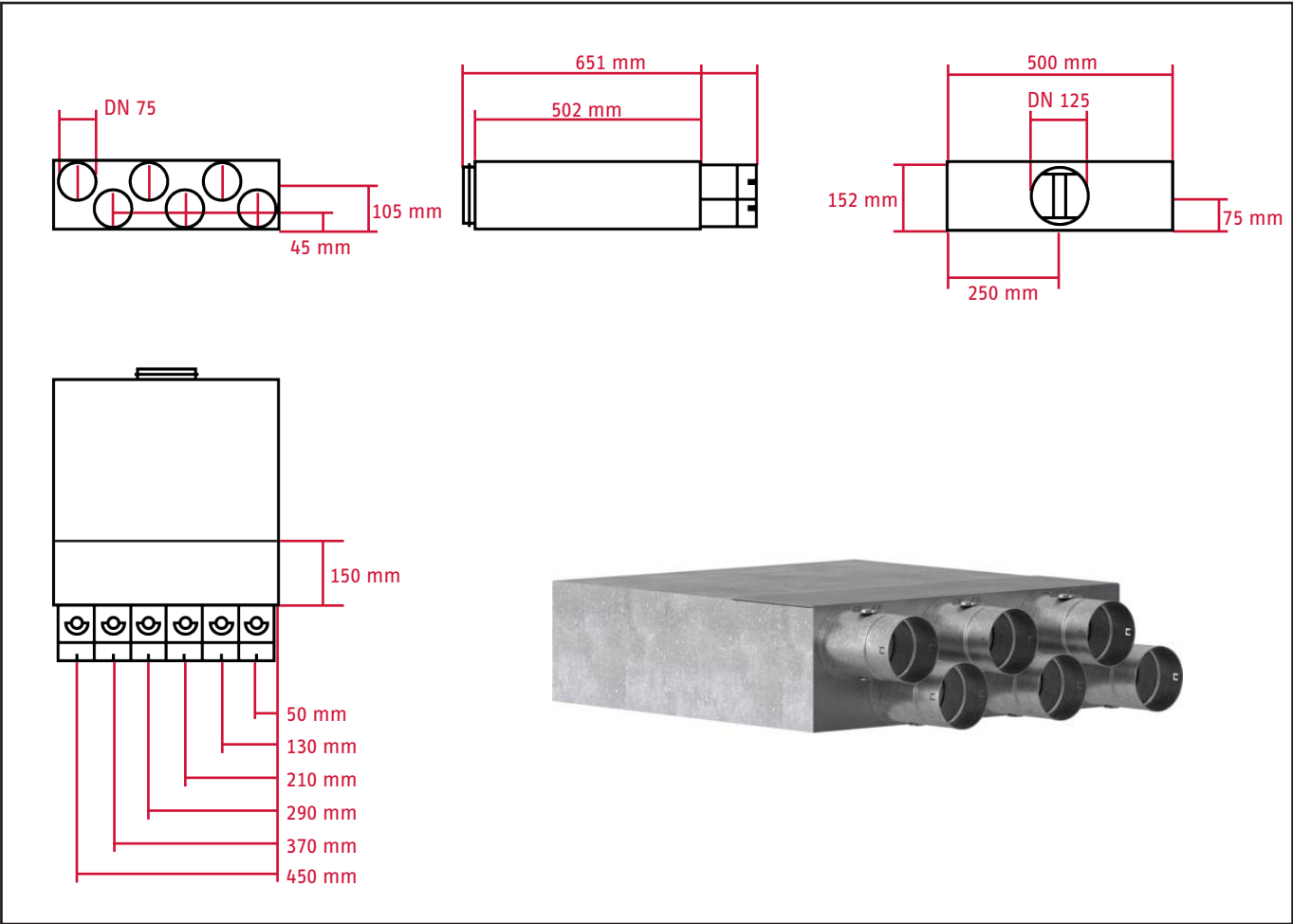
Top view



Side view

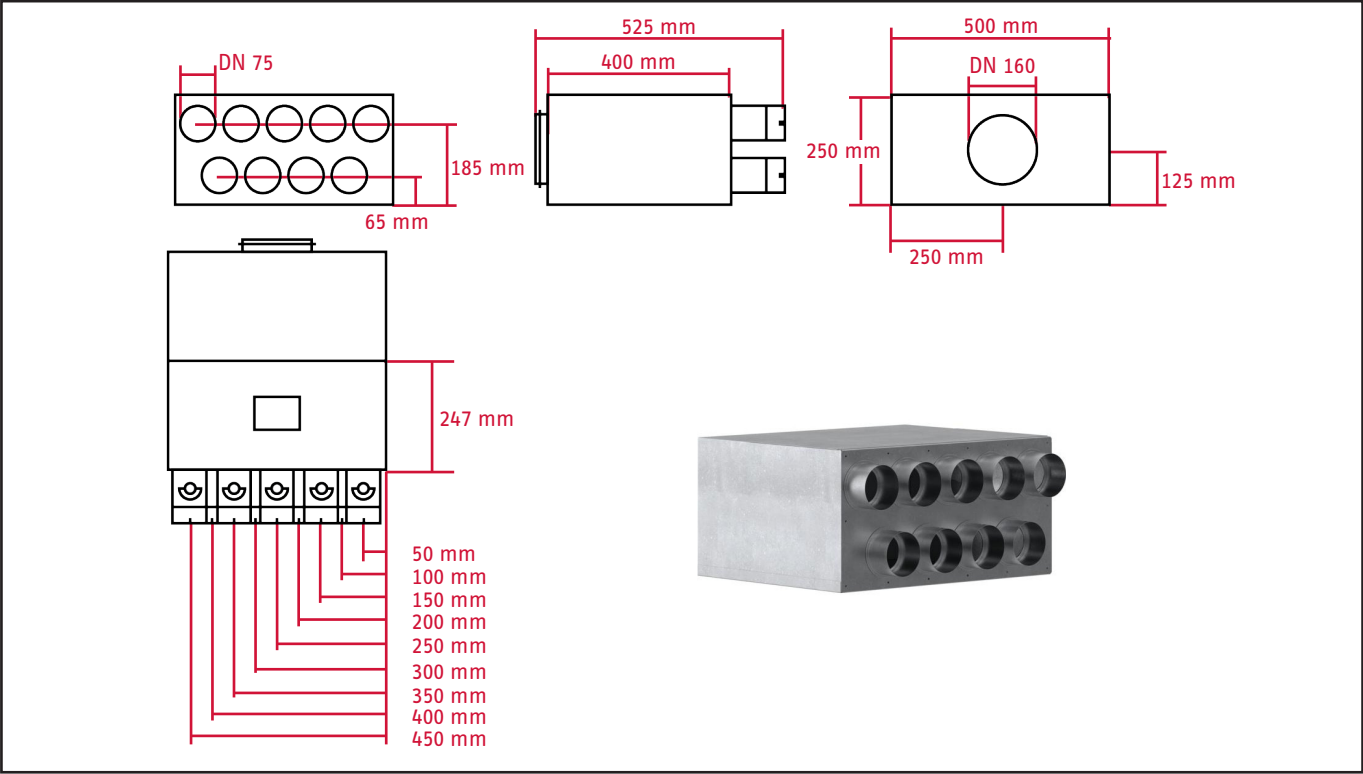


Dimensions - VTS 6

