Catalogue

VENTILATION SYSTEMS 2026



GREEN VENTILATION

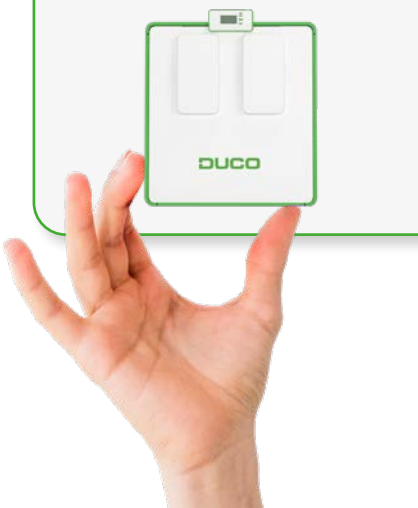
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NEW

Small. Smart. Green.



HOME OF OXYGEN

DUCO Ventilation & Sun Control provides every building with a healthy supply of oxygen. With a comprehensive range of innovative natural and mechanical ventilation systems, either combined with external solar shading or otherwise, DUCO offers the ultimate guarantee of a healthy and comfortable indoor climate. The occupant's health is, therefore, central to DUCO. A well-thought-out combination of basic ventilation, mechanical extraction, purge ventilation and solar shading ensures optimum air quality. DUCO provides an innovative solution for residential buildings, offices, schools or care centres where everyone feels at home.

DUCO, Home of Oxygen

DUCO

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DISCLAIMER
Illustrations in this catalogue may differ from actual product. Printing errors and/or changes excepted regarding prices and text. DUCO reserves the right to amend this information at any time. The statutory information stated may be subject to changes in legislation. All prices are recommended prices excluding VAT.

THE NATURAL FAMILY

Priority to Fresh Air



DucoBox Reno | DucoBox Silent (Connect) | DucoBox Focus

SCAN & DISCOVER

Discover our MEV systems,
The Natural Family!

Natural supply of fresh air

Our ventilation boxes for natural ventilation (MEV system) combine **comfort and efficiency**. Fresh air flows in naturally through smart grilles in walls or windows and is mechanically extracted in wet rooms, for a **healthy and comfortable indoor climate**.





Smart zonal control

Our **intelligent demand control based on humidity and CO_2** ventilates only where and when necessary. This is done fully **automatically**, making the system **quieter** (30 % less noise) and **more energy-efficient** (up to 40 % savings) compared to traditional ventilation systems. Enjoy a quieter, more economical and healthier indoor climate.

Ideal for renovation

Our **compact MEV systems** are perfect for **renovations**. They are easy to install in small spaces and meet strict renovation standards. Enjoy **natural supply, easy maintenance and quick installation** with minimal disruption.



THE ENERGY FAMILY

Priority to Energy Savings



DucoBox Comfort Plus D250

DucoBox Comfort Plus D350/D450/D550

DucoBox Premium D325/D400

SCAN & DISCOVER

Discover our MVHR systems, **The Energy Family!**

Quiet

The freshest air without distracting background noise? With the DucoBox Energy Comfort Plus and Energy Premium, it becomes a reality, thanks to the excellent **sound-absorbing sleeve** (additional attenuation 10 dB). Our innovative units are equipped with the **quietest fans on the market**, making them virtually silent.





Smart 2-zone control

All MVHR units are available with smart 2-zone control. A dynamic valve optimally distributes the air flows between two zones based on CO_2 and humidity measurement. The 2-zone control provides **better acoustics and energy savings**. With the DucoBox Energy Premium, internal control offers additional convenience thanks to the plug & play concept: only basic wiring for power supply is required.

Install in no time

The **automatic calibration** of our units speeds up installation and **saves installers up to 50 % calibration time**, a cost saving of at least 30 euros! The copy function in the DucoBox Energy Comfort (Plus) and Energy Sky makes it easy to copy settings in serial construction, which saves a lot of time and also money (at least 15 euros/unit). These units are also **100 % by software L/R exchangeable**.



WHY DUCO?

One-stop-shop for your end-to-end ventilation solution

Complete range of MEV and MVHR ventilation units, air ducts & accessories.

Smart demand control

The room is **only ventilated when necessary** and in the correct amount. CO_2 concentration and air humidity are used as indicators. This helps avoiding unnecessary heat loss while guaranteeing an optimal indoor climate.

High energy conversion efficiency

The combination of dynamic air distribution filters and **high performance heat exchangers** results in very high efficiency ratios.

The quietest systems

A comfortable indoor climate is created by **whisper-quiet ventilation systems**. DUCO excels in acoustics, especially where it matters most: the living areas and bedrooms.

Connectivity

The optional Duco Connectivity Board 2.0 offers the possibility of seamless integration with the Duco Installation App and DUCO HOME app for effortless control, while also connecting smoothly with home automation and building management systems via **REST API** or **Modbus TCP**, delivering maximum flexibility and smart connectivity.

Automatic calibration

The automatic calibration, whereby the measuring and adjustment technology is based on the principles of calibration under constant pressure, always offers a 100 % guarantee of a **qualitative end result** and translates into a 50 % saving in set-up time for the installer.

DUCO introduces
DEMAND-CONTROLLED VENTILATION

Historically, MVHR-units were running **continuously**: 24 hours a day, 7 days a week. This was deemed to be "ok" as there was "heat recovery" anyway, and so the energy losses were deemed to be small.

DUCO feels that this **"old school"-way-of-thinking** is a thing of the past and decided to go a step beyond the "normal" operation-mode of a "traditional" MVHR-system.

So next to offering user control options on the display or via a user controller; next to offering the possibility to make the unit function on a time-schedule, DUCO also offers true **"on demand"** solutions which result in true energetically optimised ventilation-solutions: **only ventilate when necessary, where it is necessary and as long as it is necessary!**

LOCAL detection
Sensors in the room



CO_2 or humidity

Presence detection

CENTRAL detection
Sensors in the ventilation unit



CO_2 / humidity

→ How does it work?

Sensors permanently measure the indoor air quality in a room (or centrally, depending on the case): if the indoor air quality (CO_2 or humidity) is found to be OK, the **ventilation is put to a strict minimum** (minimum energy consumption and minimum heat losses).

On the other hand, if the indoor air quality is found to be or become worry-some, the ventilation is triggered immediately in a modular way, i.e. more or less intense according to **intelligent algorithms** (energy is only used when needed to reach healthy indoor air).

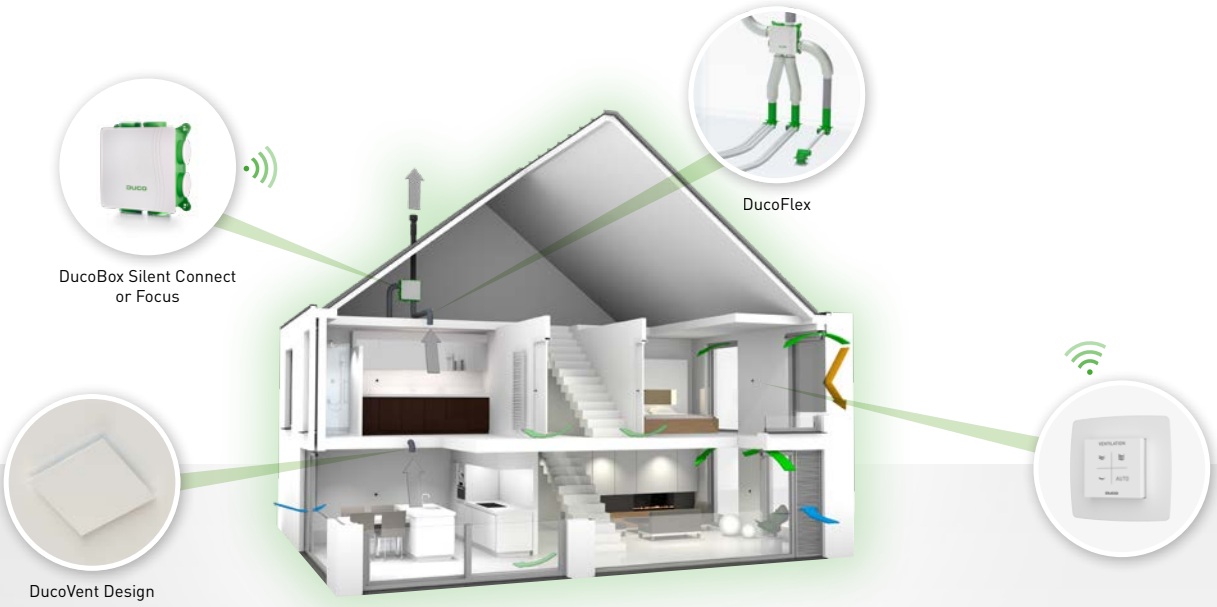
With an **"on demand"** DUCO-system, the occupant can always be assured to breathe the best possible indoor air, whilst also using the least amount of energy! **DUCO brings you the SMARTEST ventilation solutions!**

Check out our various control components from page 82 onward.

UNIQUE AT DUCO

MEV SYSTEM

Unlike a ventilation system that extracts air from the entire house, including healthy air, the **DucoBox Focus** is a ventilation unit that applies **zonal ventilation**. The internal control valves of the DucoBox Focus extract polluted and/or moist air zonally. This means that you only ventilate where necessary, when necessary and in the right amount, to remove the polluted air as quickly as possible.



100 % automatic

Demand-controlled ventilation based on CO_2, Humidity and temperature.

Optimal indoor climate

The Duco Focus System **ventilates only where and when needed, and in the right amount**.

Acoustic comfort

The **QUIETEST** and **SMARTEST** ventilation boxes on the market.

Aesthetic & minimalist

DucoVent Design: **Aesthetic and functional** aluminium vents.

Highest energy gain

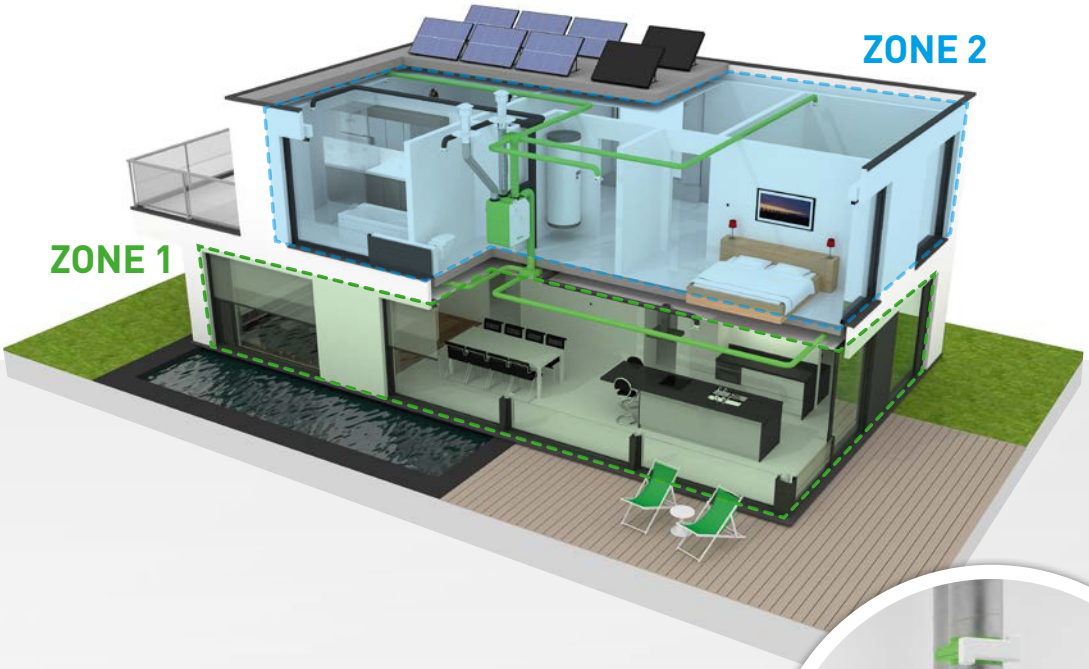
Controlled supply and extraction = 100 % controlled ventilation.

UNIQUE AT DUCO

MVHR SYSTEM

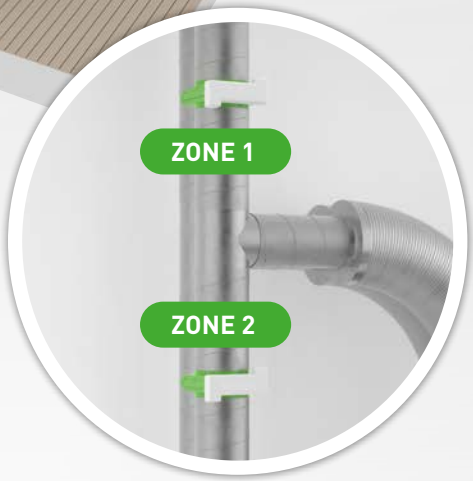
With the **DucoBox Energy Comfort (Plus)**, **DucoBox Energy Sky** and the **DucoBox Energy Premium** DUCO offers a unique ventilation system where 2-zone control can be realised on the supply.

If the air quality in a specific zone is found to be ok, ventilation in that zone is set to a minimum. **Cost savings for heating, lower consumption and acoustic comfort** are the logical consequences. But always with guaranteed indoor air quality!



Sensors meticulously detect the resident's movements throughout the home. This enables where, when and how much ventilation is required to be determined **automatically**.

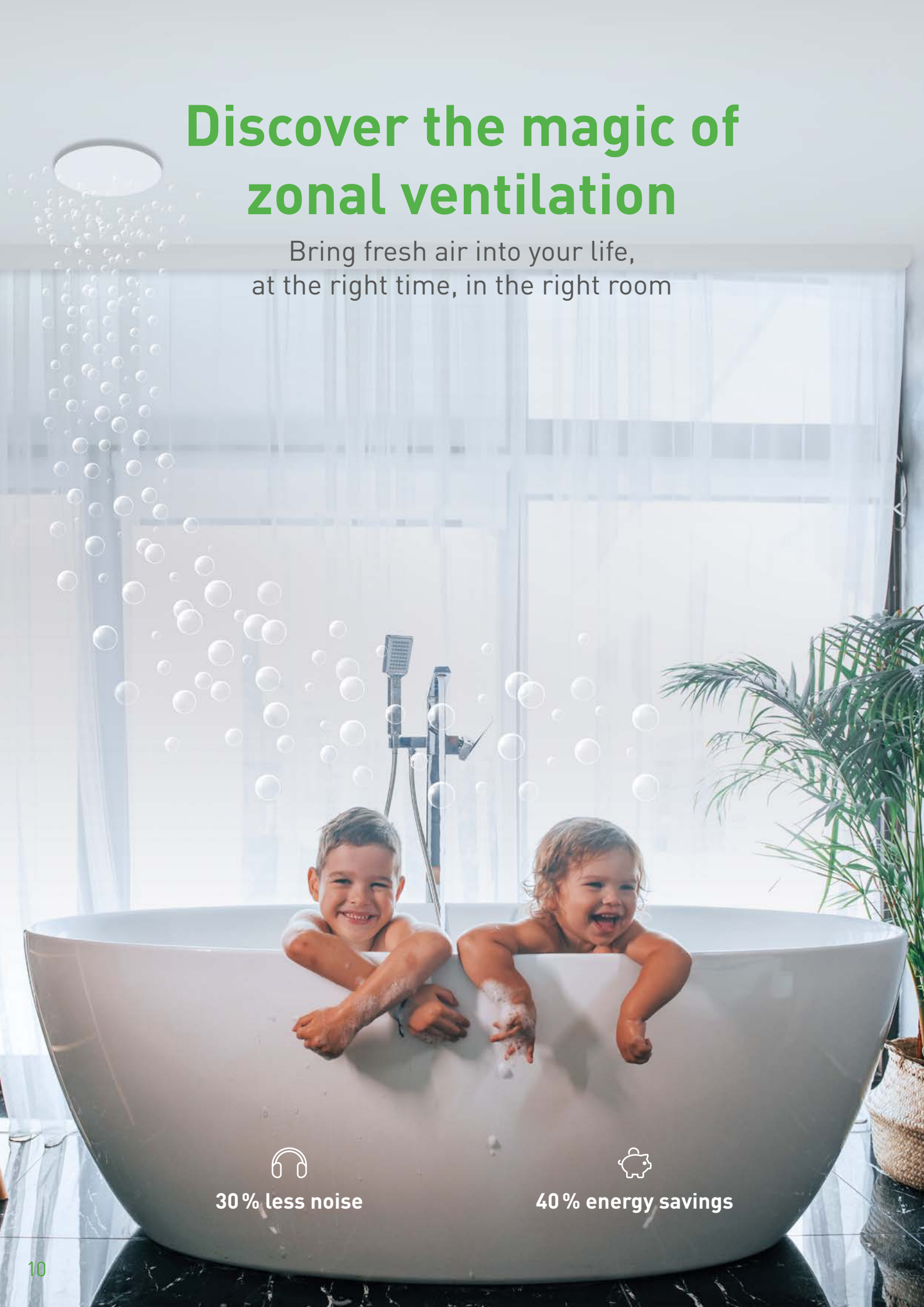
By controlling both zones separately with an external valve, the consumption of the EC fans is significantly lower, which translates into lower electricity costs.



- Low energy consumption
- The quietest MVHR system on the market!
- Automatic calibration!

Discover the magic of zonal ventilation

Bring fresh air into your life,
at the right time, in the right room



30 % less noise

40 % energy savings

MEV SYSTEM

Mechanical extract ventilation



DucoBox **Focus**

Up to **11 zones**

MVHR SYSTEM

Mechanical ventilation with heath recovery



DucoBox
Energy Premium

2 zones - day / night



Multi-zone valve

2 zones - day / night in combination with DucoBox Energy Comfort (Plus) and DucoBox Energy Sky

START YOUR JOURNEY TO ZONAL VENTILATION!

Discover the magic at **duco.eu/zonal-ventilation**

MEV SYSTEM

The ***QUIETEST*** and ***SMARTEST*** Mechanical Extract Ventilation System of Europe!



DucoBox **Reno**

- **Rapid exchange & adjustment**
  Compact unit with smart mounting and adjustment principles
- **Maximum energy gain**
  Equipped as standard with humidity sensor and expandable with CO_2 box and/or room sensors
- **Easy-to-service**
  Quickly accessible components including the backward curved fan



DucoBox **Silent (Connect)**

- **Intelligent demand control**
  Room or box sensors based on CO_2 and humidity measurement
- **Carefree night's sleep**
  Minimum sound power (< 27 dB(A) in occupied zones)
- **Save on your energy bill**
  Financially attractive thanks to energy-efficient EC motor



DucoBox **Focus**

- **Intelligent demand control**
  Control valve system based on CO_2 and humidity measurement
- **Smart zonal control**
  Up to 7 zones, expandable to 11 zones with duplicator
- **Automatic calibration**
  Guaranteed flow at each vent

Duco**Flex**



With DucoFlex, DUCO offers a **complete air duct system**. If you use this **installation-friendly** air-duct system you will enjoy the **energy-efficient and quiet operation** of the ventilation system.

MVHR SYSTEM

Europe's *QUIETEST* and *SMARTEST* MVHR!







DucoBox **Energy Comfort (Plus)**

A solution for every situation
Flow rate up to 550 m^3/h (at 200 Pa)

Left/right exchangeable
Exchange between left and right variant is carried out 100 % by software

Automatic calibration
Calibration at constant pressure saves up to 50 % on the configuration time

DucoBox **Energy Sky**

Easy to install
Via head-up display or via the Duco Installation App

Save time = save money
AUTO calibration, COPY function, 100 % exchangeable via display

Priority to energy savings
Smart demand control

DucoBox **Energy Premium**

Smart 2-zone control
Saving up to 40 % through smart zone control

Quietest MVHR on the market
Enjoy a good night's sleep!

Automatic calibration
Calibration at constant pressure saves up to 50 % on the configuration time

Duco**Flex**



With DucoFlex, DUCO offers a **complete air duct system**. If you use this **installation-friendly** air-duct system you will enjoy the **energy-efficient and quiet operation** of the ventilation system.

DucoBox Reno

The **NUMBER 1** for renovation!



Rapid exchange & adjustment

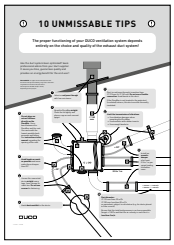
Compact unit with smart mounting and adjustment principles

Maximum energy gain

Equipped as standard with humidity sensor and expandable with CO_2 box and/or room sensors

Easy-to-service

Quickly accessible components including the backward curved fan



Please refer to page 102 for essential installation tips!

DucoBox Reno

MEV system Up to **325 m³/h** at 150 Pa

The DucoBox Reno is **highly suitable for replacement or renovation projects**. This smart renovation box enables the installer to exchange an obsolete ventilation system up to 25 % faster.

The DucoBox Reno is a demand-controlled ventilation system that cleverly uses intelligent sensors and efficient adjustment technology. The system combines the power of existing solutions and addresses weaknesses.

FEATURES

Width x Height x Depth: 381 x 366 x 204 mm **Weight:** 3,1 kg **Extraction capacity at 150 Pa:** 325 m³/h **Power supply:** 230 VAC	**Energy label:** class B in a system with at least two sensors **Communication:** RF	**Peak power:** 47 W **Air duct connections:** Extraction areas: 4 x ∅ 125 mm 1 x rear connection Extraction to the outside: 1 X ∅ 125 mm

VENTILATION UNIT



DucoBox Reno	**0000-4922**

CONTROL COMPONENTS DucoBox Reno

DucoBox Reno is equipped with a RH measurement in the scroll as standard.



→ CO_2 BOX SENSOR

The optional CO_2 Box Sensor can be installed very easily and quickly and provides CO_2 measurement in an air duct. The sensor is wired direclty to the printed circuit board. This means that no wiring for room sensors needs to be provided. A DucoBox Reno contains a maximum of one box sensor – which can be clicked into a specific duct opening.

Peak power: < 1 W	**Stand-by power:** < 1 W	**Power supply:** From the DucoBox

CO_2 Box sensor DucoBox Reno	**0000-4743**

→ EXTERNAL CONTROL COMPONENTS

The DucoBox Reno can be connected to the following external control components.

User controllers and room sensors	see page 82
Switch sensor (for switch detection)	see page 84

OPTIONS & ACCESSORIES DucoBox Reno



Reducer 160/125	0000-4543

Reducer from ∅ 125 mm (DucoBox spigot) to ∅ 160 mm (air duct).



Duct flange ∅ 125 mm	0000-4728

The duct flange is a handy tool for quickly connecting flexible ducts or silencers to a ∅ 125mm spigot of a DucoBox. Thanks to the smart and patented self-clamping 'Push & Go' fastening principle, the installer saves a lot of time when mounting pipes.



Renovation

Duco Reno System

MEV system | Central ventilation (1 zone) | Up to 325 m³/h at 150 Pa
With CO_2 Box sensor

CONTROL ON
EXTRACTION



COMPONENTS







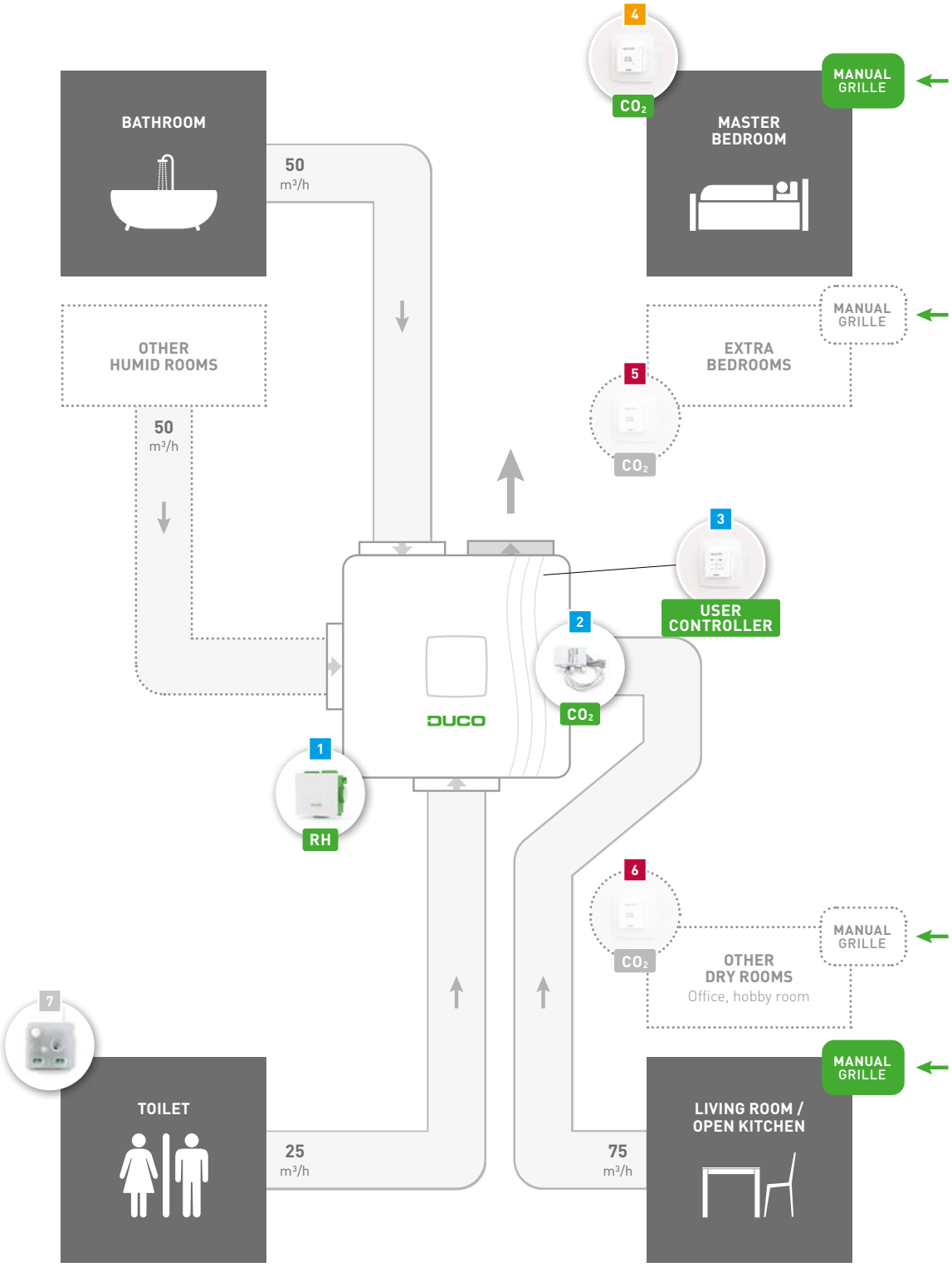


		Component on diagram
DucoBox Reno	0000-4922	1
CO_2 Box sensor DucoBox Reno	0000-4743	2
User controller **RF / Wired White**	0000-4602	3
User controller **RF / Battery White**	0000-4600	
CO_2 Room sensor **with** control **RF / Wired White**	0000-4604	
CO_2 Room sensor **without** control **RF / Wired White**	0000-4637	4 5 6
Humidity Room sensor **with** control **RF / Wired White**	0000-4606	
Surface-mounted box DUCO controllers / sensors	0000-5009	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

Switch sensor **RF/230 VAC**	0000-4174	7

→ See chapter 'Vents' from page 92 for more information on all types of vents.



Energy label	Extraction	Detection	Required components	Optional components
B	Central	High-humidity rooms	■	■
B	Central	Damp areas + master bedroom	■ + ■	■
B	Central	Damp rooms + all bedrooms	■ + ■ + ■	■

→ Extraction of stale air

→ Supply of fresh air

DucoBox Silent (Connect)

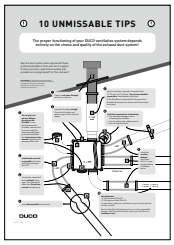
The **QUIETEST** MEV system for Europe!



Intelligent demand control
Room or box sensors based on $CO_2$and humidity measurement

Carefree night's sleep
Minimum sound power (< 27 dB(A) in occupied zones)

Save on your energy bill
Financially attractive thanks to energy-efficient EC motor



Please refer to page 102 for essential installation tips!

DucoBox Silent (Connect)

MEV system

Up to **400 m³/h** at 150 Pa

The energy-efficient, compact DucoBox Silent provides **central extraction** of humid and polluted air within DUCO's Demand-Controlled Natural Ventilation Systems. The latest generation features a simplified calibration procedure and **integrated humidity sensor** for easy installation and control*. The efficient EC motor guarantees a long service life.

* Changes not applicable for DucoBox Silent Connect.

FEATURES

Width x Height x Depth: 480 x 480 x 194 mm **Weight:** 4,3 kg **Extraction capacity at 150 Pa:** 400 m³/h **Power supply:** 230 VAC **Energy label:** class B in a system with at least two sensors	**Communication:** RF and Wired. Expandable with Connectivity Board 2.0 (see 'Options & accessories') for communication with the Duco Installation App and the DUCO HOME app, REST API and Modbus TCP.	**Peak power:** Silent (standaard): 84 W Silent Connect: 85 W **Air duct connections:** Extraction areas: 7 x ∅ 125 mm Extraction to the outside: 1 X ∅ 125 mm

VENTILATION UNIT



Type	Plug	
DucoBox Silent	F	0000-7014
DucoBox Silent Connect	F	0000-4250

CONTROL COMPONENTS DucoBox Silent (Connect)



BOX SENSORS

Box sensors can be installed very easily and quickly and provide **CO_2 and/or moisture measurement in an air duct**. They are wired directly to the circuit board. This means that no wiring for room sensors needs to be provided.

A DucoBox Silent contains **a maximum of two box sensors** – one CO_2 Box sensor and/or one Humidity Box Sensor – each of which can be clicked separately into a specific duct opening or together into one duct opening of the DucoBox.

