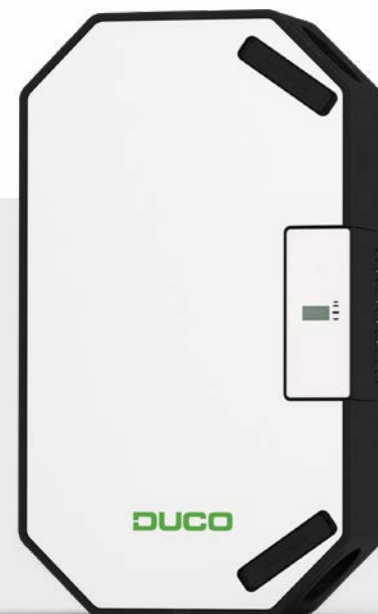


TECHNICAL DATA SHEET

DucoBox Energy Sky D275

The DucoBox Energy Sky with a ventilation flow rate of 275 m³/h has been specially developed for **mounting in compact technical rooms and cramped storage areas**, such as in apartment buildings.

This **lightweight ceiling model** perfectly complements our Energy Family (Mechanical Ventilation with Heat Recovery systems) and, thanks to its limited height of 30 cm, also fits seamlessly into suspended ceilings. The unit can also be wall-mounted.

All the advantages of the other DUCO MVHR systems were adopted here, including the possibility of 2-zone control via external valve, automatic calibration, copy function, head-up display, etc.

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 Sky D275	275 m ³ /h	275 m ³ /h	yes (external - in option)	imbalance or external heater (Q1/2025)	0000-4939

EPB input values

Control strategy:	Speed control and variable pressure
Type of motors:	EC motor with commutation control
Maximum power motors:	130 W (2 x 65 W)
Ventilation group with heat recovery:	Yes
Efficiency*:	At 274 m ³ /h: 85 % At 231 m ³ /h: 86 % At 180 m ³ /h: 87 % At 140 m ³ /h: 88 %
Auto regulation (constant flow):	Yes
Summer by-pass:	Completely
Demand control reduction factors:	$F_{\text{reduc,vent,heat}} = \text{from } 1.0 \text{ to } 0.45$ $F_{\text{reduc,vent,cool}} = 1.0$ $F_{\text{reduc,vent,overheat}} = 1.0$

** In accordance with EN 13141-7:2021 (in accordance with EPB legislation - Annex G of Annex 5)

Physical characteristics

Width x Height x Depth (mm)	670 x 1180 x 295
Casing	EPP + Polystyrene
Colours	White + black
Connections	Internal diameter: Ø 160 mm
Condensate drain	Ø 32 mm (1 ¼")
Heat exchanger	Polystyrene
Material of inside section	EPP / PP / ABS
Weight	19 kg
Power cable length	2 m (from side of unit)
Mounting	Ceiling mounting Wall mounting (vertical)

Electrical characteristics

Power supply	230 V, 50 Hz via 3-core power cable with earthed plug
Contacts	0-10 V in/output
Type of motor	DC
IP class	IP41

Miscellaneous characteristics

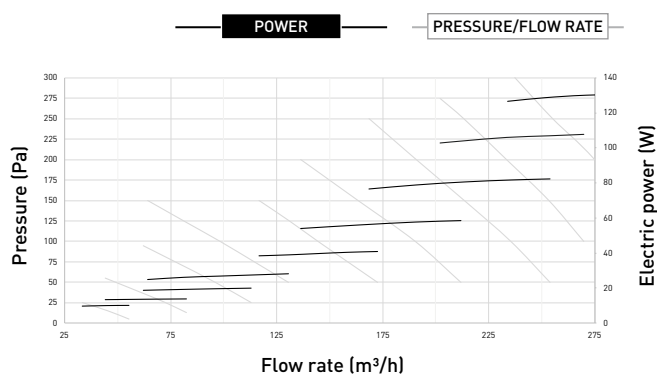
Energy class	With 2 sensors (control factor 0.65): A+ Other: A
Filters	Filter supply air (175 x 500 x 25 mm) Standard: ISO 16890 Coarse 65 % (= G4) Optional: ISO 16890 ePM1 55 % (= F7) Filter exhaust air (240 x 170 x 27 mm) Standard: ISO 16890 Coarse 65 % (= G4)
Fans	EC fan with backward curved blades
Automatic calibration	Yes (constant pressure)
Installer App	Via Duco Connectivity Board (if permanently mounted) Via Duco Installation Kit (mobile application via USB-C connection)
Passive cooling	Automatic passive cooling control via 'NightBoost' function
Operation	Integrated display Use via remote controls and Room CO ₂ or Humidity Sensors Optional via smartphone/tablet (provided Duco Connectivity Board in device)
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)
250	250	129
200	250	94
275	200	130
250	200	114
200	200	83
150	200	60
275	150	129
200	150	72
150	150	49
200	100	61
150	100	41

