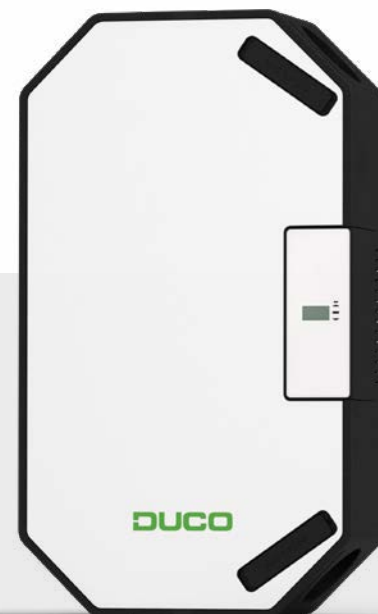


TECHNICAL DATA SHEET

DucoBox Energy Sky D275 UK



The DucoBox Energy Sky with a ventilation flow rate of 275 m³/h (= 76 l/s, at 200 Pa) has been specially developed for **ceiling or wall mounted applications in compact technical rooms storage areas**.

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 UK	275 m ³ /h (76 l/s)	275 m ³ /h (76 l/s)	yes (external - in option)	imbalance or external heater (Q1/2025)	0000-4940

Physical properties

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 properties

Maximum power motors	130 W (2 x 65 W)
Power supply	230 V, 50 Hz via 3-core power cable with earthed plug
Type of motor	DC
IP class	IP41
Energy conversion efficiency	91.2 % (EN 13141-7)

Various properties

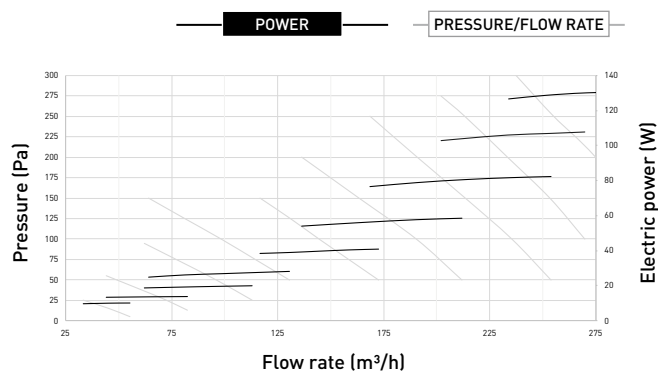
Energy class	With 2 sensors (control factor 0.65): A+ Other: A
Filters	Filter supply air (175 x 500 x 25 mm) Standard: ISO 16890 Coarse 65 % (= G4) Optional: ISO 16890 ePM1 55 % (= F7) Filter exhaust air (240 x 170 x 27 mm) Standard: ISO 16890 Coarse 65 % (= G4)
Fans	EC fan with backward curved blades
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 unit)
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 properties

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 UK



Systems with rigid ductwork only SAP 2005 results

Exhaust terminal configuration	Specific power of fan (W/l/s)	Heat exchange efficiency (%)
Kitchen + 1 additional wet room	0.69	94
Kitchen + 2 additional wet rooms	0.60	93
Kitchen + 3 additional wet rooms	0.59	92
Kitchen + 4 additional wet rooms	0.64	91
Kitchen + 5 additional wet rooms	0.70	91
Kitchen + 6 additional wet rooms	0.80	90
Kitchen + 7 additional wet rooms	0.93	90

Systems with rigid ductwork only SAP 2012 results

Exhaust terminal configuration	Specific power of fan (W/l/s)	Heat exchange efficiency (%)
Kitchen + 1 additional wet room	0.64	93
Kitchen + 2 additional wet rooms	0.63	92
Kitchen + 3 additional wet rooms	0.68	91
Kitchen + 4 additional wet rooms	0.83	90
Kitchen + 5 additional wet rooms	0.97	90
Kitchen + 6 additional wet rooms	1.16	90
Kitchen + 7 additional wet rooms	1.39	89

Sound data

Standards: ISO 5135:2020

Fan Speed	Test mode	Induct Sound Power Levels, dB re. 1pW									
		Octave bands, Hz								LwA	SPL @ 3m
		63	125	250	500	1k	2k	4k	8k		
100%	Supply	77.8	70.2	68.2	72.4	62.3	61.4	58.7	46.3	71.0	53.5
	Extract	69.9	62.2	58.5	51.6	46.8	40.0	32.9	< 19.9	54.5	37.0
	Breakout	56.6	53.6	51.9	51.9	46.8	44.5	42.1	32.8	53.0	35.5
80%	Supply	74.7	67.5	65.7	70.5	58.8	57.5	53.7	40.3	68.0	50.5
	Extract	73.9	58.1	56.4	48.8	42.5	36.3	28.5	< 16.5	52.0	34.5
	Breakout	58.4	46.5	49.7	49.0	42.7	40.8	37.6	< 28.6	49.5	32.0
60%	Supply	71.6	64.4	67.3	58.0	53.1	51.8	45.8	30.8	62.5	45.0
	Extract	68.2	54.1	53.6	42.2	37.5	30.9	< 21.5	< 14.3	47.5	30.0
	Breakout	45.7	43.1	46.8	40.8	37.1	34.9	29.3	< 18.5	44.0	26.5
40%	Supply	< 63.3	59.8	59.7	50.7	46.3	42.3	33.6	< 18.5	54.0	36.5
	Extract	< 57.4	48.8	48.8	35.1	30.8	22.5	< 12.4	< 13.8	41.5	24.0
	Breakout	< 36.8	36.8	39.8	34.9	31.9	26.6	< 17.6	< 14.0	37.0	19.5
20%	Supply	61.5	56.4	50.1	45.9	40.4	31.6	< 22.0	< 14.4	47.5	30.0
	Extract	57.8	48.0	42.8	31.2	26.0	< 14.8	< 8.7	< 13.5	37.5	20.0
	Breakout	< 36.9	33.8	35.6	31.4	26.9	19.6	< 11.3	< 13.6	32.5	15.0

Optional accessories

Product	Item number
Siphon flat (Energy)	0000-4376
Duco Connectivity Board 2.0	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

Dimensions DucoBox Energy Sky D275 UK

