


DucoBox **Energy Comfort**

Europe's **SMARTEST** MVHR unit!




COMPACT & LIGHT

 Only 21 kg

100% EXCHANGEABLE

Left  Right

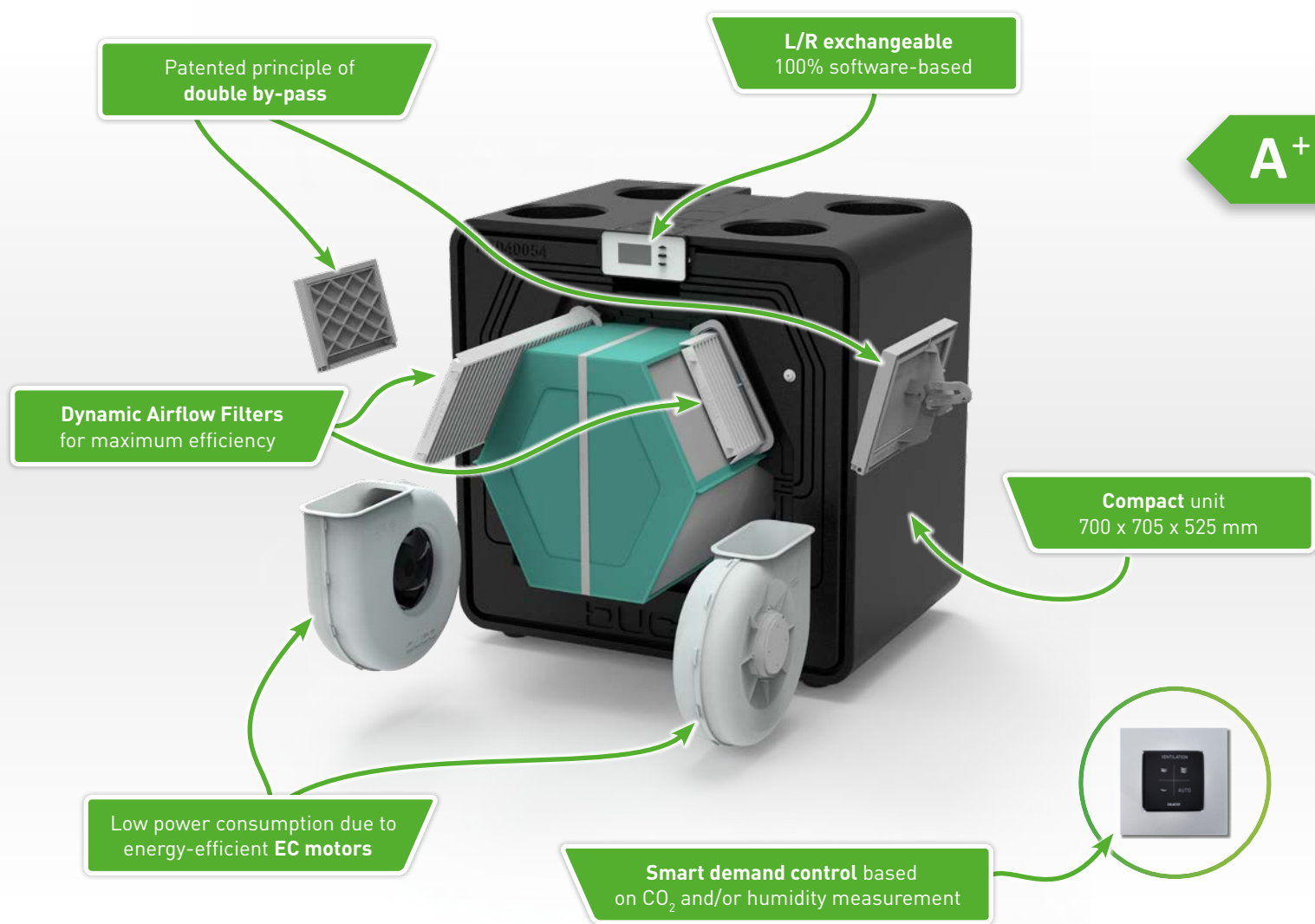
AUTO CALIBRATION

 SAVE TIME = SAVE MONEY

DucoBox **Energy Comfort**

First choice for building projects

The **DucoBox Energy Comfort** is a Mechanical Ventilation box with Heat Recovery (MVHR). This smart and silent ventilation box, with its adjustable capacity of 325 m³/h is the ideal solution for apartments and houses due to its compact size. The **left/right exchange** is 100% software-driven thanks to the patented principle of **double by-pass**. The dynamic air distribution filters, together with the smart demand control based on CO₂ and humidity, ensure for exceptional efficiency within this compact unit.



