

# CAP-G-160-25-SW

Article no.: 160083

Accessories:

THOR-125-160 (66759)



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

## Description

CAP-G is a ceiling diffuser with directionally adjustable nozzles. This enables functionality in a vast range of operation modes like horizontal, vertical, diagonal, single- or multi-directional and swirl for both, cooling and heating. Typical installation sites are offices, hospitals, public and business buildings etc. The installation height is up to 4m. It is possible to remove the diffuser face to access the duct system and for easy cleaning and service. Pull the front plate one step out from the main body to create an air gap around the diffuser increasing the flow capacity. Max temperature difference for cooled air  $\Delta T$  12 K.

## Design

The diffuser is made of powder paint coated galvanized steel sheet. The nozzles are ABS Plastics. The diffuser plate is adjustably attached to the base with circular tight connection.

## Mounting

The diffuser is specially designed for flush mounting in false ceiling. By opening a square hole in the ceiling slab the diffuser back box can be completely recessed into the opening onto the metal flange. The flange, which is part of the back box, is used to cover the edges of the opening. The diffuser is fastened to the duct or plenum box THOR from the inside of the spigot by screws or pop rivets. The front plate with the nozzles is easily detached from the back box by gently inserting a screwdriver in openings on the side after which the two parts are bent apart. In the same fashion a small extra air gap can be created around the diffuser.

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## Configuration

Parameter	Value
Dimension	CAP-G-160-25
Surface finish	Signal white (RAL9003, gloss 30%)
Discharge	Radial air flow
Accessories	THOR plenum box

# CAP-G-160-25-SW

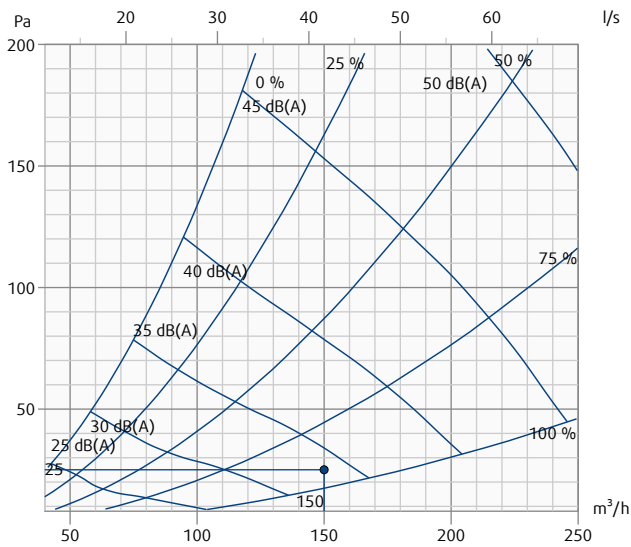
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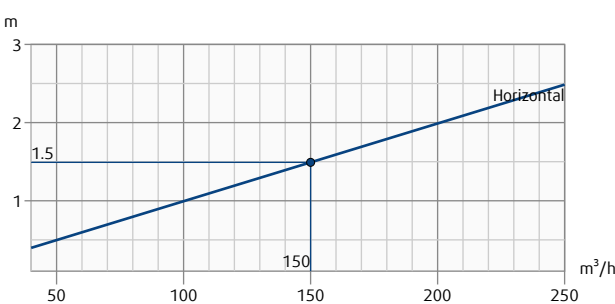
## Calculation

### 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	150	m³/h
Pressure drop	25	Pa
Room temperature	22	°C
Supply temperature	16	°C
Damper setting	93	%
K-factor (valid for l/s)	9.2	
Balancing pressure	21	Pa
Throw length (straight trajectory)	1.5	m
Total sound power level - Discharged into room	45	dB
Total sound power level (A-weighted) - Discharged into room	33	dB(A)
Total sound pressure level (10 m² room absorption, A-weighted)	29	dB(A)

