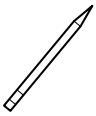
INSTALLATION GUIDE

HEAT RECOVERY VENTILATOR

HRV/ERV H 200
HRV/ERV H 300

Tools required



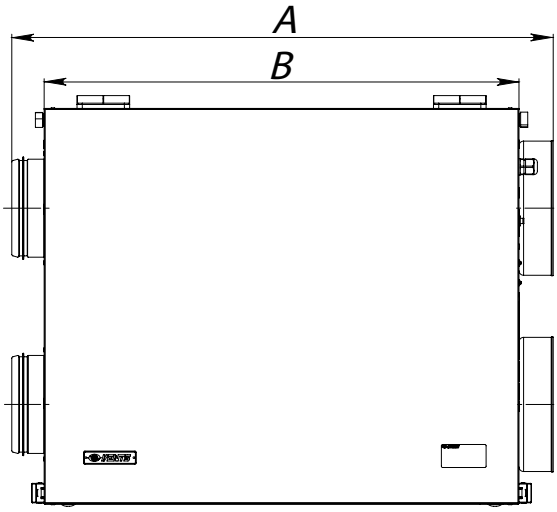
Pencil

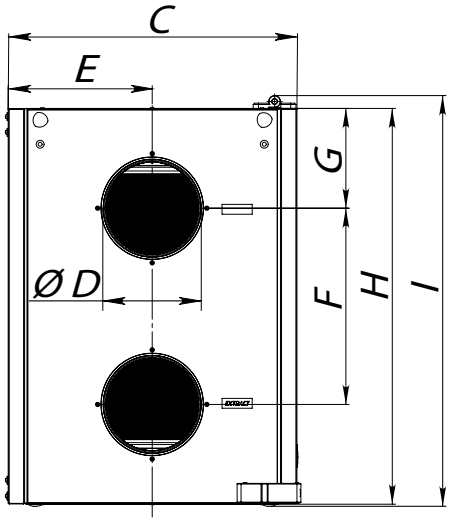
Drill
Ø 6 mm (1/42")

Screwdriver

Dowel 2 pcs.

Screws 2 pcs.

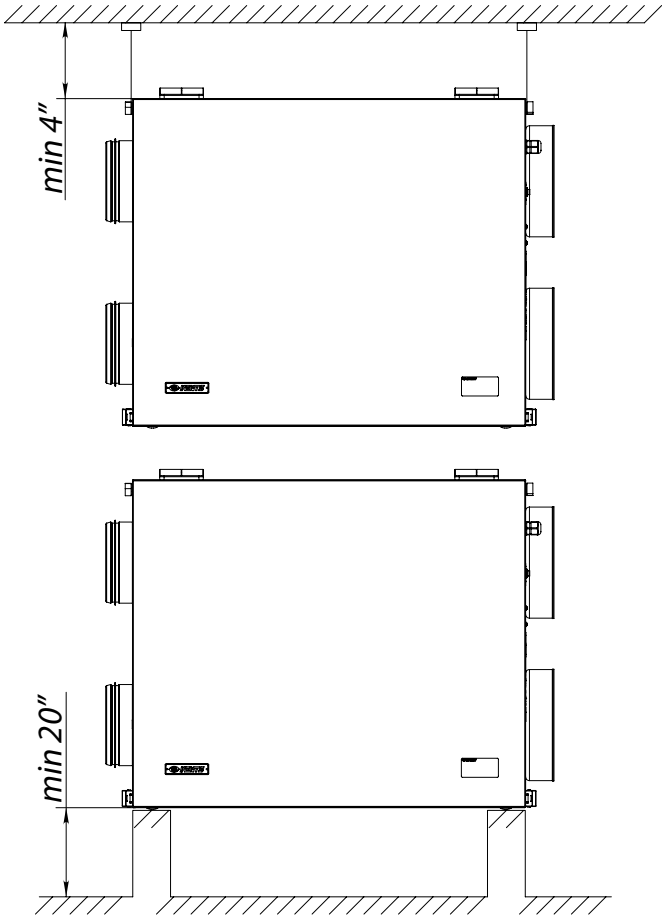




Unit type	Ø D	A	B	C	E	F	G	H	I
HRV/ERV H 200	6"	32 3/8"	28 7/16"	17 5/16"	8 5/8"	11 3/4"	6"	23 11/16"	24 5/8"
HRV/ERV H 300	8"	40 5/8"	36 3/4"	17 5/16"	8 5/8"	12 3/4"	6 7/16"	25 11/16"	26 9/16"

