



## Duco FOCUS SYSTEM type DC-BPFS (SL)

The kit Duco FOCUS SYSTEM (SL) System is an easy-to-install controlled natural ventilation system that provides natural air supply by means of self-regulating air grilles in the walls and mechanical extraction of polluted air by means of an exhaust fan.

This system is very suitable for new constructions and renovations and requires only a minimal investment.

### Application

- With **Duco Comfort Plus System (SL)**, the demand for ventilation is determined by standard on the basis of air quality (CO<sub>2</sub>) and relative humidity (RH) and it uses manually controlled self-regulating supply grids (P3).
- The system measures the level of CO<sub>2</sub> in the living room / open kitchen, bedrooms and / or dry rooms (by individual valve per room) and the relative humidity level in the bathroom using a **patented adjustment valve system** in the mechanical extraction unit; additional probes or control valves can be installed as an option in other living rooms or "wet" rooms; presence detection is found in each toilet (**DC-VAV CO2 25**)
- The mechanical exhaust unit (**DucoBox Focus**) ensures the extraction of humid / polluted air

### Composition

The basic kit **DC-BPFS** contains the following components:

- CO<sub>2</sub> adjustment valve, type **DC-VAV CO2 75** (open kitchen)
- Humidity adjustment valve, type **DC-VAV RH-CO2 50** (bathroom)
- Presence detection by highly sensitive CO<sub>2</sub> sensor integrated in the valve, type **DC-VAV CO2 25**
- Wireless control switch, type **DC-CV RF230**
- Acoustic kit, type **DC-SILP** (-3dB (A))

The **DC-BPFS SL** basic kit contains the following components:

- Two CO<sub>2</sub> adjustment valves, type **DC-VAV CO2 30** (bedrooms and / or dry rooms)
- CO<sub>2</sub> adjustment valve, type **DC-VAV CO2 75** (open kitchen)
- Humidity adjustment valve, type **DC-VAV RH-CO2 50** (bathroom)
- Presence detection by highly sensitive CO<sub>2</sub> sensor integrated in the valve, type **DC-VAV CO2 25**
- Wireless control switch, type **DC-CV RF230**

### Accessories

Required for installation:

- DucoBox, type **DC-BOX FOCUS**

Optional:

- CO<sub>2</sub> control valve, type **DC-VAV CO2 30** in case of more than 2 bedrooms and

/ or dry rooms

- Additional moisture control valve for second bathroom, type **DC-VAV RH-CO2 50**
- Additional moisture control valve for wet storage, type **DC-VAV RH 50**
- In the case of a 2nd toilet: CO<sub>2</sub> control valve, type **DC-VAV CO2 25** with a sensitive CO<sub>2</sub> sensor for presence
- Flow-through opening, type **DC-DV 70**

Examples of configurations				
DC-BCS PLUS (SL)				
Supply	Living room, bedroom(s) and dry room(s): self-regulating grid (P3)			
Control	CO <sub>2</sub> measurement living room / open kitchen	CO <sub>2</sub> control valve (DC-VAV CO2 75)		
	CO <sub>2</sub> measurement bedroom(s)	CO <sub>2</sub> control valve (DC-VAV CO2 30) via collection valve	CO <sub>2</sub> control valve (DC-VAV CO2 30) per bedroom	CO <sub>2</sub> control valve (DC-VAV CO2 30) per dry room
	Bathroom moisture measurement	Humidity control valve (DC-VAV RH 50)		Humidity control valve (DC-VAV RH 50) via collection valve
	Moisture measurement washing and drying place	Humidity control valve (DC-VAV RH 50)		
	Toilet	CO <sub>2</sub> control valve (DC-VAV CO2 25)		
Operation	Control switch DC-CV or communication PCB DC-PCB.COM			
Transit	DoorVent (DC-DV 70)			
Drain	DucoBox Focus (DC-BOX FOCUS, local arrangement)			
F <sub>reduc. vent.</sub>	Valid for building application from 01/01/2015	0.61*	<b>0.50*</b>	0.47*
		local drain in the bedrooms via collection valve	local drain in the bedrooms	local drain bedrooms
				<b>0.43*</b>
				local discharge via control valve per dry room

\*Flat rate table

\*\* Subject to changes in legislation

## Duco Comfort Plus System

$f_{\text{reduc,vent}} 0,43^*$

