

DucoBox **Energy Comfort (Plus)**

The **SMARTEST** MVHR system!



D325

D400

D350/D450/D550



High flow rates

Up to 550 m³/h at 200Pa




100% interchangeable

Left  Right



Auto-calibration

 Save time = Save money

DUCO

We inspire at www.duco.eu

DucoBox Energy Comfort (Plus)

First choice for any situation in residential construction

The **DucoBox Energy Comfort Plus** has been developed for application of balanced ventilation with heat recovery. With its various versions and adjustable capacity of up to 550 m³/h, this smart and silent ventilation box is the solution for any situation in residential construction. The **left/right exchange** is 100% software-based thanks to a patented principle of **double by-pass**. The dynamic air distribution filters, together with the smart demand control based on CO₂ and humidity, ensure exceptional efficiency.



Smart 2-zone control with external valves

Patented principle of **double by-pass**

L/R interchangeable
100% software-based

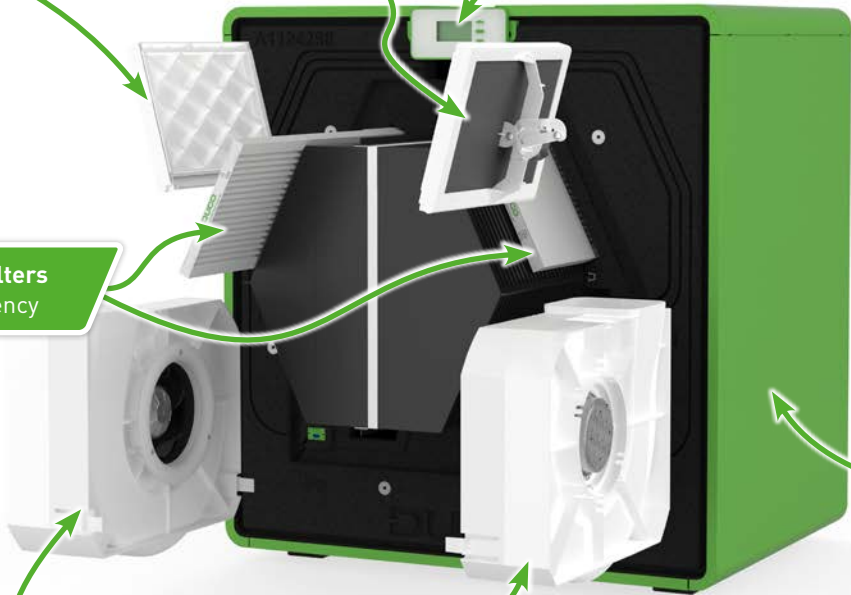


Dynamic Airflow Filters
for maximum efficiency

Comfort Plus with acoustic casing = **10dB quieter!**

Low power consumption thanks to energy-efficient **EC motors**

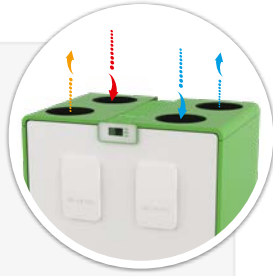
Smart demand management based on CO₂ and/or humidity measurement



MAXIMUM RELIEF FOR THE INSTALLER

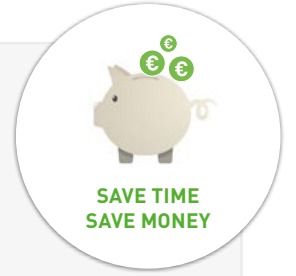
Left/right interchangeable

This unit is very low-threshold as **physical interventions are not required**. The left/right exchange is **100% software-based** thanks to the patented principle of double by-pass.



AUTO-calibration

Based on the principles of constant pressure adjustment, this method **saves 50% on** adjustment time. This quickly means a **saving of 40€ on the installation cost** for a standard adjustment!



SAVE TIME
SAVE MONEY

Smart copy function

By integrating a **copy function** into the software, it is possible to copy settings from similar houses within serial construction.



Compact external 2-zone

The external 2-zone valve controls on the basis of CO₂ and provides ventilation only where and when needed. Thanks to the 70% rule, the supply flow rate can be calculated up to **785 m³/h**.



Duco Installation App

The new Duco Installation App ensures perfect calibration of the ventilation system. Moreover, you can use the app to create an official ventilation report in no time.



