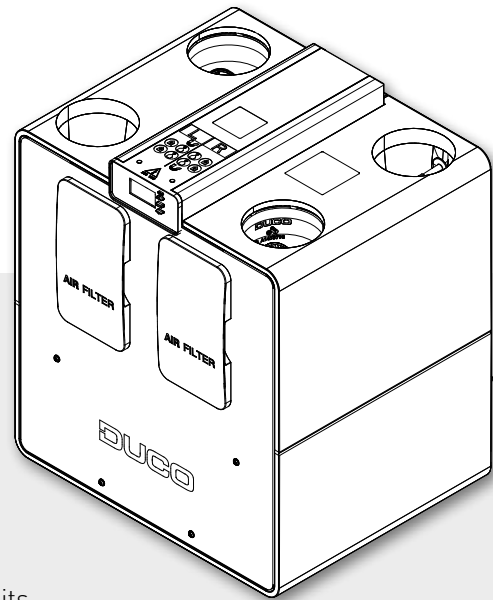


TECHNICAL DATA SHEET

DucoBox Energy Comfort D250



The DucoBox Energy Comfort D250 is the **most compact Mechanical Ventilation with Heat Recovery (MVHR)** unit within the gamut of The Energy Family.

The 100 % software-based L/R exchange, smart demand control based on CO₂ and humidity, and automatic calibration ensure maximum energy efficiency.

The 2-zone control reduces noise levels by at least 30 %. Thanks to its **quiet operation, automatic calibration, and copy function**, this unit combines maximum ease of installation with excellent living comfort — ideal for apartments and compact homes.

Versions

Type	Supply and extraction capacity at 150 Pa	Supply and extraction capacity at 200 Pa	2-zone system	Frost protection	Item number
DucoBox Energy Comfort D250	250 m ³ /h	221 m ³ /h	Yes (external - optional)	Imbalance or external heater (optional)	0000-7073

Physical properties

Width x Height x Depth (mm)	Overall dimensions: 561 x 669 x 491 Box dimensions: 561 x 600 x 451
Casing	Coated sheet steel + EPP
Colours	White + black
Connections	Inner diameter: Ø 125 mm
Condensate drain	Ø 32 mm (1 ¼ in) [2x]
Heat exchanger	Plastic
Material of inside section	EPP / PP / ABS
Weight	18 kg
Power cable length	2 m (from top of unit)
Mounting	Wall mounting (standard) Floor mounting as an option using a support frame

Electrical characteristics

Maximum power	100 W
Power supply	230V, 50Hz via 3-core power cable with earthed plug
Type of motor	DC
IP class	IP40
Energy conversion efficiency	89.5% (EN 13141-7)

Miscellaneous characteristics

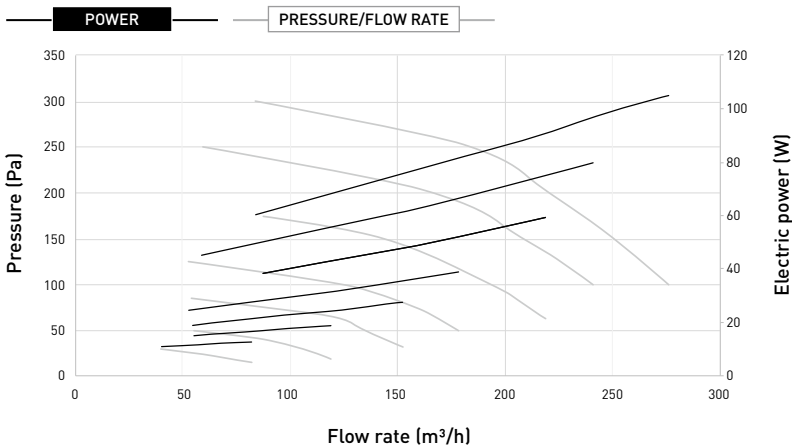
Energy class	With 2 sensors (control factor 0,65): A+ Other: A
Filters	Supply air: Standard: ISO 16890 Coarse 65% (=G4) Optional: ISO 16890 ePM1 55 % (=F7) Exhaust air: Standard: ISO 16890 Coarse 65 % (=G4)
Fans	EC fan with forward-curved blades
Automatic calibration	Yes (Constant Pressure & Constant Flow)
Installer App	Via Duco Connectivity Board (if permanently mounted) Via Duco Installation Kit (mobile application)
Passive cooling	Automatic passive cooling control via "NightBoost" function
Operation	Use via remote controls and CO ₂ or humidity sensors Optional via smartphone/tablet (provided the Duco Connectivity Board is included)
Sensors	Integrated: pressure, temperature, onboard, switch sensor External: CO ₂ (via optional Room sensor), Humidity (via optional Room sensor or measurement in ETA duct), external Switch Sensor (voltage-free input) (optional)
Communication	Standard Duco RF, Duco Wired, Switch Sensor Expandable with Duco Connectivity Board: Modbus TCP (local), REST API (local or via cloud) - both via Ethernet or Wi-Fi

Pressure/flow characteristics

Flow rate (m ³ /h)	Pressure (Pa)	Absorbed power * (W)
223	200	91
200	200	80
150	200	59
237	175	95
200	175	74
150	175	54
250	150	100
200	150	70
150	150	49
200	100	58
150	100	39
100	100	28

* The values mentioned are an estimate and cannot be used as substantiation.