Peak power: < 1 W	**Stand-by power:** < 1 W	**Power supply:** From the DucoBox

CO_2 Box sensor	**0000-4216**
Humidity Box Sensor	**0000-4218**

EXTERNAL CONTROL COMPONENTS

The DucoBox Silent can be connected to the following external control components.

User controllers and room sensors	see page 82
Switch sensor (for switch detection)	see page 84

OPTIONS & ACCESSORIES DucoBox Silent (Connect)



Silent Plus Kit	0000-4182

The Silent Plus Kit provides additional acoustic damping of up to 3 dB(A)! Three composite foam pads per box, placed as close to the extraction as possible, are sufficient.



Duco Connectivity Board 2.0	0000-4945

The optional Duco Connectivity Board 2.0 offers the possibility of application within the DucoBox Silent Connect, DucoBox Focus and DucoBox Energy Comfort (Plus) / Sky / Premium, enabling communication with the Duco Installation App and DUCO HOME app, while also allowing integration into home automation and building management systems via REST API or Modbus TCP.



Breech Y-piece **2 x 125 to 1 x 160**	0000-4334

This piece allows a duct of ∅ 160 mm to be connected to two spigots of the DucoBox Silent (Connect)◇∅ 125 mm). Splitting the flow between two ducts reduces resistance, resulting in quieter and more energy-efficient operation.



Reducer 160/125	0000-4543

Reducer from ∅ 125 mm (DucoBox spigot) to ∅ 160 mm (air duct).



EasySwitch	0000-5134

This 'universal' plate allows you to replace an outdated ventilation box in a renovation project without cutting and breaking with the DucoBox Silent (Connect) or Focus. After fitting against the wall, the unit can easily be clicked onto the plate, resulting in vibration-free operation during air extraction.



Coaxial cable set 8 m	0000-4418

The set comprises an 8 m long coaxial cable with pre-fitted connectors at both ends. Using this set, the antenna of the DucoBox Silent Connect, DucoBox Focus or DucoBox Energy devices can be moved, if necessary, to a place where the RF range is optimal.



Duco Power supply 230VAC-24VDC/20W + casing	0000-4763

The Duco Power Supply 230VAC-24VDC/20W is the best solution to power Duco Wired components from a central 230V connection. The component comes with a surface-mounted junction box as standard. The sum of the peak power of all connected DUCO components can be 20W at most when using one Power Supply.



Duco Power Adapter 230VAC-24VDC/20W	0000-4762

The Duco Power Adapter 230VAC-24VDC/20W is the solution to power Duco Wired components from a 230V socket. The sum of the peak power of all connected DUCO components can be 20W at most when using one Power Supply.



Flow regulator 15-50 m³/h ∅125	0000-4836
Flow regulator 50-100 m³/h ∅125	0000-4837

The adjustable flow regulator is an element that is placed in a duct to obtain a constant flow in a pressure range between 50 and 250 Pascal. It is used for both supply and extraction.

Renovation

Duco Silent System

MEV system | Central ventilation (1 zone) | Up to 400 m³/h at 150 Pa



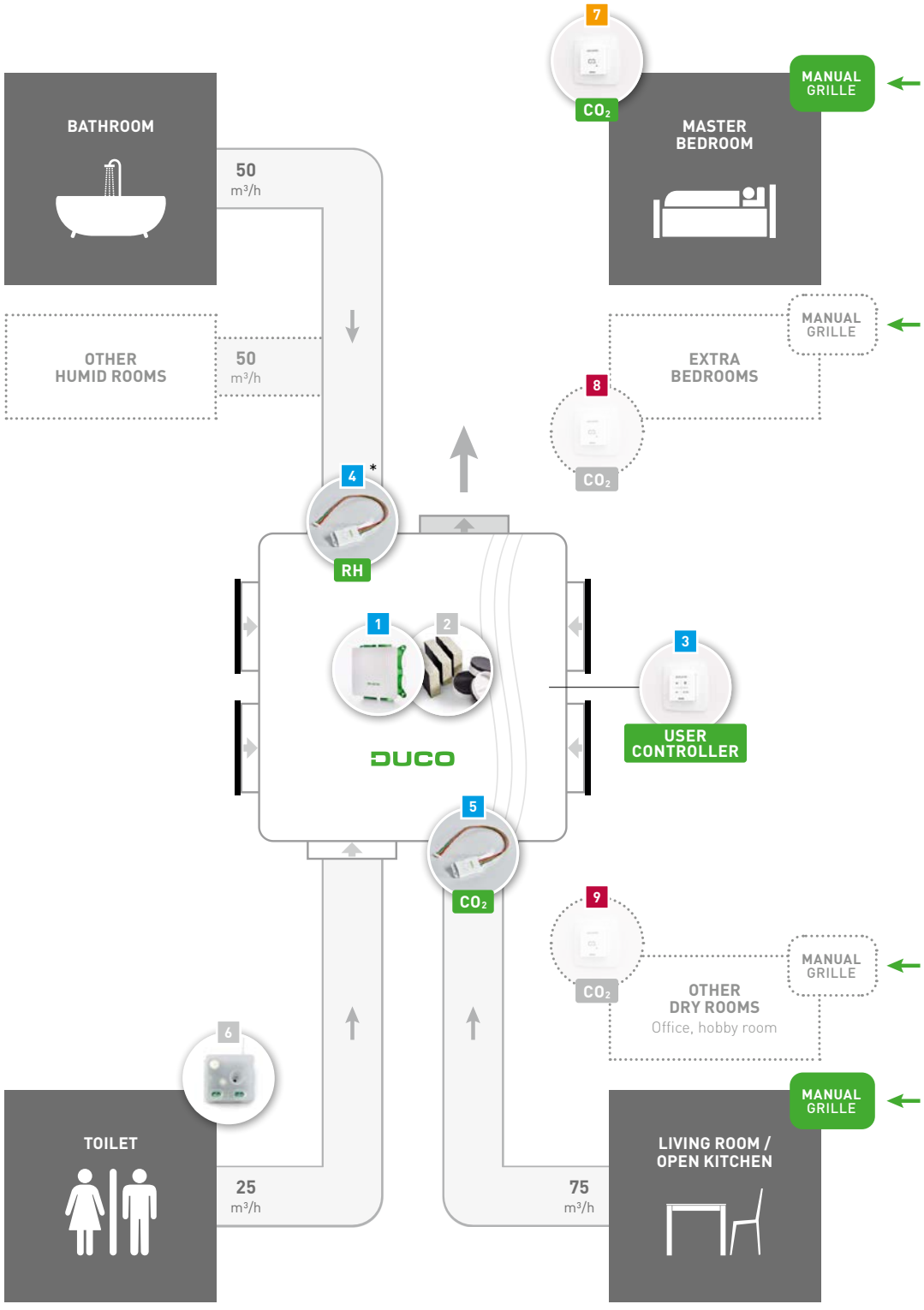
NIGHTBOOST

CONTROL ON EXTRACTION

COMPONENTS

		Component on diagram
DucoBox Silent	0000-7014	1
DucoBox Silent Connect	0000-4250	
Silent Plus Kit **(3 damping pads + 3 caps)**	0000-4182	2
CO_2 Box sensor	0000-4216	5
Humidity Box Sensor	0000-4218	4 *
* * The DucoBox Silent comes fully equipped with an integrated humidity sensor as standard, making the RH Box sensor unnecessary.		
User controller **RF / Wired White**	0000-4602	3
User controller **RF / Battery White**	0000-4600	
CO_2 Room sensor **with** control **RF / Wired White**	0000-4604	
CO_2 Room sensor **without** control **RF / Wired White**	0000-4637	7 8 9
Humidity Room sensor **with** control **RF / Wired White**	0000-4606	
Surface-mounted box DUCO controllers / sensors	0000-5009	
→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.		
Switch sensor **RF/230 VAC**	0000-4174	6
Duco Connectivity Board 2.0 **Only for DucoBox Silent Connect**	0000-4945	
Breech Y-piece **2 x 125 to 1 x 160**	0000-4334	

→ See chapter 'Vents' from page 92 for more information on all types of vents.



Energy label	Extraction	Detection	Required components	Optional components
B	Central	High-humidity rooms	■	■
B	Central	Damp areas + master bedroom	■ + ■	■
B	Central	Damp rooms + all bedrooms	■ + ■ + ■	■

→ Extraction of stale air

→ Supply of fresh air

DucoBox Focus

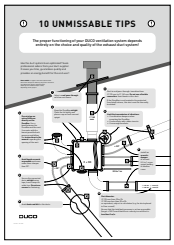
The **SMARTEST** MEV system in Europe!



Intelligent demand control
Control valve system based on $CO_2$and humidity measurement

Smart zonal control
Up to 7 zones, expandable to 11 zones with duplicator

Automatic calibration
Guaranteed flow at each vent



Please refer to page 102 for essential installation tips!

DucoBox Focus

MEV system

Up to **400 m³/h** at 150 Pa

The DucoBox Focus is an extraction fan that provides **zonal extraction** within DUCO's Demand-Controlled Natural Ventilation Systems. The DucoBox Focus is both the motor of the system, and the master unit to which control components can be paired.

This **quiet, compact, durable** and highly **energy-efficient extractor fan** removes moist and/or polluted air when needed and in the right quantity. Integrated control valves (to be ordered separately) also ensure that **air is exhausted only where necessary**, providing even quieter and more energy-efficient operation. Simple design and an efficient EC motor ensure long service life.

FEATURES

Width x Height x Depth: 480 x 480 x 194 mm **Weight:** 4,3 kg **Extraction capacity at 150 Pa:** 400 m³/h **Power supply:** 230 VAC **Peak power:** 84 W	**Air duct connections:** Extraction areas: 7 x ∅ 125 mm Extraction to the outside 1 x ∅ 125 mm **Energy label:** class B in a system with at least two sensors, and provided with valve control	**Communication:** RF and Wired. Expandable with Connectivity Board 2.0 (see 'Options & accessories') for communication with the Duco Installation App and the DUCO HOME app, REST API and Modbus TCP.



VENTILATION UNIT

Type	Plug	
DucoBox Focus **(control valves not included!)**	F	0000-4252

At least two control valves should always be provided in the DucoBox Focus.

BASIC KITS DucoBox Focus

DUCO basic kits contain a selection of control components at economical prices.

Basic kit **Duco Focus System**	1 x CO_2 Control valve **75 m³/h** living room / open kitchen 1 x Humidity /CO_2 Control valve **50 m³/h** bathroom + WC 1 x CO_2 Control valve **25 m³/h** toilet 1 x User controller **RF / Wired White** 1 x Silent Plus Kit (3 damping pads + 3 caps)	0000-7117
Basic kit **Duco Focus System with extraction in the bedroom(s)**	1 x CO_2 Control valve **75 m³/h** living room / open kitchen 1 x Humidity /CO_2 Control valve **50 m³/h** bathroom + WC 2 x CO_2 Control valve **30 m³/h** bedroom(s) 1 x CO_2 Control valve **25 m³/h** toilet 1 x User controller **RF / Wired White**	0000-7118

CONTROL COMPONENTS DucoBox Focus



CONTROL VALVES

The control valves, optionally equipped with a sensor for **CO_2 or moisture measurement**, can be integrated **into the extractor fan**. These valves ensure that only polluted and/or humid air is exhausted, where and when needed and in the right quantity.
The default set flow rate of the control valves can be manually changed during or after installation via the display menu, the Duco Installer Service Tool or Duco Installation App.

Width x Height x Depth: 141 x 167 x 46.5 mm **Weight:** 0.220 kg	**Peak power:** 2.04 W **Standby power:** 0.24W	**Power supply:** From the DucoBox

For CO_2-controlled living areas

A CO_2 Control valve commands the ventilation system based on continuous measurement of both **CO_2** (indoor climate indicator) and temperature.

CO_2 Control valve **75 m³/h** living room / open kitchen	**0000-4163**
CO_2 Control valve **30 m³/h** bedroom(s)	**0000-4164**

For toilet

Based on CO_2 measurement, this valve detects **presence** in a toilet, after which the ventilation system will extract the polluted air. Note: a CO_2 Control Valve for toilet works in a different mode than for living room / open kitchen / bedroom. This is necessary for correct operation of the system.

CO_2 Control valve **25 m³/h** toilet	**0000-4208**

For sanitary / damp areas (+ WC)

The Humidity Control valve commands the ventilation system based on continuous measurement of relative **humidity** (RH) and temperature. With the Control valve for bathrooms with WC, presence in the toilet is detected based on CO_2 measurement.

Humidity Control valve **50 m³/h** bathroom/ laundry room	**0000-4162**
Moisture/CO_2 Control valve **50 m³/h** bathroom + WC	**0000-4644**

Various applications

For efficient extraction in areas such as a storage room, you can also opt for a Sensorless Control valve. This control valve can be combined with control components in the room, such as a switch sensor or room sensor.

Sensorless Control valve **25 m³/h** various applications	**0000-4165**

EXTERNAL CONTROL COMPONENTS

The DucoBox Focus can be paired with the following external control components.

User controllers and room sensors	see page 82
Switch sensor (for switch detection)	see page 84

OPTIONS & ACCESSORIES DucoBox Focus



Silent Plus Kit 0000-4182

The Silent Plus Kit provides additional acoustic damping of up to 3 dB(A)! Three composite foam pads per box, placed as close to the extraction as possible, are sufficient.



Duco Connectivity Board 2.0 0000-4945

The optional Duco Connectivity Board 2.0 offers the possibility of application within the DucoBox Silent Connect, DucoBox Focus and DucoBox Energy Comfort (Plus) / Sky / Premium, enabling communication with the Duco Installation App and DUCO HOME app, while also allowing integration into home automation and building management systems via REST API or Modbus TCP.



Reducer 160/125 0000-4543

Reducer from ∅ 125 mm (DucoBox spigot) to ∅ 160 mm (air duct).



EasySwitch 0000-5134

This 'universal' plate allows you to replace an outdated ventilation box in a renovation project without drilling or channelling with the DucoBox Silent Connect or Focus. After fitting against the wall, the unit can easily be clicked onto the plate, resulting in vibration-free operation during air extraction.



Coaxial cable set 8 m 0000-4418

The set comprises an 8 m long coaxial cable with pre-fitted connectors at both ends. Using this set, the antenna of the DucoBox Silent Connect, DucoBox Focus or DucoBox Energy devices can be moved, if necessary, to a place where the RF range is optimal.



Duco Power supply 230VAC-24VDC/20W + casing 0000-4763

The Duco Power Supply 230VAC-24VDC/20W is the best solution to power Duco Wired components from a central 230V connection. The component comes with a surface-mounted junction box as standard. The sum of the peak power of all connected DUCO components can be 20W at most when using one Power Supply.



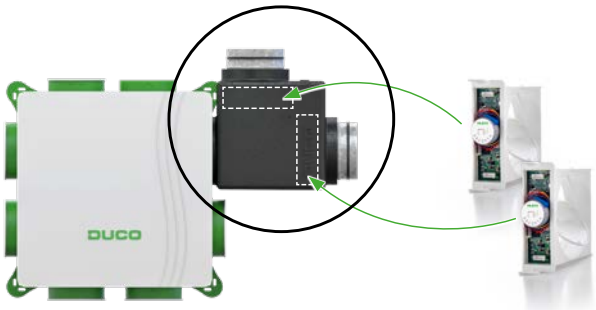
Duco Power Adapter 230VAC-24VDC/20W 0000-4762

The Duco Power Adapter 230VAC-24VDC/20W is the solution to power Duco Wired components from a 230V socket. The sum of the peak power of all connected DUCO components can be 20W at most when using one Power Supply.



Duplicator control valves 0000-4454

The Duplicator control valves offers the possibility of duplicating spigots on the DucoBox Focus. This allows a zonal ventilation system to be built up with up to 11 connections (of which a maximum of 7 connections with a CO_2 control valve). The connector supplied allows the wiring of these control valves to be easily looped through to the DucoBox Focus. And this, as always within DUCO systems, invisible and behind the lid!





Renovation

NIGHTBOOST

CONTROL ON EXTRACTION

Duco Focus System

MEV system | Local ventilation | Up to 400 m³/h at 150 Pa



BASIC KIT

●	Basic kit Duco Focus System	0000-7117
●	Basic kit Duco Focus System with extraction in the bedroom(s)	0000-7118

The bullet next to the item numbers below indicates which and how many components the basic kit contains.

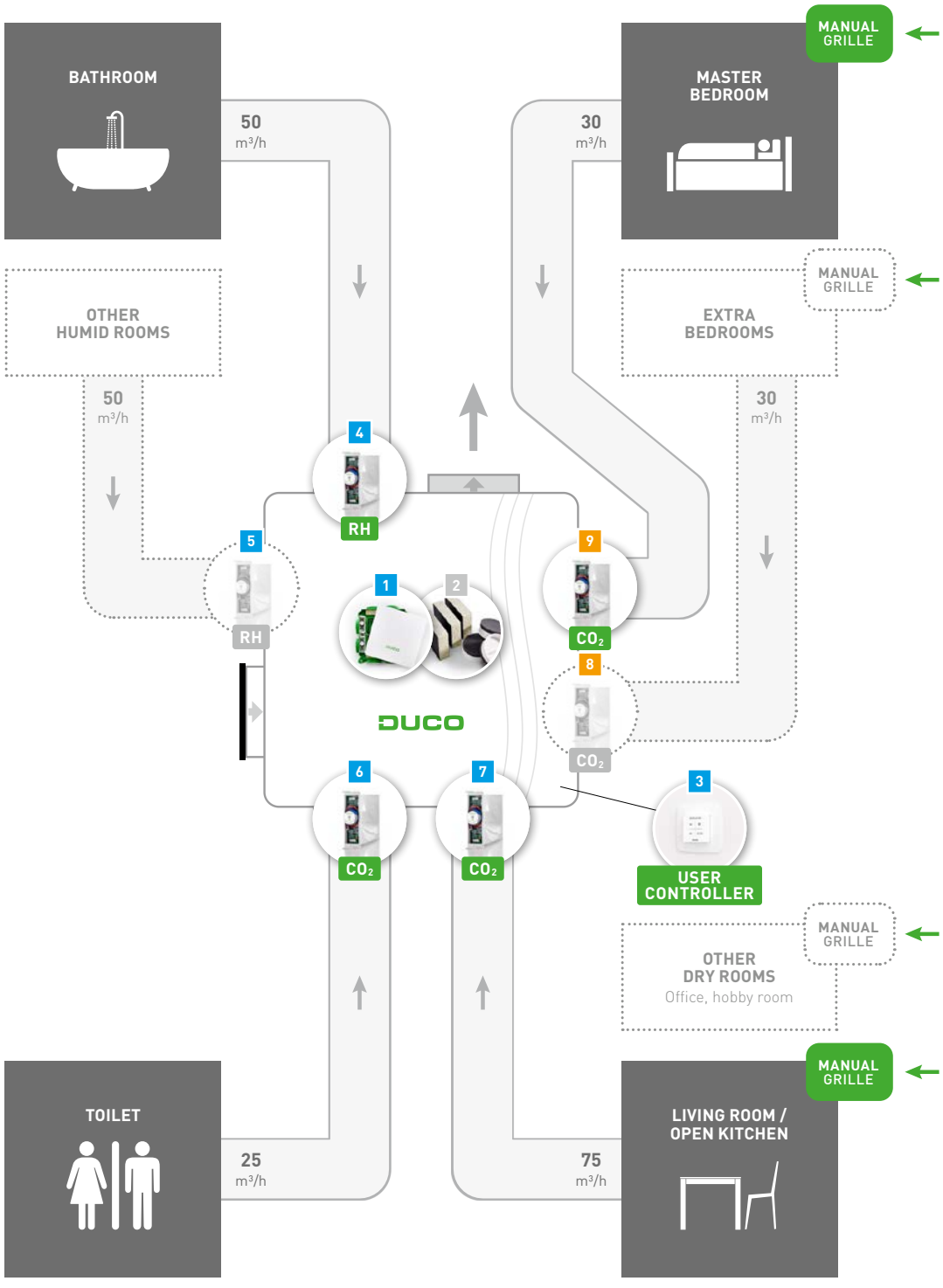
COMPONENTS

			Component on diagram
	DucoBox Focus	0000-4252	1
	Silent Plus Kit (3 damping pads + 3 caps)	1 0000-4182	2
	CO_2 Control valve 75 m³/h (living room / open kitchen)	1 1 0000-4163	7
	CO_2 Control valve 30 m³/h (bedroom(s))	2 0000-4164	8 9
	CO_2 Control valve 25 m³/h (toilet)	1 1 0000-4208	6
	Humidity Control valve 50 m³/h (bathroom / laundry room)	0000-4162	4 5
	CO_2/Humidity Control valve 50 m³/h (bathroom + WC)	1 1 0000-4644	
	Sensorless Control valve 25 m³/h (various applications)	0000-4165	
	Duplicator control valves	0000-4454	
	User controller RF / Wired White	1 1 0000-4602	3
	User controller RF / Battery White	0000-4600	
	CO_2 Room sensor with control RF / Wired White	0000-4604	
	CO_2 Room sensor without control RF / Wired White	0000-4637	
	Humidity Room sensor with control RF / Wired White	0000-4606	
	Surface-mounted box DUCO controllers / sensors	0000-5009	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

	Switch sensor RF/230 VAC	0000-4174	
	Duco Connectivity Board 2.0	0000-4945	

→ See chapter 'Vents' from page 92 for more information on all types of vents.



Energy label	Extraction	Detection	Required components	Optional components
B	Local	High-humidity rooms	■	■
B	Local	Damp rooms + bedrooms	■ + ■	■

Extraction of stale air

Supply of fresh air

DucoBox Energy Comfort (Plus)

Europe's **SMARTEST** MVHR unit!



Plus D250 | D325 | D400 | Plus D350 / Plus D450 / Plus D550

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute

A solution for every situation

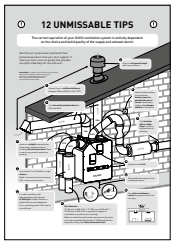
Flow rate up to 550 m³/h (at 200 Pa)

Left/right exchangeable

Exchange between left and right variant is carried out 100 % by software

Automatic calibration

Calibration at constant pressure saves up to 50 % on the configuration time



Please refer to page 103 for essential installation tips!

DucoBox Energy Comfort (Plus)

MVHR

Up to **550 m³/h** at 200 Pa

The DucoBox Energy Comfort is a compact and light **mechanical ventilation unit with heat recovery**. With a capacity of up to 400 m³/h, this is the basic ventilation solution for apartments and serial housing construction. In addition, the D325 variant weighs only 21 kg. In other words: easy **to install by one person**.

DucoBox Energy Comfort Plus was developed with the aim of guaranteeing an even **quieter operation** and to be able to offer **higher flow rates** (up to 550 m³/h).

Within the DucoBox Energy Comfort (Plus) range, the left/right exchange is 100 % software-driven thanks to the **patented principle of the double by-pass**.

The demand control of the DucoBox Energy Comfort (Plus) results in **intelligent and energy-efficient operation**. Together with the smart demand control based on CO_2 and humidity, the dynamic air distribution filters ensure **exceptional efficiency** within this compact unit.
The compact and quick-to-install 2-zone valves provide the most energy-efficient result that can be achieved with a heat recovery system. Please note that the **zone control** reduces the noise considerably! Comfort guaranteed!

FEATURES

General features
Connection type
1 x extraction to outside (EHA)
1 x supply from outside (ODA)
1 x extraction from inside (ETA)
1 x supply to inside (SUP)
Energy label: A+
Communication:
RF and Wired. Expandable with Connectivity Board 2.0 (see 'Options & accessories') for communication with the Duco Installation App and the DUCO HOME app, REST API and Modbus TCP.

Comfort D250 / Plus D250
Width x Height x Depth:
D250: 560 x 669 x 491 mm
Plus D250: 565 x 669 x 491 mm
Weight:
Comfort D250: 18 kg
Comfort Plus D250: 29 kg
Flow rate / pressure: 250 m³/h / 150 Pa
Max. power per motor: 50 W
Number of air ducts: 4 x ∅ 125

Comfort D325
Width x Height x Depth:
700 x 705 x 525 mm
Weight : 21 kg
Flow rate / pressure: 325 m³/h / 150 Pa
Number of air ducts: 4 x ∅ 160
Peak power: 2 x 59 W

Comfort D400
Width x Height x Depth:
756 x 800 x 584 mm
Weight: 31 kg
Flow rate / pressure: 400 m³/h / 200 Pa
Number of air ducts: 4 x ∅ 180
Peak power: 2 x 72,5 W

Comfort Plus D350 / D450 / D550
Width x Height x Depth:
760 x 803 x 584 mm
Weight: 47 kg
Flow rate / pressure:
D350: 350 m³/h / 200 Pa
D450: 450 m³/h / 200 Pa
D550: 550 m³/h / 200 Pa
Number of air ducts: 4 x ∅ 180
Max. power per motor:
D350: approx. 59 W
D450: approx. 98 W
D550: approx. 135 W

VENTILATION UNIT





Type of DucoBox	Passive House Certified Component	Plug	
DucoBox Energy Comfort D250	✕	F	0000-7073
DucoBox Energy Comfort D325	✕	F	0000-4649
DucoBox Energy Comfort D400	✕	F	0000-4707
DucoBox Energy Comfort Plus D250	✕	F	0000-7077
DucoBox Energy Comfort Plus D350		F	0000-4704
DucoBox Energy Comfort Plus D450		F	0000-4705
DucoBox Energy Comfort Plus D550	✕	F	0000-4706

BASIC KITS

Basic kit Multizone D160 DucoBox Energy Comfort (Plus) / Sky White	2 x Multi-zone valve DucoBox Energy (Sensorless) ∅160 1 x CO_2 Room sensor **RF / Wired White** 1 x CO_2 Room sensor without control **RF / Wired White** 1 x Duco Power supply 230VAC-24VDC/20W + casing	**0000-4900**

CONTROL COMPONENTS DucoBox Energy Comfort (Plus)

HUMIDITY SENSOR

This sensor is placed **in the extract air duct** (ETA) of the DucoBox Energy Comfort (Plus) and centrally measures the **humidity** of the air extracted from the house. **A maximum of one Humidity Sensor (ETA) per unit.**

Peak power: < 1 W	**Communication:** via supplied cable	**Power supply:** From the DucoBox



Humidity Sensor DucoBox Energy Comfort (Plus) / Sky	**0000-4723**

The Humidity Sensor is installed in a borehole (∅ 10mm) in an extraction duct with diameter of your choice.

EXTERNAL 2-ZONE

The 2-zone control for the supply to the home is done quickly and discreetly by the compact multi-zone valves. A valve is provided for each branch to the various zones.



Peak power: 7 W	**Communication:** Wired connection to DucoBox	**Power supply:** 24 VDC (to be provided externally)

Multi-zone valve DucoBox Energy (Sensorless) ∅125	**0000-4761**
Multi-zone valve DucoBox Energy (Sensorless) ∅160	**0000-4760**



The Duco Branch piece (∅180 → 2x ∅160) has been developed to allow multi-zone valves to be quickly fitted to DucoBox Energy Comfort (Plus) / Sky. Thanks to the well-thought-out design, the pressure build-up is evenly distributed over both zones. This improves the acoustics of the overall system! By using the connection pieces with joint, the Branch piece can be fitted to any type of DUCO ventilation system. The multi-zone valves D160 can also be mounted airtight without additional material. Save time = save money!

Duco Branch piece (∅180 → 2x ∅160) for Multi-zone valves	**0000-4995**

EXTERNAL CONTROL COMPONENTS

The DucoBox Energy Comfort (Plus) can be linked with the following external control components.

User controllers and room sensors	see page 82
Switch sensor (for switch detection)	see page 84

OPTIONS & ACCESSORIES DucoBox Energy Comfort (Plus)



Mounting chair standing (Energy Comfort (Plus) D250)	**0000-7134**
Mounting chair standing (Energy Comfort D325)	**0000-4546**
Mounting chair standing (Energy Comfort D400/Plus/Premium)	**0000-4740**

In situations where wall mounting of the DucoBox Energy Comfort (Plus) is not possible, this support frame enables floor mounting. Use of a flat siphon is required.

Width x Height x Depth (incl. DucoBox Energy Comfort D325): 700 x 828 x 525 mm
Width x Height x Depth (incl. DucoBox Energy Comfort D400): 700 x 933 x 525 mm
Width x Height x Depth (incl. DucoBox Energy Comfort Plus): 700 x 936 x 525 mm



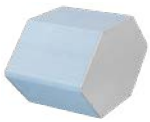
Siphon flat (Energy)	0000-4376

This flat diaphragm siphon with a height of 64 mm saves space and reduces the risk of air leaks. The siphon can be installed 'dry' and does not dry out on warm days.



Filter Set 2 x Coarse 65 % (Energy Comfort (Plus) D250)	0000-7132
Filterset Coarse 65 % / ePM1 55 % (Energy Comfort (Plus) D250)	0000-7133
Filter set 2 x Coarse 65 % (Energy Comfort)	0000-4547
Filter set Coarse 65 % / ePM1 55 % (Energy Comfort D325)	0000-4661
Filter set 2 x Coarse 65 % (Energy Comfort D400 / Comfort Plus)	0000-4741
Filter set Coarse 65 % / ePM1 55 % (Energy Comfort D400 / Comfort Plus)	0000-4742

The filter sets for the DucoBox Energy Comfort (Plus) include the following filters: For supply air (SUP): choice between Coarse 65 % (≈ G4) or ePM1 55 % filter (≈ F7). The ePM1 55 % filter lets fewer fine particles through, which has a positive influence on air quality (e.g. for people who have allergies). For extract air (ETA): Coarse 65 % filter (≈ G4)



Spare Part: Heat Exchanger Enthalpy DucoBox Energy Comfort D400 / Plus	0000-7131

The enthalpy exchanger is a replacement part for the DucoBox Energy Comfort D400 and the DucoBox Energy Comfort Plus (D350, D450 and D550). This type of exchanger transfers not only heat but also moisture from the outgoing to the incoming air flow.



