Shtiebel VLR 70 S(L)
vs
VENTO Eco
vs
VENTO Expert

Comparison

Complete unit

VLR 70 S   **VENTO Eco**   **VENTO Expert**

Indoor unit design

VLR 70 S (L)
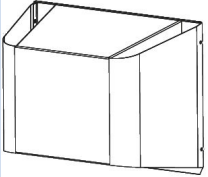
VENTO Eco

VENTO Expert

Characteristics

Parameters	VLR 70 S (L)	VENTO Eco A50-4 Pro	VENTO Expert A50-1 W V.3
Speeds, m3h	20/30/40/**70**	15/30/50	15/35/50
Air flow for regeneration mode, m3h	10/15/20/**35**	7/15/25	7/18/25
Max power consumption, W	7 (**12***)	**1 / 2,1 / 4,3***	5/6/ 7 (8,5)*
Rated voltage, V	24	100-240	
IP rating	**21**	**24**	
Heat regenerator material	aluminum	ceramic	
Heat regeneration @10m3h, %	89 (92*)	89(92*)	89(95*)
Cycle, s	40	70	
Sound power level, dB(A)	**36 @20m3h**	**38 @35m3h**	**33 @20m3h**
Transported air temperature	-25*...+40	**-20**…+40	

For long length version

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Modifications

VLR 70 S(L)

Name	Wall length, mm	External hood
VLR70S	100-300	
VLR70L	300-550	

VENTO Eco

VENTO Eco models	Wall length, mm	External hood
VENTO Eco A50-4 C1* Pro S13	**90**-500	
VENTO Eco A50-4 C1* Pro S11	200-500	
VENTO Eco A50-4 Pro S11	240-500-**700****	
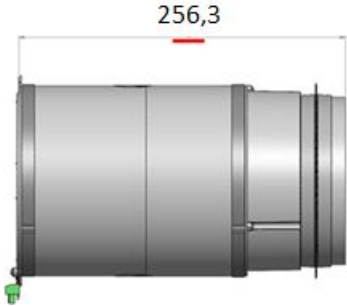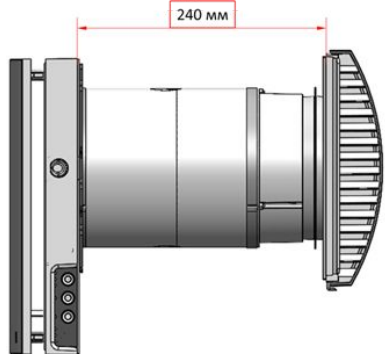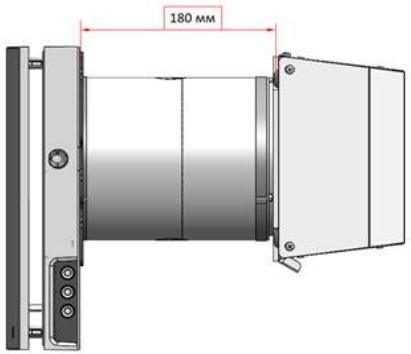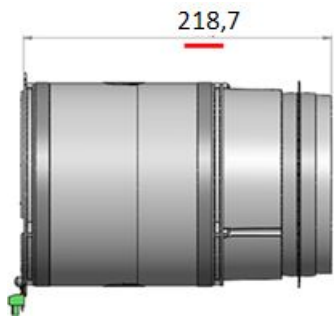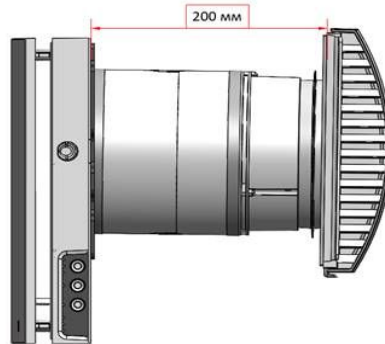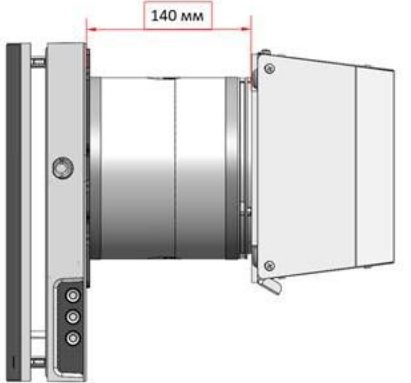
VENTO Expert