DucoBox Energy Comfort D250



Acoustic properties

Emission from casing measured in accordance with ISO 3741:2010
 Supply and extraction noise level according to ISO 5135:1997 (with duct correction)

1. Emission from casing

Flow rate m³/h	Pressure Pa	LwA emission from casing dB(A)	Octave band frequencies Hz							
			63	125	250	500	1000	2000	4000	8000
250	150	54,3	43,2	47,8	54,9	52,8	48,5	46,0	40,0	31,4
225	150	53,2	42,2	47,6	53,9	51,6	47,5	44,8	38,5	29,6
200	150	52,2	42,4	46,7	52,5	50,7	46,7	43,7	38,4	28,7
200	125	51,2	42,9	45,8	51,7	49,6	45,7	42,6	37,0	27,6
175	125	50,0	41,5	45,0	50,3	48,3	44,8	41,2	35,6	26,4
150	125	49,0	43,3	44,5	49,7	47,1	44,0	39,6	34,4	25,7
150	100	47,7	41,9	42,7	48,3	46,4	42,7	37,4	32,0	25,0
125	100	46,5	42,4	42,2	47,9	44,5	41,5	36,0	30,2	24,6
100	100	45,1	44,1	41,5	46,4	43,0	40,3	34,7	28,5	24,5
100	75	43,5	41,9	39,7	45,7	41,2	38,6	32,1	25,4	24,3
75	75	42,1	39,9	37,4	44,7	39,9	37,1	30,7	23,8	24,2
175	50	46,2	37,1	39,8	47,2	44,4	41,2	36,7	29,5	24,7
75	50	38,9	37,1	34,8	39,8	37,5	34,7	26,3	21,4	24,2
50	50	37,0	35,8	31,7	37,6	35,9	32,4	24,4	20,9	24,1
50	25	35,7	39,1	30,7	32,9	37,6	28,6	21,1	20,5	24,2
25	25	34,3	34,0	31,3	37,2	31,8	27,3	20,5	20,5	24,2

2. Supply noise

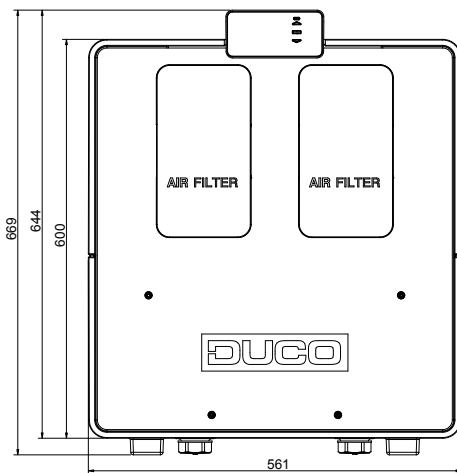
Flow rate m³/h	Pressure Pa	LwA supply dB(A)	Octave band frequencies Hz							
			63	125	250	500	1000	2000	4000	8000
250	150	69,1	75,7	74,0	74,2	65,8	61,5	57,5	48,9	42,4
225	150	67,6	76,5	73,9	72,5	64,4	60,3	56,1	47,1	40,1
200	150	66,7	77,6	74,1	71,9	63,0	59,1	54,6	45,3	37,6
200	125	65,8	76,0	73,0	71,4	61,9	58,2	53,6	44,2	36,3
175	125	64,2	76,6	72,6	69,2	60,2	56,9	51,3	42,0	33,4
150	125	63,3	78,5	72,1	68,1	59,0	55,9	49,1	40,2	31,1
150	100	61,5	75,5	69,9	66,4	57,3	54,6	46,9	38,0	28,9
125	100	60,6	75,6	69,7	65,8	55,6	53,2	44,7	35,6	27,0
100	100	59,4	77,1	69,0	64,0	53,6	52,1	43,3	33,4	25,9
100	75	58,1	79,1	66,9	61,7	51,6	50,0	40,4	29,6	24,8
75	75	57,1	80,2	64,7	58,6	50,2	48,6	39,6	27,2	24,5
175	50	60,5	71,6	68,6	65,8	56,3	53,8	46,2	36,8	28,7
75	50	52,4	71,9	62,0	55,9	47,6	45,2	34,8	23,1	24,2
50	50	49,7	70,1	58,1	52,4	45,8	42,2	32,3	21,8	24,2
50	25	44,4	65,4	52,9	46,9	40,6	36,4	23,7	20,7	24,2
25	25	41,4	60,7	48,5	44,4	38,1	34,8	22,4	20,6	24,2

