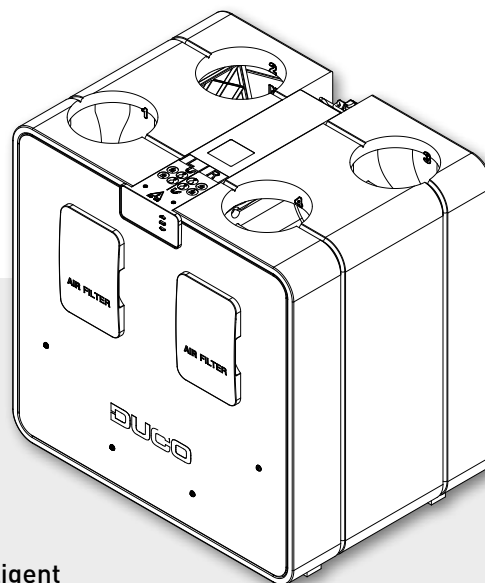


TECHNICAL DATA SHEET

DucoBox Energy Comfort 325 (UK)



The DucoBox Energy Comfort is a **mechanical ventilation unit with heat recovery**. The compact and light version of the DucoBox Energy Premium. With a capacity of up to 325 m³/h, this is the 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 a patented principle of double by-pass.

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

Versions

Type	Supply and extraction capacity at 150 Pa	2-zone system	Frost protection	Item number
DucoBox Energy Comfort 325	325 m ³ /h	no	imbalance	0000-4591

Electric specifications

Maximum electrical power 325 m³/h at 50 Pa	111,5 W
Power supply	230 V, 50 Hz via 3-core power cable with earthed plug
Contacts	0-10 V in/outputs
Type of motor	DC
IP class	IP40
Energy conversion efficiency	91,1 % (EN 13141-7)

Physical characteristics

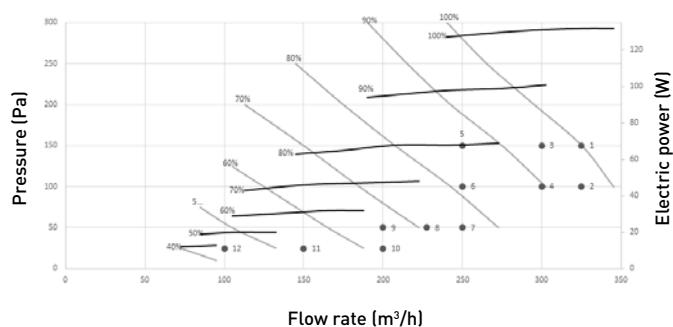
Width x Height x Depth (mm)	700 x 705 x 525 mm
Casing	Coated sheet steel + EPP
Colours	White + black
Connections	Internal diameter: Ø 160 mm
Condensate drain	Ø 32 mm (1 ¼") [2x]
Heat exchanger	PET / Polystyrene
Material of inside section	EPP / PP / ABS
Weight	21 kg
Power cable length	2 m (from top of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

Optional accessories

Product	Item number
Siphon flat (Energy & Eco)	0000-4376
Communication Print	0000-4251
Humidity Box Sensor (Energy Comfort)	0000-4545
Mounting chair standing (Energy Comfort)	0000-4546
Filterset 2 x Coarse 65 % (Energy Comfort)	0000-4547

Miscellaneous specifications

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) Dynamic airflow filter exhaust air (460 x 185 x 15 mm) Standard: ISO 16890 Coarse 65 % (= G4)
Summer by-pass	Fully (100% modulating)
Frost protection	Imbalance
Fans	EC fan with backward curved blades
Automatic regulation	Yes (constant pressure)
Constant flow regulation	Yes
Operation	Integrated display Use via User controllers and CO ₂ or Humidity Sensors Via smartphone / tablet as an option (provided device has Communication Print)
Sensors	Integrated: pressure, temperature, onboard switch sensor External: CO ₂ (via optional Sensor), Humidity (via optional Sensor), external Switch Sensor (voltage-free input) (optional)
Communication	Standard: Duco RF, Duco Wired, Switch Sensor Expandable with Communication Print: ModBus, PWM-IN, PWM-OUT, Switch Sensor (3x), Ethernet, Micro SD-card slot



Measurement #	Flow rate Qv m³/h	Pressure Pa	Absorbed power P W	SFP Wh/m³	Noise level Lw*		
					supply dB(A)	extraction dB(A)	emission from housing dB(A)
1	325	150	131	0,40	69	58,5	63
2	325	100	115	0,35	69	59	62
3	300	150	113	0,38	67,5	57,5	62
4	300	100	96	0,32	66,5	56	61
5	250	150	82	0,33	65	55	60
6	250	100	71	0,28	63,5	54,5	58,5
7	250	50	59	0,24	62,5	53	56
8	227,5	50	49	0,22	60	49	55
9	200	50	40	0,20	58,5	50	53
10	200	25	35	0,18	57,5	48,5	51,5
11	150	25	23	0,15	52	41,5	47
12	100	25	15	0,15	47,5	39,5	42