Coaxial cable set 8 m	0000-4418

The set comprises an 8 m long coaxial cable with pre-fitted connectors at both ends. This set can be used to relocate the DucoBox Silent Connect, DucoBox Focus or DucoBox Energy Comfort (Plus) / Sky / Premium antenna, if necessary, to a spot where the RF range is optimal.



Duco Connectivity Board	0000-4945

The optional Duco Connectivity Board 2.0 offers the possibility of application within the DucoBox Silent Connect, DucoBox Focus and DucoBox Energy Comfort (Plus) / Sky / Premium, enabling communication with the Duco Installation App and DUCO HOME app, while also allowing integration into home automation and building management systems via REST API or Modbus TCP



Connection piece with joint D125/D125 (M/M)	0000-7086
Connection piece with joint D160/D125 (M/M)	0000-7087
Connection piece with joint D160/D160 (M/M)	0000-4724
Connection piece with joint D180/D160 (M/M)	0000-4725
Connection piece with joint D180/D180 (M/M)	0000-4726
Connection piece with joint D200/D180 (M/M)	0000-4727
Connection piece 45° with joint D160/D160 (M/M)	0000-4949

The connection pieces with joint are used to make a quick and good connection between ducts (extraction and/or supply) or between a duct and a DucoBox. Thanks to the pre-fitted rubber seal, an airtightness class of up to D can be guaranteed at the connection!



Insulated connection piece with joint D125/D125 (M/M)	0000-7135
Insulated connection piece with joint D160/D125 (M/M)	0000-7136
Insulated connection piece with joint D160/D160 (M/M)	0000-7039
Insulated connection piece with joint D180/D160 (M/M)	0000-7040
Insulated connection piece with joint D180/D180 (M/M)	0000-7041
Insulated connection piece with joint D200/D180 (M/M)	0000-7042
Insulated connection piece 45° with joint D160/D160 (M/M)	0000-7043

The connection pieces with joint are used to make a quick and good connection between ducts (extraction and/or supply) or between a duct and a DucoBox. Thanks to the pre-fitted rubber seal, an airtightness class of up to D can be guaranteed at the connection!

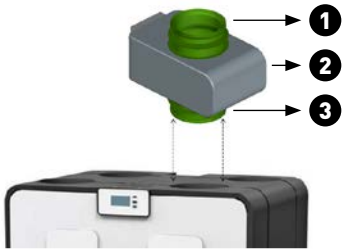


Pre-Heater DucoBox Energy Comfort (Plus) / Sky **1150 W**	**0000-5011**
Pre-Heater DucoBox Energy Comfort (Plus) **1425W**	**0000-4807**

The Pre-heater is a frost protection based on an electrical resistance of up to 1150W or 1425W that can optionally be applied in the ODA connection of DucoBox Energy Comfort (Plus) and DucoBox Energy Sky. The resistance is modulatively controlled based on various temperature readings in the ventilation unit.

The heater is attached between the unit and the air duct via connectors. The connectors depend on the type of unit and the flow rate. Refer to the table below for the right combination.

Type of unit	Flow rate	1 Connector	2 Heater	3 Connector
D250	Up to 250 m³/h	D160/D125 **0000-7136**	Pre-Heater **1150 W** **0000-5011**	D160/D125 **0000-7136**
D325	Up to 250 m³/h	D160/D160 **0000-7136**		D160/D160 **0000-7136**
	Up to 325 m³/h	D180/D160 **0000-7040**		D160/D160 **0000-7039**
D400 Plus D350 Plus D450 Plus D550	Up to 250 m³/h	D160/D160 **0000-7039**		D180/D160 **0000-4725**
	Up to 325 m³/h	D180/D160 **0000-7040**		D180/D160 **0000-7040**
	Up to 350 m³/h	D180/D180 **0000-7041**	Pre-Heater **1450 W** **0000-4807**	D180/D180 **0000-7041**
	Up to 550 m³/h	D180/D200 **0000-7042**		D180/D180 **0000-7041**





Duco Power supply 230VAC-24VDC/20W + casing	**0000-4763**

The Duco Power Supply 230VAC-24VDC/20W is the best solution to power Duco Wired components from a central 230V connection. The component comes with a surface-mounted junction box as standard. The sum of the peak power of all connected DUCO components can be 20W at most when using one Power Supply.



Duco Power Adapter 230VAC-24VDC/20W	**0000-4762**

The Duco Power Adapter 230VAC-24VDC/20W is the solution to power Duco Wired components from a 230V socket. The sum of the peak power of all connected DUCO components can be 20W at most when using one Power Supply.



Flow regulator 15-50 m³/h ∅80	**0000-4722**
Flow regulator 15-50 m³/h ∅125	**0000-4836**
Flow regulator 50-100 m³/h ∅125	**0000-4837**

The adjustable flow regulator is an element that is placed in a duct to obtain a constant flow in a pressure range between 50 and 250 Pascal. It is used for both supply and extraction.

SERVICE PLEASE!

STUDY SERVICE 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. For this purpose please contact your trusted DUCO distributor or DUCO contact, or submit your project via the website:

www.duco.eu/**yourproject**





HELP DESK Let yourself be guided

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

DUCO.TV Instructional videos

Our **short instruction videos** will help you step-by-step during installation or maintenance of DUCO products.

duco.tv





BIM LIBRARY Consult online

The construction market is becoming increasingly centralised and thus efficiently managed with BIM as a guiding principle. DUCO has anticipated this since the early days by making an **Autodesk Revit product library** available online. In addition, DUCO products are also included in the internationally oriented platform **BIM Object**.

duco.eu/bim

www.bimobject.com

NO humidity measurement

1-ZONE SYSTEM

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute
*

Duco Energy Comfort (Plus) System

MVHR | Central ventilation (1-zone) | Up to 550 m³/h at 200 Pa



COMPONENTS



		Component on diagram
DucoBox Energy Comfort D250	0000-7073	1
DucoBox Energy Comfort D325	0000-4649	
DucoBox Energy Comfort D400	0000-4707	
DucoBox Energy Comfort Plus D250	0000-7077	
DucoBox Energy Comfort Plus D350	0000-4704	
DucoBox Energy Comfort Plus D450	0000-4705	
DucoBox Energy Comfort Plus D550	0000-4706	



User controller **RF / Wired White**	0000-4602	2
User controller **RF / Battery White**	0000-4600	
CO_2 Room sensor **with** control **RF / Wired White**	0000-4604	6
CO_2 Room sensor **without** control **RF / Wired White**	0000-4637	3 4 5
Surface-mounted box DUCO controllers / sensors	0000-5009	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.



Switch sensor **RF/230 VAC**	0000-4174	7



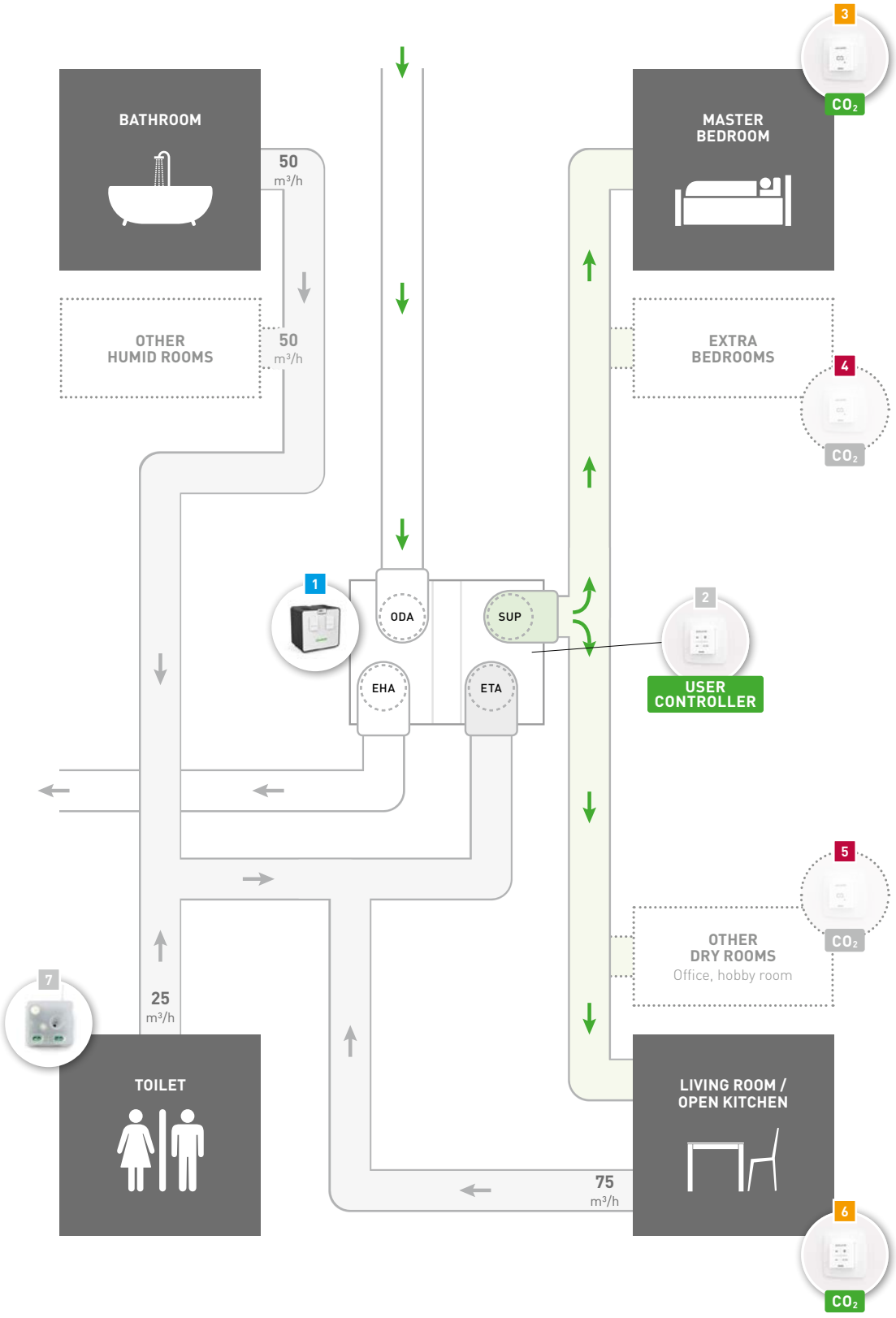
Duco Connectivity Board 2.0	0000-4945	



Pre-Heater DucoBox Energy Comfort (Plus) / Sky **1150W**	0000-5011	
Pre-Heater DucoBox Energy Comfort (Plus) **1425W**	0000-4807	

→ See chapter 'Vents' from page 92 for more information on all types of vents.

* Passive House Institute certificate only for DucoBox Energy Comfort Plus D350/D450 units with pre-heater and a maximum flow rate between: 160 m³/h and 238 m³/h for the D350 variant and 155 m³/h and 308 m³/h for the D450 variant.



Detection		Required components	Optional components
Humidity	CO_2		
✗	✗	■	■
✗	Main rooms	■ + ■	■
✗	All rooms	■ + ■ + ■	■

→ Extraction of stale air

→ Supply of fresh air

The illustration shows a right-hand version of the DucoBox Energy Comfort (Plus).

CENTRAL humidity measurement

1-ZONE SYSTEM

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute
*

Duco Energy Comfort (Plus) System

MVHR | Central ventilation (1-zone) | Up to 550 m³/h at 200 Pa



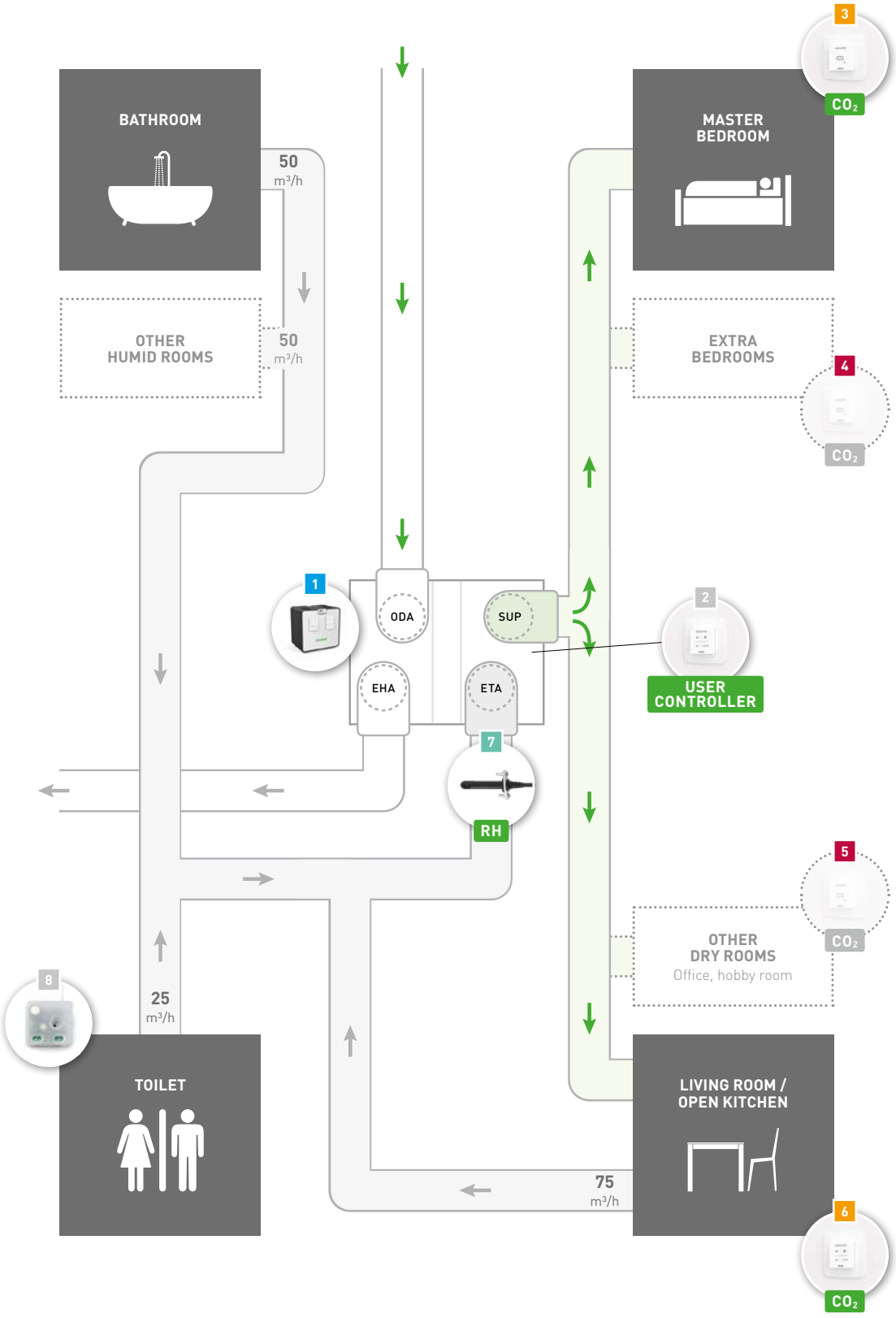
COMPONENTS

		Component on diagram
DucoBox Energy Comfort D250	0000-7073	1
DucoBox Energy Comfort D325	0000-4649	
DucoBox Energy Comfort D400	0000-4707	
DucoBox Energy Comfort Plus D250	0000-7077	
DucoBox Energy Comfort Plus D350	0000-4704	
DucoBox Energy Comfort Plus D450	0000-4705	
DucoBox Energy Comfort Plus D550	0000-4706	
Humidity Sensor DucoBox Energy Comfort (Plus) / Sky	0000-4723	7
User controller **RF / Wired White**	0000-4602	2
User controller **RF / Battery White**	0000-4600	
CO_2 Room sensor **with** control **RF / Wired White**	0000-4604	6
CO_2 Room sensor **without** control **RF / Wired White**	0000-4637	3 4 5
Surface-mounted box DUCO controllers / sensors	0000-5009	
Switch sensor **RF / 230 VAC**	0000-4174	8
Duco Connectivity Board 2.0	0000-4945	
Pre-Heater DucoBox Energy Comfort (Plus) / Sky **1150W**	0000-5011	
Pre-Heater D ucoBox Energy Comfort (Plus) **1425W**	0000-4807	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

→ See chapter 'Vents' from page 92 for more information on all types of vents.

* Passive House Institute certificate only for DucoBox Energy Comfort Plus D350/D450 units with pre-heater and a maximum flow rate between: 160 m³/h and 238 m³/h for the D350 variant and 155 m³/h and 308 m³/h for the D450 variant.



Detection		Required components	Optional components
Humidity	CO_2		
Central	✗	■ + ■	■
Central	Main rooms	■ + ■ + ■	■
Central	All rooms	■ + ■ + ■ + ■	■

→ Extraction of stale air

→ Supply of fresh air

The illustration shows a right-hand version of the DucoBox Energy Comfort (Plus).

LOCAL humidity measurement

1-ZONE SYSTEM

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute
*

Duco Energy Comfort (Plus) System

MVHR | Central ventilation (1-zone) | Up to 550 m³/h at 200 Pa



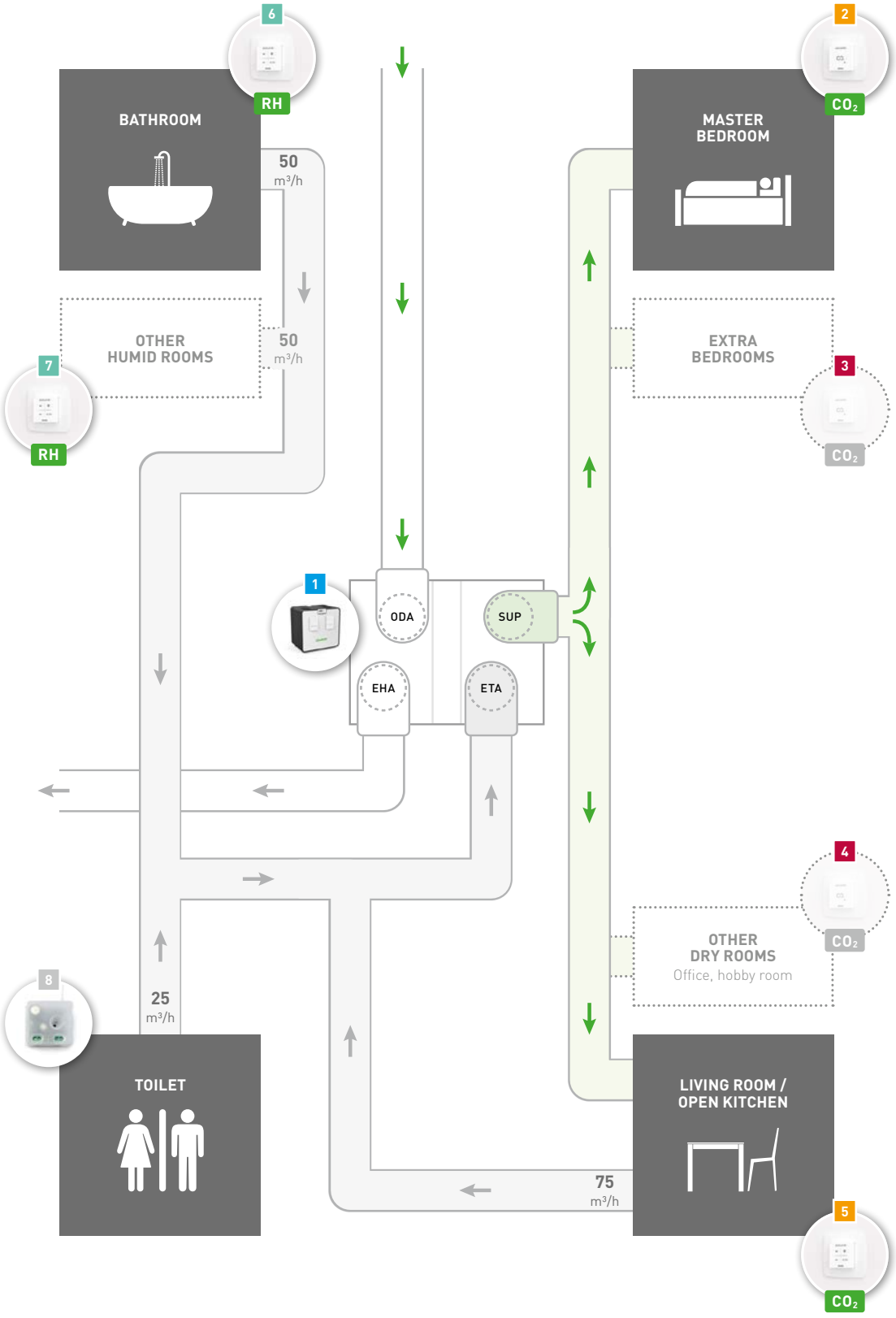
COMPONENTS

		Component on diagram
DucoBox Energy Comfort D250	0000-7073	1
DucoBox Energy Comfort D325	0000-4649	
DucoBox Energy Comfort D400	0000-4707	
DucoBox Energy Comfort Plus D250	0000-7077	
DucoBox Energy Comfort Plus D350	0000-4704	
DucoBox Energy Comfort Plus D450	0000-4705	
DucoBox Energy Comfort Plus D550	0000-4706	
User controller **RF / Wired White**	0000-4602	
User controller **RF / Battery White**	0000-4600	
CO_2 Room sensor **with** control **RF / Wired White**	0000-4604	5
CO_2 Room sensor **without** control **RF / Wired White**	0000-4637	2 3 4
Humidity Room sensor **with** control **RF / Wired White**	0000-4606	6 7
Surface-mounted box DUCO controllers / sensors	0000-5009	
Switch sensor **RF / 230 VAC**	0000-4174	8
Duco Connectivity Board 2.0	0000-4945	
Pre-Heater DucoBox Energy Comfort (Plus) / Sky **1150W**	0000-5011	
Pre-Heater DucoBox Energy Comfort (Plus) **1425W**	0000-4807	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

→ See chapter 'Vents' from page 92 for more information on all types of vents.

* Passive House Institute certificate only for DucoBox Energy Comfort Plus D350/D450 units with pre-heater and a maximum flow rate between: 160 m³/h and 238 m³/h for the D350 variant and 155 m³/h and 308 m³/h for the D450 variant.



Detection		Required components	Optional components
Humidity	CO_2		
Local	✕	■ + ■	■
Local	Main rooms	■ + ■ + ■	■
Local	All rooms	■ + ■ + ■ + ■	■

→ Extraction of stale air

→ Supply of fresh air

The illustration shows a right-hand version of the DucoBox Energy Comfort (Plus).

NO humidity measurement

2-ZONE SYSTEM

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute
*

Duco Energy Comfort (Plus) System

MVHR | Zonal ventilation (2-zone) | Up to 550 m³/h at 200 Pa



BASIC KIT

●	Basic kit Multizone D160 DucoBox Energy Comfort (Plus) / Sky White	0000-4900

The bullet next to the item numbers below indicates which and how many components the basic kit contains.

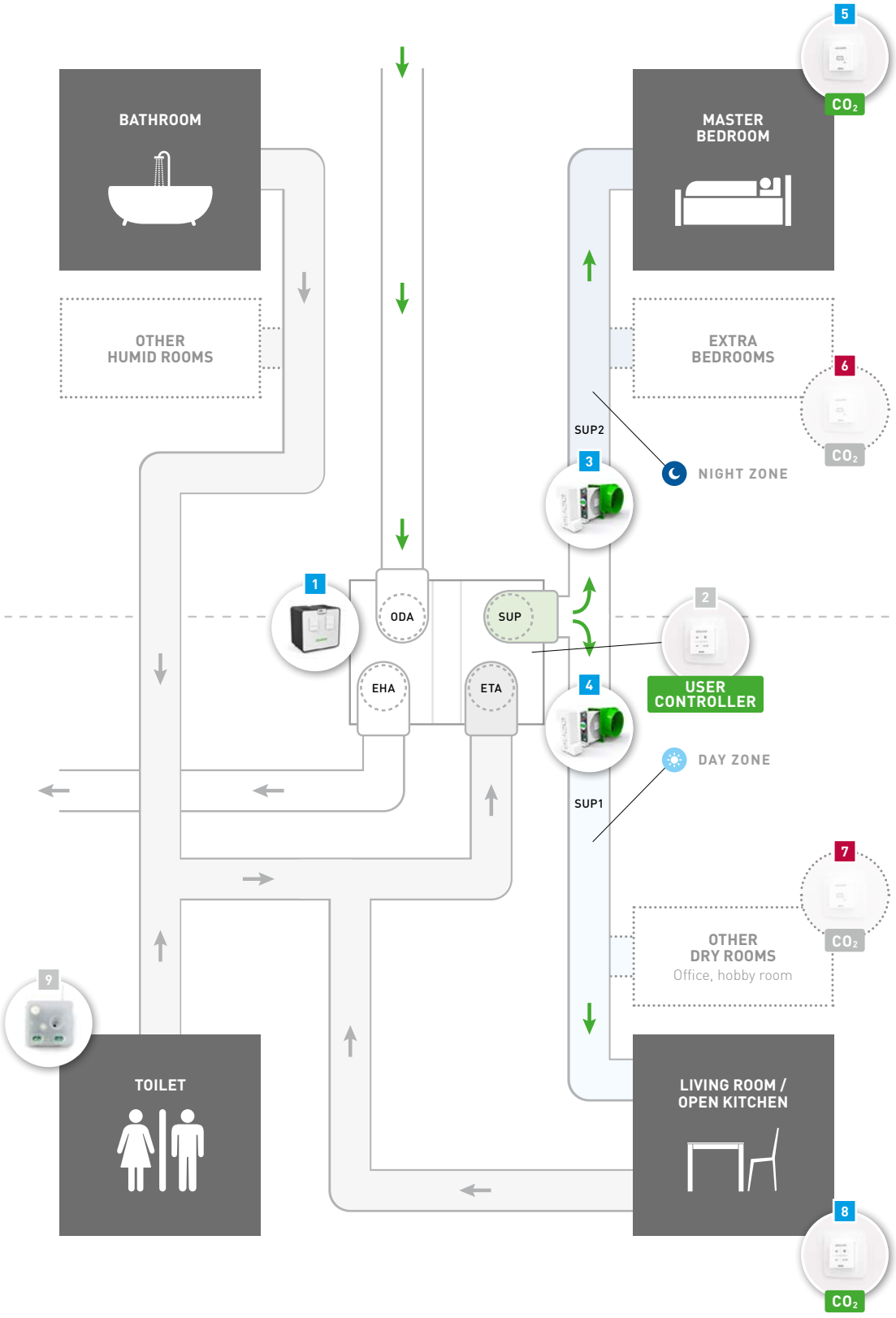
COMPONENTS

			Component on diagram
	DucoBox Energy Comfort D250	0000-7073	1
	DucoBox Energy Comfort D325	0000-4649	
	DucoBox Energy Comfort D400	0000-4707	
	DucoBox Energy Comfort Plus D250	0000-7077	
	DucoBox Energy Comfort Plus D350	0000-4704	
	DucoBox Energy Comfort Plus D450	0000-4705	
	DucoBox Energy Comfort Plus D550	0000-4706	
	Multi-zone valve DucoBox Energy (Sensorless) ∅125	0000-4761	3 4
	Multi-zone valve DucoBox Energy (Sensorless) ∅160	② 0000-4760	
	Duco Branch piece (∅180 → 2x ∅160) for Multi-zone valves	0000-4995	
	User controller **RF / Wired White**	0000-4602	2
	User controller **RF / Battery White**	0000-4600	
	CO_2 Room sensor **with** control **RF / Wired White**	① 0000-4604	8
	CO_2 Room sensor **without** control **RF / Wired White**	① 0000-4637	5 6 7
	Surface-mounted box DUCO controllers / sensors	0000-5009	
	Switch sensor **RF / 230 VAC**	0000-4174	9
	Duco Connectivity Board 2.0	0000-4945	
	Pre-Heater DucoBox Energy Comfort (Plus) / Sky **1150W**	0000-5011	
	Pre-Heater DucoBox Energy Comfort (Plus) **1425W**	0000-4807	
	Duco Power supply 230VAC-24VDC/20W + casing	① 0000-4763	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

→ See chapter 'Vents' from page 92 for more information on all types of vents.

* Passive House Institute certificate only for DucoBox Energy Comfort Plus D350/D450 units with pre-heater and a maximum flow rate between: 160 m³/h and 238 m³/h for the D350 variant and 155 m³/h and 308 m³/h for the D450 variant.



Detection		Required components	Optional components
Humidity	CO_2		
✕	Main rooms	■	■
✕	All rooms	■ + ■	■

Extraction of stale air

Supply of fresh air

The illustration shows a right-hand version of the DucoBox Energy Comfort (Plus).

CENTRAL
humidity
measurement

2-ZONE
SYSTEM

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute
*

Duco Energy Comfort (Plus) System

MVHR | Zonal ventilation (2-zone) | Up to 550 m³/h at 200 Pa



BASIC KIT

●	**Basic kit Multizone D160** **DucoBox Energy Comfort (Plus) / Sky White**	0000-4900

The bullet next to the item numbers below indicates which and how many components the basic kit contains.

