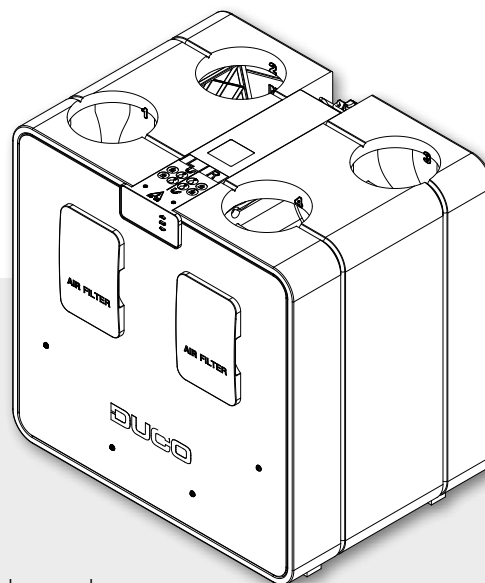


TECHNICAL DATA SHEET

DucoBox Energy Comfort D325



The DucoBox Energy Comfort D325 is a **mechanical ventilation unit with heat recovery**. It is a compact and lightweight version of the DucoBox Energy Premium. With a capacity of up to 325 m³/h, this is the ideal balanced ventilation solution for apartments and serial housing construction.

The demand control of the DucoBox Energy Comfort results in **intelligent and energy-efficient operation**. Together with the smart demand control based on CO₂ and humidity, the dynamic air distribution filters ensure exceptional efficiency within this compact unit.

The left/right exchange is carried out 100 % by software thanks to the principle of double bypass.

Moreover, this lightweight unit weighs just 21 kg. In other words: easy **to install by 1 person**. The **automatic calibration** ensures the device can be installed quickly and professionally.

Versions

Type	Supply and extract air flow at 150 Pa	Supply and extract air flow at 200 Pa	2-zone control	Frost protection	Article number
DucoBox Energy Comfort D325	325 m³/h	292 m³/h	yes (external - optional)	imbalance or external heater (optional)	0000-4649

EPB input values

Control strategy:	Speed control and variable pressure
Type of motors:	EC motor with commutation control
Maximum power motors:	120 W (2 x 60 W)
Ventilation group with heat recovery:	Yes
Efficiency*:	At 325 m³/h: 85 % At 279 m³/h: 86 % At 227 m³/h: 88 %
Auto regulation (constant flow):	Yes
Summer bypass:	Completely
Demand control reduction factors:	$F_{\text{reduc,vent,heat}} = \text{from 1.0 to 0.45}$ $F_{\text{reduc,vent,cool}} = 1,0$ $F_{\text{reduc,vent,overheat}} = 1,0$

* In accordance with EN 308:1997 (in accordance with EPB legislation - Annex G of Annex 5)

Physical properties

Width x Height x Depth	700 x 705 x 525 mm
Casing	Coated sheet steel + EPP
Colours	White + black
Connections	Internal diameter: Ø 160 mm
Condensate drain	Ø 32 mm (1 ¼") [2x]
Heat exchanger	PET / Polystyrene
Material of inside section	EPP / PP / ABS
Weight	21 kg
Power cable length	2 m (from top of unit)
Mounting	Wall mounting (standard) Floor mounting as an option using support frame

Electrical properties

Maximum electrical power	118 W (2 x 59 W)
Power supply	230 V, 50 Hz via 3-core power cable with earthed plug
Type of motor	DC
IP class	IP40

Pressure/flow characteristics

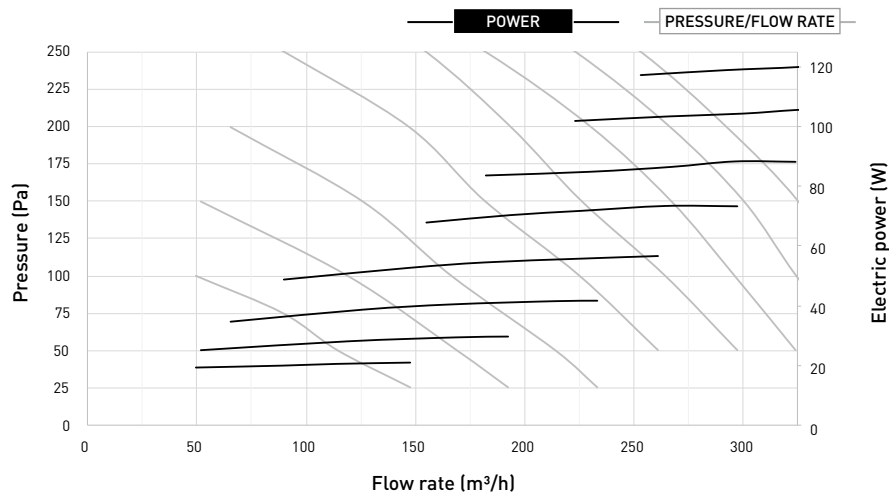
Flow rate (m³/h)	Pressure (Pa)	Absorbed power* (W)
253	250	117
200	250	91
292	200	119
250	200	92
200	200	72
150	200	55
325	150	120
250	150	82
200	150	63
150	150	49
200	100	49
150	100	35