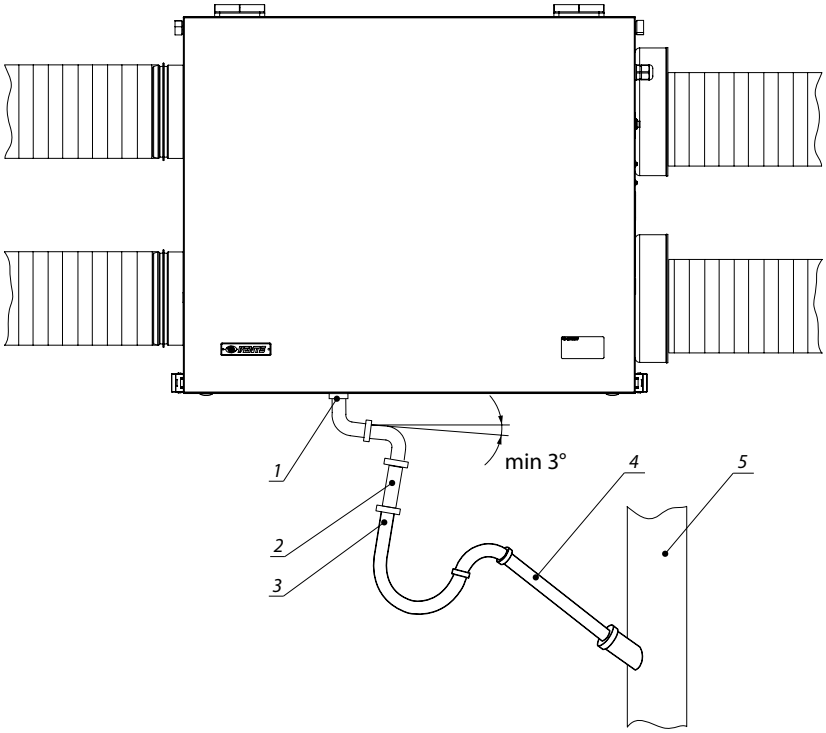
Unit mounting

While mounting the unit provide enough access for the unit maintenance and servicing. Mount the unit to ceiling with threaded rods fixed inside the dowels attached to the ceiling or by means of the belts that are rigidly fixed to horizontal plane. The unit can be installed on mounting supports with adjustable height for connection to the drain system .



To attain the best performance of the unit while mounting provide a straight 20" (500 mm) duct section in front and behind the unit. The unit must be equipped with a grille with the mesh width up to 1/2" or any other protecting device to prevent free access to the unit fans.