COMPONENTS

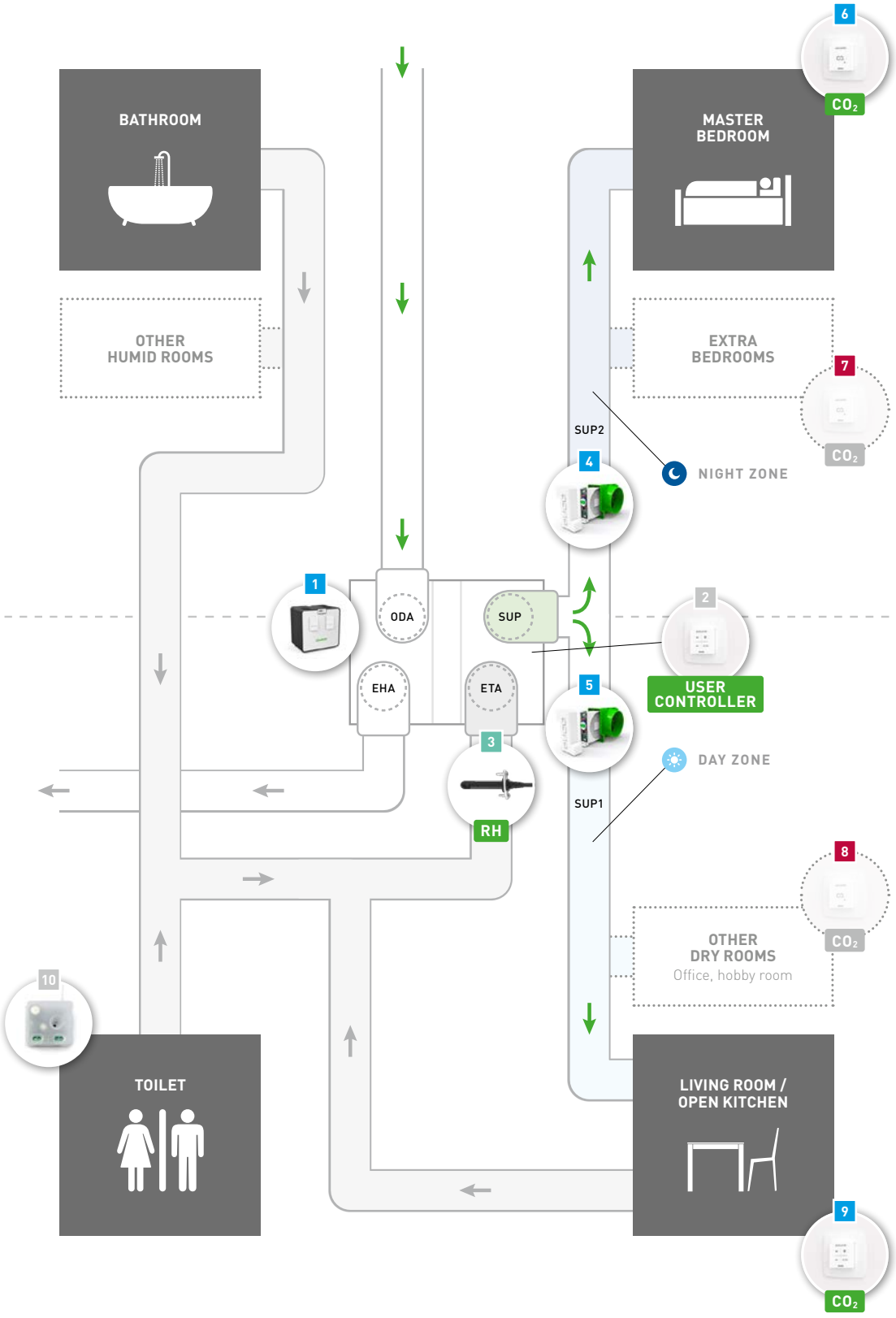
			Component on diagram
	DucoBox Energy Comfort D250	0000-7073	1
	DucoBox Energy Comfort D325	0000-4649	
	DucoBox Energy Comfort D400	0000-4707	
	DucoBox Energy Comfort Plus D250	0000-7077	
	DucoBox Energy Comfort Plus D350	0000-4704	
	DucoBox Energy Comfort Plus D450	0000-4705	
	DucoBox Energy Comfort Plus D550	0000-4706	
	Multi-zone valve DucoBox Energy (Sensorless) ∅125	0000-4761	4 5
	Multi-zone valve DucoBox Energy (Sensorless) ∅160	● 2 0000-4760	
	Duco Branch piece (∅180 → 2x ∅160) for Multi-zone valves	0000-4995	
	Humidity Sensor DucoBox Energy Comfort (Plus) / Sky	0000-4723	3
	User controller **RF / Wired White**	0000-4602	2
	User controller **RF / Battery White**	0000-4600	
	CO_2 Room sensor **with** control **RF / Wired White**	● 1 0000-4604	9
	CO_2 Room sensor **without** control **RF / Wired White**	● 1 0000-4637	6 7 8
	Surface-mounted box DUCO controllers / sensors	0000-5009	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

	Switch sensor **RF / 230 VAC**	0000-4174	10
	Duco Connectivity Board 2.0	0000-4945	
	Pre-Heater DucoBox Energy Comfort (Plus) / Sky **1150W**	0000-5011	
	Pre-Heater DucoBox Energy Comfort (Plus) **1425W**	0000-4807	
	Duco Power supply 230VAC-24VDC/20W + casing	● 1 0000-4763	

→ See chapter 'Vents' from page 92 for more information on all types of vents.

* Passive House Institute certificate only for DucoBox Energy Comfort Plus D350/D450 units with pre-heater and a maximum flow rate between: 160 m³/h and 238 m³/h for the D350 variant and 155 m³/h and 308 m³/h for the D450 variant.



Detection		Required components	Optional components
Humidity	CO_2		
Central	Main rooms	+	
Central	All rooms	+ +	

Extraction of stale air

Supply of fresh air

The illustration shows a right-hand version of the DucoBox Energy Comfort (Plus).

LOCAL humidity measurement

2-ZONE SYSTEM

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute
*

Duco Energy Comfort (Plus) System

MVHR | Zonal ventilation (2-zone) | Up to 550 m³/h at 200 Pa



BASIC KIT

● Basic kit Multizone D160 DucoBox Energy Comfort (Plus) / Sky White	0000-4900

The bullet next to the item numbers below indicates which and how many components the basic kit contains.

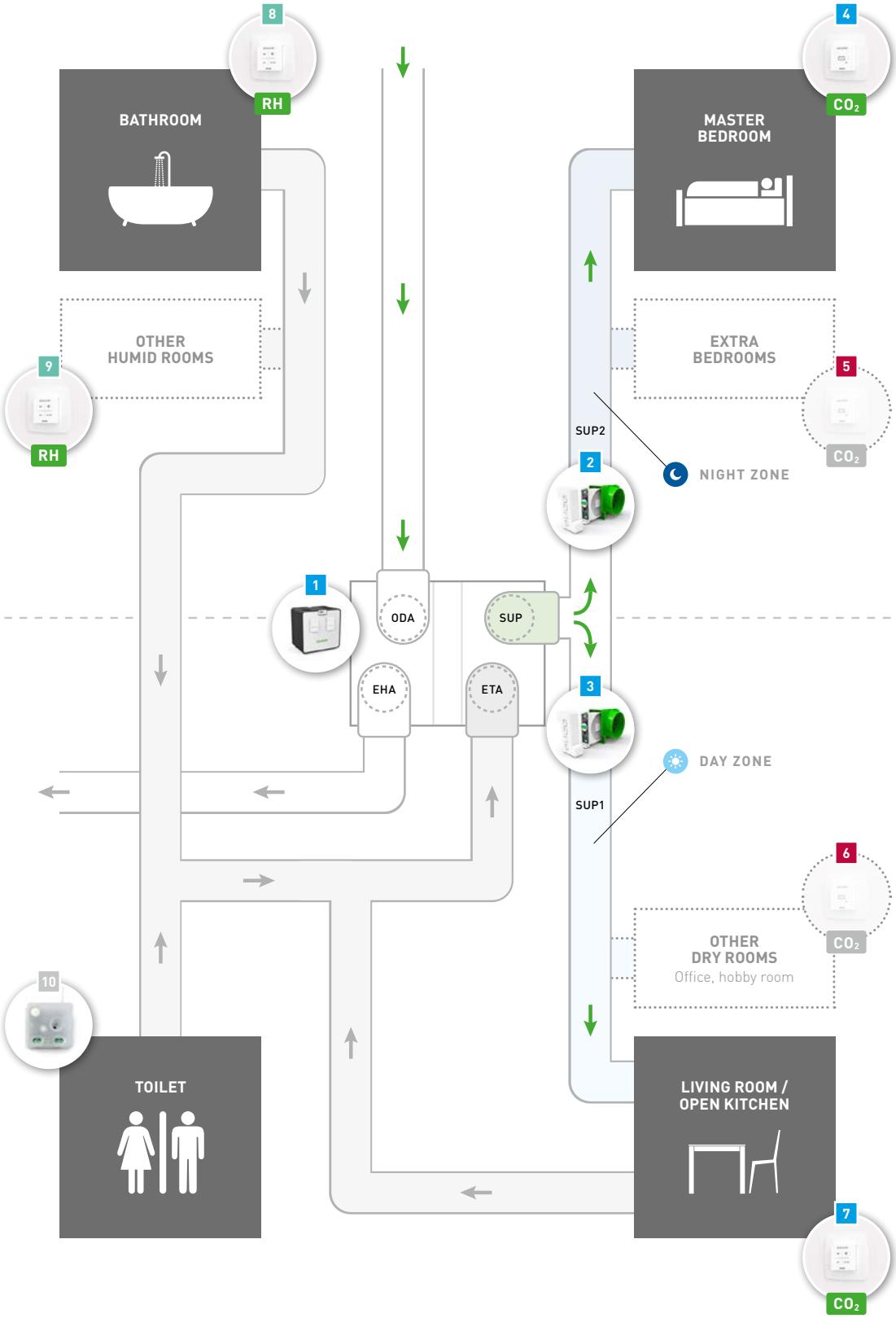
COMPONENTS

		Component on diagram
DucoBox Energy Comfort D250	0000-7073	1
DucoBox Energy Comfort D325	0000-4649	
DucoBox Energy Comfort D400	0000-4707	
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DucoBox Energy Comfort Plus D550	0000-4706	
Multi-zone valve DucoBox Energy (Sensorless) ∅125	0000-4761	2 3
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Duco Branch piece (∅180 → 2x ∅160) for Multi-zone valves	0000-4995	
User controller **RF / Wired White**	0000-4602	
User controller **RF / Battery White**	0000-4600	
CO_2 Room sensor **with** control **RF / Wired White**	① 0000-4604	7
CO_2 Room sensor **without** control **RF / Wired White**	① 0000-4637	4 5 6
Humidity Room sensor **with** control **RF / Wired White**	0000-4606	8 9
Surface-mounted box DUCO controllers / sensors	0000-5009	
Switch sensor **RF / 230 VAC**	0000-4174	10
Duco Connectivity Board 2.0	0000-4945	
Pre-Heater DucoBox Energy Comfort (Plus) / Sky **1150W**	0000-5011	
Pre-Heater DucoBox Energy Comfort (Plus) **1425W**	0000-4807	
Duco Power supply 230VAC-24VDC/20W + casing	① 0000-4763	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

→ See chapter 'Vents' from page 92 for more information on all types of vents.

* Passive House Institute certificate only for DucoBox Energy Comfort Plus D350/D450 units with pre-heater and a maximum flow rate between: 160 m³/h and 238 m³/h for the D350 variant and 155 m³/h and 308 m³/h for the D450 variant.



Detection		Required components	Optional components
Humidity	CO_2		
Local	Main rooms	■ + ■	■
Local	All rooms	■ + ■ + ■	■

Extraction of stale air

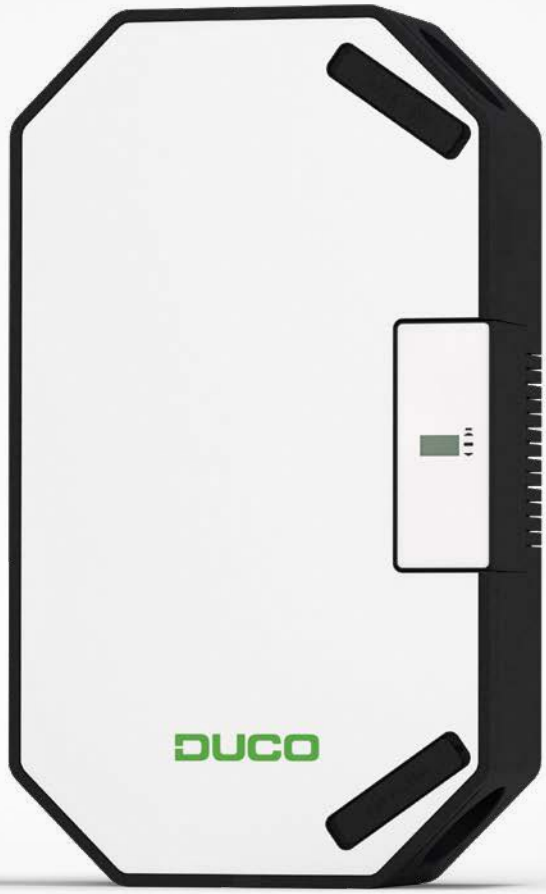
Supply of fresh air

The illustration shows a right-hand version of the DucoBox Energy Comfort (Plus).

NEW

DucoBox Energy Sky

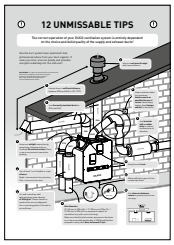
The ideal ventilation solution for **COMPACT SPACES**!



Easy to install
Via head-up display or
via the Duco Installation App

Save time
= save money
AUTO calibration, COPY function,
100 % exchangeable via display

Priority to
energy savings
Smart demand control



Please refer to page 103 for essential installation tips!

DucoBox Energy Sky

MVHR

Up to **275 m³/h** at 200 Pa

Discover the DucoBox Energy Sky - **the ventilation solution for compact spaces** with a ventilation flow rate of up to 275 m³/h. With a height of just 30 cm and a light weight of 19 kg, the placement options are flexible. The system can be attached to the ceiling, as well as to the wall. It is also possible to neatly conceal this DucoBox in a false ceiling. Installation is easily done by one person.

The DucoBox Energy Sky automatically adjusts the ventilation to the actual need using the optional integrated 2-zone control. You thus automatically control the ventilation system based on CO_2 and humidity, allowing you to ventilate even more efficiently.

The DucoBox Energy Sky is now also available with a Passive House certificate: the DucoBox Energy Sky D235 PH. This variant has a ventilation flow rate of 235 m³/h at 150 Pa.

The DucoBox Energy Sky is part of The Energy Family and offers balanced ventilation with heat recovery, without compromise on performance.

FEATURES

Connection type 1 x extraction to outside (EHA) 1 x supply from outside (ODA) 1 x extraction from inside (ETA) 1 x supply to inside (SUP)	**Energy label:** A+ **Communication:** RF and Wired. Expandable with Connectivity Board 2.0 (see 'Options & accessories') for communication with the Duco Installation App and the DUCO HOME app, REST API and Modbus TCP.	**Width x Height x Depth:** 670 x 1180 x 295 mm **Weight:** 19 kg **Flow rate / pressure:** D275: 275m³/h@200Pa D235: 235m³/h@150Pa **Number of air ducts:** 4 x ∅ 160 **Max. power per motor:** D275: 65 W D235: 48 W

VENTILATION UNIT



Type of DucoBox	Passive House Certified Component	Plug	
Energy Sky D275		F	0000-4939
Energy Sky D235 PH		F	0000-5000





CONTROL COMPONENTS DucoBox Energy Sky

HUMIDITY SENSOR

This sensor is placed **in the extract air duct** (ETA) of the DucoBox Energy Sky and centrally measures the **humidity** of the air extracted from the house. **A maximum of one Humidity Sensor (ETA) per unit.**

Peak power: < 1 W	**Communication:** via supplied cable	**Power supply:** From the DucoBox



Humidity Sensor DucoBox Energy Comfort (Plus) / Sky	0000-4723

The Humidity Sensor is installed in a borehole (∅ 10mm) in an extraction duct with diameter of your choice.

EXTERNAL 2-ZONE

The 2-zone control for the supply to the home is done quickly and discreetly by the compact multi-zone valves. A valve is provided for each branch to the various zones.



Peak power: 7 W	**Communication:** Wired connection to DucoBox	**Power supply:** 24 VDC (to be provided externally)

Multi-zone valve DucoBox Energy (Sensorless) ∅125	0000-4761
Multi-zone valve DucoBox Energy (Sensorless) ∅160	0000-4760



The Duco Branch piece (∅180 → 2x ∅160) has been developed to allow multi-zone valves to be quickly fitted to DucoBox Energy Comfort (Plus) / Sky. Thanks to the well-thought-out design, the pressure build-up is evenly distributed over both zones. This improves the acoustics of the overall system! By using the connection pieces with joint, the Branch piece can be fitted to any type of DUCO ventilation system. The multi-zone valves D160 can also be mounted airtight without additional material. Save time = save money!

Duco Branch piece (∅180 → 2x ∅160) for Multi-zone valves	0000-4995

EXTERNAL CONTROL COMPONENTS

The DucoBox Energy Sky can be linked with the following external control components.

User controls and room sensors	see page 80
Switch sensor (for switch detection)	see page 84

BASIC KITS

Basic kit Multizone D160 DucoBox Energy Comfort (Plus) / Sky White	2 x Multi-zone valve DucoBox Energy (Sensorless) ∅160 1 x CO_2 Room sensor with control **RF / Wired White** 1 x CO_2 Room sensor without control **RF / Wired White** 1 x Duco Power supply 230VAC-24VDC/20W + casing	0000-4900

OPTIONS & ACCESSORIES DucoBox Energy Sky



Siphon flat (Energy)	0000-4376

This flat diaphragm siphon with a height of 64 mm saves space and has less of a risk of air leaks. The siphon can be installed 'dry' and does not dry out on warm days.



Filterset 2 x Coarse 65 % (Energy Sky D275)	0000-4950
Filterset Coarse 65 % / ePM1 55 % (Energy Sky D275)	0000-4951

The filter sets for the DucoBox Energy Sky include the following filters: For supply air (SUP): choice between Coarse 65 % (≈ G4) or ePM1 55 % filter (≈ F7). The ePM1 55 % filter allows less fine particles to pass through and thus has a beneficial effect on air quality (e.g. in case of possible allergic reactions). For extract air (ETA): Coarse 65 % filter (≈ G4)



Coaxial cable set 8 m	0000-4418

The set comprises an 8 m long coaxial cable with pre-fitted connectors at both ends. This set can be used to relocate the DucoBox Silent Connect, DucoBox Focus or DucoBox Energy Comfort (Plus) / Sky / Premium antenna, if necessary, to a spot where the RF range is optimal.



Duco Connectivity Board 2.0	0000-4945

The optional Duco Connectivity Board 2.0 offers the possibility of application within the DucoBox Silent Connect, DucoBox Focus and DucoBox Energy Comfort (Plus) / Sky / Premium, enabling communication with the Duco Installation App and DUCO HOME app, while also allowing integration into home automation and building management systems via REST API or Modbus TCP.



Connection piece with joint D160/D125 (M/M)	0000-7087
Connection piece with rubber D160/D160 (M/M)	0000-4724
Connection piece with rubber D180/D160 (M/M)	0000-4725
Connection piece 45° with joint D160/D160 (M/M)	0000-4949

The connection pieces with joint are used to make a quick and good connection between ducts (extraction and/or supply) or between a duct and a DucoBox. Thanks to the pre-fitted rubber seal, an airtightness class of up to D can be guaranteed at the connection!



Insulated connection piece with joint D160/D125 (M/M)	0000-7136
Insulated connection piece with joint D160/D160 (M/M)	0000-7039
Insulated connection piece with joint D180/D160 (M/M)	0000-7040
Insulated connection piece 45° with joint D160/D160 (M/M)	0000-7043

The connection pieces with joint are used to make a quick and good connection between ducts (extraction and/or supply) or between a duct and a DucoBox. Thanks to the pre-fitted rubber seal, an airtightness class of up to D can be guaranteed at the connection!

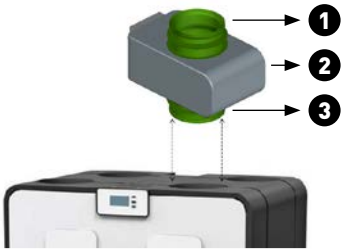


Pre-Heater DucoBox Energy Comfort (Plus) / Sky **1150 W**	0000-5011

The Pre-heater is a frost protection based on an electrical resistance of up to 1150W that can optionally be applied in the ODA connection of DucoBox Energy Sky. The resistance is modulatively controlled based on various temperature readings in the ventilation unit.

The heater is attached between the unit and the air duct via connectors. The connectors depend on the type of unit and the flow rate. Refer to the table below for the right combination.

Type of unit	Flow rate	1 Connector	2 Heater	3 Connector
Sky D275 Sky D235 PH	Up to 250 m³/h	D160/D160 0000-7039	Pre-Heater 1150 W 0000-5011	D160/D160 0000-7039
	Up to 275 m³/h	D180/D160 0000-7040		D160/D160 0000-7039





Duco Power supply 230VAC-24VDC/20W + casing	0000-4763

The Duco Power Supply 230VAC-24VDC/20W is the best solution to power Duco Wired components from a central 230V connection. The component comes with a surface-mounted junction box as standard. The sum of the peak power of all connected DUCO components can be 20W at most when using one Power Supply.



Duco Power Adapter 230VAC-24VDC/20W	0000-4762

The Duco Power Adapter 230VAC-24VDC/20W is the solution to power Duco Wired components from a 230V socket. The sum of the peak power of all connected DUCO components can be 20W at most when using one Power Supply.



Flow regulator 15-50 m³/h ∅80	0000-4722
Flow regulator 15-50 m³/h ∅125	0000-4836
Flow regulator 50-100 m³/h ∅125	0000-4837

The adjustable flow regulator is an element that is placed in a duct to obtain a constant flow in a pressure range between 50 and 250 Pascal. It is used for both supply and extraction.

NO humidity measurement

1-ZONE SYSTEM

Duco Energy Sky System

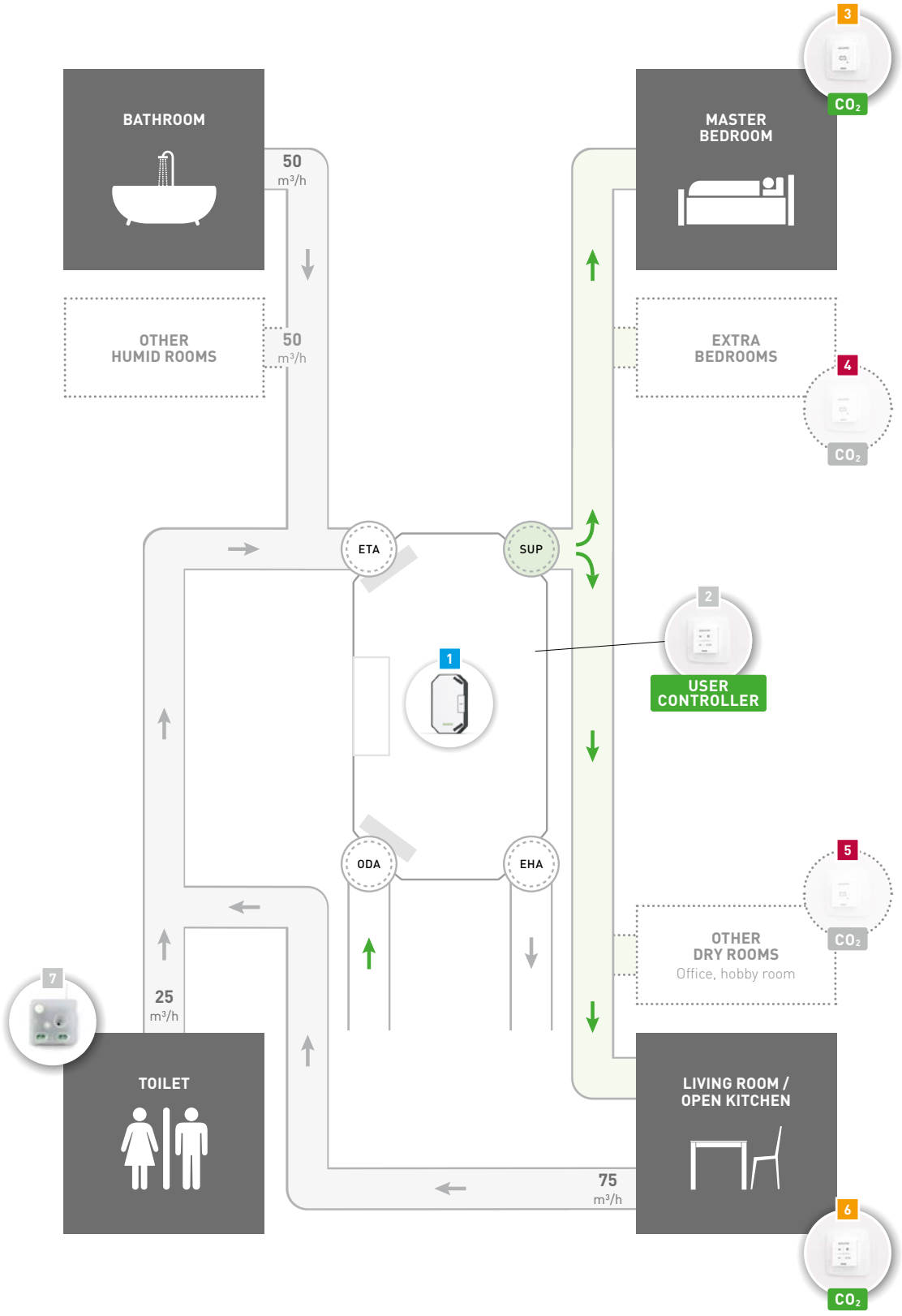
MVHR | Central ventilation (1-zone) | Up to 275 m³/h at 200 Pa



COMPONENTS

		Component on diagram
 DucoBox Energy Sky D275	0000-4939	1
DucoBox Energy Sky D235 PH	0000-5000	
 User controller **RF / Wired White**	0000-4602	2
User controller **RF / Battery White**	0000-4600	
CO_2 Room sensor **with** control **RF / Wired White**	0000-4604	6
CO_2 Room sensor **without** control **RF / Wired White**	0000-4637	3 4 5
Surface-mounted box DUCO controllers / sensors	0000-5009	
→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.		
 Switch sensor **RF/230 VAC**	0000-4174	7
 Duco Connectivity Board 2.0	0000-4945	
 Pre-Heater DucoBox Energy Comfort (Plus) / Sky **1150W**	0000-5011	

→ See chapter 'Vents' from page 92 for more information on all types of vents.



Detection		Required components	Optional components
Humidity	CO_2		
✗	✗	■	■
✗	Main rooms	■ + ■	■
✗	All rooms	■ + ■ + ■	■

→ Extraction of stale air

→ Supply of fresh air

CENTRAL
humidity
measurement

1-ZONE
SYSTEM

Duco Energy Sky System

MVHR | Central ventilation (1-zone) | Up to 275 m³/h at 200 Pa



COMPONENTS









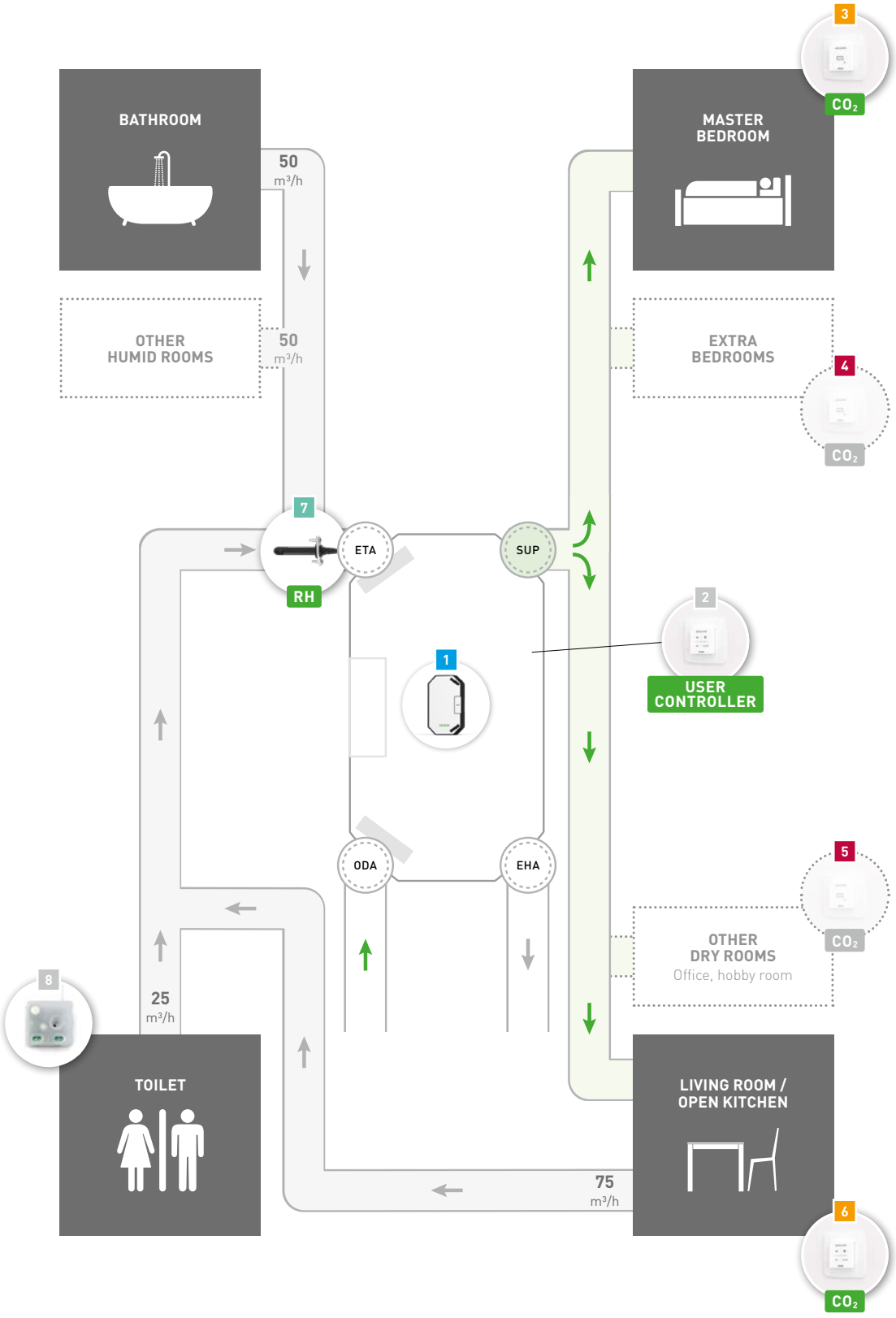




		Component on diagram
DucoBox Energy Sky D275	0000-4939	1
DucoBox Energy Sky D235 PH	0000-5000	
Humidity Sensor DucoBox Energy Comfort (Plus) / Sky	0000-4723	7
User controller **RF / Wired White**	0000-4602	2
User controller **RF / Battery White**	0000-4600	
CO_2 Room sensor **with** control **RF / Wired White**	0000-4604	6
CO_2 Room sensor **without** control **RF / Wired White**	0000-4637	3 4 5
Surface-mounted box DUCO controllers / sensors	0000-5009	
Switch sensor **RF/230 VAC**	0000-4174	8
Duco Connectivity Board 2.0	0000-4945	
Pre-Heater DucoBox Energy Comfort (Plus) / Sky **1150W**	0000-5011	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

→ See chapter 'Vents' from page 92 for more information on all types of vents.