Total sound power level - Discharged into room									
	Hz	63	125	250	500	1k	2k	4k	8k
L <sub>W</sub>	dB	38	42	37	32	24	19	18	23
L <sub>WA</sub>	dB(A)	12	25	27	29	24	20	19	22

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## Flow pattern

Room width (X): 4.000 m

Room depth (Y): 2.800 m

Room height (Z): 3.000 m

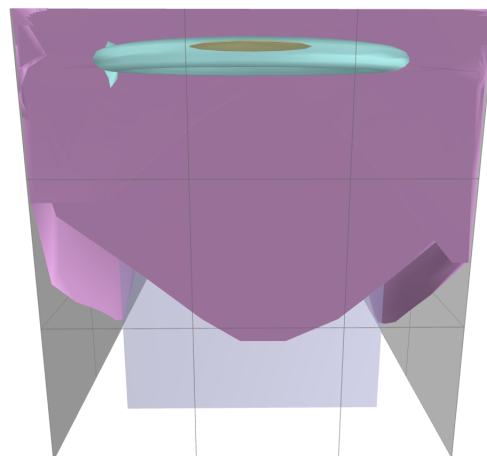
Position X: 2.000 m

Position Y: 1.400 m

Position Z: 3.000 m

Angle: 0 °

**Custom**



0.2 m/s

0.1 m/s

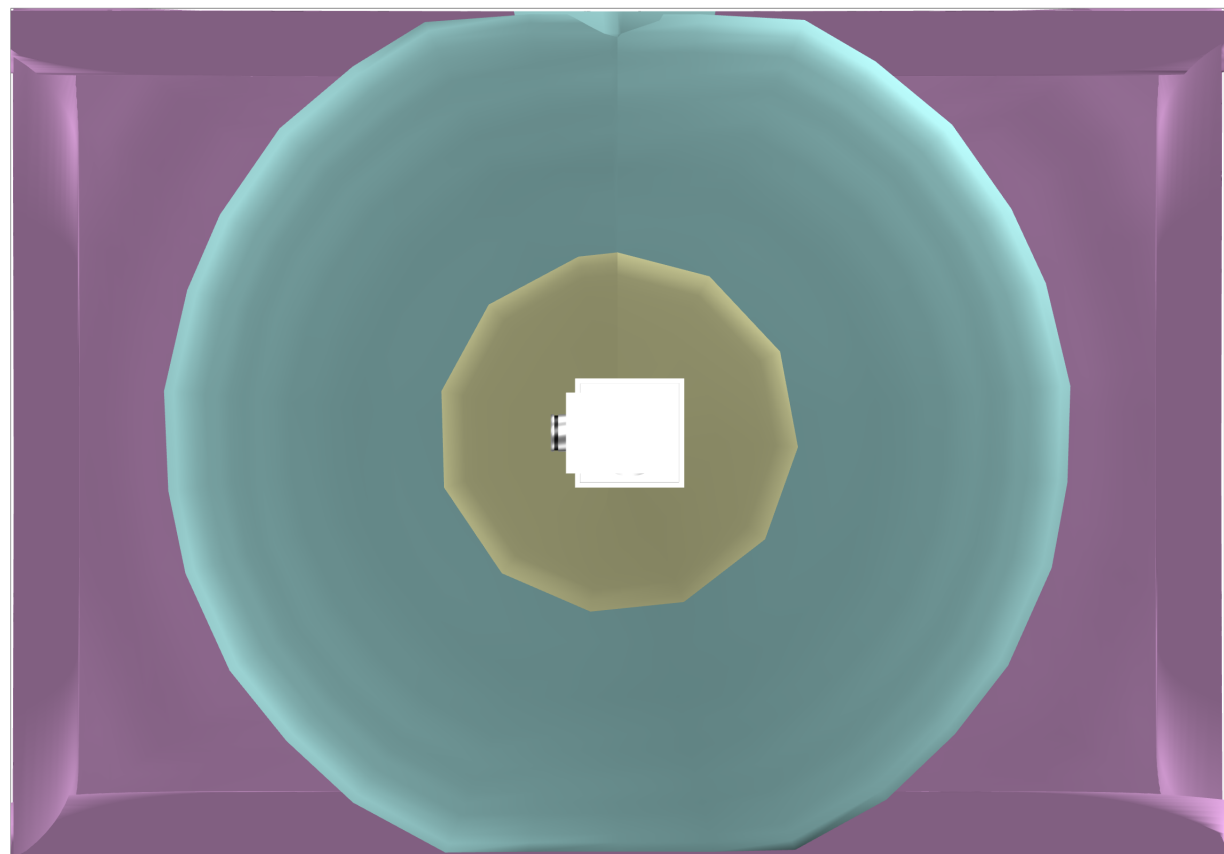