VENTO Expert models	Wall length, mm	External hood
VENTO Expert A50-1 C1* S13 W	140-300	
VENTO Expert A50-1 C1* W	200-500	
VENTO Expert A50-1 W	240-500-**700****	
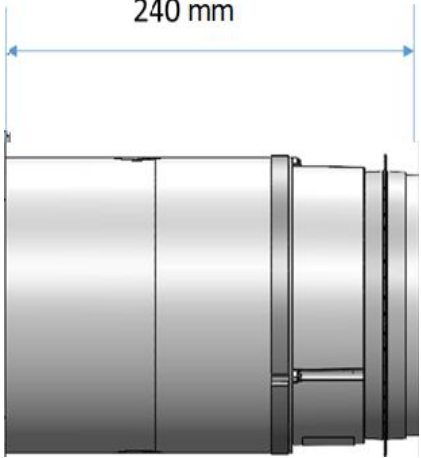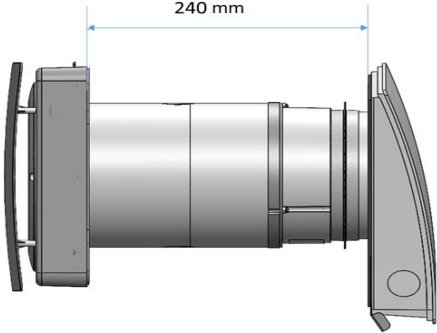
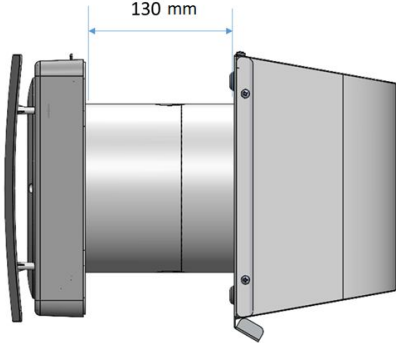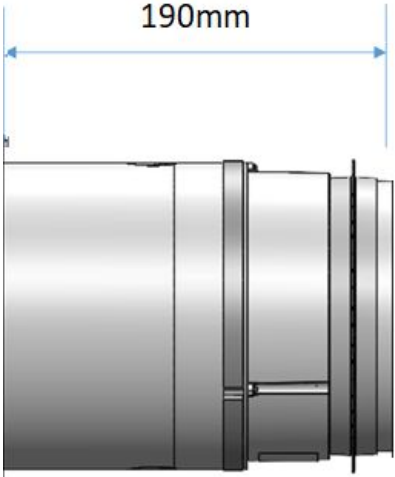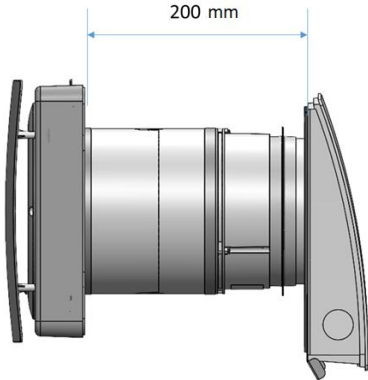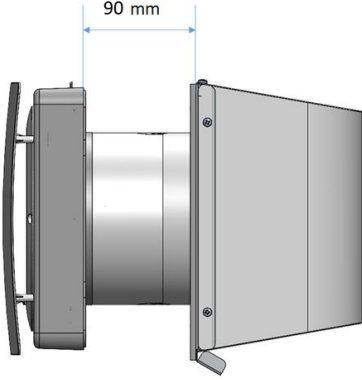*C1 is short heat exchanger 100mm length
** with long duct kit

Solution for thin walls VENTO Expert

		Normal hood (S-10)	Hood for thin walls (S-13)
Existing "standard" ventilation module	256,3	**Total length = 240mm** 240 мм	**Total length = 180mm** 180 мм
Suggested "new shortened" ventilation module C1	218,7	**Total length = 200mm** 200 мм	**Total length = 140mm** 140 мм

Solution for thin walls VENTO Eco

		Normal hood (S-11)	Hood for thin walls (S-13)
"Standard" ventilation module (150mm heat exchanger)	240 mm	**Total length = 240mm** 240 mm	**Total length = 130mm** 130 mm
Ventilation module C1 (100mm heat exchanger)	190mm	**Total length = 200mm** 200 mm	**Total length = 90mm** 90 mm