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

DucoBox Energy Sky D275



Acoustic properties

Emission from casing measured in accordance with ISO 3741:2010

Supply and extraction noise level according to ISO 5135:2020 (with duct correction)

1. Emission from casing

Flow rate m ³ /h	Pressure Pa	LwA emission from casing dB(A)	Octave band frequencies Hz							
			63	125	250	500	1000	2000	4000	8000
275	200	54,0	57,7	53,6	52,8	52,1	47,9	45,1	43,2	34,3
275	150	53,0	56,6	53,6	51,9	51,9	46,8	44,5	42,1	32,8
220	200	50,0	58,1	47,0	50,1	48,8	43,7	41,6	38,7	30,1
220	150	49,5	58,4	46,5	49,7	49,0	42,7	40,8	37,6	< 28,6
165	150	45,5	51,3	43,7	48,7	43,0	38,7	36,6	31,9	< 23,8
165	100	44,0	45,7	43,1	46,8	40,8	37,1	34,9	29,3	< 18,5
110	100	40,0	41,8	43,2	43,1	38,2	34,1	30,2	< 22,5	< 14,9
110	50	37,0	< 36,8	36,8	39,8	34,9	31,9	26,6	< 17,6	< 14,0
55	50	32,5	< 36,9	33,8	35,6	31,4	26,9	19,6	< 11,3	< 13,6
55	25	30,5	< 33,3	32,2	33,7	29,3	23,9	< 16,3	< 10,3	< 13,8