Detection		Required components	Optional components
Humidity	CO_2		
Central	✗	■ + ■	■
Central	Main rooms	■ + ■ + ■	■
Central	All rooms	■ + ■ + ■ + ■	■

→ Extraction of stale air

→ Supply of fresh air

LOCAL humidity measurement

1-ZONE SYSTEM

Duco Energy Sky System

MVHR | Central ventilation (1-zone) | Up to 275 m³/h at 200 Pa



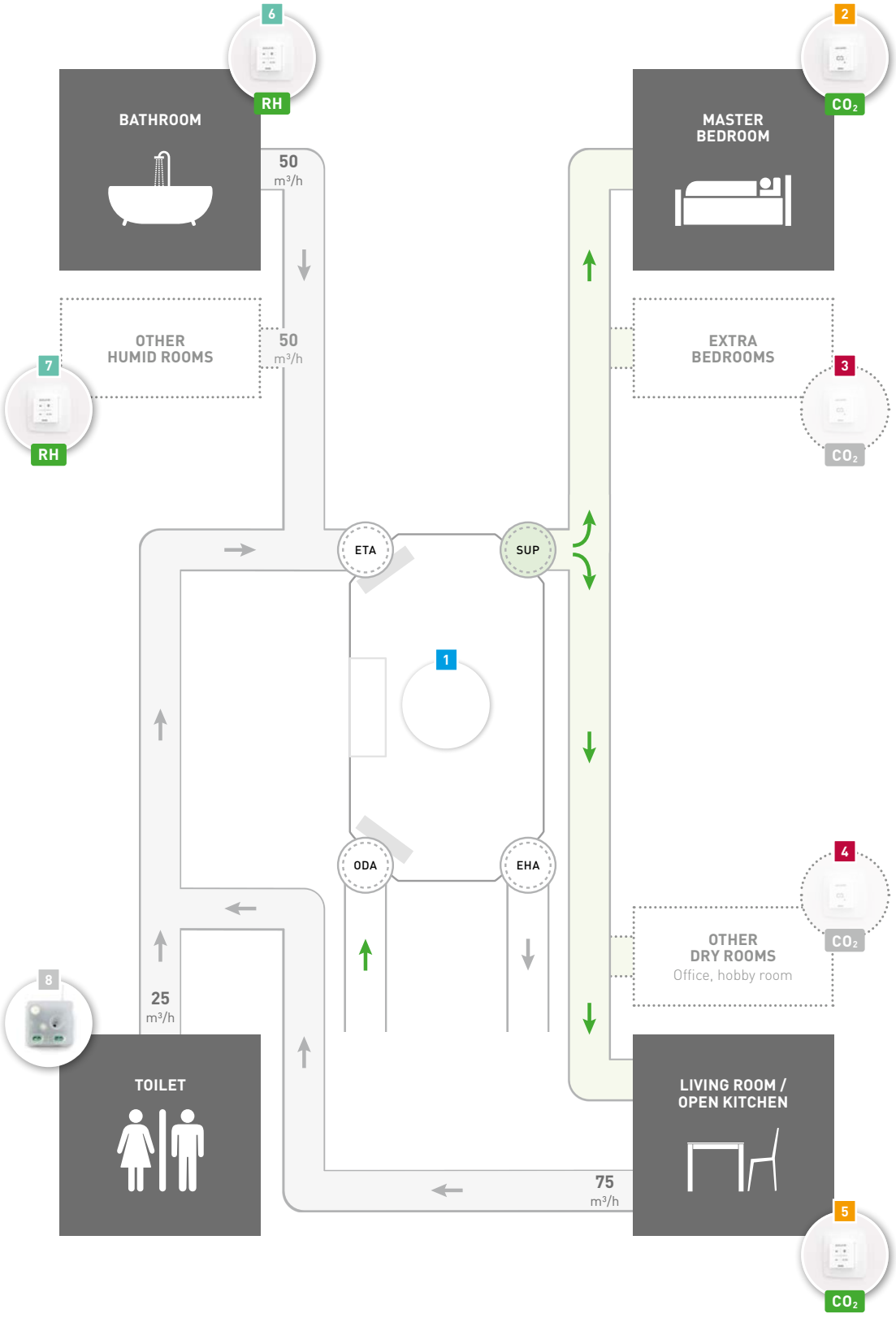
COMPONENTS

		Component on diagram
 DucoBox Energy Sky D275	0000-4939	1
DucoBox Energy Sky D235 PH	0000-5000	
User controller **RF / Wired White**	0000-4602	
User controller **RF / Battery White**	0000-4600	
 CO_2 Room sensor **with** control **RF / Wired White**	0000-4604	5
CO_2 Room sensor **without** control **RF / Wired White**	0000-4637	2 3 4
Humidity Room sensor **with** control **RF / Wired White**	0000-4606	6 7
Surface-mounted box DUCO controllers / sensors	0000-5009	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

 Switch sensor **RF/230 VAC**	0000-4174	8
Duco Connectivity Board 2.0	0000-4945	
 Pre-Heater DucoBox Energy Comfort (Plus) / Sky **1150W**	0000-5011	

→ See chapter 'Vents' from page 92 for more information on all types of vents.



Detection		Required components	Optional components
Humidity	CO_2		
Local	✕	■ + ■	■
Local	Main rooms	■ + ■ + ■	■
Local	All rooms	■ + ■ + ■ + ■	■

Extraction of stale air

Supply of fresh air

NO humidity measurement

2-ZONE SYSTEM

Duco Energy Sky System

MVHR | Zonal ventilation (2-zone) | Up to 275 m³/h at 200 Pa



BASIC KIT

●	**Basic kit Multizone D160** **DucoBox Energy Comfort (Plus) / Sky White**	0000-4900

The bullet next to the item numbers below indicates which and how many components the basic kit contains.

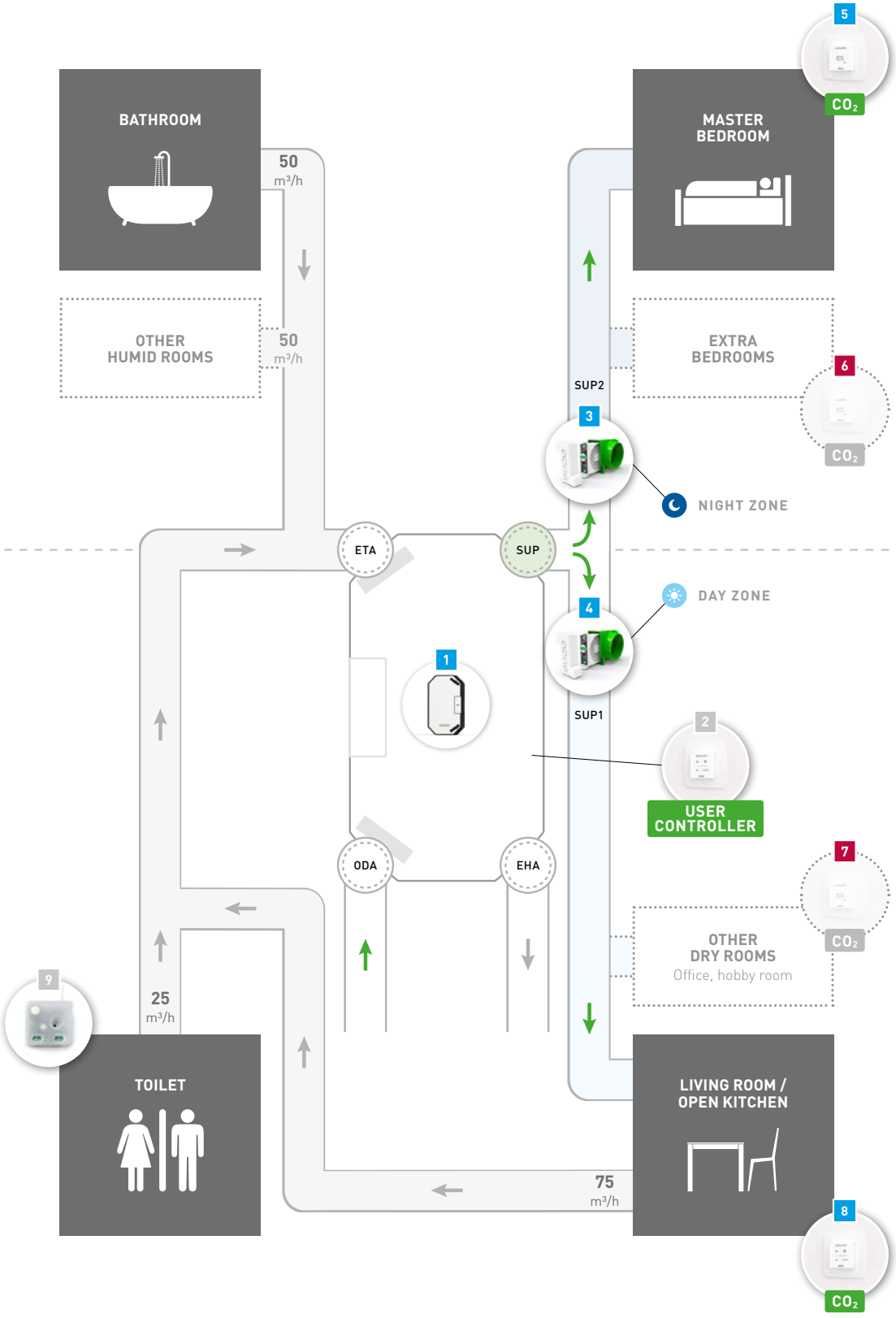
COMPONENTS

			Component on diagram
	DucoBox Energy Sky D275	0000-4939	1
	DucoBox Energy Sky D235 PH	0000-5000	
	Multi-zone valve DucoBox Energy (Sensorless) ∅125	0000-4761	3 4
	Multi-zone valve DucoBox Energy (Sensorless) ∅160	② 0000-4760	
	Duco Branch piece (∅180 → 2x ∅160) for Multi-zone valves	0000-4995	
	User controller **RF / Wired White**	0000-4602	2
	User controller **RF / Battery White**	0000-4600	
	CO_2 Room sensor **with** control **RF / Wired White**	① 0000-4604	8
	CO_2 Room sensor **without** control **RF / Wired White**	① 0000-4637	5 6 7
	Surface-mounted box DUCO controllers / sensors	0000-5009	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

	Switch sensor **RF/230 VAC**	0000-4174	9
	Duco Connectivity Board 2.0	0000-4945	
	Pre-Heater DucoBox Energy Comfort (Plus) / Sky **1150W**	0000-5011	
	Duco Power supply 230VAC-24VDC/20W + casing	① 0000-4763	

→ See chapter 'Vents' from page 92 for more information on all types of vents.



Detection		Required components	Optional components
Humidity	CO_2		
✕	Main rooms	■	■
✕	All rooms	■ + ■	■

Extraction of stale air

Supply of fresh air

CENTRAL
humidity
measurement

2-ZONE
SYSTEM

Duco Energy Sky System

MVHR | Zonal ventilation (2-zone) | Up to 275 m³/h at 200 Pa



BASIC KIT

●	**Basic kit Multizone D160** **DucoBox Energy Comfort (Plus) / Sky White**	0000-4900

The bullet next to the item numbers below indicates which and how many components the basic kit contains.

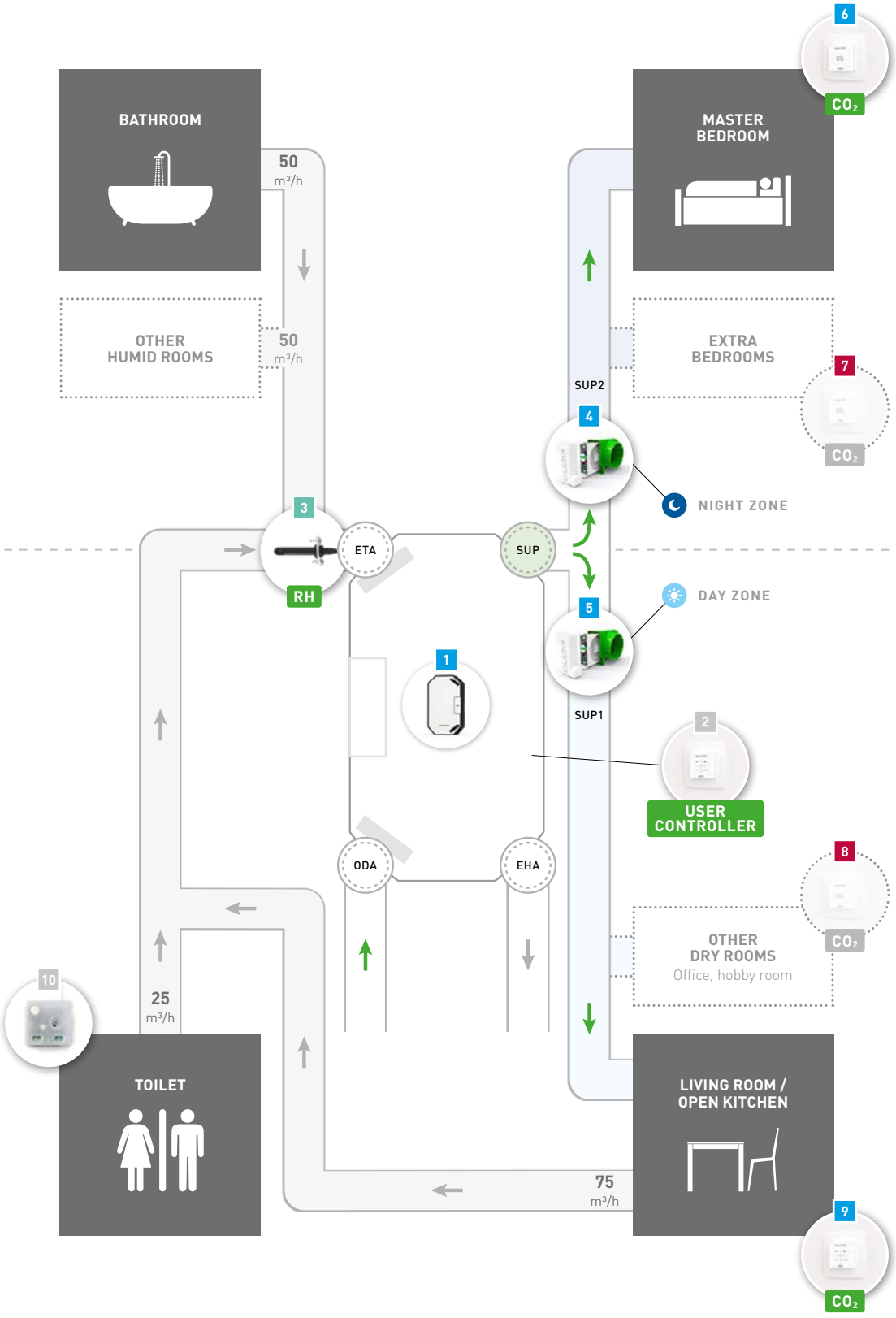
COMPONENTS

			Component on diagram
	DucoBox Energy Sky D275	0000-4939	1
	DucoBox Energy Sky D235 PH	0000-5000	
	Multi-zone valve DucoBox Energy (Sensorless) ∅125	0000-4761	4 5
	Multi-zone valve DucoBox Energy (Sensorless) ∅160	2 0000-4760	
	Duco Branch piece (∅180 → 2x ∅160) for Multi-zone valves	0000-4995	
	Humidity Sensor DucoBox Energy Comfort (Plus) / Sky	0000-4723	3
	User controller **RF / Wired White**	0000-4602	2
	User controller **RF / Battery White**	0000-4600	
	CO_2 Room sensor **with** control **RF / Wired White**	1 0000-4604	9
	CO_2 Room sensor **without** control **RF / Wired White**	1 0000-4637	6 7 8
	Surface-mounted box DUCO controllers / sensors	0000-5009	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

	Switch sensor **RF/230 VAC**	0000-4174	10
	Duco Connectivity Board 2.0	0000-4945	
	Pre-Heater DucoBox Energy Comfort (Plus) / Sky **1150W**	0000-5011	
	Duco Power supply 230VAC-24VDC/20W + casing	1 0000-4763	

→ See chapter 'Vents' from page 92 for more information on all types of vents.



Detection		Required components	Optional components
Humidity	CO_2		
Central	Main rooms	+	
Central	All rooms	+ +	

Extraction of stale air

Supply of fresh air

LOCAL humidity measurement

2-ZONE SYSTEM

Duco Energy Sky System

MVHR | Zonal ventilation (2-zone) | Up to 275 m³/h at 200 Pa



BASIC KIT

●	Basic kit Multizone D160 DucoBox Energy Comfort (Plus) / Sky White	0000-4900

The bullet next to the item numbers below indicates which and how many components the basic kit contains.

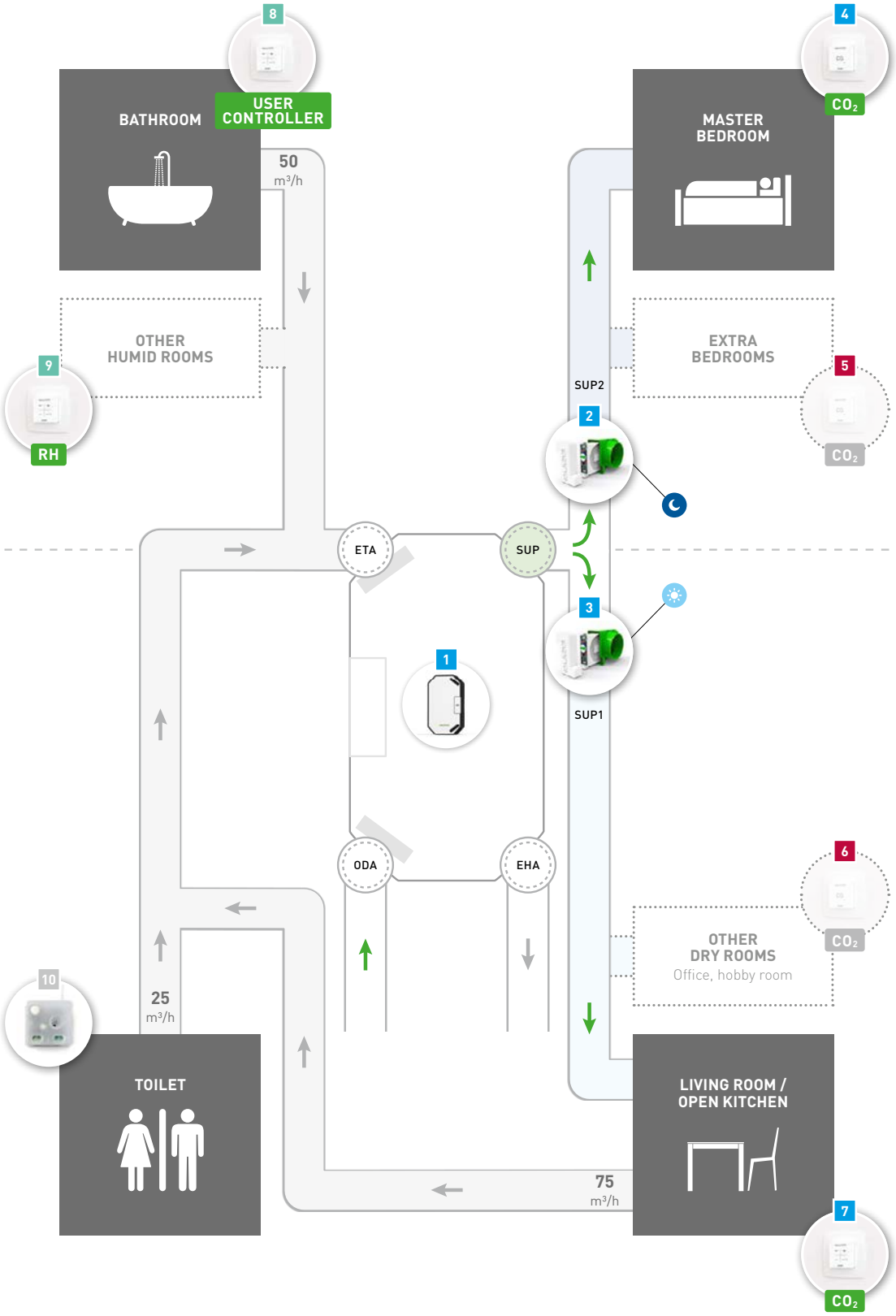
COMPONENTS

			Component on diagram
	DucoBox Energy Sky D275	0000-4939	1
	DucoBox Energy Sky D235 PH	0000-5000	
	Multi-zone valve DucoBox Energy (Sensorless) ∅125	0000-4761	2 3
	Multi-zone valve DucoBox Energy (Sensorless) ∅160	② 0000-4760	
	Duco Branch piece (∅180 → 2x ∅160) for Multi-zone valves	0000-4995	
	User controller **RF / Wired White**	0000-4602	
	User controller **RF / Battery White**	0000-4600	
	CO_2 Room sensor **with** control **RF / Wired White**	① 0000-4604	7
	CO_2 Room sensor **without** control **RF / Wired White**	① 0000-4637	4 5 6
	Humidity Room sensor **with** control **RF / Wired White**	0000-4606	8 9
	Surface-mounted box DUCO controllers / sensors	0000-5009	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

	Switch sensor **RF/230 VAC**	0000-4174	10
	Duco Connectivity Board 2.0	0000-4945	
	Pre-Heater DucoBox Energy Comfort (Plus) / Sky **1150W**	0000-5011	
	Duco Power supply 230VAC-24VDC/20W + casing	① 0000-4763	

→ See chapter 'Vents' from page 92 for more information on all types of vents.



Detection		Required components	Optional components
Humidity	CO_2		
Local	Main rooms	■ + ■	■
Local	All rooms	■ + ■ + ■	■

Extraction of stale air

Supply of fresh air

DucoBox Energy Premium

Europe's **QUIETEST** MVHR unit!



cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute

Smart 2-zone control

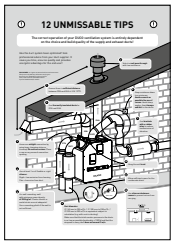
Saving up to 40 % through smart zone control

Quietest MVHR on the market

Enjoy a good night's sleep!

Automatic calibration

Calibration at constant pressure saves up to 50 % on the configuration time



Please refer to page 103 for essential installation tips!

DucoBox Energy Premium

MVHR

Up to **400 m³/h** at 150 Pa

An energy efficient operation becomes more and more important as "passive" and "energy neutral" houses become more and more widespread. The DucoBox Energy Premium fits perfectly within this evolution as a very high performance "balanced" ventilation unit, which raises MVHR (Mechanical Ventilation with Heat Recovery) to the next level.

The favourable positioning of the fan as well as high-grade absorbent material and a steel casing guarantee a **whisper-quiet operation**, especially in the living areas where this matters most (bedroom and living room)!
The DucoBox Enery Premium comes with an **A+ energy label** and is available in a 1-zone and a 2-zone version. The day and night-zone are being controlled separately by a valve which is integrated in the unit itself. This results in an **extremely efficient operation**: only ventilate when it is necessary and where it is necessary (e.g. minimal ventilation at night-time in the day-zone).
The **automatic calibration**, which is based on the principle of constant pressure, easily saves 50 % of the set-up time. At the same time, it gives 100 % peace of mind for a **qualitative installation** with the correct airflows.

FEATURES

Width x Height x Depth: 740 x 957 x 585 mm **Weight:** 47 kg **Power supply:** 230 VAC **Peak power at 150 Pa:** 2 x 60,5 W (325 m³/h / 460 m³/h) 2 x 91,5 W (400 m³/h / 570 m³/h) **Energy label:** A+ **Efficiency in accordance with EU 1253/2014:** Types 325: 89 % Types 400: 88 %	**Extraction capacity at 150 Pa:** Types 325: 325 m³/h Types 400: 400 m³/h **Supply capacity at 150 Pa:** Types 325: 325 m³/h Types 400: 400 m³/h **Communication:** RF and Wired. Expandable with Connectivity Board 2.0 (see 'Options & accessories') for communication with the Duco Installation App and the DUCO HOME app, REST API and Modbus TCP.	**Number of air ducts:** 5 ducts: 1 x extraction to outside (EHA) 1 x supply from outside (ODA) 1 x extraction from inside (ETA) 2 x supply to inside (SUP) Internal diameter ∅ 160 mm External diameter ∅ 190 mm

VENTILATION UNIT



The DucoBox Energy Premium is available in a **left-hand variant** (= bevelled side left) and **right-hand variant** (= bevelled side right). On the bevelled side, an exhaust duct and supply duct are connected to the house (ETA and SUP).

The DucoBox Energy Premium is provided with frost protection through an imbalance method, which may be supplemented with an optional heater.

→ 1-ZONE VARIANT

Type of DucoBox	Passive House Certified Component	Max air flow at 150 Pa	Heater	Plug	LEFT	RIGHT
Energy Premium **325-1ZS**	✕	325 m³/h	✕	F	0000-4358	0000-4359
Energy Premium **325-1ZH**		325 m³/h	yes	F	0000-4360	0000-4361
Energy Premium **400-1ZS**	✕	400 m³/h	✕	F	0000-4366	0000-4367
Energy Premium **400-1ZH**	✕	400 m³/h	yes	F	0000-4368	0000-4369

→ 2-ZONE VARIANT

Type of DucoBox	Passive House Certified Component	Max air flow at 150 Pa	Heater	Plug	LEFT	RIGHT
Energy Premium **325-2ZS**	✕	325 m³/h	✕	F	0000-4362	0000-4363
Energy Premium **325-2ZH**		325 m³/h	yes	F	0000-4364	0000-4365
Energy Premium **400-2ZS**	✕	400 m³/h	✕	F	0000-4370	0000-4371
Energy Premium **400-2ZH**	✕	400 m³/h	yes	F	0000-4372	0000-4373

1Z = 1 zone | **2Z** = 2 zones
S = without heater | **H** = with heater

CONTROL COMPONENTS DucoBox Energy Premium



BOX SENSOR

This sensor is fitted **in the DucoBox Energy Premium** and it measures the **humidity content** of the air extracted from the dwelling. A maximum of one Humidity Box sensor per unit.

Peak power: < 1 W	**Stand-by power:** < 1 W	**Power supply:** From the DucoBox

Humidity Box sensor (Energy Premium)	**0000-4374**

EXTERNAL CONTROL COMPONENTS

The DucoBox Energy Premium can be linked with the following external control components.

User controllers and room sensors	see page 82
Switch sensor (for switch detection)	see page 84

OPTIONS & ACCESSORIES DucoBox Energy Premium



Mounting chair standing (Energy Premium)	**0000-4740**

In situations where wall mounting of the DucoBox Energy Premium is not possible, this support frame makes floor mounting possible. Use of a flat siphon is required.

Width x Height x Depth (incl. DucoBox Energy Premium): 740 x 1110 x 570 mm



Mounting chair hanging (Energy Premium)	**0000-4422**

In situations where it is not possible to mount the DucoBox to a wall, this support frame makes floor-mounting possible. Use of a standard siphon is possible.

Width x Height x Depth (incl. DucoBox Energy Premium): 740 x 1290 x 640 mm



Filter set 2 x Coarse 65 % (Energy Premium)	**0000-4417**
Filter set Coarse 65 % / ePM1 55 % (Energy Premium)	**0000-4416**

The filter sets for the DucoBox Energy Premium include the following filters. For supply air (SUP): choice between Coarse 65 % (≈ G4) or ePM1 55 % filter (≈ F7) (Energy Premium only). The ePM1 55 % filter allows less fine particles to pass through and thus has a beneficial effect on air quality (e.g. in case of possible allergic reactions). For extract air (ETA): Coarse 65 % filter (≈ G4)



Siphon flat (Energy)	**0000-4376**

This flat diaphragm siphon with a height of 64 mm saves space and reduces the risk of air leaks. The siphon can be installed 'dry' and does not dry out on warm days.