Hoods for thin walls

VLR 70 S

VENTO Eco, VENTO Expert

S - 13
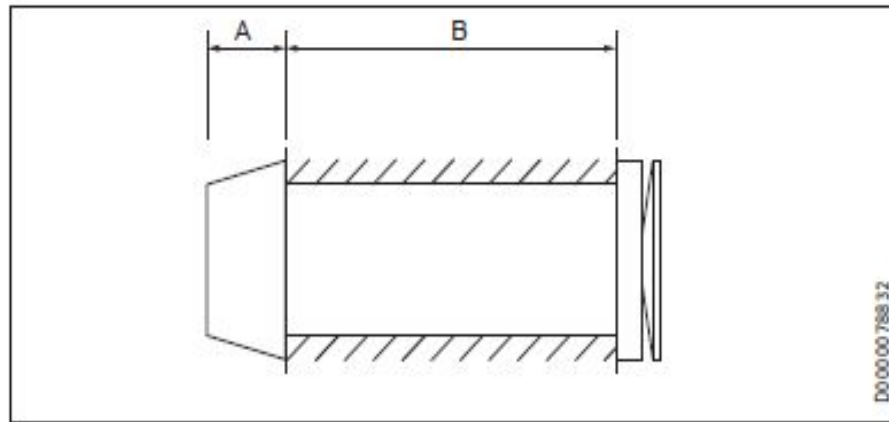
		VLR 70 S Trend EN
A	mm	200
B	mm	100-300
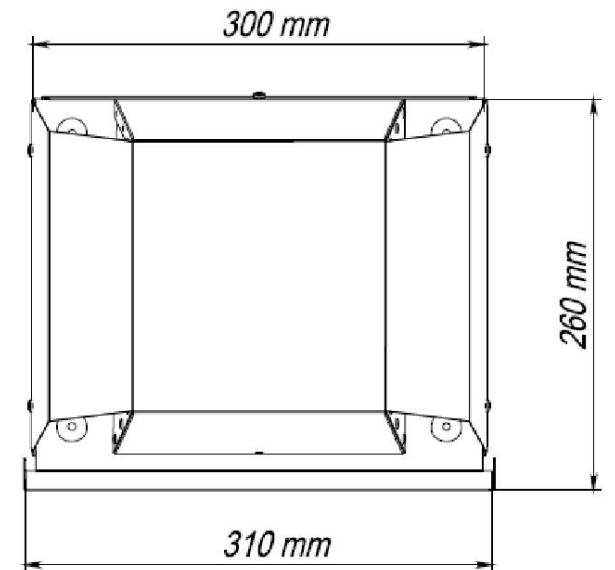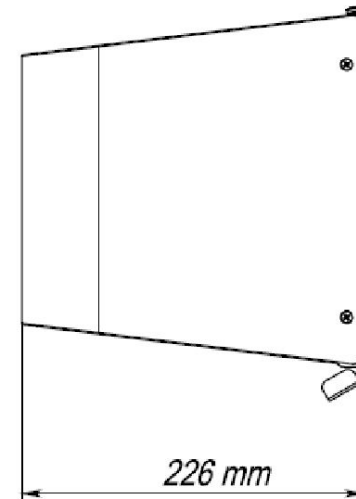
Colors of thin wall hoods

VLR 70 S(L)
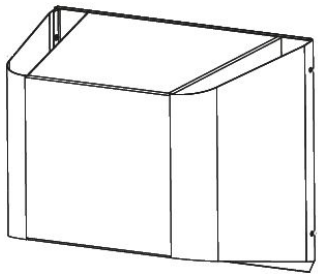
VENTO Eco, VENTO Expert

White

White

Grey

Chrome

Standard hoods

VLR 70 L

VENTO Eco
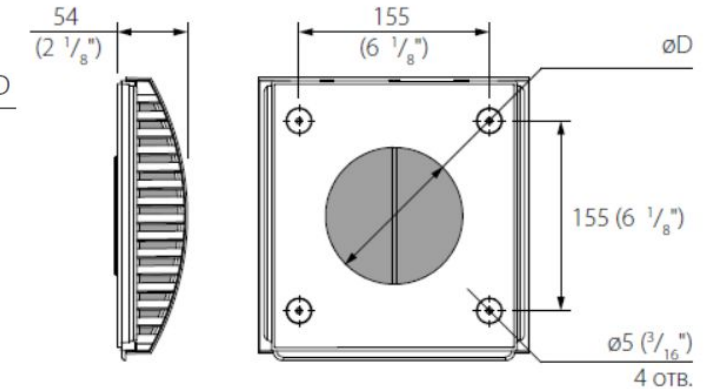## plastic hood S-11

VENTO Expert
plastic hood S-14
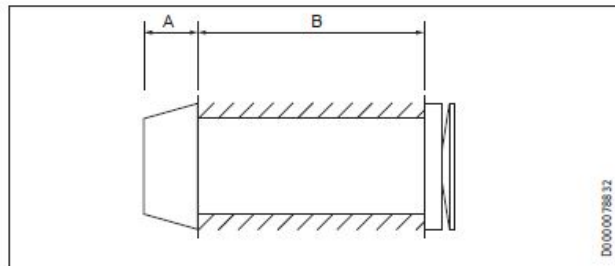
		VLR 70 L Trend EN
A	mm	80
B	mm	300-550
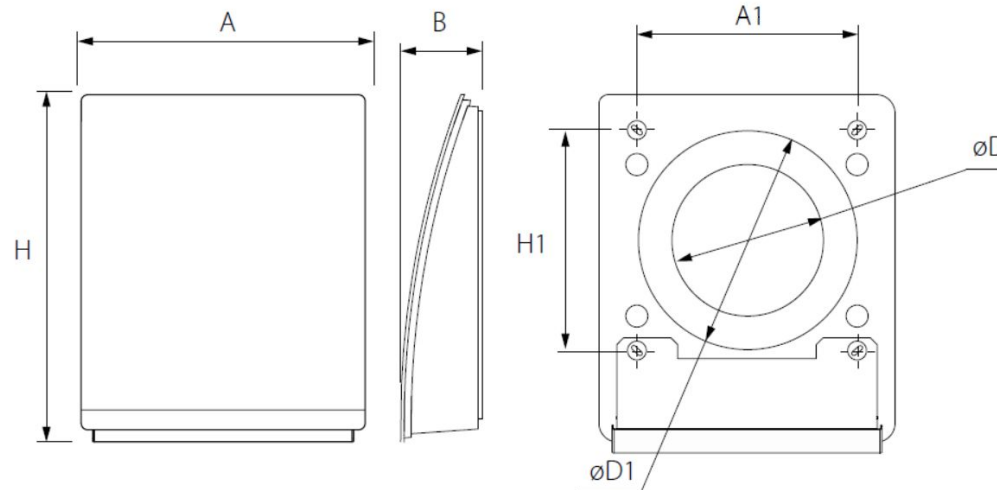
Model	Dimensions [mm]						
	Ø D	Ø D1	A	A1	B	H	H1
AH-11	106 (4 ³/₁₆")	164 (6 ⁷/₁₆")	212 (8 ³/₈")	160 (6 ⁵/₁₆")	60 (2 ³/₈")	260 (10 ¹/₄")	160 (6 ⁵/₁₆")