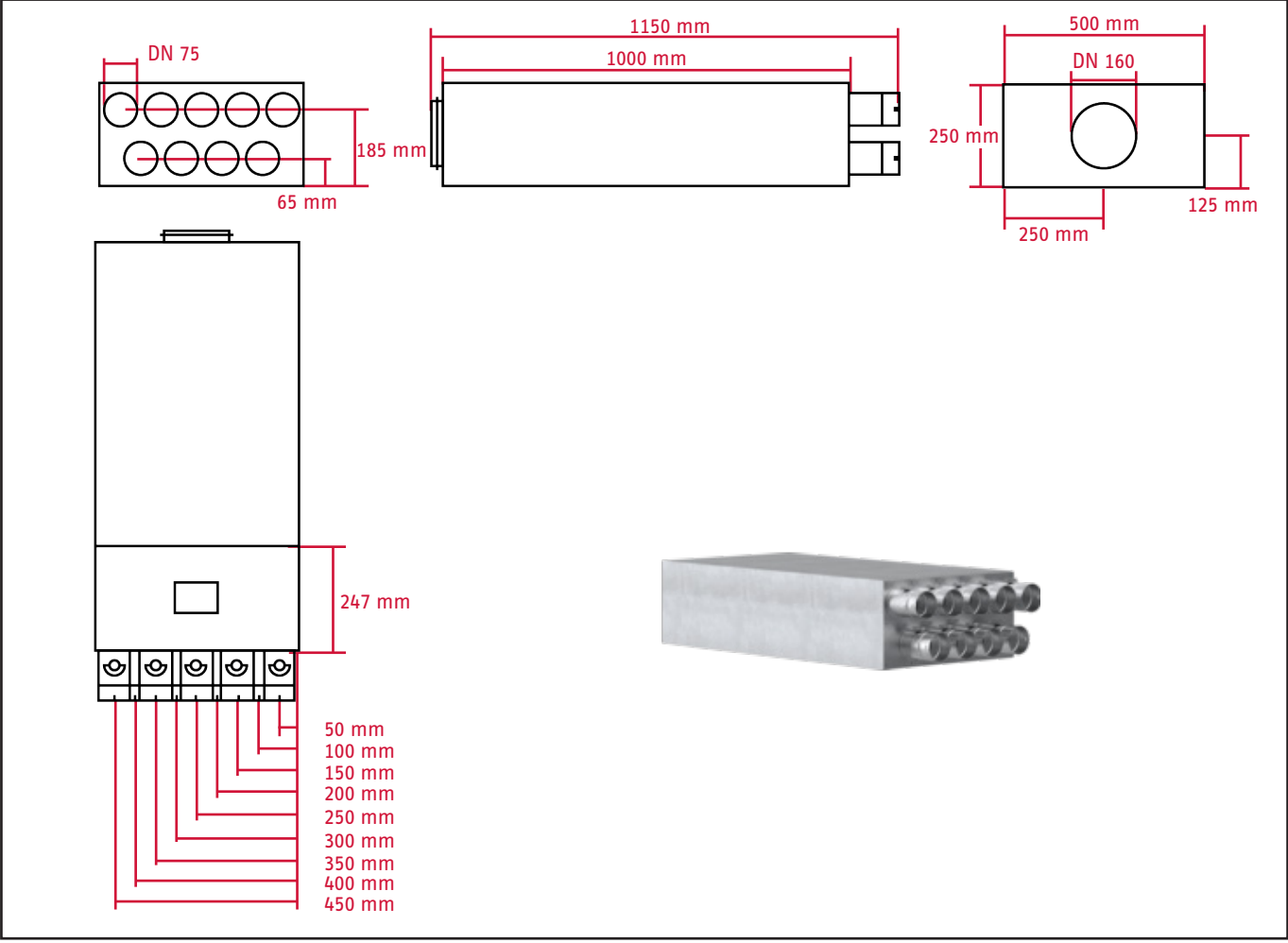




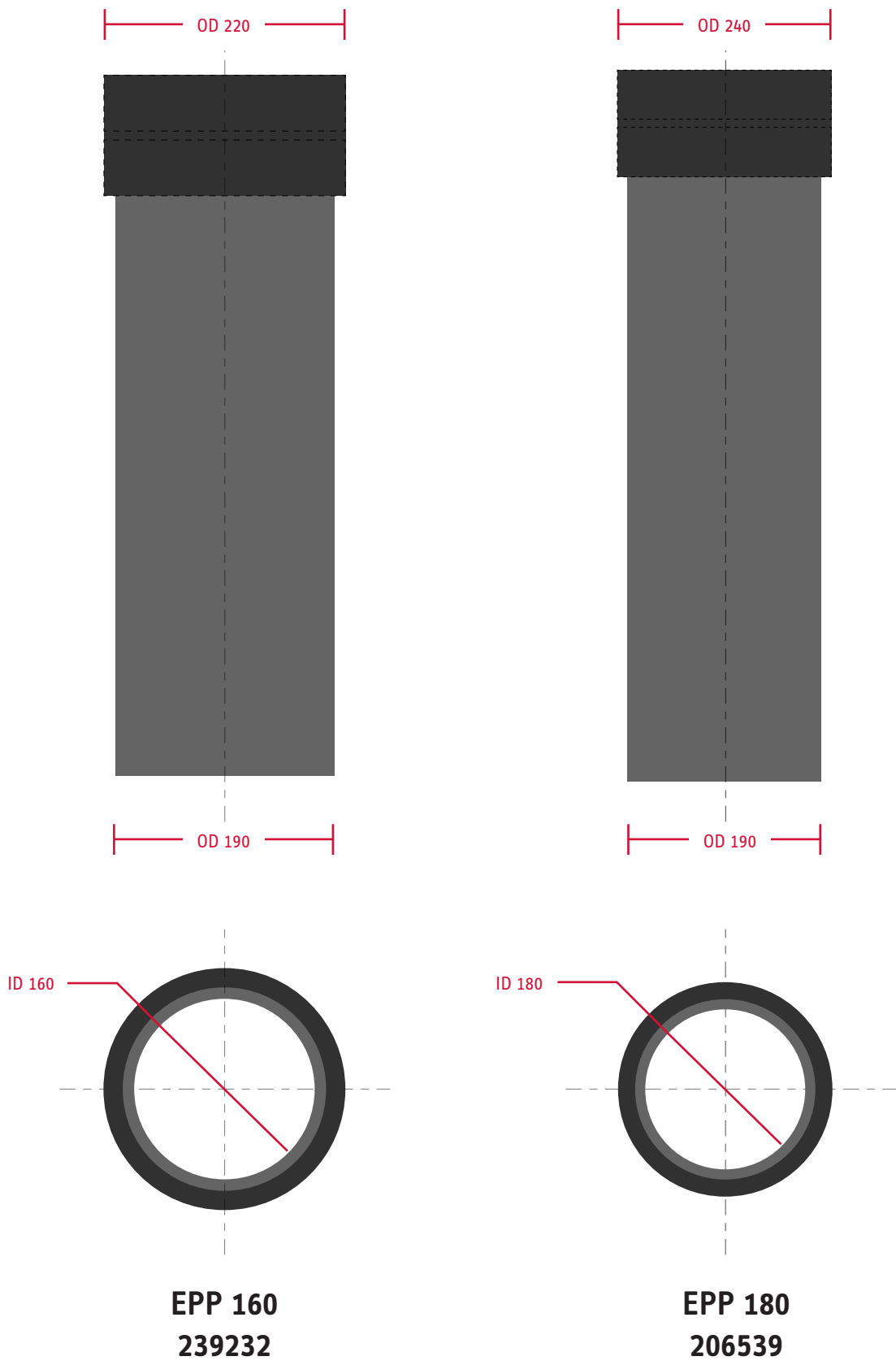
Dimensions - LVS VT 9 E