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

Various properties

Energy class	With 2 sensors (control factor 0.65): A+ Other: A
Filters	Dynamic airflow filter supply air (460 x 185 x 15 mm) Standard: ISO 16890 Coarse 65 % (= G4) Optional: ISO 16890 ePM1 55 % (= F7) Dynamic airflow filter exhaust air (460 x 185 x 15 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)
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 line), 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

DucoBox Energy Comfort D325



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
325	150	61,5	58,3	49,2	62,5	58,9	58,8	53,0	46,3	34,0
325	100	61,0	48,4	48,3	62,8	58,0	55,9	51,8	45,1	32,4
300	150	61,5	49,6	47,9	63,6	57,8	56,1	52,2	45,4	32,8
300	100	59,5	42,2	47,1	60,5	56,4	54,8	50,5	43,7	30,6
250	150	59,0	43,3	46,4	61,4	55,5	54,1	49,7	43,1	30,3
250	100	57,0	< 38,9	44,2	58,1	53,6	52,5	47,9	40,8	26,9
250	50	55,5	< 39,8	43,7	57,3	52,5	50,7	45,8	38,7	< 23,9
227,5	50	53,5	< 39,6	42,8	54,8	50,9	49,0	44,2	36,6	22,3
245	50	54,5	< 39,9	44,1	56,5	52,0	50,0	45,2	38,1	23,6
200	100	54,0	< 40,3	42,7	56,2	51,1	49,9	44,6	37,5	24,4
200	50	51,5	< 39,3	39,8	51,6	48,9	47,4	42,1	34,0	20,2
200	25	50,0	40,5	39,2	50,9	47,9	45,6	40,5	31,9	18,7
150	50	47,5	< 39,5	38,1	47,2	45,5	43,9	37,6	28,9	18,2
150	25	46,5	< 39,1	42,8	45,4	43,8	41,9	35,7	25,0	17,2
100	25	40,0	< 38,9	37,2	40,7	38,6	36,3	28,2	< 15,1	< 8,1

2. Supply noise

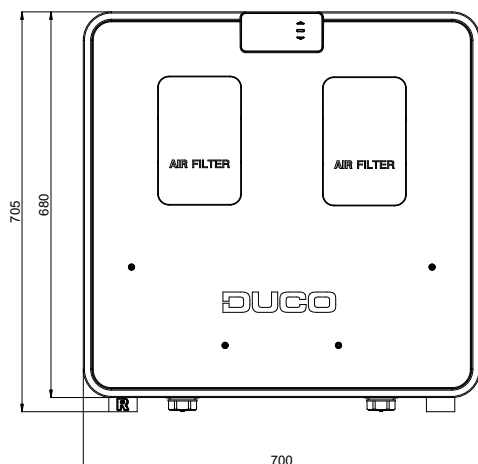
Flow rate m³/h	Pressure Pa	LwA supply dB(A)	Octave band frequencies Hz							
			63	125	250	500	1000	2000	4000	8000
325	150	69,5	75,9	69,1	73,2	66,5	59,8	58,8	52,5	43,4
325	100	69,0	73,5	68,5	73,4	65,5	58,8	58,1	51,5	41,8
300	150	68,0	73,6	67,6	72,7	64,3	58,1	57,1	50,7	41,4
300	100	66,0	72,3	66,8	70,3	63,0	56,9	56,0	49,2	39,0
250	150	64,0	71,8	65,6	67,7	61,2	55,2	54,1	47,7	38,1
250	100	63,5	72,3	64,4	68,6	60,5	54,4	53,2	46,3	35,5
250	50	62,5	69,4	63,8	68,1	59,7	53,1	52,2	44,8	32,4
228	50	61,5	68,7	62,2	68,0	58,2	51,1	50,0	41,9	29,2
245	50	62,5	68,9	63,2	68,9	58,9	52,1	51,1	43,4	30,8
200	100	62,5	68,0	61,7	69,9	57,6	50,8	49,3	41,7	30,9
200	50	58,5	66,4	60,2	65,5	55,8	48,6	47,0	38,5	25,5
200	25	57,0	65,3	59,5	63,3	54,9	47,4	46,2	36,8	< 22,2
150	50	52,0	< 62,4	59,5	55,3	50,4	42,9	39,6	29,7	< 16,2
150	25	52,5	< 61,6	62,8	54,0	49,2	41,8	38,9	26,7	< 12,9
100	25	45,5	< 59,7	54,8	48,6	44,1	35,4	29,3	< 17,4	< 9,1