Colors of standard external hood

VLR 70 L

VENTO Eco

hood S–11

VENTO Expert

plastic hood S–10

(by default white)

white

white   black   grey   terracotta   brown   vintage
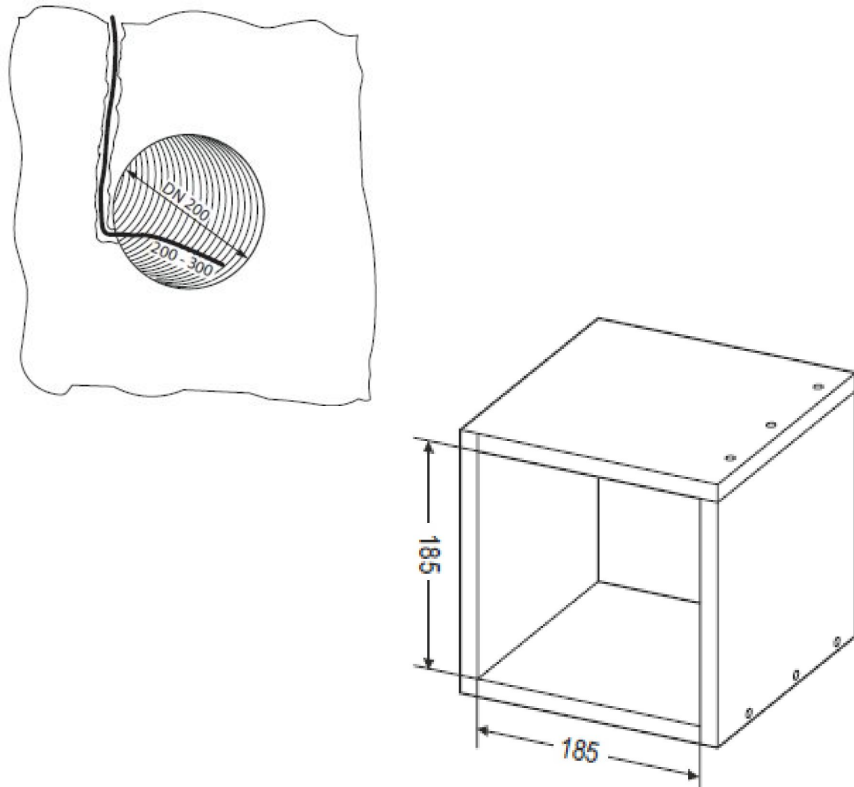

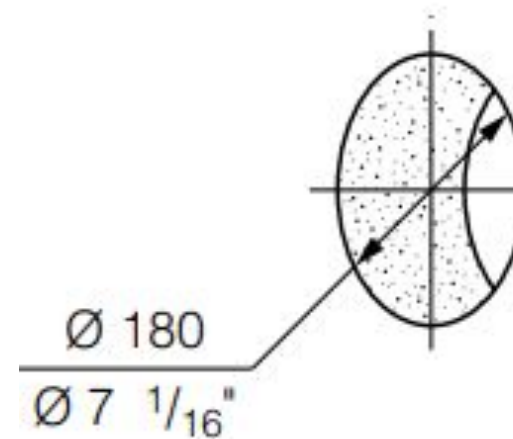white   black   grey   terracotta   brown   vintage

