

DucoGrille Close 105

The DucoGrille Close 105 is an **actuator-controlled multileaf damper** with a large airflow tailored to offices and schools. The multileaf damper can be used as both a supply and exhaust grille. The DucoGrille Close 105 can be built into a **wall or curtain wall** and a wall louvre on both sides, which may or may not be burglar-proof, ensures an aesthetic finish. With a limited depth of just 105 mm, the multileaf damper can easily be installed in smaller rooms, both horizontally and vertically.



→ DucoGrille Close 105 in curtain wall

What is more, the multileaf damper can also act as an **adjustable central extract unit**, combined for instance with Duco's roof cowls.

Thanks to the high flow rate, the DucoGrille Close 105 is also ideal for use in providing intensive ventilation or as part of the **(night) cooling systems** of a building.

The DucoGrille Close 105 can be configured **different types of motor** (including **Spring Return** motors as well).

VENTILATION VALUES

Visual free passage		74 %*
Physical free passage		74 %*
Ce (higher is better)		0,62*
Cd (higher is better)		0,62*
K-FACTOR (lower is better)	INLET	2,57*
	OUTLET	2,57*

* Values measured without internal and external louvre grille.

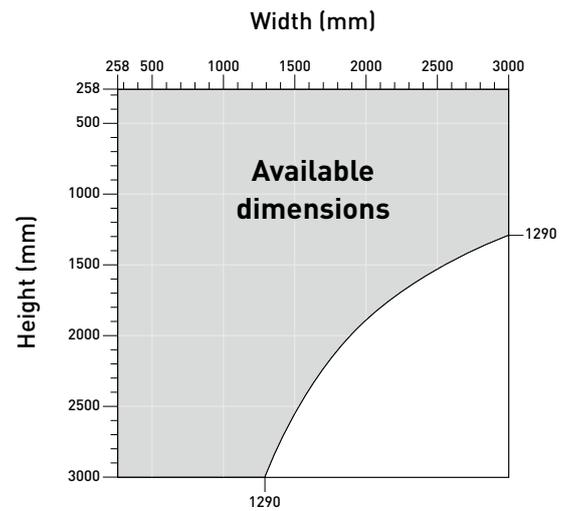
PRE-ASSEMBLY

The **DucoGrille Close 105** is available 'pre-assembled' with the **DucoGrille Solid 30Z** external louvre grille in two types: **G 30Z** (recessed wall louvre with flange) and **F 30Z** (window louvre). This pre-assembled external louvre grille with multileaf damper can be installed quickly and easily.



FRAME TYPES AND DIMENSIONS

Sizes	min. 258 mm up to max. of 3000 mm (incremental by 1 mm) Width and height interdependent, see graph opposite
Depth	105 mm
Louvre pitch	91 mm
Ventilation	805 l/s/m ² at 1 Pa 1200 l/s/m ² at 2 Pa
Air density (in closed position)	Qn50 = 0.79 m ³ /h/m
Water-tightness (in closed position)	Watertight (EN 1027)
Attenuation value 🎧	Rw (C;Ctr) = up to 13 (0,-3)*
Insulation value	U < 1 W/m ² K
Motor noise	35 dB(A) - 45 dB(A)
Operating temperature	-25 °C up to +60 °C
Control	Actuator / BMS
Motors	Different types, please refer to the technical data sheet at www.duco.eu .



* Value with Solid 30Z P1 + DucoGrille Close 105 + 2 x Duco Acoustic Panel 150 + Solid 30Z P2



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Ventilation grille

The DucoGrille Close 105 can be combined with **DucoGrille Solid** and **DucoGrille Classic** louvre grilles on the inside and outside.

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Close 105 multileaf damper

The DucoGrille Close 105 can be fully automatic based on CO₂ and temperature measurements by connecting with Duco's Tronic (Plus) Systems or with a building management system (BMS).



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Acoustic panel

Louvre blades provided with sustainable acoustic sound-absorbing material (non-flammable mineral wool) can be fitted before or after the multileaf damper. This ensures that the acoustic value of the ventilation intake or exhaust can be increased. Depending on the requirements, a single row of louvre blades can be fitted or a double row for optimum sound absorbency.

Rw (C;C _r)
Single row of louvre blades 9 (-1;-2) dB
Double row of louvre blades 12 (0;-2) dB

Octave band values (dB)		
Frequency (Hz)	single row of louvre blades	double row of louvre blades
63	7,7	8
125	3,8	5,7
250	2,6	3,6
500	4,4	6,7
1000	8,2	13,3
2000	12,6	20,9
4000	11,4	19,2