Duco Connectivity Board 2.0	**0000-4945**

The optional Duco Connectivity Board 2.0 offers the possibility of application within the DucoBox Silent Connect, DucoBox Focus and DucoBox Energy Comfort (Plus) / Sky / Premium, enabling communication with the Duco Installation App and DUCO HOME app, while also allowing integration into home automation and building management systems via REST API or Modbus TCP



Coaxial cable set 8 m	**0000-4418**

The set comprises an 8 m long coaxial cable with pre-fitted connectors at both ends. This set can be used to relocate the DucoBox Silent Connect, DucoBox Focus or DucoBox Energy Comfort / Premium antenna, if necessary, to a spot where the RF range is optimal.



Connection piece with joint D160/D125 (M/M)	0000-7087
Connection piece with rubber D160/D160 (M/M)	0000-4724
Connection piece with rubber D180/D160 (M/M)	0000-4725
Connection piece with rubber D180/D180 (M/M)	0000-4726
Connection piece with rubber D200/D180 (M/M)	0000-4727
Connection piece 45° with joint D160/D160 (M/M)	0000-4949

The connection pieces with joint are used to make a quick and good connection between ducts (extraction and/or supply) or between a duct and a DucoBox. Thanks to the pre-fitted rubber seal, an airtightness class of up to D can be guaranteed at the connection!



Insulated connection piece with joint D160/D125 (M/M)	0000-7136
Insulated connection piece with joint D160/D160 (M/M)	0000-7039
Insulated connection piece with joint D180/D160 (M/M)	0000-7040
Insulated connection piece with joint D180/D180 (M/M)	0000-7041
Insulated connection piece with joint D200/D180 (M/M)	0000-7042
Insulated connection piece 45° with joint D160/D160 (M/M)	0000-7043

The connection pieces with joint are used to make a quick and good connection between ducts (extraction and/or supply) or between a duct and a DucoBox. Thanks to the pre-fitted rubber seal, an airtightness class of up to D can be guaranteed at the connection!



Duco Power supply 230VAC-24VDC/20W + casing	0000-4763

The Duco Power Supply 230VAC-24VDC/20W is the best solution to power Duco Wired components from a central 230V connection. The component comes with a surface-mounted junction box as standard. The sum of the peak power of all connected DUCO components can be 20W at most when using one Power Supply.



Duco Power Adapter 230VAC-24VDC/20W	0000-4762

The Duco Power Adapter 230VAC-24VDC/20W is the solution to power Duco Wired components from a 230V socket. The sum of the peak power of all connected DUCO components can be 20W at most when using one Power Supply.



Flow regulator 15-50 m³/h ∅80	0000-4722
Flow regulator 15-50 m³/h ∅125	0000-4836
Flow regulator 50-100 m³/h ∅125	0000-4837

The adjustable flow regulator is an element that is placed in a duct to obtain a constant flow in a pressure range between 50 and 250 Pascal. It is used for both supply and extraction.

NO humidity measurement

1-ZONE SYSTEM

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute
*

Duco Energy Premium System

MVHR | Central ventilation (1-zone) | Up to 400 m³/h at 150 Pa



COMPONENTS



	Left	Right	Component on diagram
DucoBox Energy Premium **325-1ZS**	0000-4358	0000-4359	1
DucoBox Energy Premium **325-1ZH**	0000-4360	0000-4361	
DucoBox Energy Premium **400-1ZS**	0000-4366	0000-4367	
DucoBox Energy Premium **400-1ZH**	0000-4368	0000-4369	

S = standard | H = with heater



User controller **RF / Wired White**	0000-4602	2
User controller **RF / Battery White**	0000-4600	
CO_2 Room sensor **with** control **RF / Wired White**	0000-4604	6
CO_2 Room sensor **without** control **RF / Wired White**	0000-4637	3 4 5
Surface-mounted box DUCO controllers / sensors	0000-5009	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.



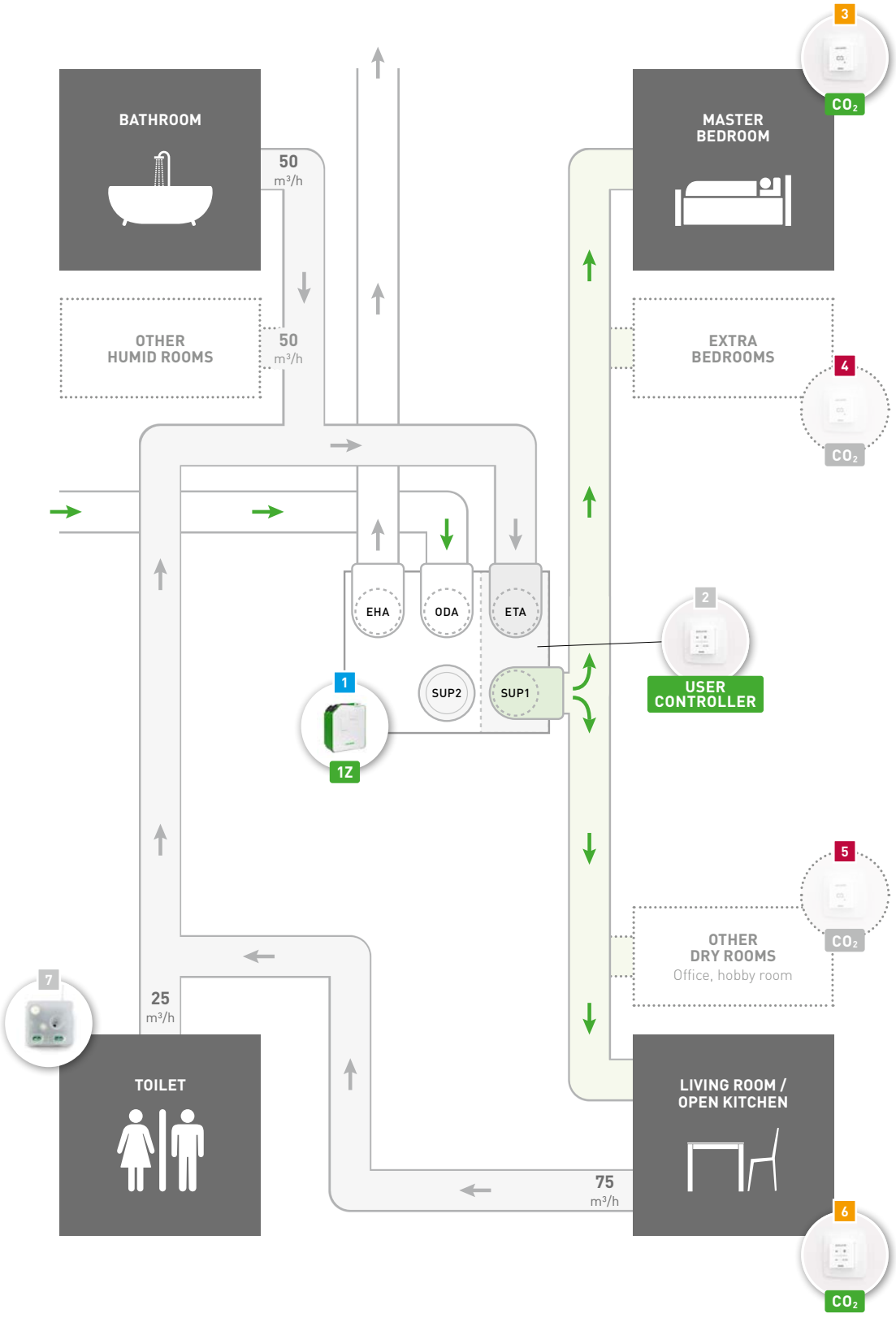
Switch sensor **RF/230 VAC**	0000-4174	7



Duco Connectivity Board 2.0	0000-4945	

→ See chapter 'Vents' from page 92 for more information on all types of vents.

* Passive House Institute certificate only for DucoBox Energy Premium units with heater and a maximum flow rate between 119 m³/h and 239 m³/h.



Detection		Required components	Optional components
Humidity	CO_2		
✗	✗	■	■
✗	Main rooms	■ + ■	■
✗	All rooms	■ + ■ + ■	■

→ Extraction of stale air

→ Supply of fresh air

The illustration shows a right-hand version of the DucoBox Energy Premium.

CENTRAL humidity measurement

1-ZONE SYSTEM

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute
*

Duco Energy Premium System

MVHR | Central ventilation (1-zone) | Up to 400 m³/h at 150 Pa



COMPONENTS

	Left	Right	Component on diagram
DucoBox Energy Premium **325-1ZS**	0000-4358	0000-4359	1
DucoBox Energy Premium **325-1ZH**	0000-4360	0000-4361	
DucoBox Energy Premium **400-1ZS**	0000-4366	0000-4367	
DucoBox Energy Premium **400-1ZH**	0000-4368	0000-4369	

S = standard | H = with heater



Humidity Box sensor (Energy Premium)	0000-4374	7



User controller **RF / Wired White**	0000-4602	2
User controller **RF / Battery White**	0000-4600	
CO_2 Room sensor **with** control **RF / Wired White**	0000-4604	6
CO_2 Room sensor **without** control **RF / Wired White**	0000-4637	3 4 5
Surface-mounted box DUCO controllers / sensors	0000-5009	



→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

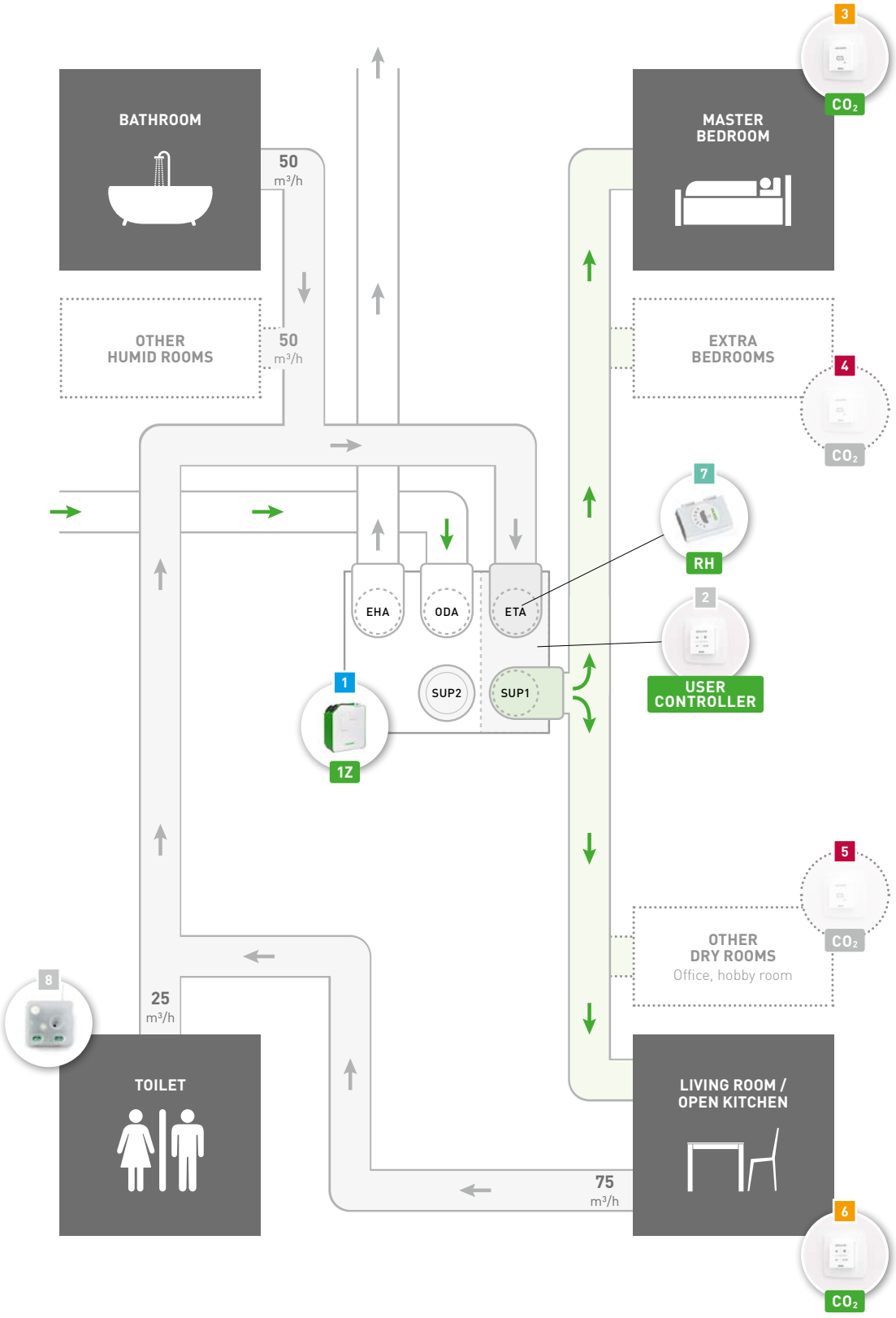


Switch sensor **RF/230 VAC**	0000-4174	8

Duco Connectivity Board 2.0	0000-4945	

→ See chapter 'Vents' from page 92 for more information on all types of vents.

* Passive House Institute certificate only for DucoBox Energy Premium units with heater and a maximum flow rate between 119 m³/h and 239 m³/h.



Detection		Required components	Optional components
Humidity	CO_2		
Central	✗	■ + ■	■
Central	Main rooms	■ + ■ + ■	■
Central	All rooms	■ + ■ + ■ + ■	■

→ Extraction of stale air

→ Supply of fresh air

The illustration shows a right-hand version of the DucoBox Energy Premium.

LOCAL humidity measurement

1-ZONE SYSTEM

CERTIFIED COMPONENT Passive House Institute *

Duco Energy Premium System

MVHR | Zonal ventilation (1-zone) | Up to 400 m³/h at 150 Pa



COMPONENTS



	Left	Right	Component on diagram
DucoBox Energy Premium **325-1ZS**	0000-4358	0000-4359	1
DucoBox Energy Premium **325-1ZH**	0000-4360	0000-4361	
DucoBox Energy Premium **400-1ZS**	0000-4366	0000-4367	
DucoBox Energy Premium **400-1ZH**	0000-4368	0000-4369	

S = standard | H = with heater



User controller **RF / Wired White**	0000-4602	2
User controller **RF / Battery White**	0000-4600	
CO_2 Room sensor **with** control **RF / Wired White**	0000-4604	6
CO_2 Room sensor **without** control **RF / Wired White**	0000-4637	3 4 5
Humidity Room sensor **with** control **RF / Wired White**	0000-4606	7 8
Surface-mounted box DUCO controllers / sensors	0000-5009	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.



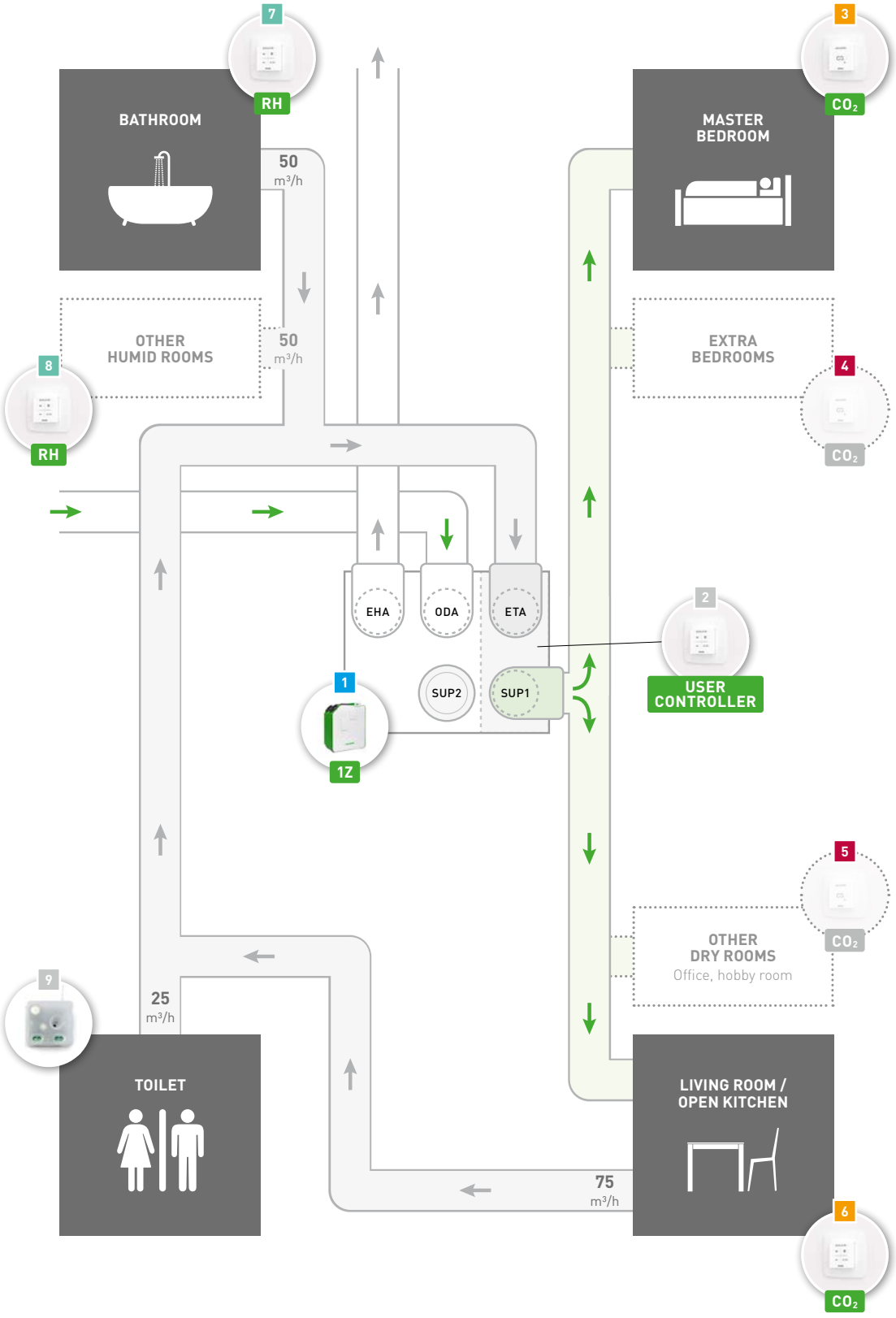
Switch sensor **RF/230 VAC**	0000-4174	9



Duco Connectivity Board 2.0	0000-4945	

→ See chapter 'Vents' from page 92 for more information on all types of vents.

* Passive House Institute certificate only for DucoBox Energy Premium units with heater and a maximum flow rate between 119 m³/h and 239 m³/h.



Detection		Required components	Optional components
Humidity	CO_2		
Local	✕	■ + ■	■
Local	Main rooms	■ + ■ + ■	■
Local	All rooms	■ + ■ + ■ + ■	■

→ Extraction of stale air

→ Supply of fresh air

The illustration shows a right-hand version of the DucoBox Energy Premium.

NO humidity measurement

2-ZONE SYSTEM

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute
*

Duco Energy Premium System

MVHR | Central ventilation (2-zone) | Up to 400 m³/h at 150 Pa



COMPONENTS



	Left	Right	Component on diagram
DucoBox Energy Premium **325-2ZS**	0000-4362	0000-4363	1
DucoBox Energy Premium **325-2ZH**	0000-4364	0000-4365	
DucoBox Energy Premium **400-2ZS**	0000-4370	0000-4371	
DucoBox Energy Premium **400-2ZH**	0000-4372	0000-4373	

S = standard | H = with heater



User controller **RF / Wired White**	0000-4602	
User controller **RF / Battery White**	0000-4600	
CO_2 Room sensor **with** control **RF / Wired White**	0000-4604	5
CO_2 Room sensor **without** control **RF / Wired White**	0000-4637	2 3 4
Surface-mounted box DUCO controllers / sensors	0000-5009	

→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

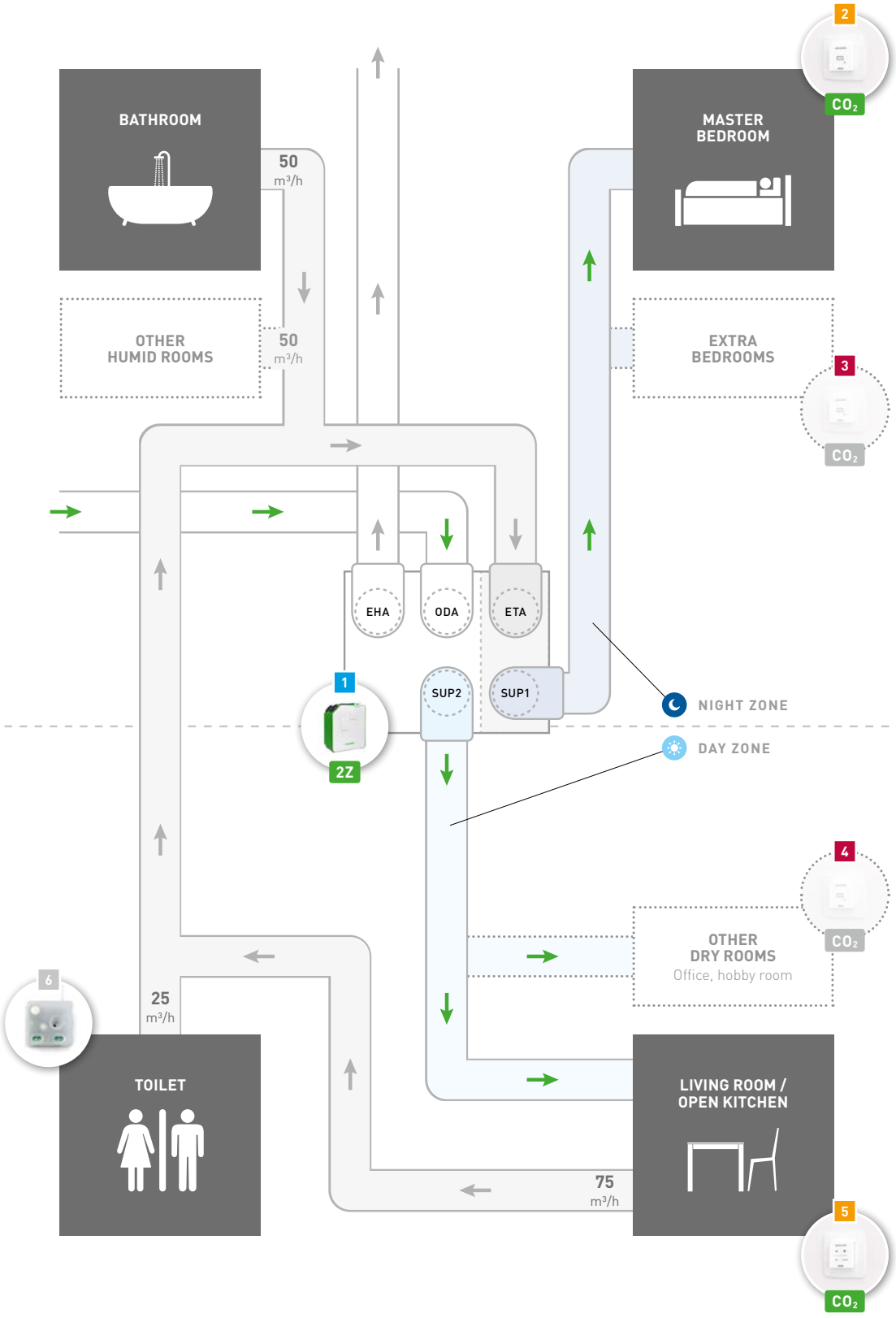


Switch sensor **RF/230 VAC**	0000-4174	6

Duco Connectivity Board 2.0	0000-4945	

→ See chapter 'Vents' from page 92 for more information on all types of vents.

* Passive House Institute certificate only for DucoBox Energy Premium units with heater and a maximum flow rate between 119 m³/h and 239 m³/h.



Detection		Required components	Optional components
Humidity	CO_2		
✗	✗	■	■
✗	Main rooms	■ + ■	■
✗	All rooms	■ + ■ + ■	■

→ Extraction of stale air

→ Supply of fresh air

The illustration shows a right-hand version of the DucoBox Energy Premium.

CENTRAL
humidity
measurement

2-ZONE
SYSTEM

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute
*

Duco Energy Premium System

MVHR | Central ventilation (2-zone) | Up to 400 m³/h at 150 Pa



COMPONENTS

	Left	Right	Component on diagram
DucoBox Energy Premium **325-2ZS**	0000-4362	0000-4363	1
DucoBox Energy Premium **325-2ZH**	0000-4364	0000-4365	
DucoBox Energy Premium **400-2ZS**	0000-4370	0000-4371	
DucoBox Energy Premium **400-2ZH**	0000-4372	0000-4373	

S = standard | H = with heater



Humidity Box sensor (Energy Premium)	0000-4374	6



User controller **RF / Wired White**	0000-4602	
User controller **RF / Battery White**	0000-4600	
CO_2 Room sensor **with** control **RF / Wired White**	0000-4604	5
CO_2 Room sensor **without** control **RF / Wired White**	0000-4637	2 3 4
Surface-mounted box DUCO controllers / sensors	0000-5009	



→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.



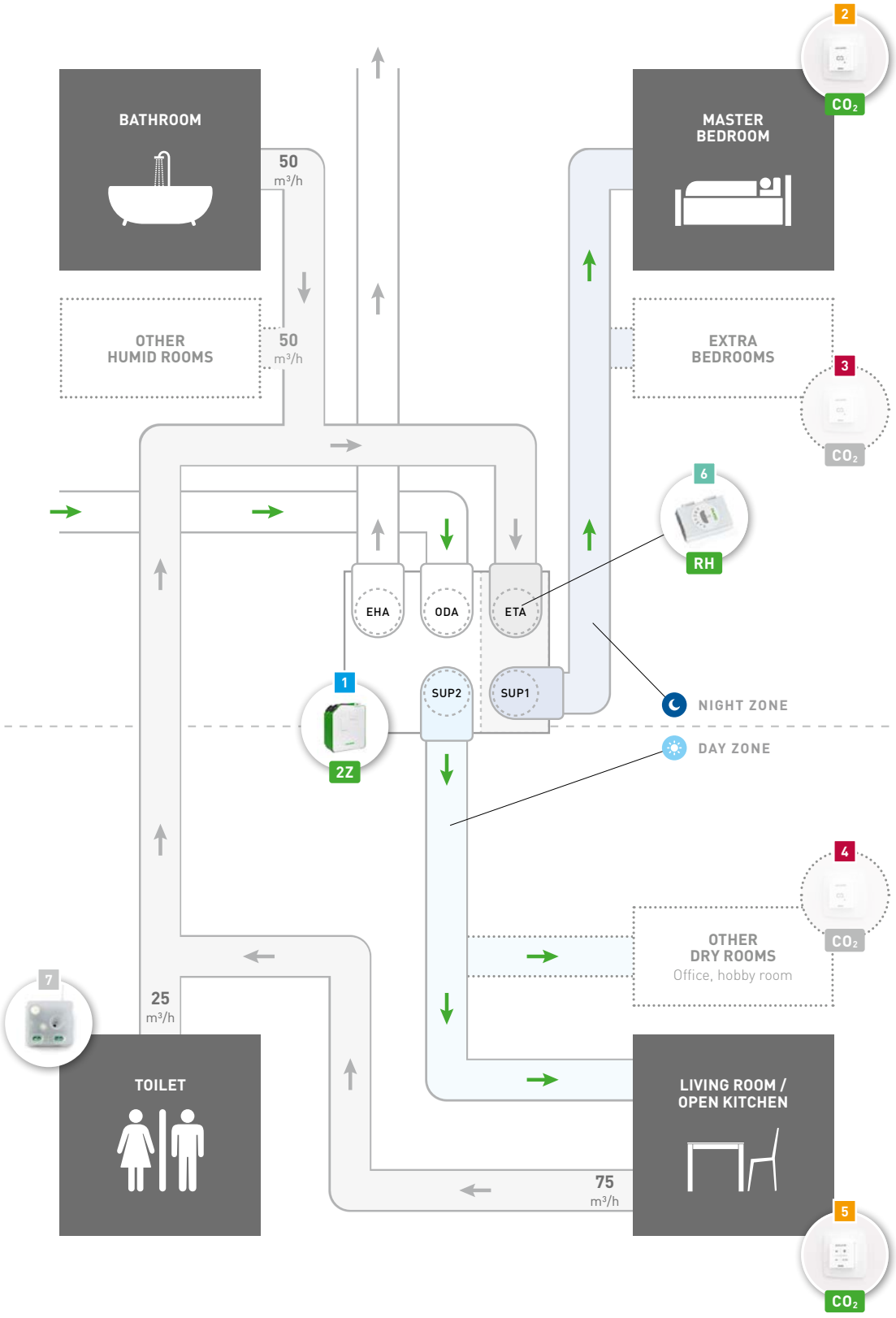
Switch sensor **RF/230 VAC**	0000-4174	7



Duco Connectivity Board 2.0	0000-4945	

→ See chapter 'Vents' from page 92 for more information on all types of vents.

* Passive House Institute certificate only for DucoBox Energy Premium units with heater and a maximum flow rate between 119 m³/h and 239 m³/h.



Detection		Required components	Optional components
Humidity	CO_2		
Central	✗	■ + ■	■
Central	Main rooms	■ + ■ + ■	■
Central	All rooms	■ + ■ + ■ + ■	■

→ Extraction of stale air

→ Supply of fresh air

The illustration shows a right-hand version of the DucoBox Energy Premium.