Diameter

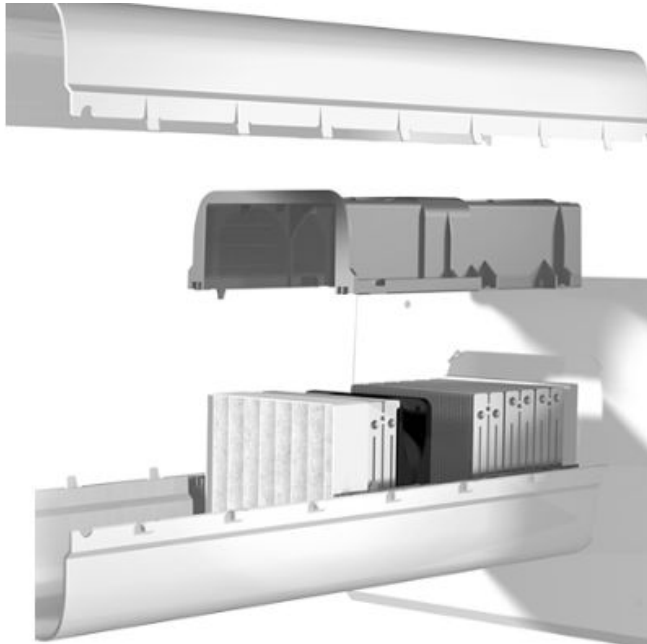**VLR 70 S(L) – D200mm**
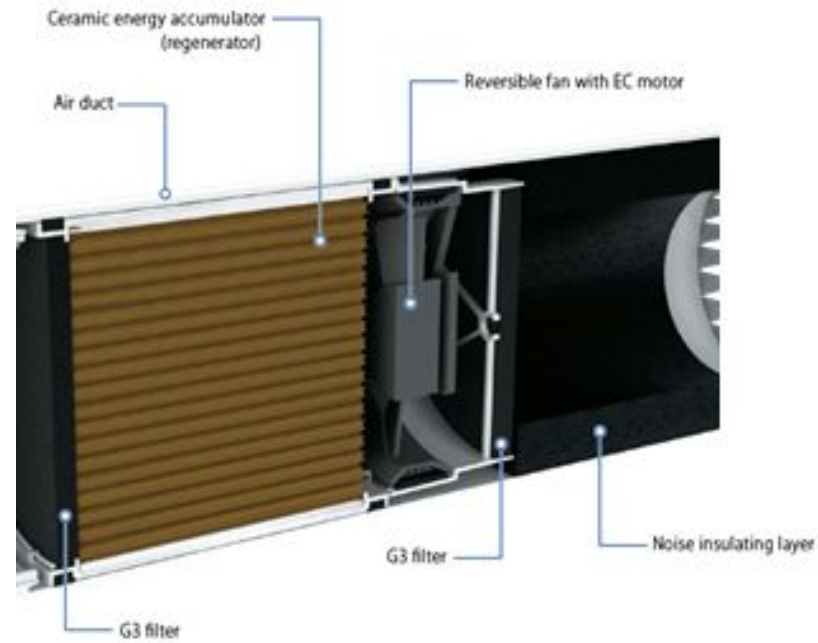
or 185x185

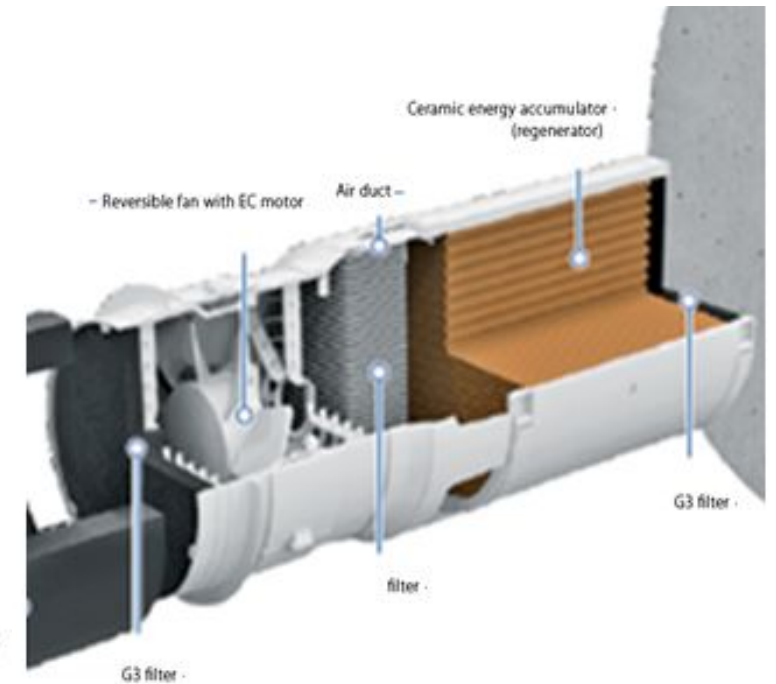**VENTO Eco, VENTO Expert – D180mm**
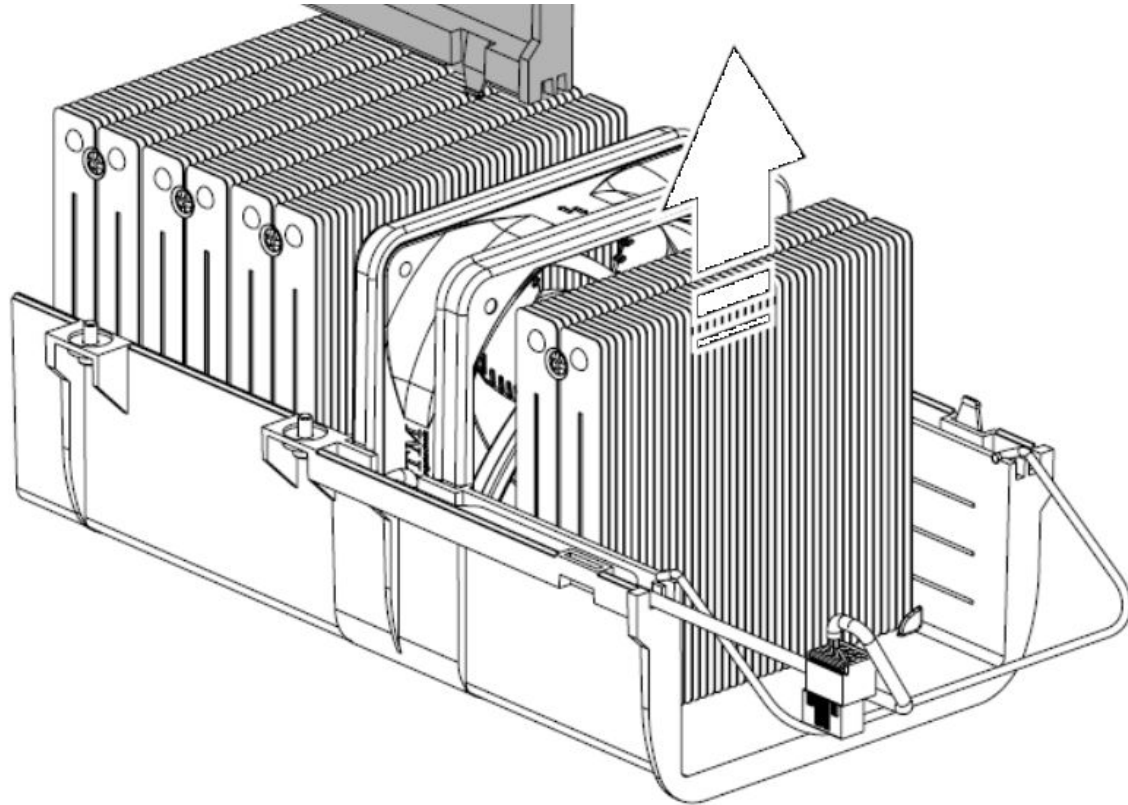
Cartridge