MAKING LIFE **EASY** FOR INSTALLERS



Compact & light

This lightweight unit of **21 kg** can easily be installed by **1 person**. With its compact dimensions, the DucoBox Energy Comfort is ideal for a **small technical space**!

Left/right exchangeable

This unit is very user-friendly because **physical interventions are not necessary**. The left/right exchange is carried out **100% by software** thanks to a patented principle of double by-pass.



AUTO calibration

Relying on the principles of calibration at constant pressure, this method achieves a **50% saving on calibration time**. DUCO saves you time!

Smart copy function

Thanks to a **copy function** in the software, the installer has the possibility to copy the settings of one DucoBox Energy Comfort onto the next DucoBox Energy Comfort. This is particularly useful in a serial construction with the same types of houses.



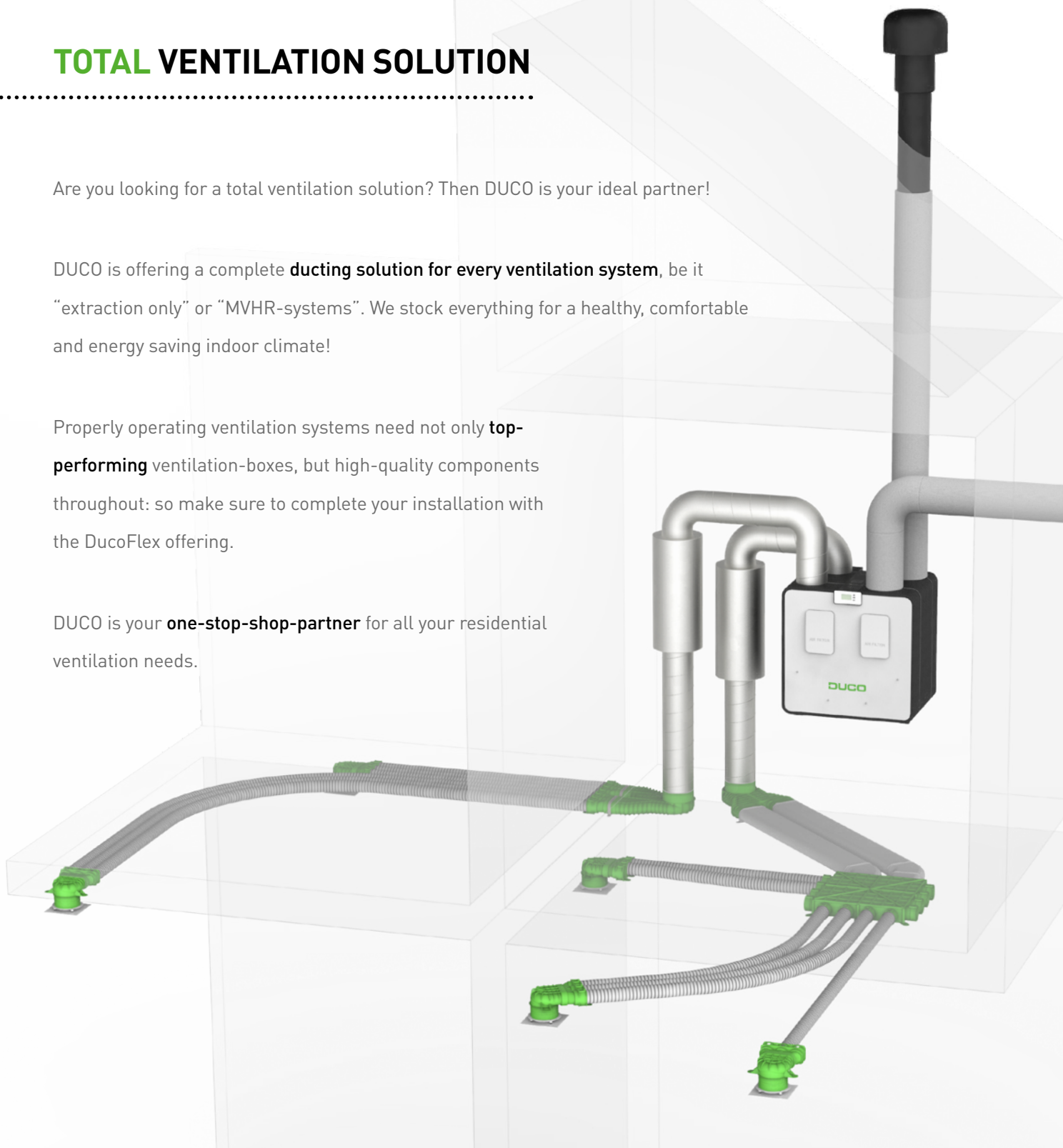
TOTAL VENTILATION SOLUTION

Are you looking for a total ventilation solution? Then DUCO is your ideal partner!

DUCO is offering a complete **ducting solution for every ventilation system**, be it “extraction only” or “MVHR-systems”. We stock everything for a healthy, comfortable and energy saving indoor climate!

Properly operating ventilation systems need not only **top-performing** ventilation-boxes, but high-quality components throughout: so make sure to complete your installation with the DucoFlex offering.

DUCO is your **one-stop-shop-partner** for all your residential ventilation needs.



DucoFlex

Complete **air ducting system** for all ventilation systems
(extraction only and MVHR)



- ✓ **‘Click & Go’ system**
Flexible ducting with convenient click system
- ✓ **‘Zero noise’ guarantee**
Meets the most stringent requirements
- ✓ **Easy setup**
Limited number of fittings and accessories

DUCOBX ENERGY COMFORT IN FIGURES

Physical characteristics

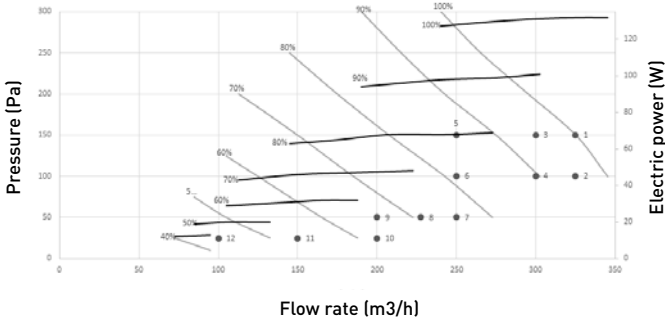
Width x Height x Depth (mm)	700 x 705 x 525 mm
Casing	Coated sheet steel + EPP
Colours	White + black
Connections	Internal diameter: Ø 160 mm
Condensate drain	Ø 32 mm (1 ¼") (2x)