Dimensions - LVS VT 9



# Exterior connection



# Exterior grilles



## **LWF LG 200 - 206588**

Outdoor air grille for supply or extract to suit  
200 mm duct - Black



## **LWF LH 160 VA - 227923**

Outdoor roof cowl stainless steel 160 mm

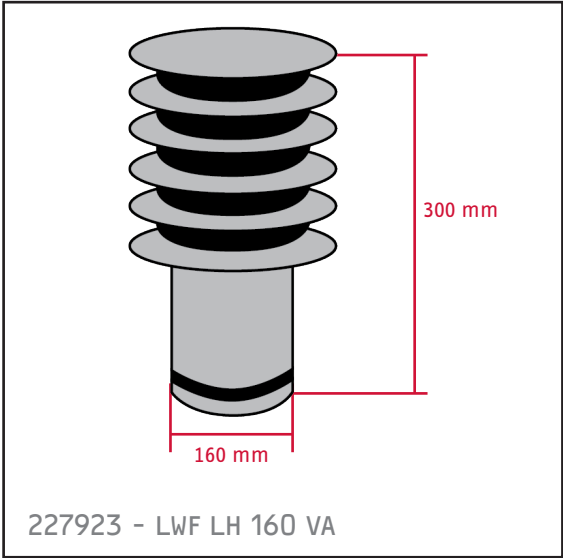
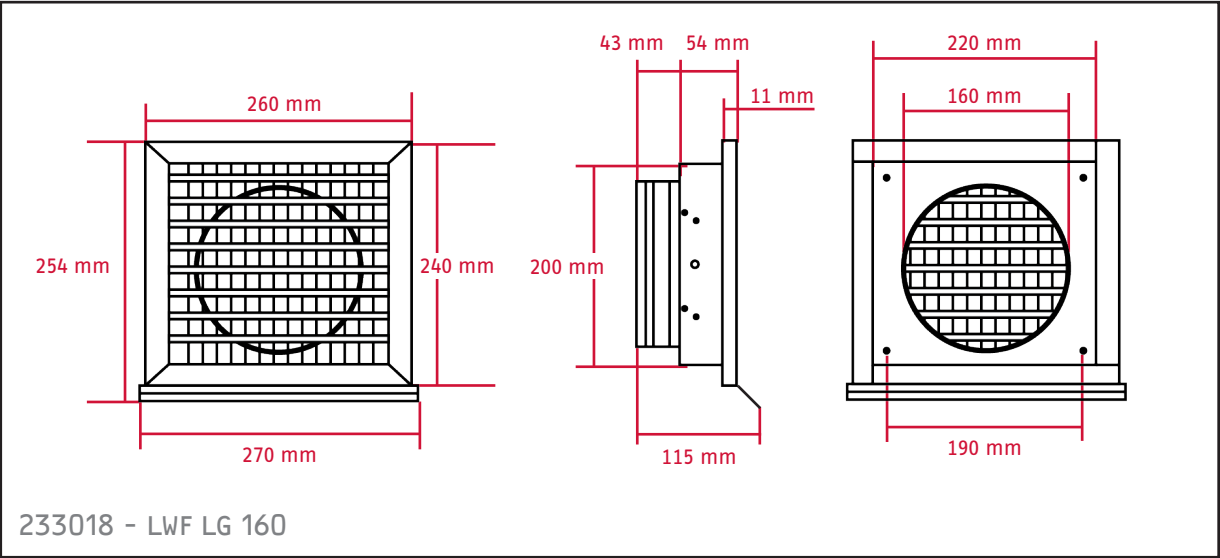
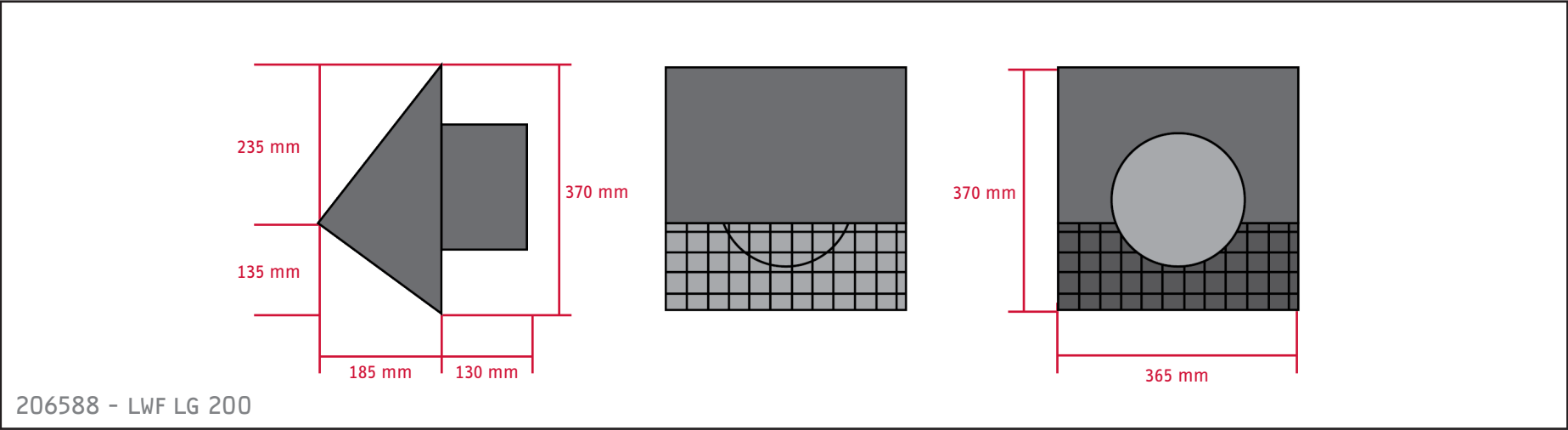