VLR 70 S(L)

VENTO Eco

VENTO Expert

Ceramic energy accumulator (regenerator)

Air duct

Reversible fan with EC motor

G3 filter

Noise insulating layer

G3 filter

Ceramic energy accumulator (regenerator)

Reversible fan with EC motor

Air duct

filter

G3 filter
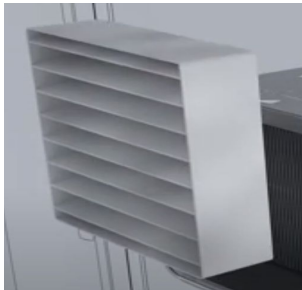
G3 filter

Heat exchanger

VLR 70 S - aluminum.

VENTO Eco, VENTO Expert - ceramic.

100 or 150mm length.

Filter

VLR 70 S(L)

- **Indoor side** ePM1 ≥ 50 %(F7) **standard**
- **Outdoor side** ISO Coarse>30%(G2) **standard**
- ISO Coarse > 60 % (G4) - option
- ePM10 ≥ 50 % (M5) - option
- ePM1 ≥ 80 % (F9) - option

VENTO Eco, VENTO Expert

- **Indoor side** ISO Coarse >30 (G3) **standard**
- **Outdoor side** ISO Coarse >30 (G3) **standard**
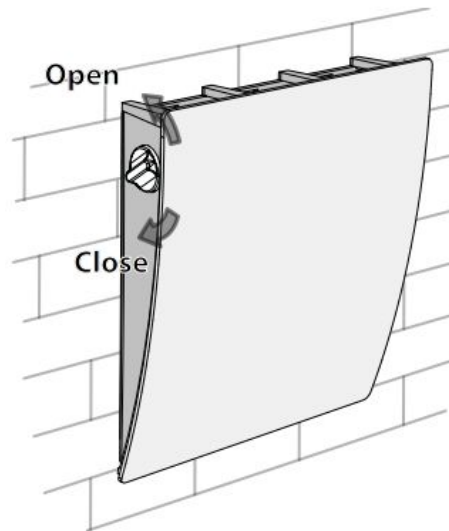- ISO Coarse > 60 % (G4) - option
- PM2.5 > 70 % (F7) - option

Air shutters

VLR 70 S(L)