* Emission from housing measured in accordance with ISO 3741:2010
Supply and extraction noise level in accordance with ISO 5135:1997 (with channel correction)

Systems with rigid ductwork only SAP 2005 results

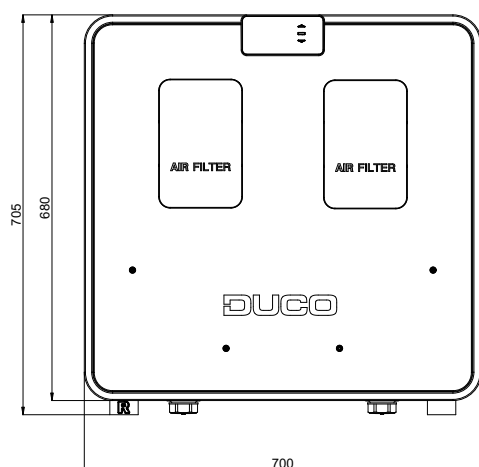
Exhaust terminal configuration	Fan speed setting (%)	Air flow rate (l/s)	Specific fan power (W/l/s)	Heat exchange efficiency (%)
Kitchen + 1 additional room	Supply 26,8 Extract 28,0	15,0	0,62	91
Kitchen + 2 additional room	Supply 32,0 Extract 32,5	21,0	0,55	91
Kitchen + 3 additional room	Supply 26,8 Extract 28,0	27,0	0,54	91
Kitchen + 4 additional room)	Supply 36,7 Extract 36,5	33,0	0,59	91
Kitchen + 5 additional room	Supply 41,7 Extract 43	39,0	0,65	90
Kitchen + 6 additional room	Supply 26,8 Extract 28,0	45,0	0,74	90
Kitchen + 7 additional room	Supply 26,8 Extract 28,0	51,0	0,85	90

Systems with rigid ductwork only SAP 2012 results

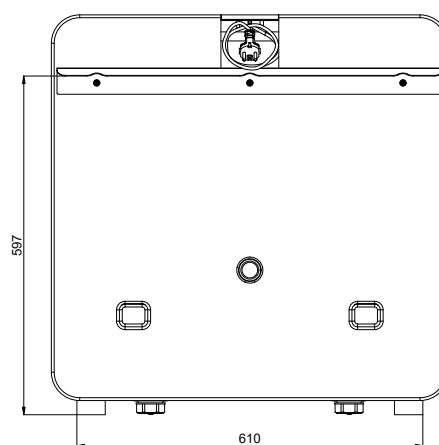
Exhaust terminal configuration	Fan speed setting (%)	Air flow rate (l/s)	Specific fan power (W/l/s)	Heat exchange efficiency (%)
Kitchen + 1 additional room	Supply 32,0 Extract 35,0	21,0	0,59	91
Kitchen + 2 additional room	Supply 38,7 Extract 41,5	29,0	0,59	91
Kitchen + 3 additional room	Supply 46,0 Extract 47,0	37,0	0,63	91
Kitchen + 4 additional room)	Supply 52,5 Extract 55,0	45,0	0,77	90
Kitchen + 5 additional room	Supply 59,5 Extract 61,5	53,0	0,89	90
Kitchen + 6 additional room	Supply 67,0 Extract 69,0	61,0	1,07	90
Kitchen + 7 additional room	Supply 74,0 Extract 76,5	69,0	1,30	90

Dimensions of DucoBox Energy Comfort

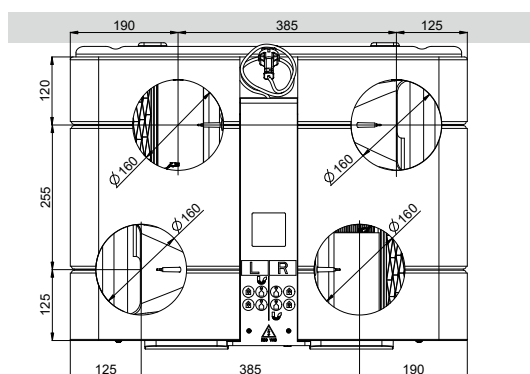
Front view



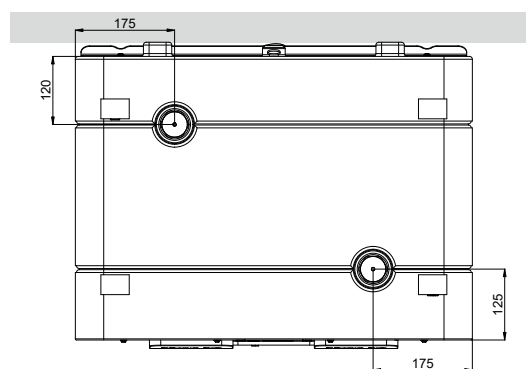
Rear view



Top view



Bottom view



Side view