0.5 m/s

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Top



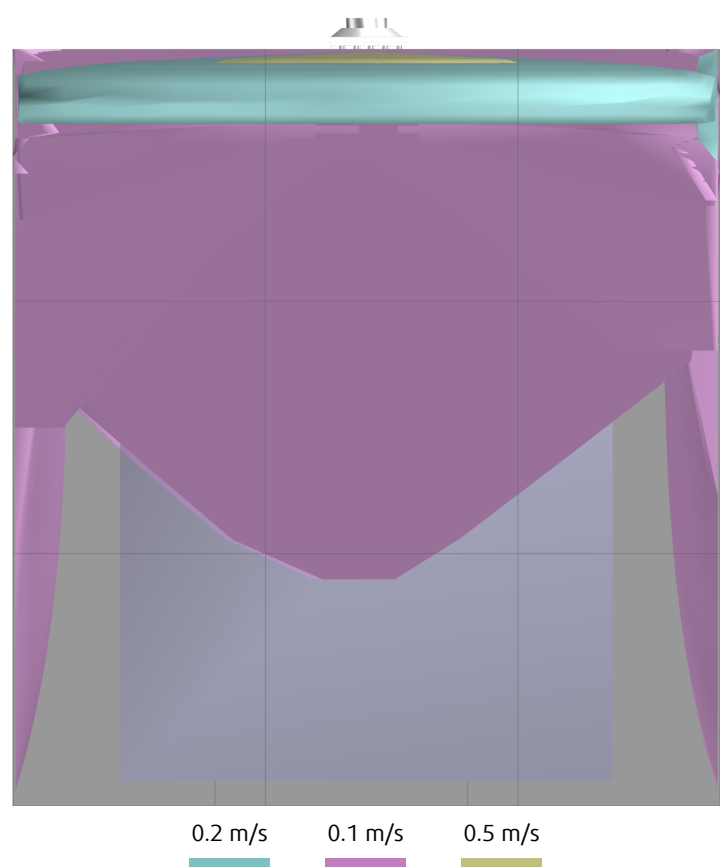
0.2 m/s      0.1 m/s      0.5 m/s

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Left

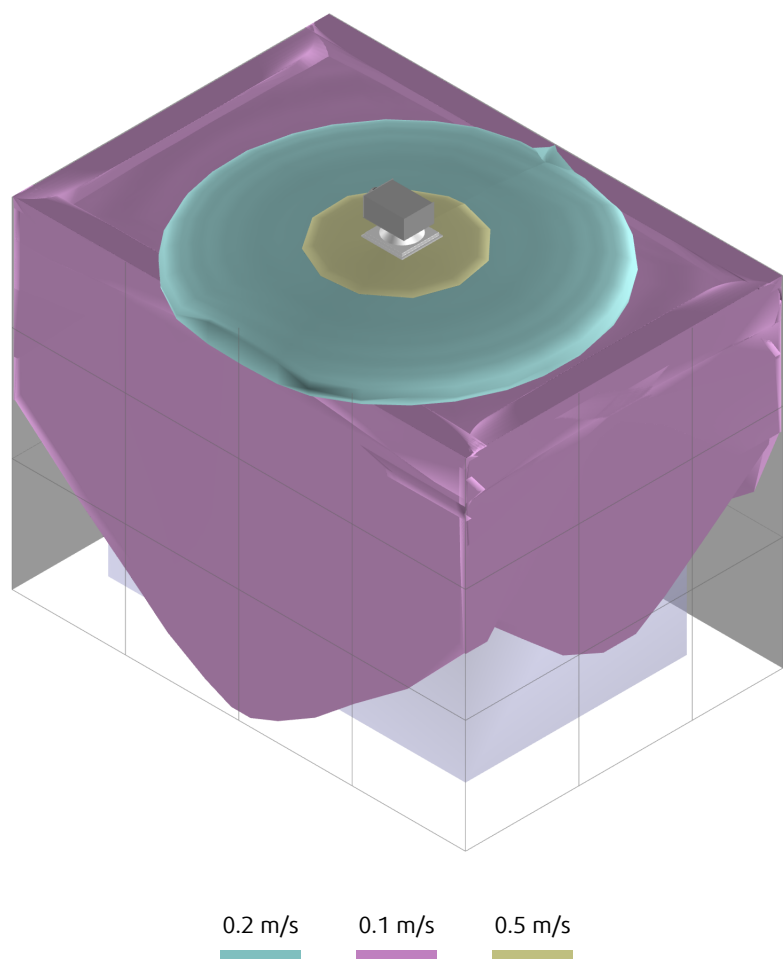


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Southeast



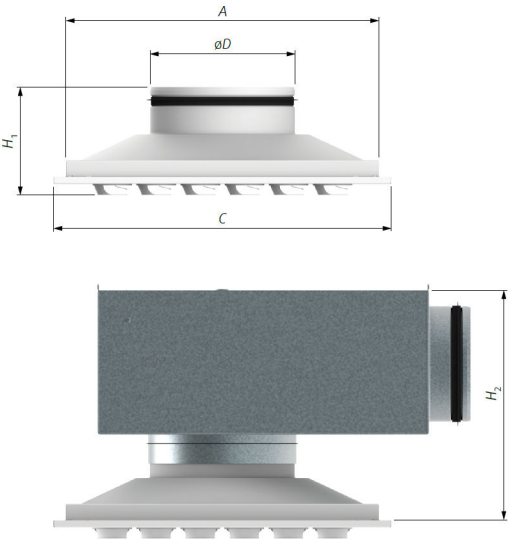
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## Dimensions

### Dimensions



Dimensions	Value (mm)
A	326
C	360
H1	122
H2	261