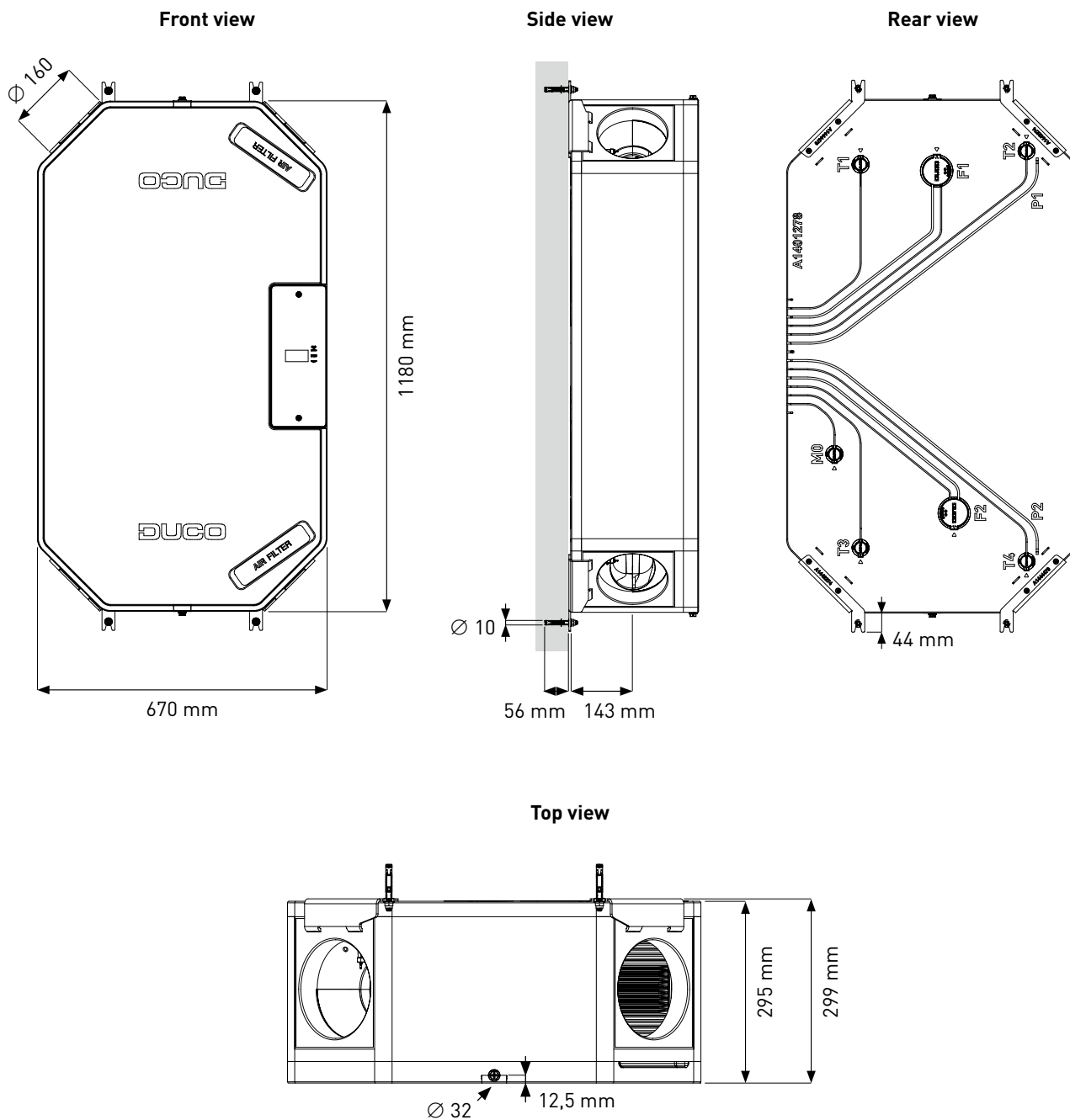
2. Supply noise

Flow rate m ³ /h	Pressure Pa	LwA supply dB(A)	Octave band frequencies Hz							
			63	125	250	500	1000	2000	4000	8000
275	200	72,0	78,3	71,2	68,5	73,5	62,8	61,6	59,1	47,1
275	150	71,0	77,8	70,2	68,2	72,4	62,3	61,4	58,7	46,3
220	200	69,5	75,9	68,7	66,4	72,5	59,1	57,6	54,2	41,2
220	150	68,0	74,7	67,5	65,7	70,5	58,8	57,5	53,7	40,3
165	150	62,5	72,6	66,1	66,5	59,2	54,2	52,9	47,6	33,3
165	100	62,5	71,6	64,4	67,3	58,0	53,1	51,8	45,8	30,8
110	100	56,5	65,8	63,6	60,6	54,0	49,3	46,0	38,0	24,8
110	50	54,0	< 63,3	59,8	59,7	50,7	46,3	42,3	33,6	< 18,5
55	50	47,5	< 61,5	56,4	50,1	45,9	40,4	31,6	< 22,0	< 14,4
55	25	43,5	< 58,4	53,4	45,7	41,7	36,1	26,4	< 15,7	< 14,0

3. Extraction noise

Flow rate m ³ /h	Pressure Pa	LwA extraction dB(A)	Octave band frequencies Hz							
			63	125	250	500	1000	2000	4000	8000
275	200	57,5	80,6	62,4	59,7	51,0	47,0	40,3	33,5	< 20,5
275	150	54,5	69,9	62,2	58,5	51,6	46,8	40,0	32,9	< 19,9
220	200	53,0	73,9	59,7	57,2	48,3	43,7	37,0	29,6	< 17,3
220	150	52,0	73,9	58,1	56,4	48,8	42,5	36,3	28,5	< 16,5
165	150	50,0	75,6	55,8	54,7	43,7	38,7	31,7	< 22,7	< 14,5
165	100	47,5	68,2	54,1	53,6	42,2	37,5	30,9	< 21,5	< 14,3
110	100	44,5	57,6	51,4	51,7	38,8	33,6	25,9	< 15,2	< 13,9
110	50	41,5	< 57,4	48,8	48,8	35,1	30,8	22,5	< 12,4	< 13,8
55	50	37,5	57,8	48,0	42,8	31,2	26,0	< 14,8	< 8,7	< 13,5
55	25	33,5	< 55,5	44,5	38,7	27,4	21,6	< 11,0	< 8,4	< 13,5

Dimensions DucoBox Energy Sky D275



Optional accessories

Product	Item number
Siphon flat (Energy)	0000-4376
Duco Connectivity Board	0000-4945
Humidity Box Sensor (Energy Comfort (Plus)/Sky)	0000-4723
Multi-zone valve DucoBox Energy Sensorless D125	0000-4761
Multi-zone valve DucoBox Energy Sensorless D160	0000-4760
Connection piece with joint D160/D160 (M/M)	0000-4724
Connection piece with joint D180/D160 (M/M)	0000-4725
Connection piece 45° with joint D160/D160 (M/M)	0000-4949
Set Coaxial cable (8 m)	0000-4418
Filter set 2 x Coarse 65 % (Energy Sky D275)	0000-4950
Filter set Coarse 65 % / ePM1 55 % (Energy Sky D275)	0000-4951