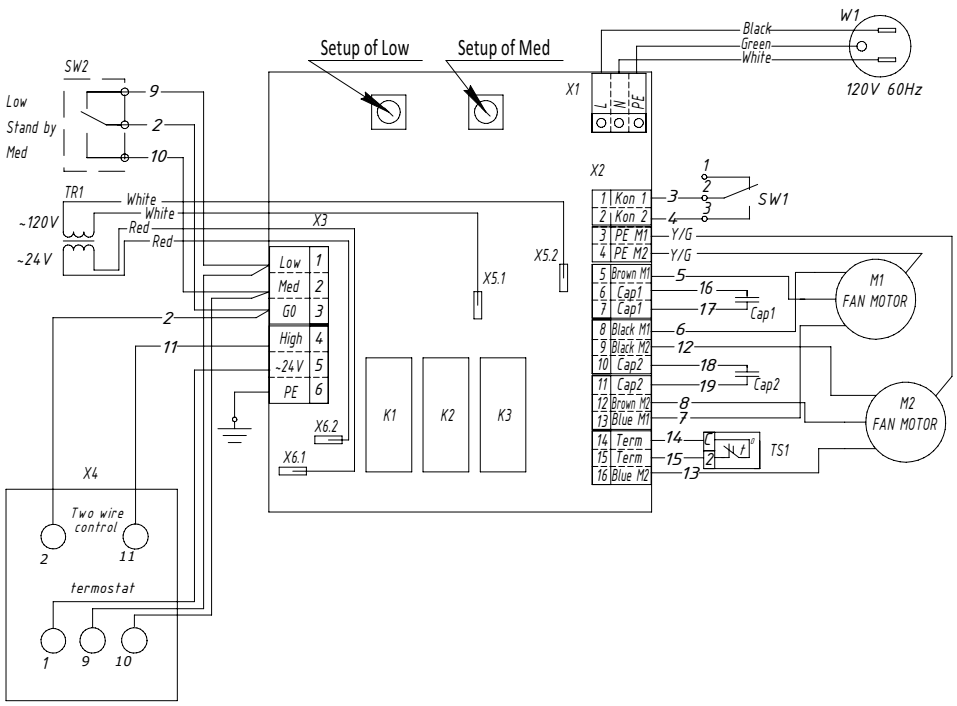
The unit is equipped with a condensate drain hose for condensate drainage, applicable only for HRV H 200(300). Connect the drain hose (1), U-trap (3) and drain system (5) with metal, plastic or rubber pipes (2 and 4). The pipes must be sloped down at least by 3°. Before starting operation of the unit fill the system with water and check that U-trap is always filled with water. Make sure that the water drainage is correct, otherwise some condensate may be accumulated inside the unit and provoke subsequent equipment damage and water ingress to the room. The condensate drainage system is designed for operation at the ambient temperature above 32 ºF(0 ºC). If the ambient temperature is below 32 ºF(0 ºC), insulate the drain system and provide air heating.



Connection to power mains

**CUT POWER SUPPLY OFF BEFORE ANY OPERATIONS WITH THE UNIT.
THE UNIT SHALL BE CONNECTED TO POWER MAINS BY A DULY QUALIFIED ELECTRICIAN ONLY.
RATED VALUES OF THE ELECTRICAL PARAMETERS ARE SHOWN ON THE RATING PLATE. ANY MODIFICATIONS OF THE INTERNAL CONNECTIONS ARE NOT ALLOWED AND WILL VOID THE WARRANTY.**

The unit is designed for connection to single-phase ac 120 V / 60 Hz power mains.
The unit is equipped with a power cable and a plug and can be connected to any standard grounded outlet. The power cable is connected to the terminal X1 by default. Connect the unit to power mains through the external automatic switch integrated into the fixed wiring system that breaks the circuit in case of short circuit or overload.
Install the circuit breaker to have a free quick access in case of need to turn the unit off promptly. The unit has overload protection provided by the thermal fuse which is activated in case of overload or short circuit. To replace the thermal fuse, disconnect the unit from power mains, remove the overload or short circuit. Remove the thermal fuse and check the unit.
Wiring diagram is shown in fig. 6.The thermostat TS1 (fig. 6) provides freezing protection of the unit during cold season. As the thermostat is activated, the supply fan stops and the heat recovery core is warmed up with extract air stream. To adjust the thermostatic switch, rotate the control dial to required setpoint. The setpoint depends on the operating conditions. Recommended setting of the thermostat is 37°F (+3ºC), set in the factory by default.


Setup of Low
Setup of Med
W1
Black
Green
White
120V 60Hz
X1
L
N
PE
SW2
Low
Stand by
Med
9
2
10
TR1
~120V
~24V
White
White
Red
Red
X3
X2
1
2
3
SW1
1 Kon 1
2 Kon 2
3 PE M1
4 PE M2
Y/G
Y/G
5 Brown M1
6 Cap1
7 Cap1
8 Black M1
9 Black M2
10 Cap2
11 Cap2
12 Brown M2
13 Blue M1
14 Term
15 Term
16 Blue M2
X5.1
X5.2
Low 1
Med 2
G0 3
High 4
~24V 5
PE 6
X6.1
X6.2
K1
K2
K3
M1
FAN MOTOR
M2
FAN MOTOR
Cap1
Cap2
TS1
X4
Two wire
control
2
11
termostat
1
9
10