LOCAL humidity measurement

2-ZONE SYSTEM

CERTIFIED COMPONENT Passive House Institute *

Duco Energy Premium System

MVHR | Zonal ventilation (2-zone) | Up to 400 m³/h at 150 Pa



COMPONENTS

	Left	Right	Component on diagram
DucoBox Energy Premium **325-2ZS**	0000-4362	0000-4363	1
DucoBox Energy Premium **325-2ZH**	0000-4364	0000-4365	
DucoBox Energy Premium **400-2ZS**	0000-4370	0000-4371	
DucoBox Energy Premium **400-2ZH**	0000-4372	0000-4373	

S = standard | H = with heater



User controller **RF / Wired White**	0000-4602	
User controller **RF / Battery White**	0000-4600	
CO_2 Room sensor **with** control **RF / Wired White**	0000-4604	5
CO_2 Room sensor **without** control **RF / Wired White**	0000-4637	2 3 4
Humidity Room sensor **with** control **RF / Wired White**	0000-4606	6 7
Surface-mounted box DUCO controllers / sensors	0000-5009	



→ See chapter 'Control components' from page 82 for black control components and more information on all user controllers and room sensors.

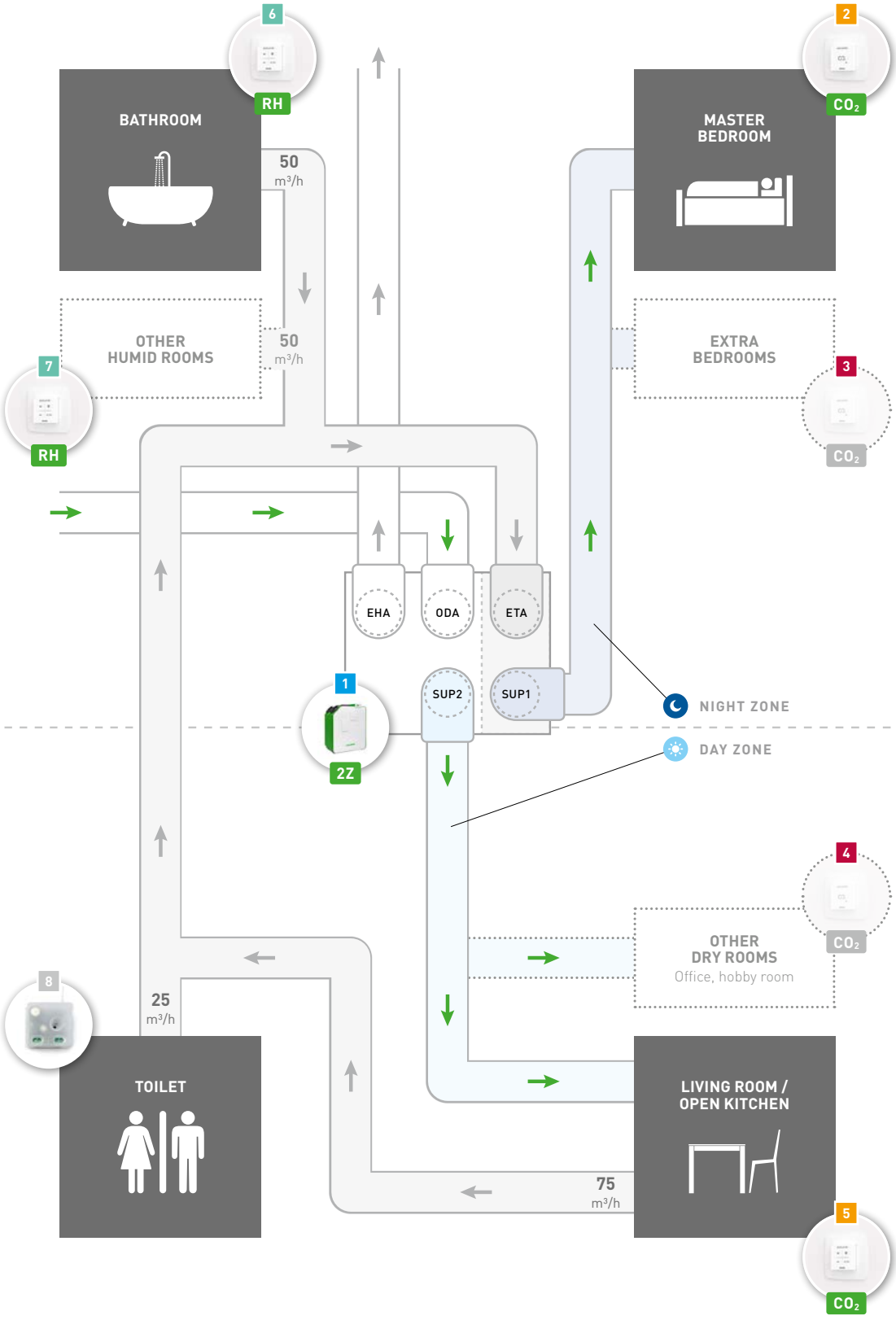


Switch sensor **RF/230 VAC**	0000-4174	8

Duco Connectivity Board 2.0	0000-4945	

→ See chapter 'Vents' from page 92 for more information on all types of vents.

* Passive House Institute certificate only for DucoBox Energy Premium units with heater and a maximum flow rate between 119 m³/h and 239 m³/h.



Detection		Required components	Optional components
Humidity	CO_2		
Local	✕	■ + ■	■
Local	Main rooms	■ + ■ + ■	■
Local	All rooms	■ + ■ + ■ + ■	■

→ Extraction of stale air

→ Supply of fresh air

The illustration shows a right-hand version of the DucoBox Energy Premium.

CONTROL COMPONENTS

With DUCO each ventilation system can be custom assembled using modular control components.



USER CONTROLLERS AND ROOM SENSORS

User controllers and room sensors contain **one or both** of the following functions:

User controller

Using the buttons, the user sets the operation of the ventilation system to the desired level:

- Automatic mode (recommended): CO_2 and/or humidity measurements determine the operation of the ventilation system via intelligent algorithms. This guarantees optimum air quality in the most efficient way.
- Manual settings: the ventilation system ventilates at 15 % (setting 1), 50 % (setting 2) or 100 % (setting 3) of the maximum ventilation capacity.

Measuring air quality

Sensors continuously measure the CO_2 or humidity level (as well as temperature) in the rooms where they are installed. The measurements determine the operation of the ventilation system when it is in automatic mode.

All controls and room sensors also function as RF repeaters (except battery-operated controls).

RF/ Wired models	Battery-powered model
Power supply: RF: 230 VAC | Wired: 24 VDC **Width x Height x Depth:** 69 x 69 x 55 mm **Display:** 4 RGB LEDs **Peak power:** 1.8 W | **Stand-by power:** 1.2 W **Communication:** RF and wired **Colour:** black or white	**Battery:** CR2430 3V coin cell battery **Width x Height x Depth:** 69 x 69 x 17 mm **Display:** 1 bicolor LED **Communication:** RF **Colour:** black or white



User controllers + air quality measurement

These contain both a **user controller** and **room sensors** (CO_2 or humidity) for air quality measurement.

CO_2 Room sensor **with** control **RF / Wired White**	**0000-4604**
CO_2 Room sensor **with** control **RF/Wired Black**	**0000-7114**
Humidity Room sensor **with** control **RF / Wired White**	**0000-4606**
Humidity Room sensor **with** control **RF / Wired Black**	**0000-7115**



User controller only

These contain only a **user controller**. Ideal in rooms where measurement is not required, or where measurement is done by other means (in the duct).

User controller **RF / Battery White**	**0000-4600**
User controller **RF / Battery Black**	**0000-7111**
User controller **RF / Wired White**	**0000-4602**
User controller **RF / Wired Black**	**0000-7112**



Air quality measurement only

Room sensors that are only equipped with a **CO_2 sensor**.
Ideal for bedrooms where no user controller is necessary.

CO_2 Room sensor **without** control **RF / Wired White**	**0000-4637**
CO_2 Room sensor **without** control **RF / Wired Black**	**0000-7113**



Surface-mounted box

By using the optional surface-mounted box, DUCO controllers and sensors can be easily applied in renovation projects.

Surface-mounted box DUCO controllers / sensors	**0000-5009**

WIRED COMPONENTS

Wired / 24 VDC components require a **transformer from 230 VAC to 24 VDC**. It is possible to work with a Duco Power supply as a central power supply, or with a Duco Power Adapter to power the component from the wall socket. See "Options & accessories" for the ventilation unit.

SWITCH SENSOR

The Switch Sensor can perform either or both of the following functions:

Switch detection: the ventilation system will perform a function when closing a (two-pole) dry contact. Suitable for toilet detection or overrule setting (only one function per switch sensor).

Repeater: the switch sensor is ideally suited as a repeater to strengthen the signal in the event of RF communication problems. In that case the switch sensor must be positioned in such a way that the distance to be bridged and/or interference by obstacles is reduced.

A switch sensor is easy to conceal thanks to its small size.

Width x Height x Depth: 41 x 37 x 20 mm **Weight:** 21 g **Color:** white	**Peak power:** 0.5 W **Standby power:** 0.4 W	**Power supply:** 230 VAC **Communication:** RF

Note: An external switch sensor is not required if a switch is connected to the onboard dry contact on the circuit board of the 'master' unit (DucoBox or IQ unit). Use a double-pole switch or relay and a 2 x 0.8 mm² cable for this. Refer to the **Onboard dry contact information sheet (L8001001)** for connection instructions (except DucoBox Silent).

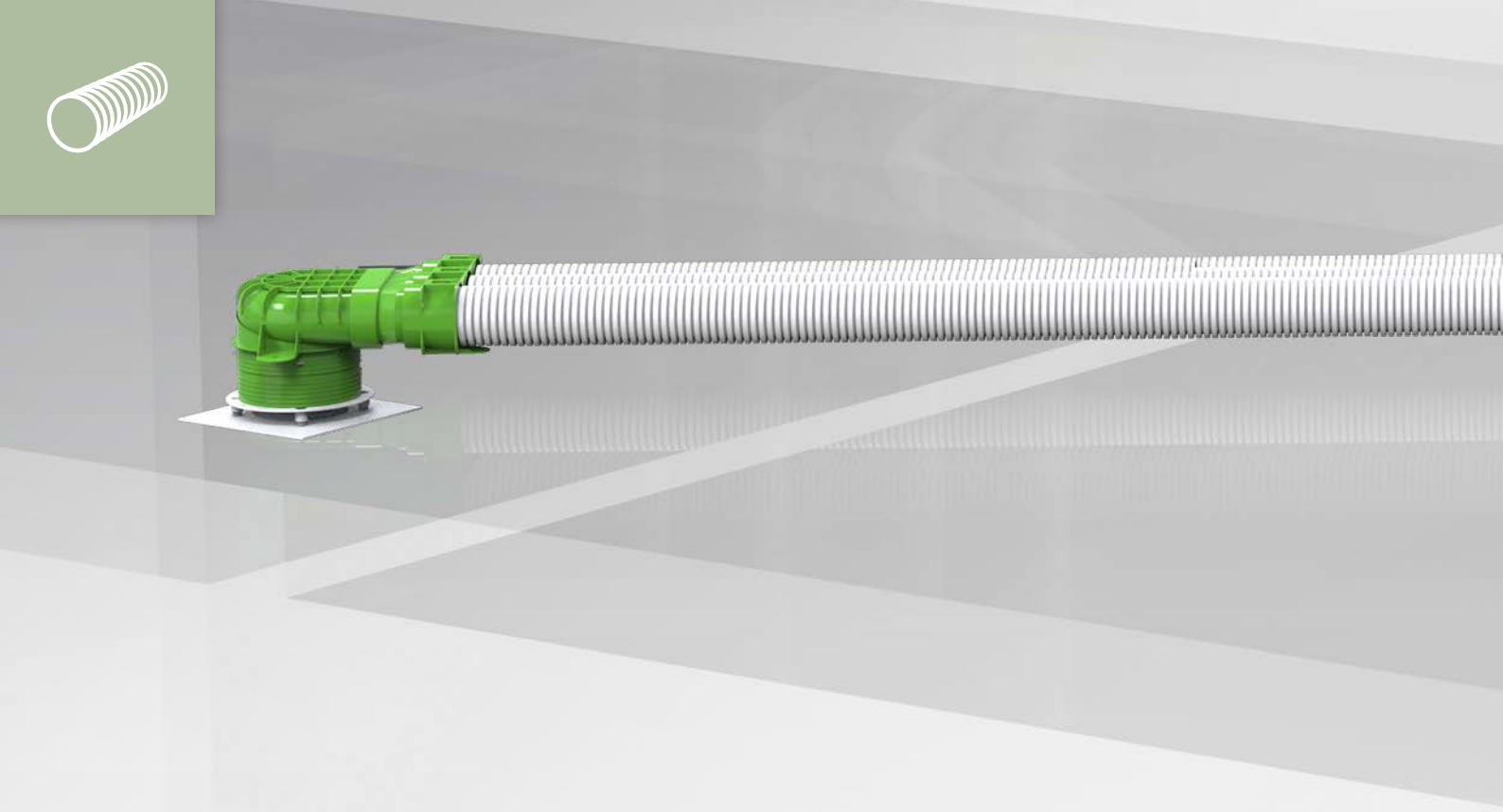


Switch sensor **RF/230 VAC**	**0000-4174**

INTERNAL CONTROL COMPONENTS

Control components which are specific for a certain ventilation unit can be found on the corresponding ventilation unit page:

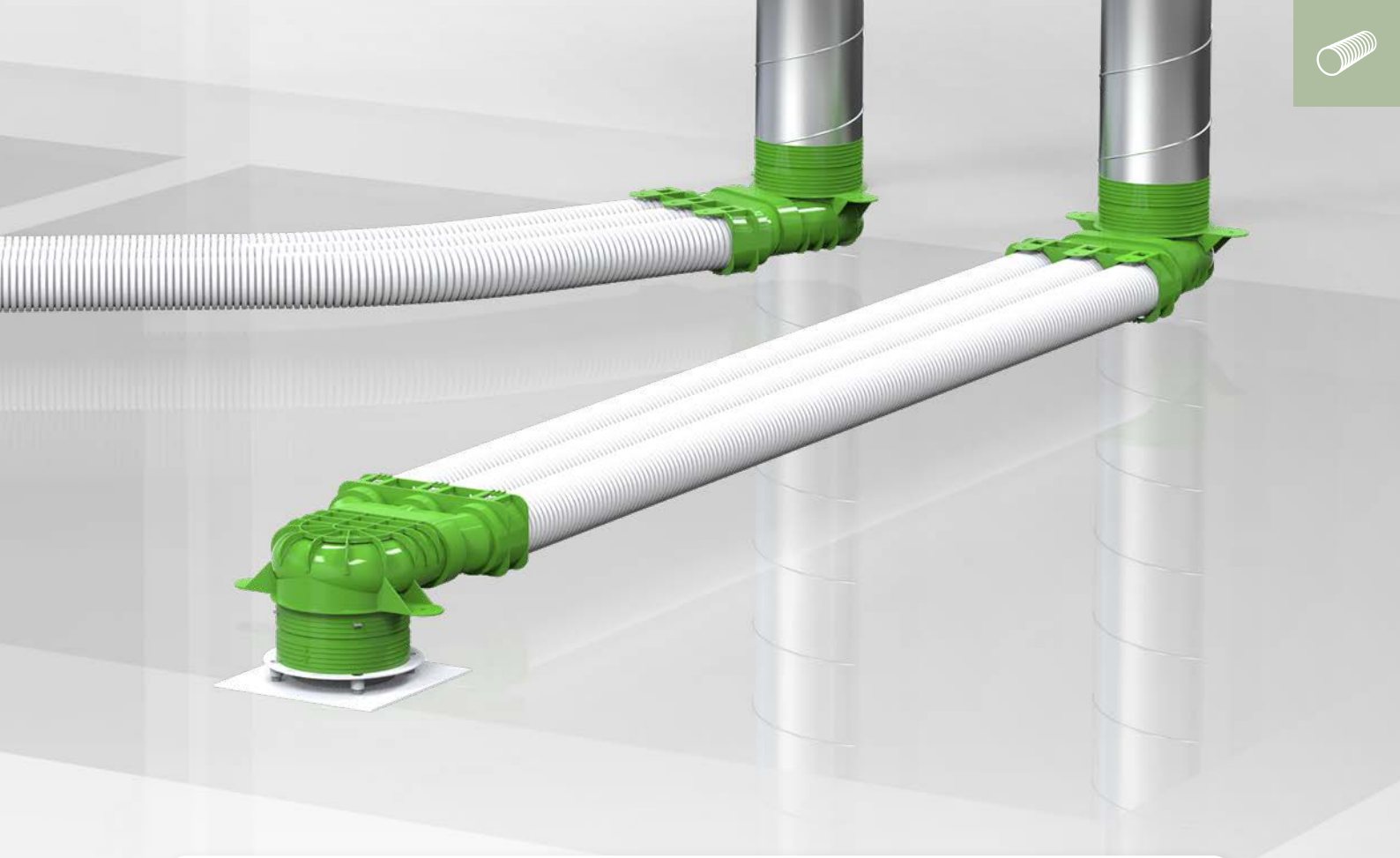
DucoBox Reno	see page 16
DucoBox Silent (Connect)	see page 22
DucoBox Focus	see page 28
DucoBox Energy Comfort	see page 34
DucoBox Energy Sky	see page 52
DucoBox Energy Premium	see page 68



DUCOFLEX
AIR DUCT SYSTEM

With DucoFlex, DUCO offers a **complete air duct system** for MEV and MVHR systems. It consists of the highest airtightness class D, the lowest air resistance and maximum acoustic comfort in combination with the quietest ventilation boxes in Europe! The result is an **energy-efficient and quiet** ventilation system.

Did you know that this complete air duct system for MEV and MVHR systems is very **installation-friendly**? This is thanks to the handy 'Click & Go' principle and a minimum of accessories. DUCO as a one-stop-shop with 100 % service provision!



DUCOFLEX IN 3 STEPS

Are you convinced by DucoFlex, the compact and installation-friendly air duct system? In this case you will not be left on your own! DUCO will give you peace of mind for your tailor-made project.

1. **Provide your DUCO dealer with the necessary documents**: the building plans to scale in PDF format, the chosen configuration and the intended location for the DucoBox. Then your dealer will get started!

2. What's next? **You will receive a tailored quotation** with which you can approach your customer immediately. The calculation includes the price for the DucoBox, the system components and an estimate for the DucoFlex air-duct system.

3. Are you happy with the quotation? In this case you will receive a proposal for a **layout plan** within 10 work days and the completed **bill of materials** for MVHR systems.*

* Only applicable for MVHR systems. Between the estimate (quotation phase) and the completed bill of materials, fluctuations are possible in relation to the number of metres of DucoFlex or manifold boxes, depending on the complexity of the practical implementation.

STANDARD COMPONENTS



DucoFlex Round semi-rigid ducting D63 (50 m)	0000-4552
DucoFlex Round semi-rigid ducting D75 (50 m)	0000-4674
DucoFlex Round semi-rigid ducting D90 (50 m)	0000-4692

DucoFlex antistatic and antibacterial air ducting, being round and flexible, is easy to fit. When fitted correctly, its low internal resistance will contribute to an energy-efficient ventilation system.
The recommended range of application for ∅63 is up to 25 m³/h per duct, for ∅75 up to 36 m³/h per duct and for ∅90 up to 50 m³/h per duct.



DucoFlex Rubber O-ring D63 (10 pieces)	0000-4553
DucoFlex Rubber O-ring D75 (10 pieces)	0000-4675
DucoFlex Rubber O-ring D90 (10 pieces)	0000-4676

The DucoFlex O-ring (EPDM) provides a quick and perfectly airtight joint between air ducts and fittings.



DucoFlex Coupling D63	0000-4554
DucoFlex Coupling D75	0000-4677
DucoFlex Coupling D90	0000-4678

The coupling enables an airtight connection to be made between DucoFlex ducts. A built-in stop prevents the ducts from being inserted too far.



DucoFlex Elbow 90° D75	0000-4679
DucoFlex Elbow 90° D90	0000-4680

The bend in the standard configuration enables a 90° bend to be made in flexible ducting.



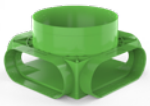
DucoFlex 90° Bend splitter vent connector long, oval D125	0000-4681

The DucoFlex 90° Bend splitter vent connector long can be utilised multifunctionally. This makes it possible to connect a DucoFlex connector 3x63, 2x75, 3x75 or 2x90 to it. Suitable for a transit size up to 300 mm.



DucoFlex 90° Bend splitter vent connector short, oval D125	0000-4682

The DucoFlex 90° Bend splitter vent connector short can be used multifunctionally. This makes it possible to connect a DucoFlex connector 3x63, 2x75, 3x75 or 2x90 to it. Suitable for a transit size up to 60 mm (e.g. wide slab floor).



DucoFlex Manifold box (floor and ceiling) 4 x oval air ducts (F) D160	0000-4687

The ceiling and floor manifold box can be utilised multifunctionally. It is a box with 4 oval connexions and a D160 riser duct. Combined with connectors D63, D75 or D90, it becomes a floor/ceiling plenum.



DucoFlex Manifold box (floor and ceiling) 3x oval air ducts (F) 1x oval air duct (M)	0000-4701

The ceiling and floor manifold box can be utilised multifunctionally. It is a manifold box with 3 oval connexions (F) and 1 oval connection (M). This offers the possibility to connect it to the ceiling and floor manifold box 4x oval (F) and so expand to 6x oval connections (F).



DucoFlex Manifold box (floor) 12x63 D180 (expiring)	0000-4563

The D180 floor manifold box is the adapter between a maximum of 12 DucoFlex D63 ducts and a direct connection to a D180 riser duct. The smart 'Click & Go' system provides a quick and perfectly airtight joint between DucoFlex ducts.



DucoFlex Manifold box (floor) 12x63 2x oval air ducts (expiring)	0000-4565

The 2x oval floor manifold box is the adapter between up to a maximum of 12 D63 ducts and 2x DucoFlex oval. This enables the manifold box to be positioned more accessibly. The smart 'Click & Go' system provides a quick and perfectly airtight joint between DucoFlex ducts.



DucoFlex Manifold box (ceiling) 12x63 D180 (expiring)	0000-4564

The D180 ceiling manifold box is the adapter between up to a maximum of 12 DucoFlex D63 ducts and a direct connection to a D180 riser duct. The smart 'Click & Go' system provides a quick and perfectly airtight joint between DucoFlex ducts.



DucoFlex Riser duct connector, round D160 > 2x oval	0000-4566

The riser duct connector can be utilised multifunctionally. It is an adapter between 2x DucoFlex oval and a D160 riser duct. Combined with connectors D63, D75 or D90, it becomes a floor/ceiling plenum.



DucoFlex Adapter 3x63 oval	0000-4684
DucoFlex Adapter 2x75 oval	0000-4685
DucoFlex Adapter 3x75 oval	0000-4841
DucoFlex Adapter 2x90 oval	0000-4686

The adapter allows connecting 3x DucoFlex D63/D75 or 2x DucoFlex D75/D90 to a DucoFlex oval connection. The smart "Click & Go" system provides a quick and perfectly airtight joint between DucoFlex ducts.



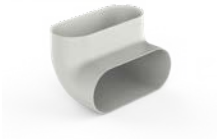
DucoFlex Rigid oval ducting W163 x H68 x L1150	0000-4567

Rigid DucoFlex oval ducting combined with the D160 - 2x oval connector enables a manifold box to be provided in a favourable location.



DucoFlex Horizontal elbow 90°/45° Rigid oval duct	0000-4609

The horizontal bend in the standard configuration enables a 90° bend to be made in rigid oval ducting. It is possible to cut this component down to a 45° bend.



DucoFlex Vertical elbow 90° Rigid oval duct	0000-4699

The vertical bend in the standard configuration enables a vertical 90° bend to be made in rigid oval ducting.



DucoFlex Oval duct coupling	0000-4568

The oval coupling provides a quick and perfectly airtight connection between DucoFlex oval ducting and connections.



DucoFlex horizontal connector D125 oval	0000-4638

The D125 oval connector provides a horizontal connection between D125 round duct and DucoFlex oval duct or an optional connector for DucoFlex.



DucoFlex horizontal connector D160 2x oval	0000-4700

The D160 2x oval connector provides a horizontal connection between D160 round duct and 2x DucoFlex oval duct or an optional connector for DucoFlex.



DucoFlex End cap oval	0000-4713

The DucoFlex End cap oval makes it possible to close an oval connection of a plenum

TOOLS



DucoFlex Duct cutter D63	0000-4599
DucoFlex Duct cutter D75	0000-4688
DucoFlex Duct cutter D90	0000-4689

The DucoFlex duct cutter ensures that ducting can be cut easily as well as nice and straight. This is recommended for airtight system assembly.

INSULATED DUCTING



DucoFlex Insulated circular duct with integrated coupler D125 L1000 mm	0000-7082
DucoFlex Insulated circular duct with integrated coupler D160 L1000 mm	0000-4569
DucoFlex Insulated circular duct with integrated coupler D180 L1000 mm	0000-4909
DucoFlex Insulated circular duct with integrated coupler D200 L1000 mm	0000-4905

The DucoFlex Insulated circular duct is a smooth and insulated ventilation duct made of EPS. The good insulating properties of this product prevent a thermal bridge and therefore condensation when polluted air is extracted or outside air is supplied. Energy losses from ventilation air are also avoided. In addition to the good thermal insulation value, the material used also dampens noise and is very easy to handle. A connection piece is supplied as standard which connects the various EPS components quickly and airtight.



DucoFlex Insulated 90° bend with integrated coupler D125	0000-7083
DucoFlex Insulated 90° bend with integrated coupler D160	0000-4571
DucoFlex Insulated 90° bend with integrated coupler D180	0000-4910
DucoFlex Insulated 90° bend with integrated coupler D200	0000-4906

The DucoFlex Insulated 90° bend is a smooth and insulated elbow for ventilation ducts made of EPS. The good insulating properties of this product prevent a thermal bridge and therefore condensation when polluted air is extracted or outside air is supplied. Energy losses from ventilation air are also avoided. In addition to the good thermal insulation value, the material used also dampens noise and is very easy to handle. A connection piece is supplied as standard which connects the various EPS components quickly and airtight.



DucoFlex Insulated 45° bend with integrated coupler D125	0000-7084
DucoFlex Insulated 45° bend with integrated coupler D160	0000-4573
DucoFlex Insulated 45° bend with integrated coupler D180	0000-4911
DucoFlex Insulated 45° bend with integrated coupler D200	0000-4907

The DucoFlex Insulated 45° bend is a smooth and insulated elbow for ventilation ducts made of EPS. The good insulating properties of this product prevent a thermal bridge and therefore condensation when polluted air is extracted or outside air is supplied. Energy losses from ventilation air are also avoided. In addition to the good thermal insulation value, the material used also dampens noise and is very easy to handle. A connection piece is supplied as standard which connects the various EPS components quickly and airtight.



DucoFlex Insulated coupler D125	0000-7085
DucoFlex Insulated coupler D160	0000-4575
DucoFlex Insulated coupler D180	0000-4912
DucoFlex Insulated coupler D200	0000-4908

The DucoFlex Insulated coupler is a practical connection piece that connects the various EPS components in a quick and airtight manner.

CONNECTION PIECES



Connection piece with joint D125/D125 (M/M)	0000-7086
Connection piece with joint D160/D125 (M/M)	0000-7087
Connection piece with joint D160/D160 (M/M)	0000-4724
Connection piece with joint D180/D160 (M/M)	0000-4725
Connection piece with joint D180/D180 (M/M)	0000-4726
Connection piece with joint D200/D180 (M/M)	0000-4727
Connection piece 45° with joint D160/D160 (M/M)	0000-4949

The connection pieces with joint are used to make a quick and good connection between ducts (extraction and/or supply) or between a duct and a DucoBox. Thanks to the pre-fitted rubber seal, an airtightness class of up to D can be guaranteed at the connection!



Insulated connection piece with joint D125/D125 (M/M)	0000-7135
Insulated connection piece with joint D160/D125 (M/M)	0000-7136
Insulated connection piece with joint D160/D160 (M/M)	0000-7039
Insulated connection piece with joint D180/D160 (M/M)	0000-7040
Insulated connection piece with joint D180/D180 (M/M)	0000-7041

Insulated connection piece with joint D200/D180 (M/M)	0000-7042
Insulated connection piece 45° with joint D160/D160 (M/M)	0000-7043

The connection pieces with joint are used to make a quick and good connection between ducts (extraction and/or supply) or between a duct and a DucoBox. Thanks to the pre-fitted rubber seal, an airtightness class of up to D can be guaranteed at the connection!

SILENCERS



DucoFlex Silencer flexible D125 L1000 mm	0000-4586

The DucoFlex Silencer D125 is a (semi-) flexible silencer composed of a flexible antibacterial inner duct (non-woven) and a polyester-laminated aluminium outer jacket. The space between the inner and outer jacket is filled with 25 mm sound absorbing material. Both ends are taped to allow the silencer to be easily connected to the ventilation unit or the rigid ventilation ducts of diameter D125.



DucoFlex Silencer flexible D125 (M/F) L1000 mm	0000-4630
DucoFlex Silencer flexible D200 (M/F) L1000 mm	0000-4918

The DucoFlex Silencer (M/F) is a (semi-)flexible silencer consisting of a flexible antibacterial inner channel (non-woven) and an aluminium outer jacket laminated in polyester. The space between the inner and outer jacket is filled with 25 mm sound absorbing material.
The silencer comes standard with stainless steel caps on both ends of which 1 M and 1 F connection. This allows quick, easy and airtight connection of the damper to the ventilation unit or rigid ventilation ducts of diameter D125 or D200.



