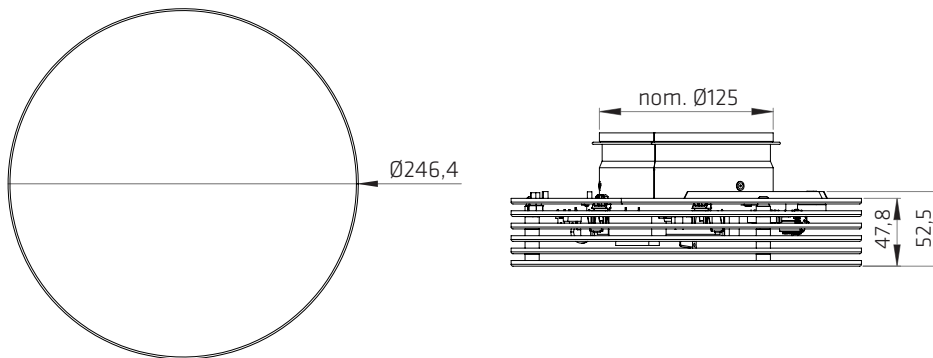


ECO-C

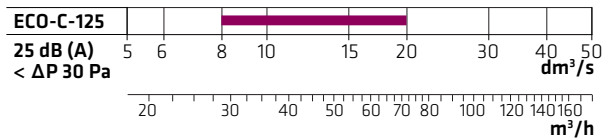


In addition to energy efficient heating the ECO-C ceiling valve ensures high-quality balanced air distribution in a passive house.

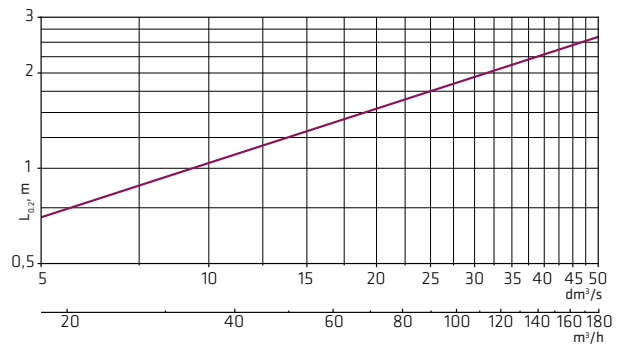
Dimensions



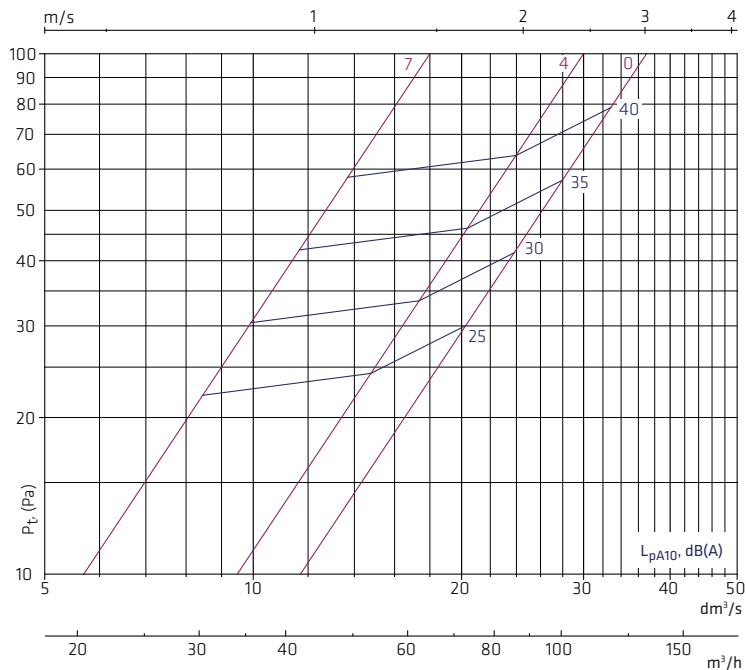
Quick guide



Throw length

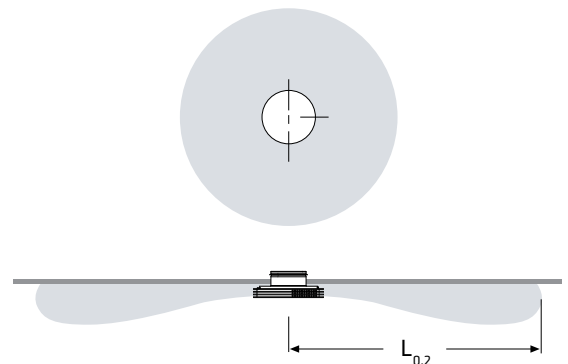


Dimensioning



$L_{w\text{okt}} = L_{pA10} + K$							
f, Hz	63	125	250	500	1k	2k	4k 8k
K, dB	-4	-2	-1	-2	-2	-3	-5 -9
ΔL (dB)							
f, Hz	63	125	250	500	1k	2k	4k 8k
Dt, dB	22	14	8	5	2	2	5 7

