

Pictures are only illustrative. They can differ from the visual shape of the selected product variant.

Description

NOVA-C is a rectangular steel diffusion grille with one or two rows of adjustable blades. It is adequate for usage as a standard ventilation element in industrial and commercial premises. The NOVA-C diffusion grille directs the air using its adjustable blades in a horizontal, as well as vertical direction. It is designed for air supply and air extract. For a balanced distribution of air through the entire diffusion grille it is recommended to use a damper.

Design

The NOVA-C diffusion grille is manufactured from galvanized steel sheets and steel profiles with, if appropriate, a powder-lacquered surface finish; other RAL types are available upon request, as well as an A-304 or A-316 stainless steel version of the product. The round duct diffusion grille is supplied with 3 different front plate crank types

- C - 1 bend on 71°
- CC - 1 bend on 55°
- CA - 2 bends on 50° and 15°

Type of blades:

Single-row as well as double-row diffusion grilles can have both horizontal and vertical front blade alignment. The second row of blades is always perpendicular to the first row. The blades' axial pitch is 20 mm.

Mounting

The NOVA-C diffusion grille is intended to be mounted directly onto round ducts using countersunk screws.

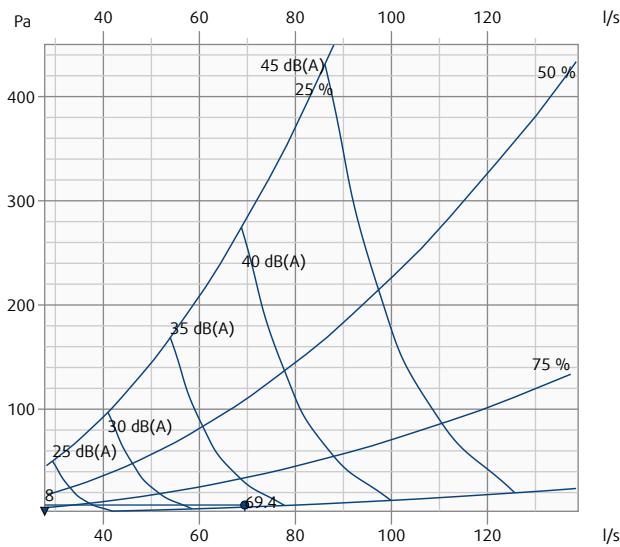
Configuration

Parameter	Value
Length	425
Height	75
Crank type	NOVA-C (one bend on 71°)
Rows	Double-row
Type of regulation	R1
Blades	Vertical
Surface finish	Galvanized steel

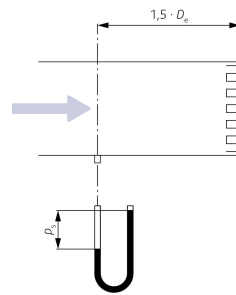
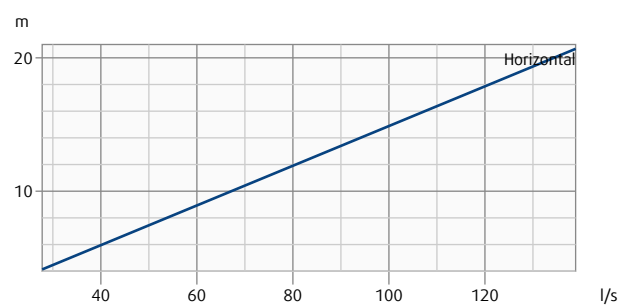
Calculation

Pressure drop & sound power level (A-weighted)

Total sound power level (A-weighted) - Discharged into room



Throw length (terminal velocity 0.2 m/s)



Parameter	Value	
Air flow	69.4	l/s
Air face velocity	2.2	m/s
Pressure drop	8	Pa
Room temperature	20	°C
Supply temperature	20	°C
Damper setting	97	%
Throw length (straight trajectory)	10.3	m
Total sound power level - Discharged into room	44	dB
Total sound power level (A-weighted) - Discharged into room	33	dB(A)
Total sound pressure level (10 m ² room absorption, A-weighted)	29	dB(A)

Total sound power level - Discharged into room									
	Hz	63	125	250	500	1k	2k	4k	8k
L _W	dB	42	34	35	33	25	19	19	24
L _{WA}	dB(A)	14	19	27	29	25	20	20	23