Heat exchanger	PET / Polystyrene
Material of inside section	EPP / PP / ABS
Weight	21 kg
Power cable length	2 m (from top of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

Electric specifications

Maximum electrical power 325 m³/h at 150 Pa	130 W (2 x 65 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	At 325 m³/h: 85 % At 275 m³/h: 87 % At 225 m³/h: 88 % According to EU 1253/2014: 91 %

Miscellaneous specifications

Energy class	With 2 sensors: 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 calibration	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 (volt-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)

SERVICE PLEASE!

ADVISORY OFFICE

Tailored advice

Thanks to years of know-how in the field of ventilation, DUCO's design department has all the expertise in house to offer the installation best suited to your project. In addition to tailored advice, it is also possible to request a **layout plan for the ventilation ducts** for each project. For this purpose please contact your trusted DUCO distributor or DUCO contact, or submit your project via the website:

www.duco.eu/yourproject



HELPDESK

Allow yourself to be supported

Your DUCO dealer is available to provide you with **support for all possible practical challenges**. If you need support during design or installation, feel free to consult them: their experts are trained by DUCO.

info@duco.eu

SERVICE DEPARTMENT

DUCO remains involved

Do you have a complaint or do you desire **intervention from a DUCO expert**? Report this to your distributor so that a complaint form can be submitted. A DUCO-trained expert will get back to you quickly and find a solution.

Please contact your distributor



DUCO CATALOGUE

Your guide to ventilation systems

Are you looking for a user-friendly tool to guide you quickly and simply through **DUCO's Demand-Controlled Ventilation Systems and associated components**? If so, the DUCO catalogue is the ideal solution. It brings together the latest information accurately in a single document!

www.duco.eu/catalogue

We inspire at www.duco.eu

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