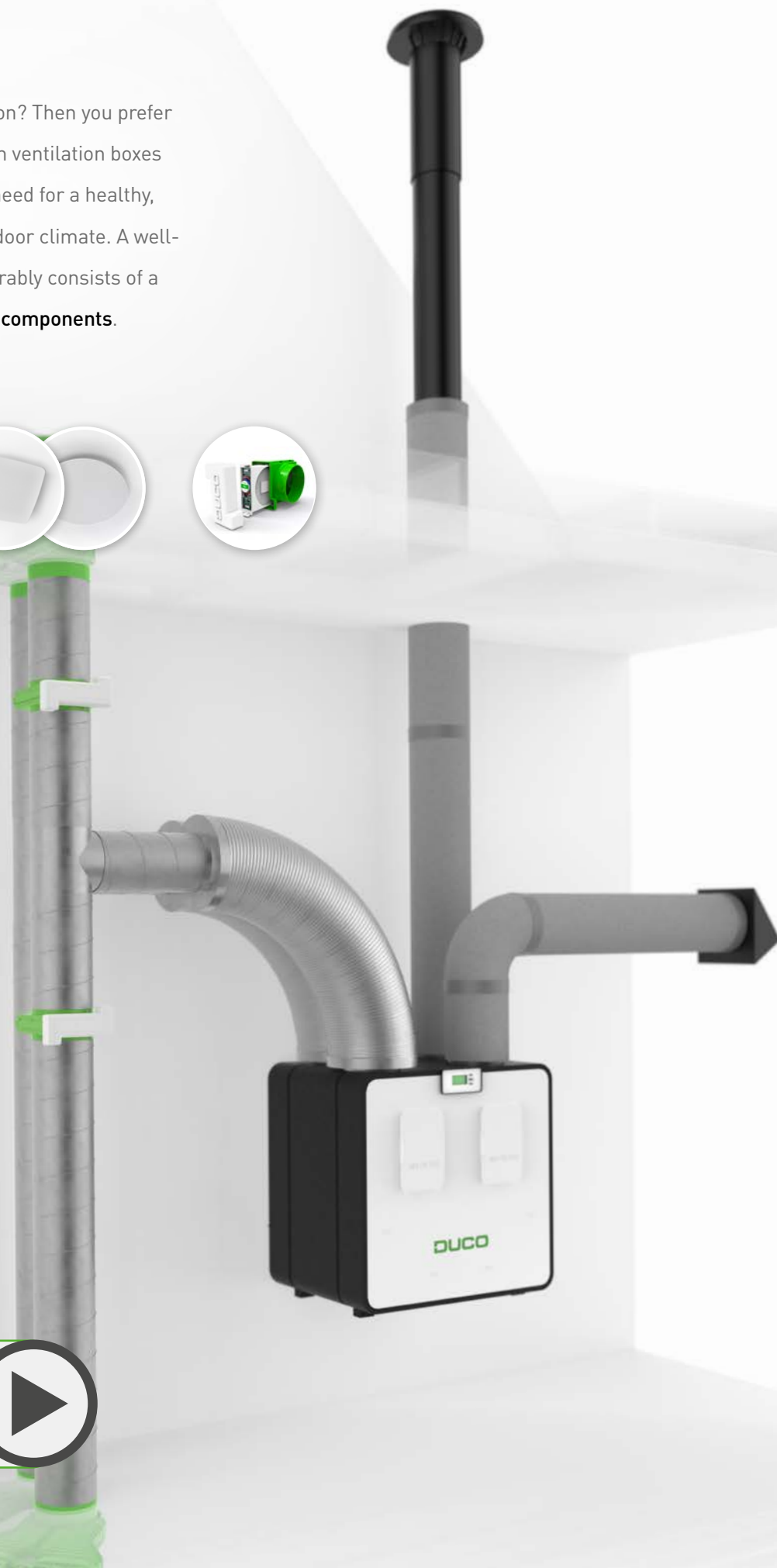
Acoustic damping

The acoustic casing ensures quieter operation of the system. The result? Extra attenuation up to 10 dB. Quiet and acoustic ventilation guaranteed.



TOTAL VENTILATION SOLUTION

Looking for a total ventilation solution? Then you prefer to focus on one single address. From ventilation boxes to vents. DUCO has everything you need for a healthy, comfortable and energy-efficient indoor climate. A well-functioning ventilation system preferably consists of a global installation with **high-quality components**.