Throw pattern

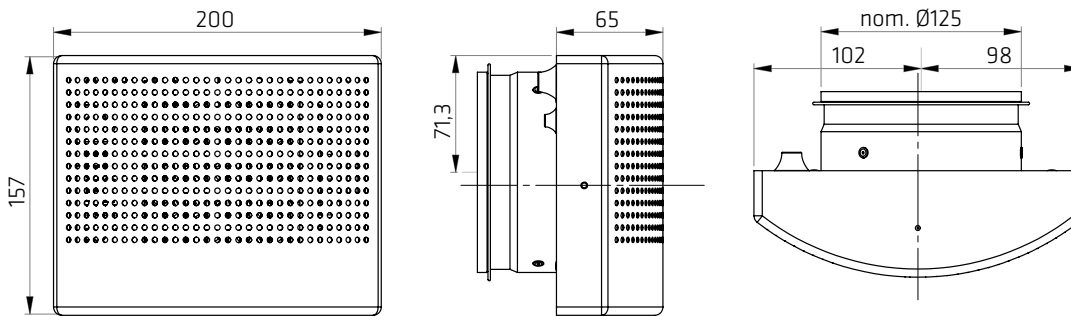


ECO-W

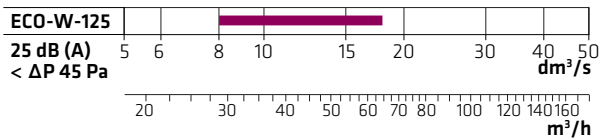


The classic ECO-W valve can be surface-mounted onto a wall.