NOVA-C-2-425x75-R1-V-ZN

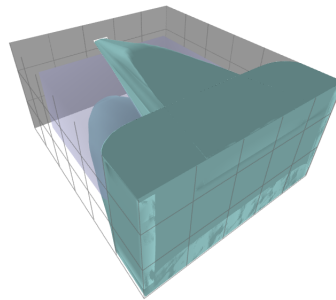
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Flow pattern

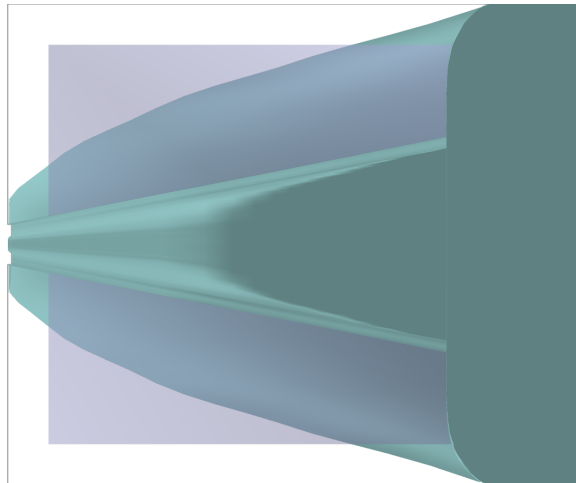
Room width (X): 6.000 m
Room depth (Y): 5.000 m
Room height (Z): 2.800 m

Position X: 0.000 m
Position Y: 2.500 m
Position Z: 2.240 m

Custom



Top

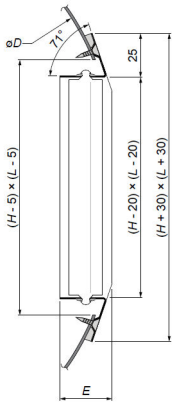


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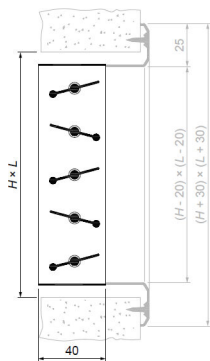
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Dimensions

Dimensions



Dimensions	Value (mm)
L	425
H	75
E	54
min $\varnothing D$	150
max $\varnothing D$	450



Dimensions	Value (mm)
L	1275
H	225

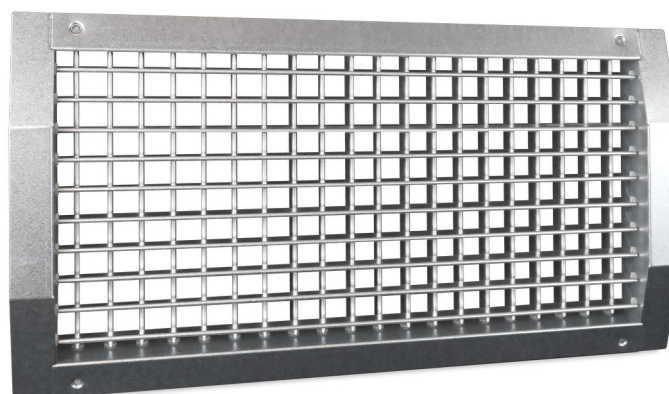
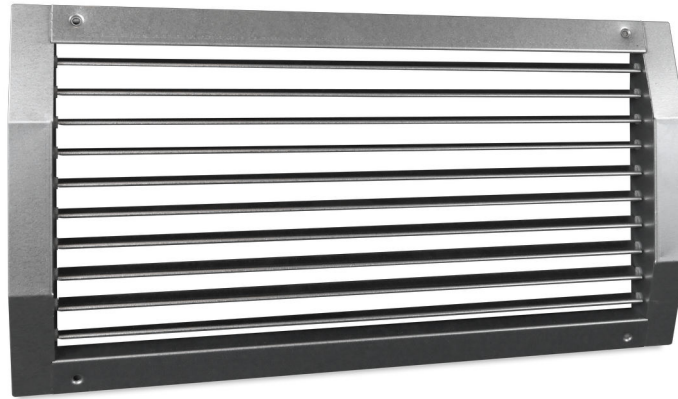
Weight