SCAN &
DISCOVER




DUCOBOX ENERGY COMFORT (PLUS) IN FIGURES

Physical characteristics

Width x Height x Depth (mm):	Comfort D325: 700 x 705 x 525 mm Comfort D400: 756 x 800 x 584 mm Comfort Plus D350/450/550: 760 x 803 x 584 mm
Casing:	Coated sheet steel + EPP
Colours:	Comfort D325/400: White + black Comfort (Plus) 350/450/550: White + green
Connections:	Inner diameter D325: Ø 160 mm Inner diameter D400/350/450/550: Ø 180 mm
Condensate drain:	Ø 32 mm (1 1/4") (2x)
Heat exchanger:	V1: PP V2: PET/alu
Material of inside section:	EPP / PP / ABS
Weight:	D325: 21 kg D400: 31 kg D350/450/550: 47 kg
Power cable length:	2 m (from top of unit)
Mounting:	Wall mounting (standard) Optional floor mounting using support frame

Electrical characteristics

Electrical power:	D325: 130 W (2 x 65 W) D400: 150 W (2 x 75 W) D350: 120 W (2 x 60 W) D450: 200 W (2 x 100 W) D550: 280 W (2 x 140 W)
Electrical power supply:	230 V, 50 Hz via 3-core power cable with earthed plug
Contacts:	0-10 V in/output
Type of motor:	DC
Efficiency: Ref. Delegated Regulation (EU) n° 1253/2014	D325: 89% D400: 87,9% D350: 88,9% D450: 87,8% D550: 84,7%

	F 
D325	0000-4649
D400	0000-4707
D350	0000-4704
D450	0000-4705
D550	0000-4706

Miscellaneous characteristics

Energy class:	With 2 sensors (control factor 0.65): A+ Other: A
Filters:	Dynamic airflow filter supply air Standard: Coarse 65% (= G4) Option: ePm1 55% (=F7) Dynamic airflow filter exhaust air Standard: Coarse 65% (= G4)
Summer by-pass:	Completely (100% modulating)
Frost protection:	Imbalance
Fans:	EC fan with backward-curved blades
Automatic calibration:	Yes (constant pressure)
Constant flow regulation:	Yes
Passive cooling:	Yes
Cold recovery:	Yes
Operation:	Integrated display Use via user controls and room sensors
Sensors:	Integrated: pressure, temperature, onboard switch sensor External: CO ₂ (via optional room sensor), humidity (via optional 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: connection possible via REST API (locally or via the cloud) or Modbus TCP

D325		Sound level Lw*		
Flow rate Qv m³/h	Pressure Pa	supply dB(A)	extraction dB(A)	casing dB(A)
325	150	69,5	59	61,5
300	150	68	61	61,5
250	100	63,5	53	57
200	50	58,5	47	51,5

D400		Sound level Lw*		
Flow rate Qv m³/h	Pressure Pa	supply dB(A)	extraction dB(A)	casing dB(A)
400	200	79,5	58	65
300	200	72	57	62
300	150	72	56	61
200	50	64,5	47	48

D350		Sound level Lw*		
Flow rate Qv m³/h	Pressure Pa	supply dB(A)	extraction dB(A)	casing dB(A)
350	200	74,5	57,5	56,5
300	150	72,5	57,5	53,5
250	100	68,5	53	48,5
200	50	45,5	45,5	42,5

D450		Sound level Lw*		
Flow rate Qv m³/h	Pressure Pa	supply dB(A)	extraction dB(A)	casing dB(A)
450	200	78,5	59	59,5
300	200	74	56,5	53
350	150	72	56,5	54,5
300	100	72	59,5	51,5

D550		Sound level Lw*		
Flow rate Qv m³/h	Pressure Pa	supply dB(A)	extraction dB(A)	casing dB(A)
550	200	84,5	65	63,5
500	200	84,5	61	61
450	150	81	58	59,5
400	100	82,5	58,5	65,5

* Emission of casing measured according to ISO 3741:2010
Supply and extract air noise level according to ISO 5135:1997 (with duct correction)

SERVICE PLEASE!

STUDY SERVICE Tailored advice

Thanks to years of know-how in the field of ventilation, DUCO's engineering department has all the expertise needed to offer the most suitable installation for your project. In addition to tailor-made advice, an **installation plan for the ventilation ducts** can be requested for each project. Please contact your trusted DUCO distributor or DUCO contact, or submit your project via the website:

www.duco.eu/yourproject



HELPDESK Let yourself be guided

Your DUCO distributor is available **to assist you with any practical challenge**. If you need any support during design or installation, feel free to consult them: their experts have been trained by DUCO.

info@duco.eu

DUCO CATALOGUE Your guide to ventilation systems

Looking for a user-friendly tool to quickly and easily guide you through **DUCO's demand-controlled ventilation systems and their components**? Then the DUCO Catalogue is the perfect solution. The most recent information accurately bundled in one document!

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