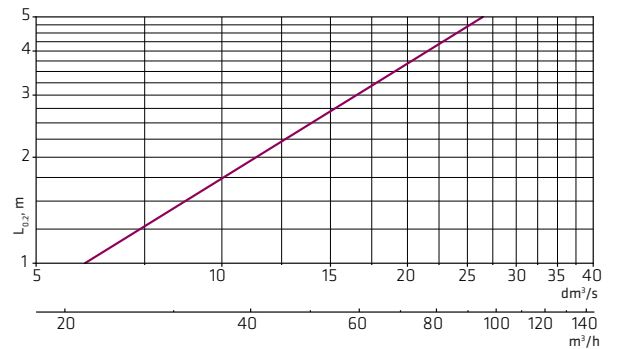
Dimensions



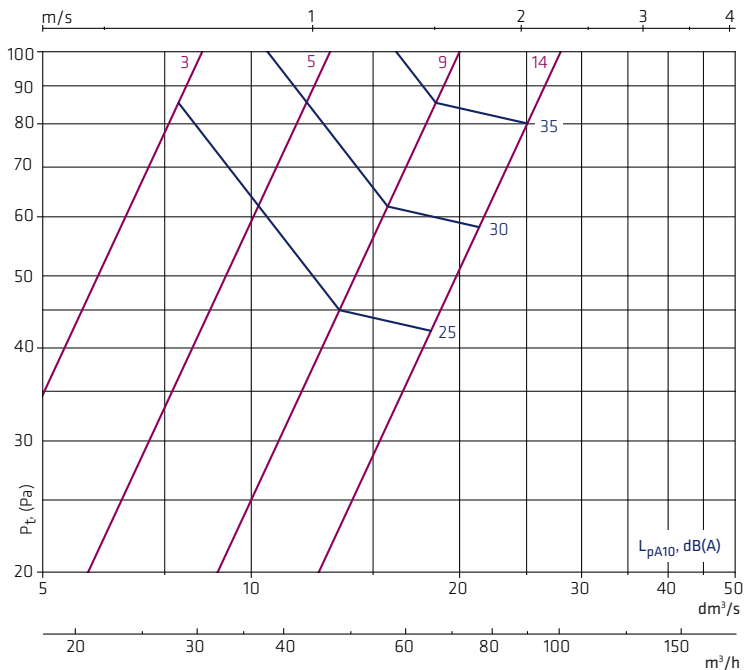
Quick guide



Throw length



Dimensioning



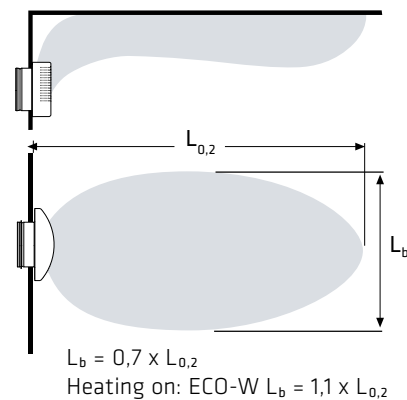
$L_{w\text{okt}} = L_{pA10} + K$

f, Hz	63	125	250	500	1k	2k	4k	8k
K, dB	-5	-4	-3	0	-1	-4	-8	-9

ΔL (dB)

f, Hz	63	125	250	500	1k	2k	4k	8k
Dt, dB	23	16	9	3	2	4	5	5

Throw pattern

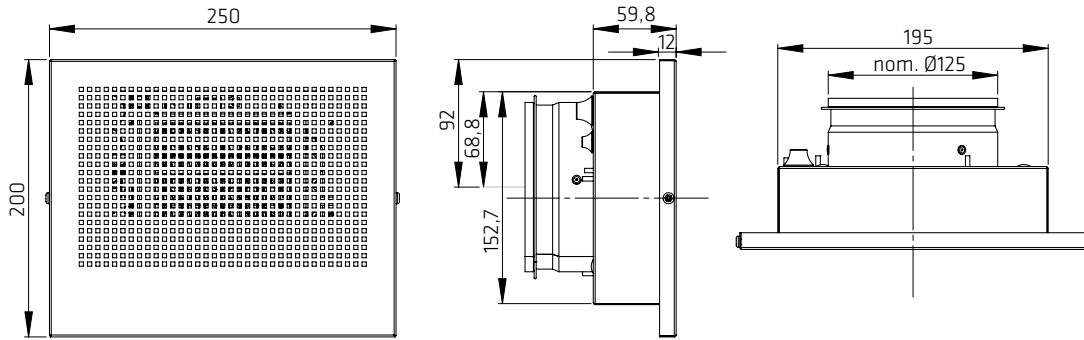


ECO-F

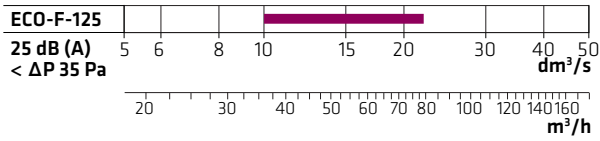


The flush-mounted ECO-F valve is a stylish choice for any modern apartment.