DucoFlex Silencer flexible D125 (M/M) L1000 mm	0000-7088
DucoFlex Silencer flexible D160 (M/M) L1000 mm	0000-4631
DucoFlex Silencer flexible D180 (M/M) L1000 mm	0000-4632

The DucoFlex Silencer (M/M) is a (semi-) flexible silencer composed of a flexible antibacterial inner duct (non-woven) and a polyester-laminated aluminium outer jacket. The space between the inner and outer jacket is filled with 25 mm sound absorbing material. The silencer is provided with stainless steel caps on both ends (2 x M connection). This allows the silencer to be connected quickly, easily and airtight to the ventilation unit or the rigid ventilation ducts of diameter D125, D160 or D180.



DucoFlex Silencer semi rigid D125 (M/M) L1000 mm	0000-7089
DucoFlex Silencer semi rigid D160 (M/M) L1000 mm	0000-4587
DucoFlex Silencer semi rigid D180 (M/M) L1000 mm	0000-4588
DucoFlex Silencer semi rigid D200 (M/M) L1000 mm	0000-4919

The DucoFlex Silencer semi-rigid (M/M) is a semi-rigid (bendable) silencer composed of a profiled and perforated aluminium inner duct and a two-layered profiled outer jacket. The space between the inner and outer jacket is filled with 50 mm sound absorbing material. The silencer is provided with aluminium caps on both ends (2 x M connection). This allows quick, easy and airtight connection of the damper to the ventilation unit or rigid ventilation ducts of diameter D160, D180 or D200.

RECOMMENDED RANGE OF APPLICATION

DucoFlex ducts	
∅63	up to 25 m³/h per duct
∅75	up to 36 m³/h per duct
∅90	up to 50 m³/h per duct

Other components	
∅125	up to 150 m³/h
∅160	up to 250 m³/h
∅180	up to 350 m³/h
∅200	up to 550 m³/h

VENTS

The vents are installed in ducts for the extraction of stale air or supply of fresh air. DUCO does not lose sight of the aesthetic or the functional aspect here either.



WHICH VENTS TO CHOOSE?

	DucoVent **Basic** see p. 94 	DucoVent **Comfort** see p. 94 	DucoVent **Design** see p. 95 	DucoVent **Premium** see p. 94 **Trimless**	**Trim**
Type of DucoBox	DucoBox **Reno** DucoBox **Silent (Connect)** DucoBox **Focus** DucoBox **Energy Comfort (Plus)** DucoBox **Energy Sky** DucoBox **Energy Premium**				
Type of vent	Supply Extraction	Supply Extraction	Supply* Extraction * With the exception of 'Standard' vents	Supply Extraction	
Air flow	Up to 75 m³/h	Extraction: up to 75 m³/h Supply: up to 75 m³/h	Extraction: up to 75 m³/h Supply: up to 50 m³/h	Up to 50 m³/h	
Design	★	★★★	★★★★	★★★ ★★	★★★★
Shape	Round	Round	Round Square Standard and XL Rounded Square Standard and XL	Round	
Material	Plastic	Plastic (ASA)	Aluminium	Plastic	
Colour	White	White	All RAL	White (can be painted) or black	
Sound absorption	★	★★★★	★★★★★	★★★★	
Ease of maintenance	★★	★★★	★★★★★	★★★	
Fitting	To be clamped in DucoFlex	Sealing joint in DucoFlex	To be clamped in DucoFlex	Sealing joint in DucoFlex Trimless: + plastering	
Setting flow rate	Fine adjustment via rotary adjuster	11 adjustable positions	Preregulation with flow rings + Fine adjustment via rotary adjuster	32 adjustable positions	34 adjustable positions
Price	€	€€	€€€€	€€€€	€€€

Extraction

Supply

STANDARD VENT All systems

DucoVent Basic

The DucoVent Basic is the standard vent that is manufactured from plastic and is suitable for ceiling and wall mounting. Fine adjustment is by means of a cone that screws in and out. Suitable for both extraction and supply.

Maximum flow rate: 75 m³/h	**Colour:** White	**Connection diameter:** 125 mm



	Suitable for	
DucoVent Basic	**Extraction + Supply**	**0000-4178**

Extraction

Supply

STANDARD VENT All systems

DucoVent Comfort

A vent where both aesthetics and ease of adjustment are central. This is what DucoVent Comfort stands for! Thanks to a clever principle of adjustment positions, the vent can be adjusted both in advance and during installation. The ideal addition to all Duco ventilation systems in serial construction where the copy function saves a lot of time!

Maximum flow rate: 75 m³/h	**Colour:** White	**Connection diameter:** 125 mm



	Suitable for	
DucoVent Comfort	**Extraction + Supply**	**0000-4769**

Extraction

Supply

STANDARD VENT All systems

DucoVent Premium Trimless

(by Prado)

The DucoVent Premium Trimless is renowned for its minimalist integration and can be used for both supply and extraction.

Thanks to its 'trimless' integration into the plasterwork, the vent is virtually invisible. The clever design ensures diffuse air supply via the Coanda effect, which guarantees optimum comfort. Aesthetics and quality come together in this product, perfectly matched to DUCO's high-quality ventilation solutions!

Maximum flow rate: 50 m³/h	**Colour:** White (can be painted over), Black	**Connection diameter:** 125 mm



	Suitable for	
DucoVent Premium Trimless **White**	**Extraction + Supply**	**0000-4903**
DucoVent Premium Trimless **Black**	**Extraction + Supply**	**0000-7105**

DucoVent Premium Trim

(by Prado)

The DucoVent Premium Trim offers the most extensive control options with 34 adjustable positions and is suitable for both supply and extraction.

Thanks to a minimal mounting height and paintable visible parts, the valve virtually merges into the ceiling. The well-thought-out design ensures a diffuse air supply via the Coanda effect and therefore guarantees optimum comfort. Aesthetics and quality in one product! A perfect combination with DUCO's high-quality ventilation solutions!

Maximum flow rate: 50 m³/h	**Colour:** White (can be painted over), Black	**Connection diameter:** 125 mm



	Suitable for	
DucoVent Premium Trim **White**	**Extraction + Supply**	**0000-5004**
DucoVent Premium Trim **Black**	**Extraction + Supply**	**0000-7106**



Plasterboard sleeve

This accessory enables the installation of the DucoVent Premium Trim ∅ 125 in plasterboard ceilings when connected to flexible ducts.

Plasterboard sleeve ∅ 125	**0000-7098**

Extraction

Supply

SOUND-ABSORBING DESIGN VENT All systems

DucoVent Design

The DucoVent Design is an **aesthetic vent**, available with five different cover plates: square (standard and XL), rounded square (standard and XL) or fully circular. The sleek design, combined with simple installation thanks to its magnetic fastening, ensures **virtually invisible integration** into any room where air extraction or supply is provided. The acoustic rings provide optimal **sound absorption** and easy calibration. Suitable for ceiling and wall mounting. Easy to clean without disturbing the settings.

The DucoVent Design Round and all XL models are also suitable for use as supply vents. Two inserts are included which can be used to reduce the outlet angle, when positioning the vent close to a wall or in a corner for example.

Maximum flow rate: Extraction: 75 m³/h Supply: 50 m³/h	**Noise level:** <15 dB(A) at 50 m³/h **Colour:** White (RAL 9010 structure (AE03059901020)), other RAL colours on request **Duct diameter:** 125 mm



Square	Dimensions	Suitable for	
DucoVent Design Square **Standard AK**	**Width / Height:** 180mm **Depth:** 52mm	**Extraction**	**0000-7006**
DucoVent Design Square **XL AK**	**Width / Height:** 215 mm **Depth:** 52mm	**Extraction + Supply**	**0000-7007**



Round	Dimensions	Suitable for	
DucoVent Design Round **AK**	**Diameter:** 215mm **Depth:** 52mm	**Extraction + Supply**	**0000-7008**



Rounded	Dimensions	Suitable for	
DucoVent Design Rounded Square **Standard AK**	**Width / Height:** 180mm **Depth:** 52mm	**Extraction**	**0000-7012**
DucoVent Design Rounded Square **XL AK**	**Width / Height:** 215 mm **Depth:** 52mm	**Extraction + Supply**	**0000-7013**

AIR FLOW

DUCO supplies a wide range of grilles for extraction and supply for every conceivable use. Please refer to the DUCO website for the complete range.





Please refer to our website for more supply and feed-through options. DUCO offers a wide range of products ranging from standard self-regulating window ventilators which can be fitted in any kind of window or installation situation, including window vents with sound deadening, fire-resistant window vents, customised window vents for high-rise buildings, as well as ventilation and solar shading in a single product or electronically controlled window vents with preheating.

MEV system

FEED-THROUGH VIA FACADE Inside + outside

Silenzio

The Silenzio is a wall damper that is excellent for **renovation**. Not only has its appearance been given a complete makeover, but from now on the Silenzio also features an SR flap so it can easily be used in one of our ventilation systems. This **sound-absorbing** ventilator has been developed specifically for situations where high noise levels are an issue.

The Silenzio SR and Silenzio Retro SR are **suitable for wall thicknesses from 250 mm**. For a deviant pipe length, contact your DUCO dealer.

For more information such as drawings, flow rates and other specifications, consult the brochure "Window and sound-absorbing ventilation" or www.duco.eu..

Diameter of tube: 250 mm **Length of tube:** 300 mm (suitable for wall thicknesses from 250 mm) For a deviant pipe length, contact your DUCO dealer.	**Silenzio SR** **Interior and exterior colours:** standard RAL 9010, other RAL colours possible on request. **Maximum flow rate:** Silenzio SR: 59.4 m³/h (2 Pa) Silenzio SR AK: 36.4 m³/h (2 Pa)	**Silenzio Retro SR** **Colour of inner part:** standard RAL 9010, other RAL colours available on request. **Colour DUCO external louvre grille:** RAL 7048 (mother of pearl mouse grey) **Maximum flow rate:** Without external louvre grille: 54.7 m³/h (2 Pa) With DUCO external louvre grille: 46.5 m³/h (2 Pa)



Silenzio SR

The AK variant is extra sound absorbing.

Silenzio SR	7352-4055
Silenzio SR **AK**	7372-4055



Silenzio Retro SR

The retro variant is specifically suitable for listed buildings with a protected façade. This grille integrates invisibly into the façade (by means of a weep hole) or can be fitted with a discreet external louvre grille (DUCO external louvre grille or external section of your choice).

Silenzio Retro SR **without external louvre grille**	7512-4055
Silenzio Retro SR **with DUCO external louvre grille**	7502-4055

MEV system

MVHR system

FEED-THROUGH VIA FACADE Outside

DucoFlex Wall feed-through

The DucoFlex Wall feed-through can be used as a supply and extraction point with **very low pressure losses**. The fitted flange with a diameter of 125, 160, 180 or 200 provides a quick and air-tight connection to the DucoFlex ISO D125, 160, 180 or 200 pipes without any need for **connecting pieces**. The pre-fitted condensation strip prevents the possible undesired settling of dripping condensate. The sleek design and black or white colour enable the unit to be used discretely in **any type of façade**.



	White	Black
DucoFlex Wall feed-through **D125**	0000-7090	0000-7091
DucoFlex Wall feed-through **D160**	0000-4627	0000-4584
DucoFlex Wall feed-through **D180**	0000-4628	0000-4585
DucoFlex Wall feed-through **D200**	0000-4913	0000-4914

MEV system

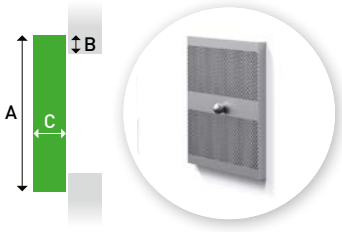
FEED-THROUGH VIA FACADE Inside

DucoGrille Close M100

DucoGrille Close M 100 is a **closable** surface mounted internal louvre grille. The plastic slide valves allow for adjustable ventilation. Thanks to the small punching, this grille is **insect repellent**.

These products are also available in other sizes and colours. If interested, we would like to refer you to our sister company Duco Projects NV.

Material: aluminium | **Colour:** anodisation SAA (15-20 µm)



	Width (mm)	Height (mm)	
DucoGrille Close M 100	**200**	**200**	S5501001

A = Width x Height (see table) | B = 12 mm | C = 13 mm

MEV system

MVHR system

FEED-THROUGH VIA DOOR

DoorVent

The DoorVent is a transfer grille that **can be installed discretely in internal doors**. Unlike gaps under the door, the DoorVent thereby avoids draughts and **attenuates intrusive noise**.

Dimensions:
Overall (Width x Height):
436 x 58 mm
Recessed fitting (Width x Height):
417 x 48 mm
Airflow: 70 cm²
Door thickness: 37-47 mm



DoorVent **RAL 9001**	1030-0800
DoorVent **RAL 9010**	1030-0700
DoorVent **other DUCO300RAL**	1030-0500

RAL colours other than those described above on request.

MEV system

MVHR system

FEED-THROUGH VIA FACADE Outside

DucoGrille Solid 30Z

The height and width of these **customised grilles** can be determined to the millimetre, both in rectangular and round format. The DucoGrille Solid 30Z is vandal-resistant thanks to its **extra sturdy louvres** and can also be made burglary-resistant. Available for various construction situations (recessed, surface mounted, glass replacement) and in variants with vermin and insect protection.

See the Brochure 'Louvre Grilles' for more information, and feel free to get in touch with our sister company Duco Projects NV, marketing these specific products.







MEV system

MVHR system

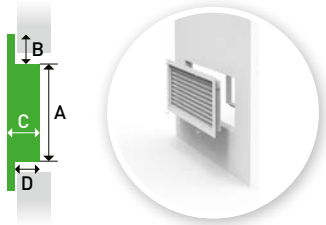
FEED-THROUGH VIA INTERIOR WALL & DOOR

DucoGrille Transfer

This **transfer grille** can easily be installed in **doors and walls**. The frame depth can be adjusted. The grille can be fitted **with or without a counterframe**. The DucoGrille Transfer is ideally suited for larger airflows between interior spaces, but can also be used between interior and exterior spaces (e.g. exterior doors).

These products are also available in other sizes and colours. If interested, we would like to refer you to our sister company Duco Projects NV.

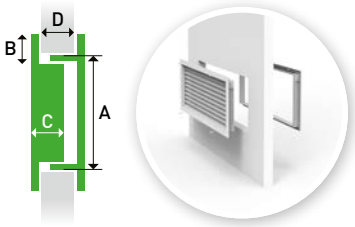
Material: aluminium | **Colour:** aluminium colour



Without counterframe

	Width (mm)	Height (mm)	
DucoGrille Transfer without counterframe	190	90	S5201001
	290	90	S5201002
	290	190	S5201003
	390	90	S5201004
	390	190	S5201005
	390	290	S5201006
	490	290	S5201007
	590	390	S5201008

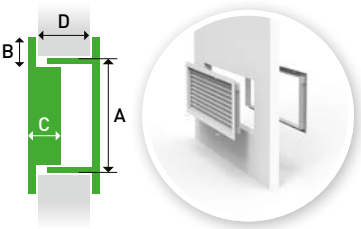
A = Width x Height (see table) | B = 21 mm | C = 36 mm | D = 31 mm



With counterframe (wall depth 28-54 mm)

	Width (mm)	Height (mm)	
DucoGrille Transfer with counterframe 28-54 mm	200	100	S5301001
	300	100	S5301002
	300	200	S5301003
	400	100	S5301004
	400	200	S5301005
	400	300	S5301006
	500	300	S5301007
	600	400	S5301008

A = Width x Height (see table) | B = 21 mm | C = 36 mm | D = 28-54 mm



With counterframe (wall depth 54-84 mm)

	Width (mm)	Height (mm)	
DucoGrille Transfer with counterframe 54-84 mm	200	100	S5401001
	300	100	S5401002
	300	200	S5401003
	400	100	S5401004
	400	200	S5401005
	400	300	S5401006
	500	300	S5401007
	600	400	S5401008

A = Width x Height (see table) | B = 21 mm | C = 36 mm | D = 54-84 mm

MEV system

MVHR system

FEED-THROUGH VIA FLAT & SLOPING ROOF

DucoFlex Roof feed-through



	Slate	Terracotta
DucoFlex Roof feed-through Compact D125	0000-7092	0000-7093
DucoFlex Roof feed-through Compact D160	0000-4582	0000-4580
DucoFlex Roof feed-through Compact D200	0000-4920	0000-4921

The DucoFlex Roof feed-through Compact can be used as a supply and extraction point. The dark grey or terracotta colour and the design allow this unit to be used very discretely in a **sloping roof**. The pre-fitted lead sheet ensures quick and water-tight installation.
The smart design ensures that this compact roof feed-through is hardly sensitive to atmospheric turbulences. The connection piece fits seamlessly into DucoFlex ISO pipes D125, D160 or D200



DucoFlex Universal Roof feed-through D125 (1,0m)	0000-7094
DucoFlex Universal Roof feed-through D160 (1,0m))	0000-7095
DucoFlex Universal Roof feed-through D180/200 (1,0m)	0000-4915

The DucoFlex Universal Roof feed-through can be used as a supply and extraction point on **both flat and sloping roofs**. This unit can also be used at higher air flow rates thanks to its low air-resistance. The pre-assembled connection piece is 635 mm, allowing the roof feed-through to be used in any possible situation. The insulated end piece fits DucoFlex ISO D125, D160, D180 and D200 pipes.



DucoFlex Roof feed-through plate flat roof D160	0000-7096
DucoFlex Roof feed-through plate flat roof D230	0000-7108
DucoFlex Roof feed-through plate flat roof D263	0000-4916

The DucoFlex adhesive plate for **flat roofs** can be combined with the Universal Roof feed-throughs. It is made completely of aluminium, making it suitable for all standard finishes of roof feed-throughs on flat roofs.



DucoFlex Universal Roof feed-through tile D160	0000-7097
DucoFlex Universal Roof feed-through tile D227	0000-7109
DucoFlex Universal Roof feed-through tile D263	0000-4917

The DucoFlex Universal Roof feed-through tile can be combined with the Universal Roof feed-throughs. The unit is suitable for sloping roofs. The pre-fitted plastic flashing ensures quick and water-tight installation

COMBINATION OPTIONS FOR ROOF FEED-THROUGHS

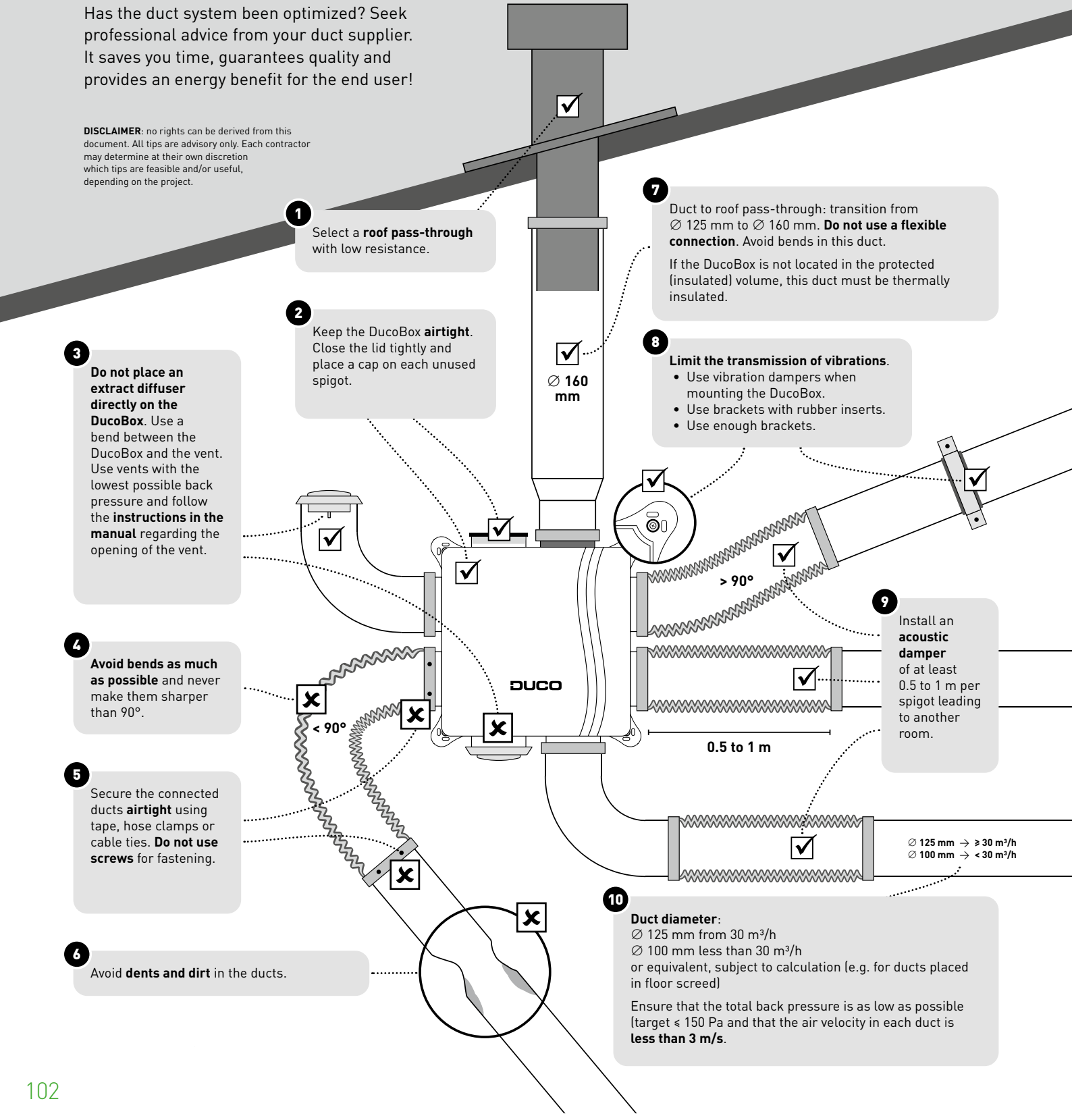
Type DucoFlex Universal roof feed-through		For sloping roofs: Matching DucoFlex roof feed-through tile			For flat roofs: Matching DucoFlex adhesive plate	
Product	Item number	Product	Angle of inclination	Item number	Product	Item number
D125 (1.0 m)	0000-7094	D160	15-55°	0000-7097	D160	0000-7096
D160 (1.0 m)	0000-7095	D227	15-50°	0000-7109	D230	0000-7108
D180/200 (1.0 m)	0000-4915	D263	20-50°	0000-4917	D263	0000-4916

INSTALLATION TIPS
DUCOBOX RENO / SILENT (CONNECT) / FOCUS

The proper functioning of your DUCO ventilation system depends entirely on the choice and quality of the exhaust duct system!

Has the duct system been optimized? Seek professional advice from your duct supplier. It saves you time, guarantees quality and provides an energy benefit for the end user!

DISCLAIMER: no rights can be derived from this document. All tips are advisory only. Each contractor may determine at their own discretion which tips are feasible and/or useful, depending on the project.



1 Select a **roof pass-through** with low resistance.

2 Keep the DucoBox **airtight**. Close the lid tightly and place a cap on each unused spigot.

3 **Do not place an extract diffuser directly on the DucoBox**. Use a bend between the DucoBox and the vent. Use vents with the lowest possible back pressure and follow the **instructions in the manual** regarding the opening of the vent.

4 **Avoid bends as much as possible** and never make them sharper than 90°.

5 Secure the connected ducts **airtight** using tape, hose clamps or cable ties. **Do not use screws** for fastening.

6 Avoid **dents and dirt** in the ducts.

7 Duct to roof pass-through: transition from ∅ 125 mm to ∅ 160 mm. **Do not use a flexible connection**. Avoid bends in this duct.

If the DucoBox is not located in the protected (insulated) volume, this duct must be thermally insulated.

8 **Limit the transmission of vibrations**.
- Use vibration dampers when mounting the DucoBox.
- Use brackets with rubber inserts.
- Use enough brackets.

9 Install an **acoustic damper** of at least 0.5 to 1 m per spigot leading to another room.

10 **Duct diameter**:
∅ 125 mm from 30 m³/h
∅ 100 mm less than 30 m³/h
or equivalent, subject to calculation (e.g. for ducts placed in floor screed)

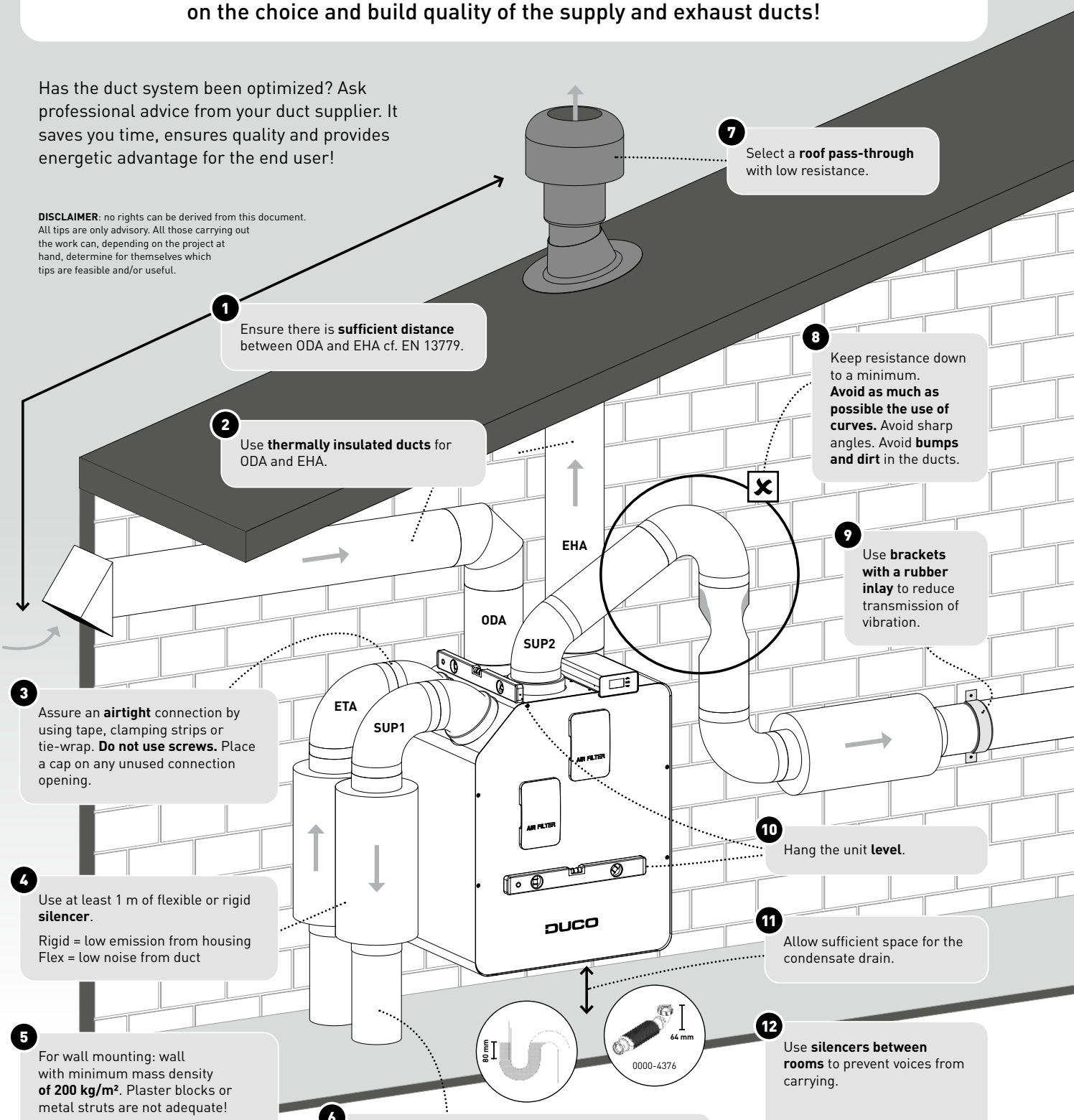
Ensure that the total back pressure is as low as possible (target ⩽ 150 Pa and that the air velocity in each duct is **less than 3 m/s**.

INSTALLATION TIPS
DUCOBOX ENERGY COMFORT (PLUS) / SKY / PREMIUM

The correct operation of your DUCO ventilation system is entirely dependent on the choice and build quality of the supply and exhaust ducts!

Has the duct system been optimized? Ask professional advice from your duct supplier. It saves you time, ensures quality and provides energetic advantage for the end user!

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1 Ensure there is **sufficient distance** between ODA and EHA cf. EN 13779.

2 Use **thermally insulated ducts** for ODA and EHA.

3 Assure an **airtight** connection by using tape, clamping strips or tie-wrap. **Do not use screws.** Place a cap on any unused connection opening.

4 Use at least 1 m of flexible or rigid **silencer**.

Rigid = low emission from housing
Flex = low noise from duct

5 For wall mounting: wall with minimum mass density **of 200 kg/m²**. Plaster blocks or metal struts are not adequate!

Use a mounting plinth if the wall is not sufficient.

6 **Duct diameter**:
∅ 160 mm to 250 m³/h / ∅ 180 mm to 350 m³/h / ∅ 200 mm to 550 m³/h or equivalent subject to calculation (e.g. with cast-in ducting).

Make sure that the total counter pressure in the ducts is as low as possible (preferably ⩽ 150Pa) and that the airspeed in every duct **does not exceed 3 m/s**.

7 Select a **roof pass-through** with low resistance.

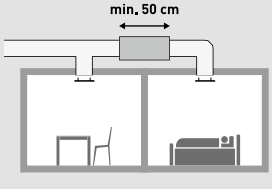
8 Keep resistance down to a minimum. **Avoid as much as possible the use of curves.** Avoid sharp angles. Avoid **bumps and dirt** in the ducts.

9 Use **brackets with a rubber inlay** to reduce transmission of vibration.

10 Hang the unit **level**.

11 Allow sufficient space for the condensate drain.

12 Use **silencers between rooms** to prevent voices from carrying.



Small.
Smart.
Green.

DucoBox Energy Comfort (Plus) D250



L1337130 Document last modified on 02.07.2026 (revision C)