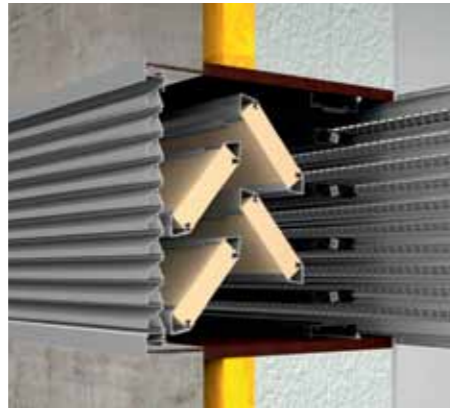


## Duco Acoustic Panel 150

For a better acoustic performance

With the Duco Acoustic Panel 150, Duco developed an acoustic variant for the DucoGrille Close 105, specifically engineered for situations exposed to high levels of noise disturbance.

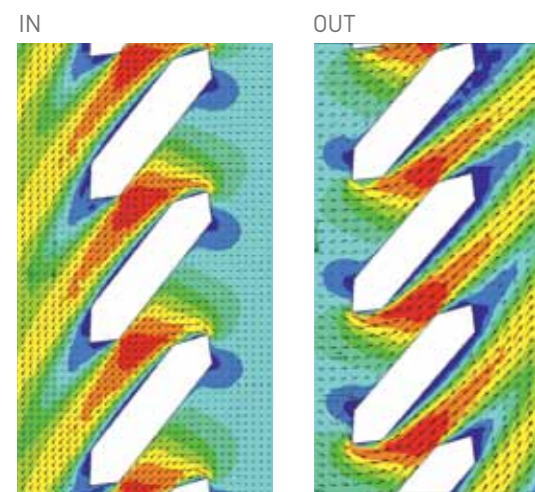
The blades are placed before or after the damper, which is provided with a sustainable acoustic damping material (non-flammable mineral wool) on the inside. Because of this, the acoustic value of the ventilation supply or drain can be increased. Depending on the demands, a single line of blades can be placed or multiple lines for an optimal soundproofing. The pitch of the blades can be adjusted per project.



### Technical Specifications:

	single	double
Blade height	144	144
Blade Pitch	150	150
Inclination	45°	45°
Maximal width	1500 mm	1500 mm
Minimal height	150 mm	150 mm
Visual free area	76%	76%
Physical free area	44%	44%
Fitting depth	150 mm	300 mm
Acoustic performance	Rw [C; Ctr] = 9 [-1; -2] dB Dn,e,w = 19 dB	Rw [C; Ctr] = 12 [0; -2] dB Dn,e,w = 22 dB

### EFD Simulation Duco Acoustic Panel 150



K-factor	Intake : 11,04	Exhaust : 10,96
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# HOME OF OXYGEN

At Duco, we provide oxygen to each building in a perfectly natural way. Allowing fresh air from the outside to directly enter a building through the building envelope, without the need for complicated air ducting systems : The ultimate guarantee of a healthy indoor climate. The occupant's health and well being are always of paramount concern to all Duco staff.

A well balanced combination of basic ventilation, night cooling and sun protection is essential to ensure that optimum air quality conditions are maintained. Residential buildings, office buildings, schools, leisure or healthcare buildings... Duco can provide innovative solutions to every project, so everyone will be sure to feel at home.

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**DUCO**  
Ventilation & Sun Control

## DucoGrille Close 105

Intensive ventilation



- High airflow
- Supply grille/extract grille
- Small depth
- Controllable ventilator

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**DUCO**  
Ventilation & Sun Control

## Need for ventilation

Buildings such as offices and schools are often vulnerable to internal overheating. Large expanses of glass offer light-filled and spacious interiors, but give the least protection from extreme heating. Offices and school buildings are subject to stringent requirements for ventilation. Often a high energy consuming air conditioning system needs to be introduced in order to maintain indoor climate conditions. There is, however, a natural and energy efficient solution : The DucoGrille Close 105. This blade damper can be used as supply or extract grille or as a part of night cooling application of buildings.

## By far the best solution: DucoGrille Close 105

Duco Ventilation & Sun Control, at the forefront of natural ventilation and solar shading systems, has developed a bespoke solution based on many years of experience.

The DucoGrille Close 105 is a blade damper which, as a result of its high airflow rate, is perfect for use in ventilation applications of buildings. Allowing fresh air from the outside to directly enter a building through the building envelope. The ultimate guarantee of a healthy indoor climate.

In addition the DucoGrille Close 105 can be used in night cooling applications. Natural outside fresh air enters the building and is used to cool down the building's thermal mass at night. This fresh air is stored in the building's thermal mass to provide a pleasant indoor climate during daytime.



Designed for wall mounted applications in supply mode, the DucoGrille Close 105 is fitted with a grille on both sides for aesthetic purposes. This blade damper is ideal when combined with a DucoGrille Solid series. Thanks to its high air flow rate the DucoGrille Close 105 is also suitable for adjustable extract. Blade dampers are motor controlled and can be connected to a Building Management System thus allowing for a fully-fledged ventilation strategy.

## The DucoGrille Close 105 in detail

The DucoGrille Close 105 comes with a number of major advantages that make the difference:

### Straightforward design

The number of constituent parts is reduced to the strictest minimum, which results in wide ranging benefits. Assembly and fitting are straightforward. No special tools or specialist skills are needed to assemble the product. One single actuator, suitable for either left or right fitting, for all types.

### Reduced depth, flexible dimensions

With a depth of 105mm, the blade damper makes for easy installation and is particularly suitable for applications where space is limited. DucoGrille Close 105 units can be mounted in either a horizontal or vertical position.

### Outstanding performances

**Ventilation capacity :** Thanks to its high air flow rate (up to 805 l/s/m<sup>2</sup> at 1Pa pressure difference), the DucoGrille Close 105 is an ideal alternative to intensive (night) ventilation, but is also suitable as an extract unit.

**Weathering performance:** When fitted in combination with a DucoGrille Solid series internal grille and external louvre, the blade damper provides Class A weathering (up to  $v = 2.5$  m/s when in the fully open position following EN 13030 and is waterproof in closed position following EN 100027).



## Technical Specifications

<b>Length:</b>	min. 400 mm / max. 1500 mm
<b>Height:</b>	min. 236 mm / max. 1237 mm
<b>Depth:</b>	105 mm
<b>Blade Pitch:</b>	91 mm
<b>Airflow:</b>	805 l/s/m <sup>2</sup> (bij 1 Pa)
<b>Air Leakage (in closed position):</b>	Qn50 = 0,79 m <sup>3</sup> /h*m
<b>Watertightness (in closed position):</b>	Waterproof (EN 100027)
<b>Heat Loss:</b>	U = 2 W/m <sup>2</sup> K
<b>Control Voltage:</b>	0-10 V (3 position control)
<b>Running noises acuator:</b>	< 35 dB (A)
<b>Ambient operating temperature range:</b>	-25°C tot +60 °C
<b>Material:</b>	Aluminium: Al Mg Si 0,5
	Finishing: Stove enamelled polyester powder coated (60-80 µm)
	HD PVC

### EFD Simulation DucoGrille Close 105