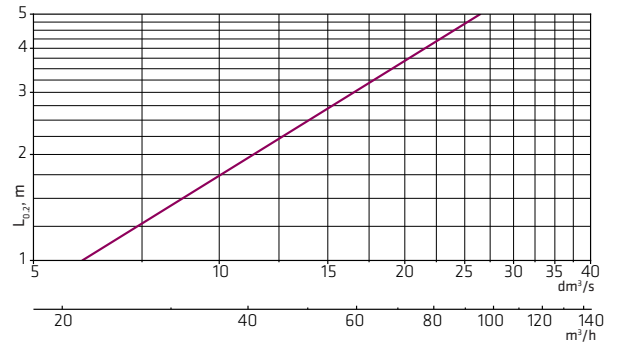
Dimensions



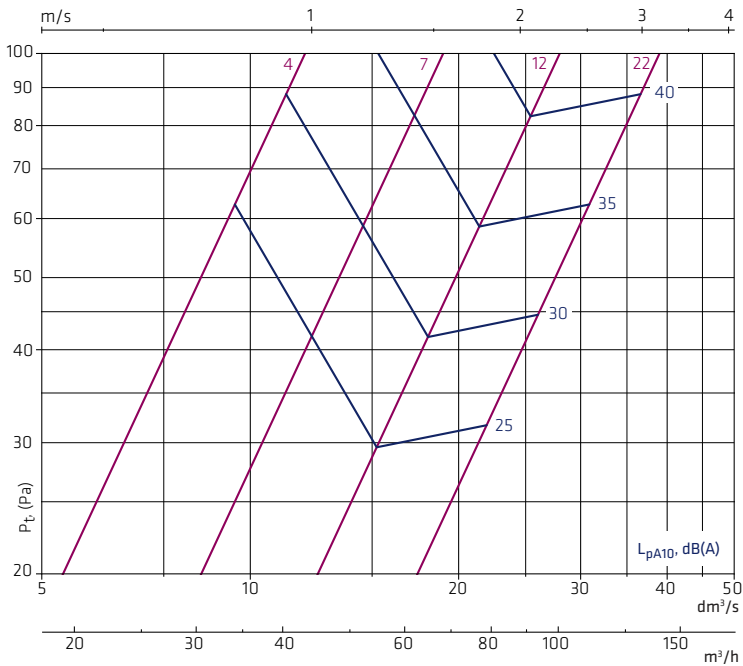
Quick guide



Throw length



Dimensioning



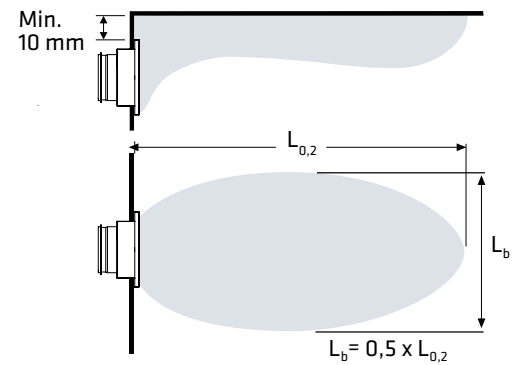
$$L_{w\text{okt}} = L_{pA10} + K$$

f, Hz	63	125	250	500	1k	2k	4k	8k
K, dB	-4	-3	-3	1	-1	-6	-11	-10

ΔL (dB)

f, Hz	63	125	250	500	1k	2k	4k	8k
Dt, dB	22	16	9	2	1	4	4	4

Throw pattern



$$L_b = 0,7 \times L_{0,2}$$

Heating on: ECO-F $L_b = 1,0 \times L_{0,2}$

ECO-T room control unit



Display	Capacitive touch TFT Display QVGA 2.3
Display resolution	320x240
Microprocessor	32-bit ARM Cortex-M3 microcontroller/ LPC1766FBD100
Flash memory	Serial flash memory 32Mbit
External memory	MicroSD card
Communication	Modbus RTU via RS-485
Temperature sensors	Internal 10K NTC sensor, external NTC sensor option
Operating temperature	+5/40°C
IP class	IP20
Dimensions	88x88x35
Power source	8-50 VDC
Power consumption	0.5 W

Air heater specifications

Supply Voltage	230 VAC / 50Hz
Connectors	2 x 2.5 mm ² (PE) supply voltage. 4 x 0.8 mm ² Controller Input / RS485 (MODBUS)
Nominal Power	400 W (6-20 dm ³ /s)
Circuit Breaker	min. C6 A
Rated Current	1,7 A

Room control unit specifications

Voltage	8-50 VDC
Connectors	4 x 0.8 mm ² power supply + 3 x 0.8 mm ² RS485 (MODBUS)
Enclosure class	IP20, flush mounting (mounting box)
Factory setting	Set point 21 °C, Temperature setting range 10 ... 28 °C, hysteresis ± 0.2 °C

Connection

- NOTE! Lead the 230 V supply voltage to the device through a double-pole switch. Connect the supply voltage to connectors N and L in the electronics section of the terminal device, as shown in Figures 2.1-2.3.
- Connect the ground to the terminal device's separate ground connector as shown in Figures 2.1-2.3.
- Connect the ECO series terminal device to the controller with the Modbus cable as shown in Figures 2.1-2.3.
- Connect the bus cables as shown in the figures.
- Activate the termination resistor by moving the termination jumper to the ON position in the first and last device of the bus.

NOTE! Electrical connections may only be made by a professional electrician.

WARNING! The supply air device carries a voltage of 230 V.