3. Extraction noise

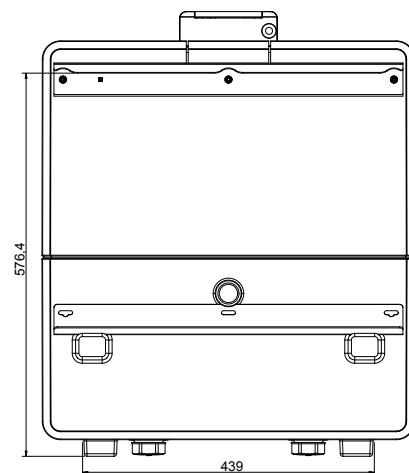
Flow rate m³/h	Pressure Pa	LwA extraction dB(A)	Octave band frequencies Hz							
			63	125	250	500	1000	2000	4000	8000
250	150	54,5	69,1	61,7	57,8	51,3	46,0	42,2	33,1	25,7
225	150	53,1	68,2	60,7	56,8	49,2	44,2	40,2	30,7	24,8
200	150	51,5	66,2	60,1	54,6	47,1	42,4	38,2	28,8	24,3
200	125	50,9	65,3	59,6	53,7	46,8	41,9	37,5	27,9	24,3
175	125	49,5	64,0	58,8	52,2	44,5	40,2	36,3	26,1	24,1
150	125	48,1	64,8	56,8	50,7	43,0	39,1	32,9	25,0	24,1
150	100	46,5	62,9	55,1	49,1	41,5	38,4	31,4	23,8	24,1
125	100	45,8	64,2	54,9	47,9	39,6	35,8	29,6	23,0	24,0
100	100	44,7	63,6	54,1	46,8	39,0	34,0	28,2	22,4	24,0
100	75	43,4	62,2	52,2	44,8	37,0	31,9	26,0	21,4	24,0
75	75	41,9	62,4	49,3	42,0	35,6	30,1	24,7	21,1	24,0
175	50	47,6	61,0	57,5	49,8	42,4	37,7	33,8	23,2	24,1
75	50	38,1	57,8	47,0	39,3	32,8	27,7	22,4	20,7	24,0
50	50	36,0	57,7	43,9	35,7	30,1	25,5	21,4	20,7	24,0
50	25	32,5	53,1	40,4	31,5	28,2	22,6	19,9	20,6	24,0
25	25	31,4	50,3	39,3	31,0	26,3	21,5	19,7	20,6	24,0

Dimensions of DucoBox Energy Comfort D250

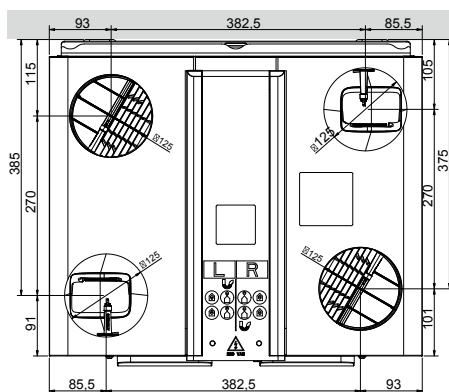
Front view



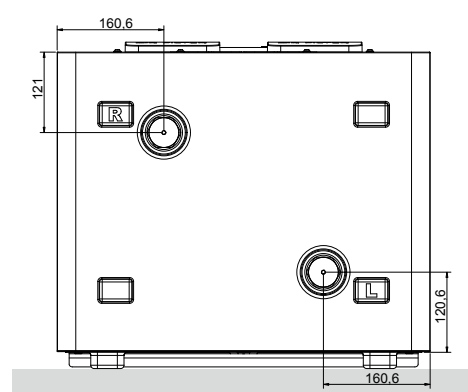
Rear view



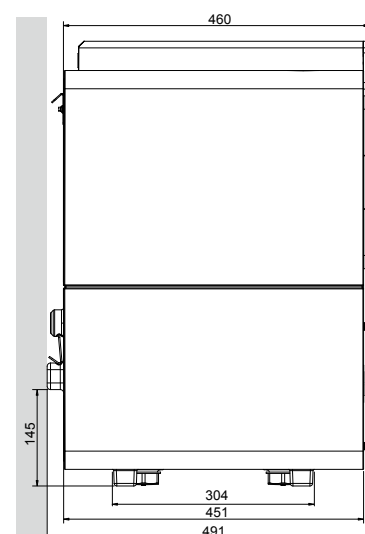
Top view



Bottom view



Side view



Optional accessories

Product	Item number
Siphon Flat (Energy)	0000-4376
Duco Connectivity Board 2.0	0000-4945
Humidity Box Sensor Energy Comfort	0000-4723
Mounting chair standing (Energy Comfort (Plus) D250)	0000-7134
Filter set 2 x Coarse 65 % (Energy Comfort (Plus) D250)	0000-7132
Filter set Coarse 65 % / ePM1 55 % (Energy Comfort (Plus) D250)	0000-7133
Set Coax cable 8 m	0000-4418
Pre-Heater DucoBox Energy Comfort (Plus) 1150 W	0000-5011
External multi-zone valves	Miscellaneous
Remote controls and room sensors	Miscellaneous
(Insulated) connection piece with joint	Miscellaneous