øD	159

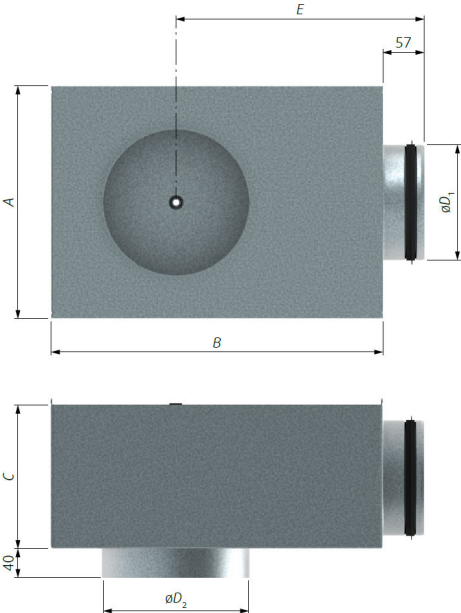


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Dimensions	Value (mm)
A	250
B	340
C	160
$\varnothing D_1$	124
$\varnothing D_2$	161
E	210

## Weight

Part	Weight (kg)
CAP-G-160-25-SW	2.00
THOR-125-160	2.70

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## Documents

[DataSheet\\_CAP-G\\_EN\\_201906](#)

[DeclarationOfConformity\\_CAP-G\\_EN](#)

[InstalMaintenOperInstr\\_PP-59\\_CAP-G\\_201603](#)

[UserManual\\_CAP-G\\_201906](#)