U = 230V I_n = 1,7 A

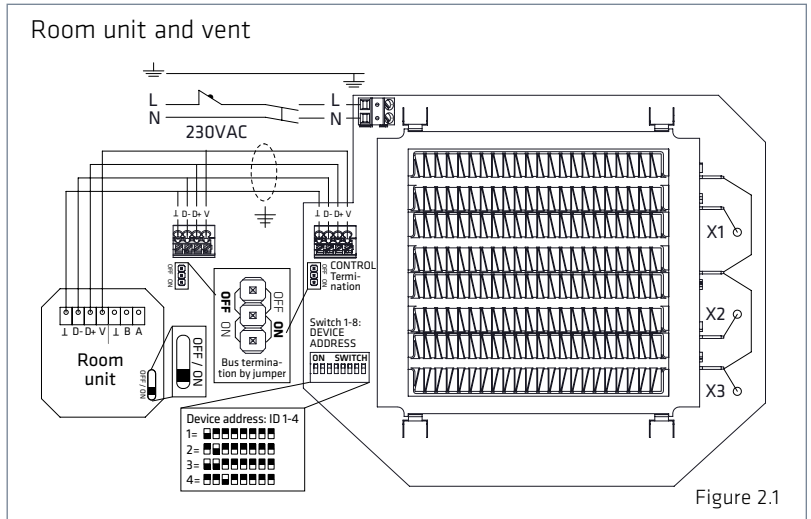


Figure 2.1

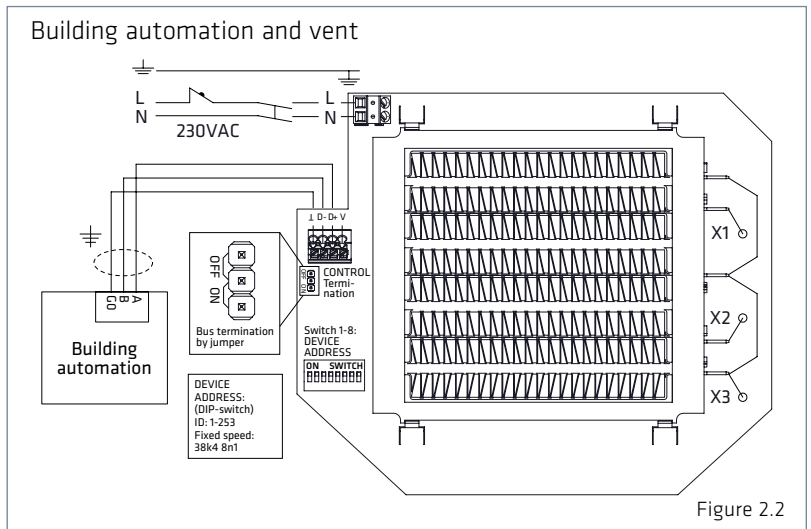


Figure 2.2

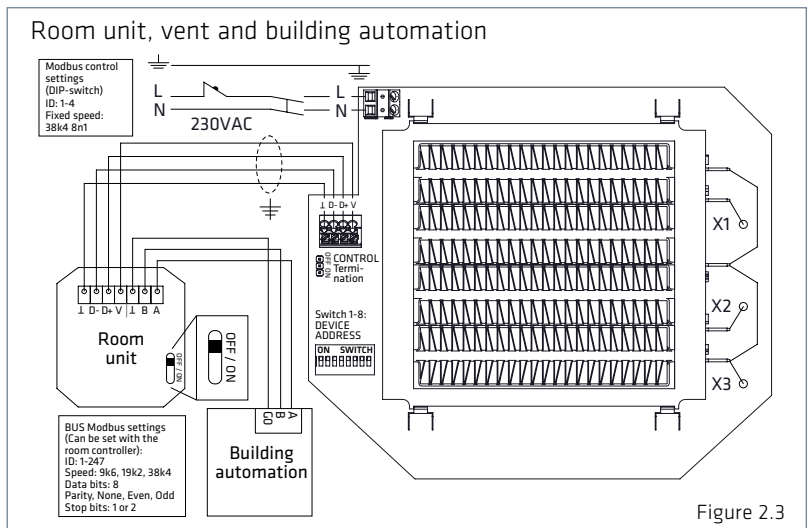


Figure 2.3

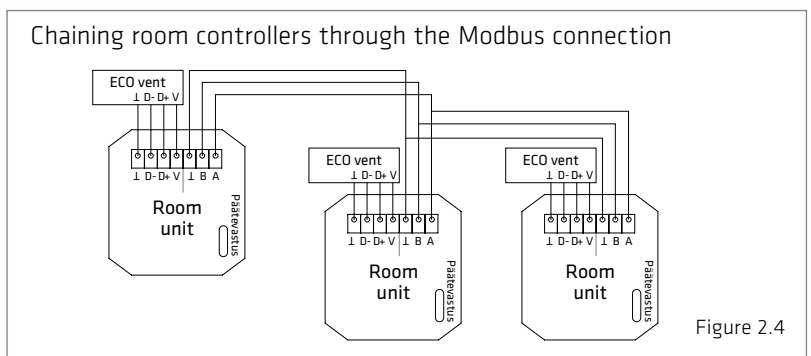


Figure 2.4