1. Manual closure
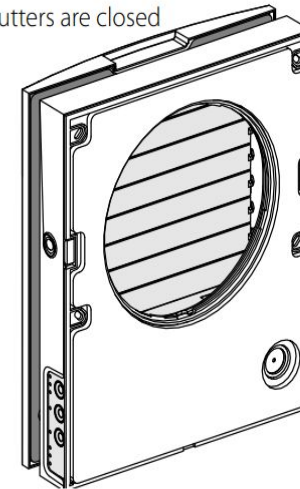2. VLR 70 S(L) has no automatic shutters

VENTO Eco

1. Manual closure
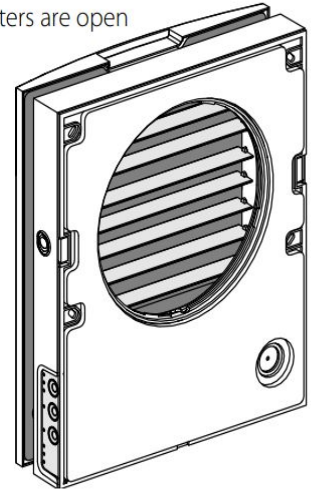2. Eco has no automatic shutters

Open
Close

VENTO Expert W V.3

1. Manual closure
2. **Automatic shutters**

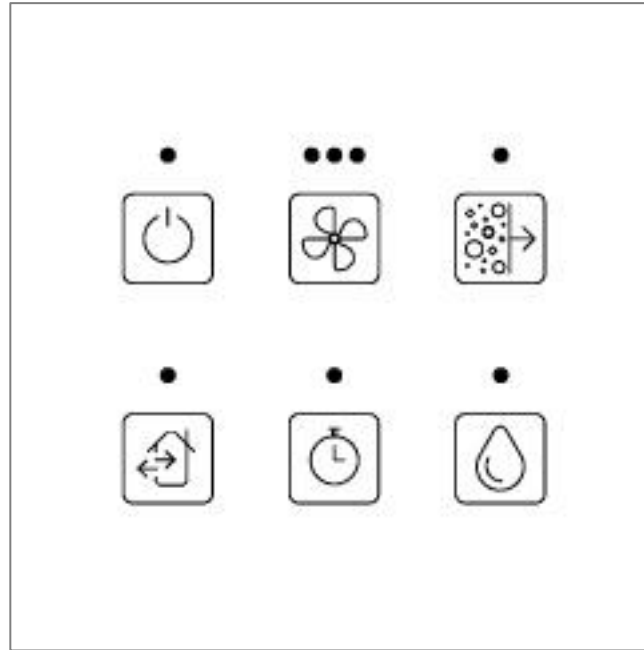The shutters are closed   The shutters are open

Wall mounted remote control

VLR 70 S(L)
Wired wall control
(as standard)

KV1* wired wall control
Only for VENTO Eco
group installation

KV wired wall control,
VENTO Eco (as standard),
VENTO Expert (as option)

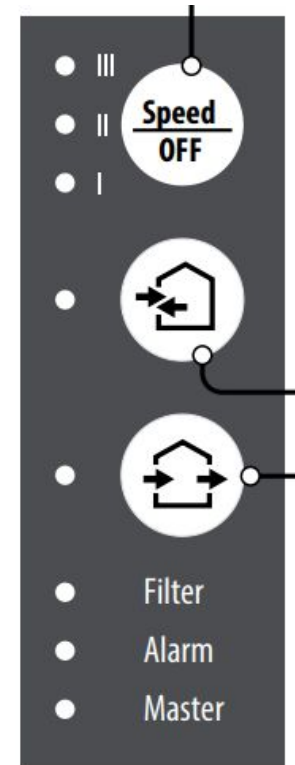*serial production from the beginning of 2023*

Control panel on the unit

VLR 70 S(L)

VENTO Eco

VENTO Expert
(as standard)

Not available

Not available

IR wireless remote control

VLR 70 S(L)

VENTO Eco

VENTO Expert
(as standard)

Not available

Not available

Wi-Fi control

VLR 70 S(L)

VENTO Eco

VENTO Expert Wi-Fi

Not available

Not available

- «Blauberg home» mobile App.
- Google assistant + Google home App.
- Speed settings
- Modes (supply, exhaust, regeneration)
- Week schedule
- Timers
- Night and party mode
- Sensor's settings
- Engineering menu
- Alarm history

Controls

Function	VLR 70 S(L)	VENTO Eco	VENTO Expert	
	Wired wall control		Side control panel + wireless control	
"On-Off" button	-	-	✓	-
Timers and night mode button	-	✓	✓	✓
Wi-Fi button and indicator	-	✓	✓	✓
Timers setting	✓	✓	-	✓
"Fan stage" indicator	✓	✓	✓	✓
"UP" "DOWN" buttons	✓	-	-	-
"Filter" indicator	✓	✓	✓	✓
"Fault" indicator	✓	✓	✓	✓
"Cross-ventilation" button + indicator	✓	✓	✓	✓
"Differential mode" button + indicator	✓	✓	-	✓

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Sensors

TYPE	VLR 70 S(L)	VENTO Eco	VENTO Expert
PM 2,5 fine dust sensor (option)	✓	✓ **	✓ *
CO2	✓ *	✓ **	
On board humidity sensor	-	-	✓
0-10 sensor	-	-	✓