## **LWF LG 160 - 233018**

Outdoor air grill for supply or extract to suit  
160 mm duct

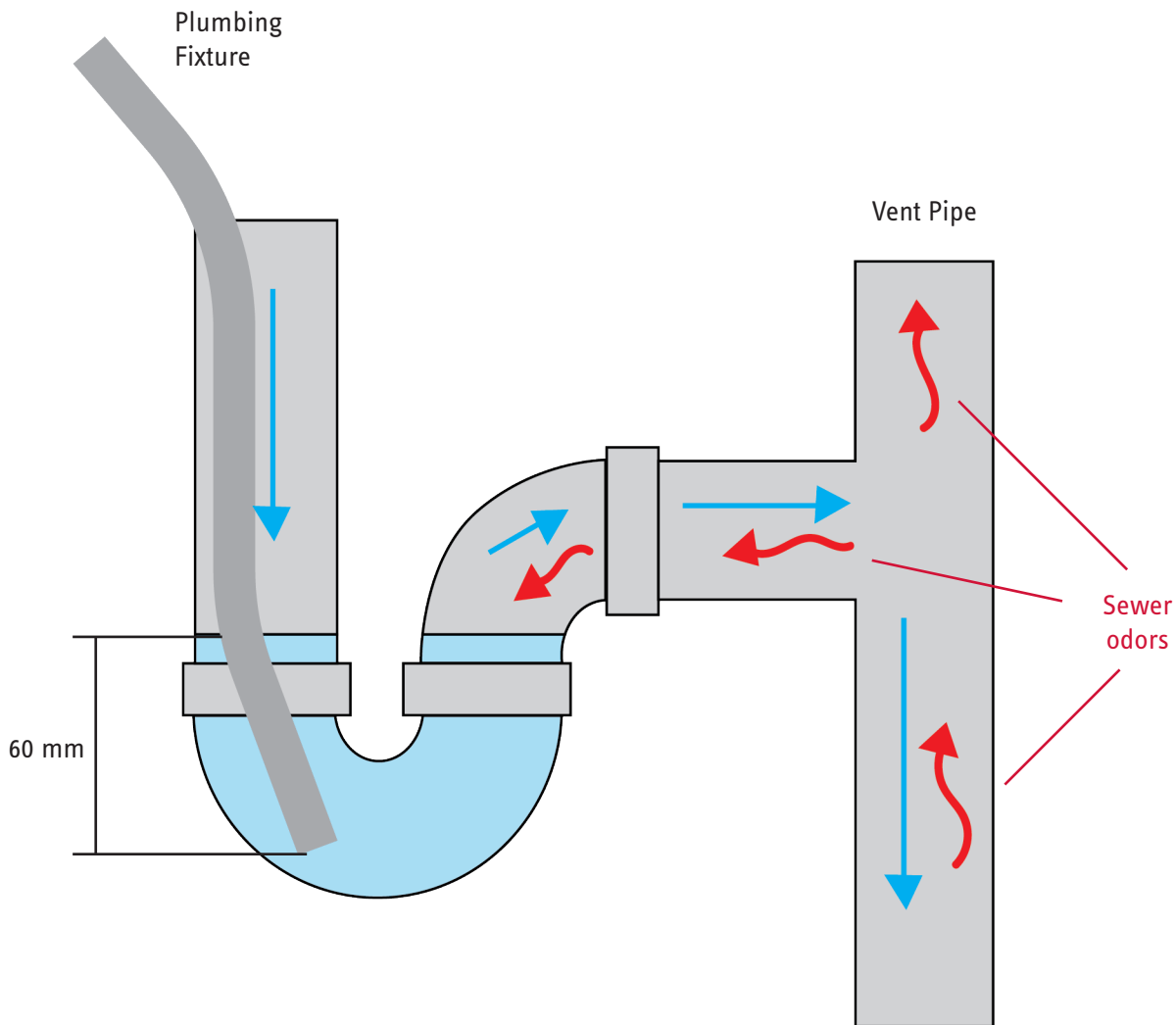


Dimensions - Exterior grilles

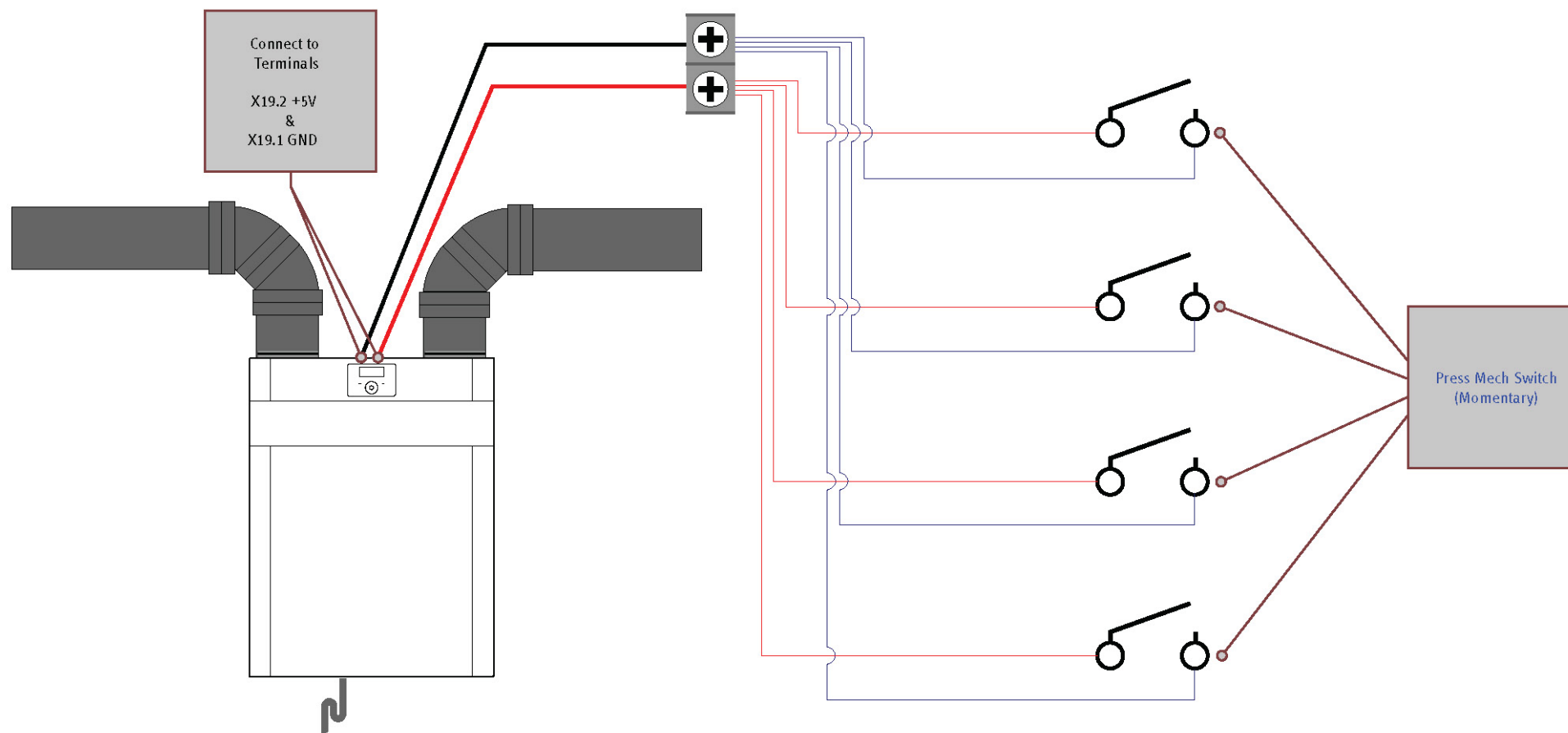


# Condensation drain connection

Insert condensate drain hose into an existing (frequently used) S trap such as a Basin or Sink. The tip of the hose should be approx 60mm below the water level. This will eliminate the potential for odors to be drawn into the ventilation unit.



# Bathroom boost switch



## Intensive ventilation switching contact

You can connect a floating switching contact, the actuation of which switches the appliance to intensive ventilation. You can set the runtime for intensive ventilation in parameter "Intens. vent. time". After this time has expired, the unit switches back to its previous state.

► Connect the external pushbutton to the terminals.

X19.1	GND
X19.2	+5 V

## Bathroom Boost switch requirements:

2-core cable from the ventilation unit to the Control panel.  
**Do not route parallel with mains power cables.**

screened electronic cable 0.8mm<sup>2</sup>



## Comfort through Technology

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