3. Extraction noise

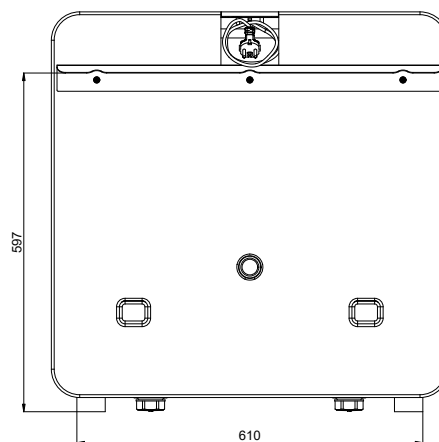
Flow rate m³/h	Pressure Pa	LwA extraction dB(A)	Octave band frequencies Hz							
			63	125	250	500	1000	2000	4000	8000
325	150	59,0	66,4	69,6	64,6	52,2	47,0	40,1	32,4	< 20,0
325	100	59,5	65,5	66,5	65,6	50,6	46,2	39,1	31,3	< 18,6
300	150	61,0	65,7	68,6	66,8	50,7	46,1	38,6	31,2	< 18,5
300	100	58,0	64,4	65,6	64,4	48,7	44,8	37,9	29,7	< 16,7
250	150	56,5	< 62,3	63,9	63,4	48,2	44,0	36,3	28,5	< 15,3
250	100	53,0	< 61,5	61,6	59,7	46,5	42,3	35,0	26,6	< 13,1
250	50	51,0	< 61,1	60,0	56,0	48,2	40,7	33,4	24,8	< 10,9
228	50	48,5	< 59,0	58,9	54,4	44,0	39,0	31,6	< 22,7	< 9,9
245	50	50,5	< 61,3	59,8	55,7	48,1	40,6	33,1	24,6	< 10,8
200	100	50,0	< 59,3	62,2	55,7	43,4	39,4	31,1	22,9	< 11,5
200	50	47,0	< 58,0	58,7	53,6	41,6	37,0	28,9	< 20,2	< 11,7
200	25	46,5	< 57,9	57,6	53,5	40,0	35,6	27,8	< 18,4	< 9,3
150	50	45,0	59,6	57,4	51,0	37,7	33,1	23,8	< 14,1	< 8,4
150	25	42,5	< 54,0	54,8	47,0	35,4	31,1	21,9	< 10,5	< 7,1
100	25	37,0	< 52,0	50,3	41,1	30,4	25,7	< 13,7	< 3,6	< 7,0

Dimensions of DucoBox Energy Comfort D325

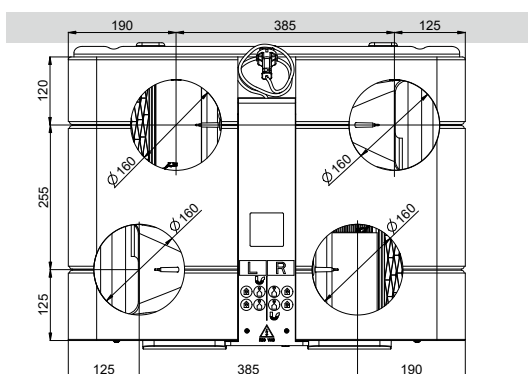
Front view



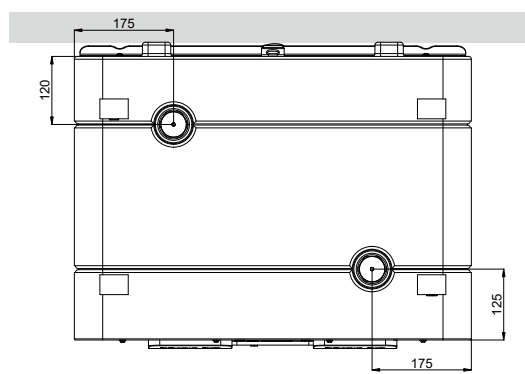
Rear view



Top view



Bottom view



Optional accessories

Product	Article number
Siphon flat (Energy)	0000-4376
Duco Connectivity Board 2.0	0000-4945
Humidity Box Sensor (Energy Comfort (Plus))	0000-4723
Mounting chair standing (Energy Comfort D325)	0000-4546
Filter set 2 x Coarse 65 % (Energy Comfort D225/325)	0000-4547
Filter set Coarse 65 % / ePM1 55 % (Energy Comfort D225/325)	0000-4661
Set Coaxial cable 8 m	0000-4418
Pre-Heater DucoBox Energy Comfort (Plus) 1425 W	0000-4807
External Multizone Valves	Miscellaneous
User controls and room sensors	Miscellaneous

Side view