*supplied by third party production
** only for VENTO Eco group kit
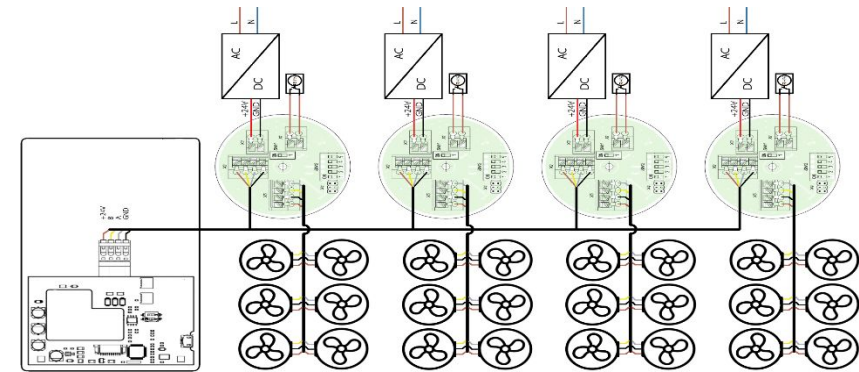
Group connections

VLR 70 S(L)
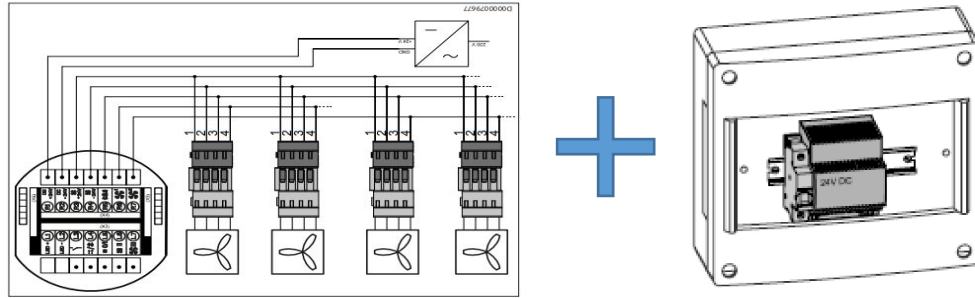
VENTO Eco*

1. Wired connection - up to 8 fans
2. No more unit connected to the network
3. Additional big junction box is needed for power units.
4. There is no central control panel.

serial production from the beginning of 2023

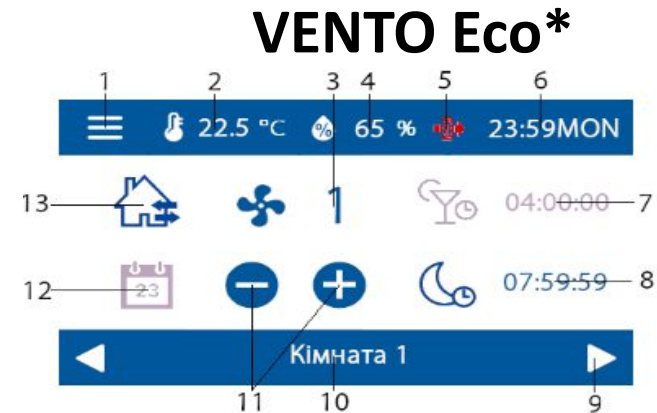1. Wired connection – up to 4 zones (maximum 24 units).
2. Any of VENTO Eco unit can be added.
3. Power units are hidden in the sockets with cap.
4. LCD central control panel with settings for each zone.

Central LCD control panel

VLR 70 S(L)

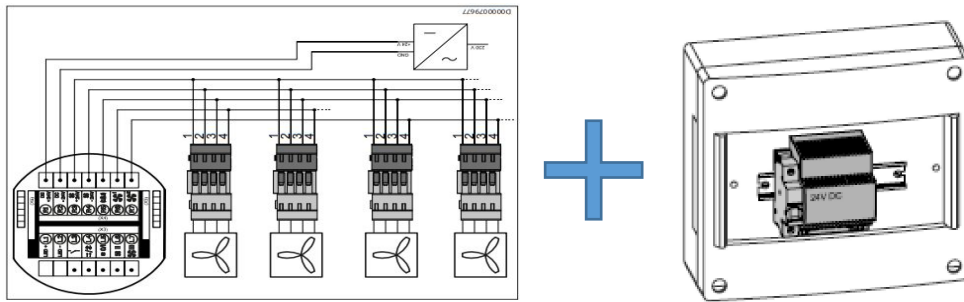**VENTO Eco***

Not available

1-settings,

2 – temp,

3-speed,

4-RH,

5-Filter,

6-time,

7-party timer,

8-night mode,

9- next zones,

10-current zone,

11-set «+» or «-»,

12 calendar,

13 – mode (regeneration, supply, exhaust).

serial production from the beginning of 2023

Group connections

VLR 70 S(L)

1. Wired connection - up to 8 fans
2. No more unit connected to the network
3. Additional junction boxes are needed for power units

VENTO Expert

1. Wired connection – no limits. Wired connection - up to 8 (slave) fans can be connected to the one Master unit.
2. Quantity of the units, connected to the network through a Wi-Fi router, is not limited.
3. No additional junction boxes needed

Thank you.