Part	Weight (kg)
NOVA-C-2-425x75-R1-V-ZN	1.37

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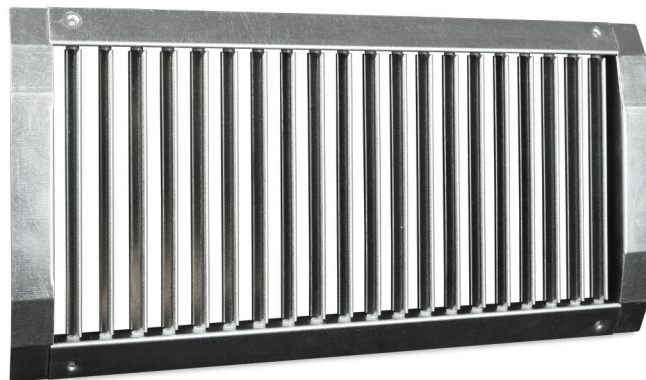
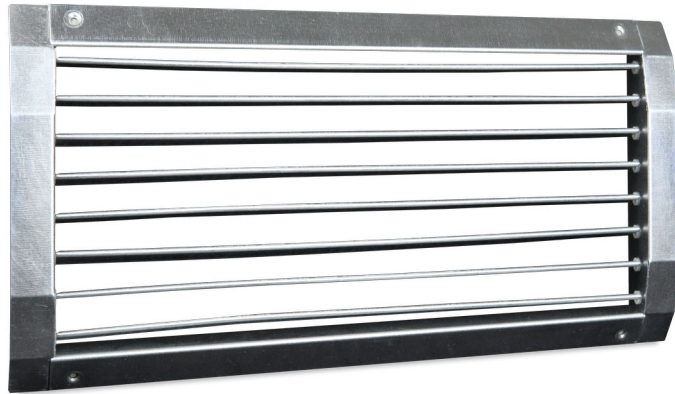
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Gallery



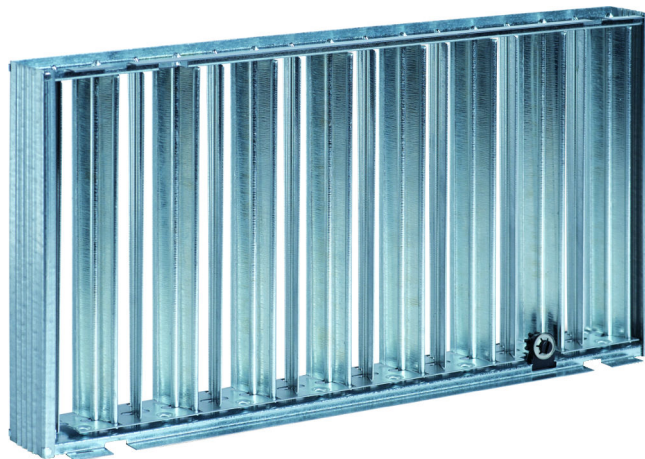
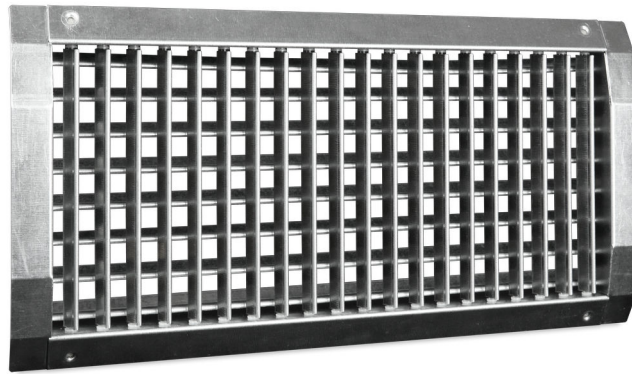
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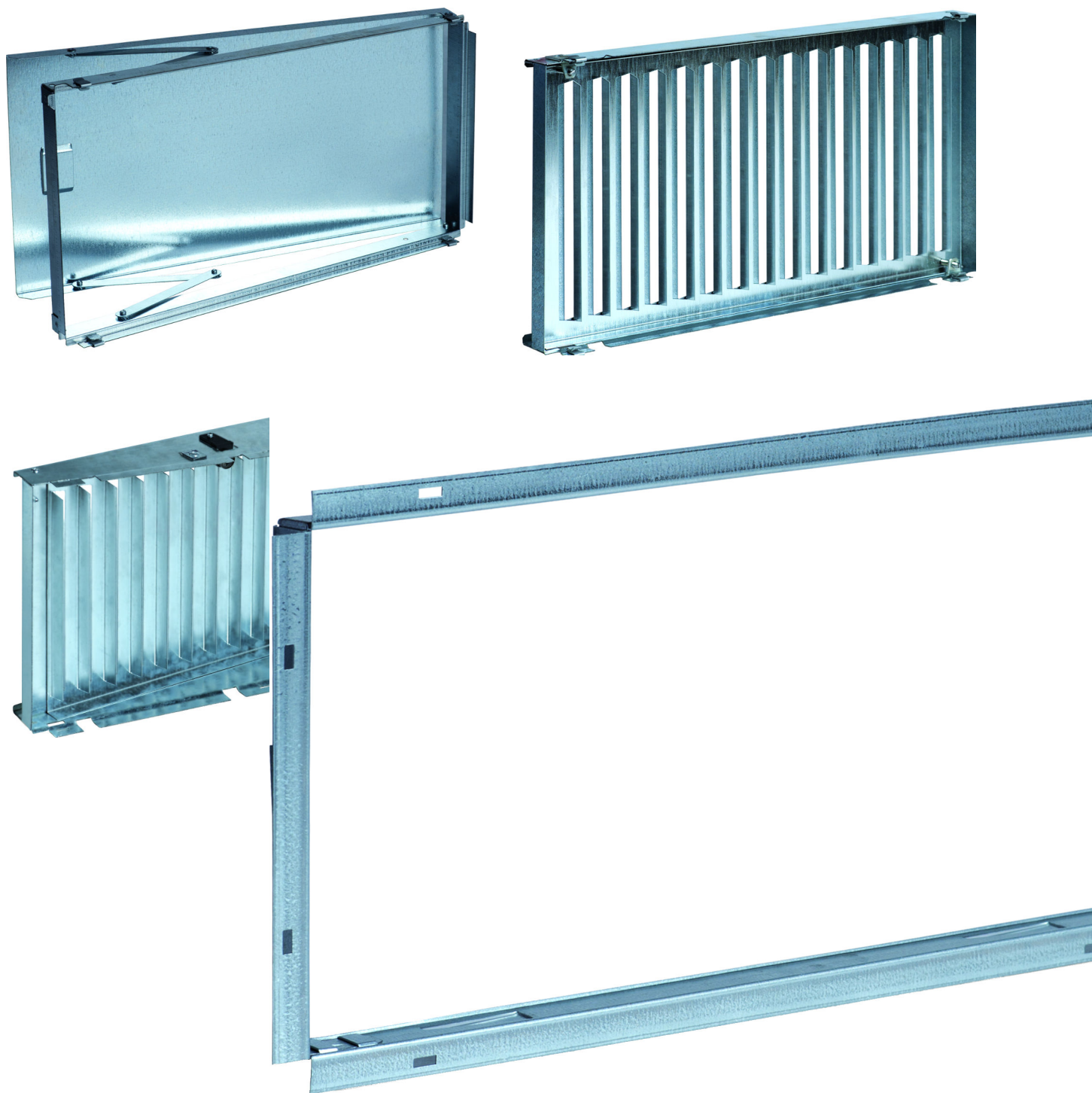
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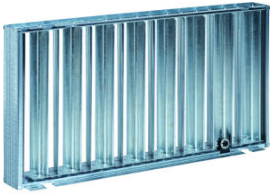
Documents

[Catalogue_NOVA_grilles_EN_202004 \(en-GB\)](#)

[DeclarationOfConformity_NOVA-C,_CN_EN \(en-GB\)](#)

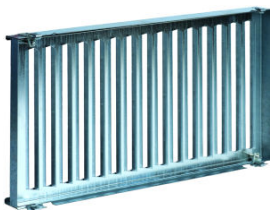
Accessories

NOVA-R1



Damper for the NOVA Series

NOVA-R3



Damper for the NOVA Series

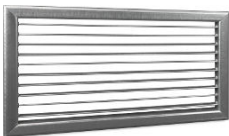
Associated products

NOVA-A



Adjustable Grille

NOVA-B



Adjustable Grille