



## Description

TST is a circular supply diffuser. The distribution pattern can be altered and the gap width is adjustable.

The TST is a circular supply diffuser for ceiling installation. The two-part diffuser unit can be adjusted to provide the desired throw. A shielding device is included which can be used to alter the distribution pattern to a directional (180°) pattern.

## Design

The TST is manufactured from galvanized sheet metal, with a white powder-coated finish (RAL 9003, gloss 30%). The TST is available with the following diameters:  $\varnothing$  100,  $\varnothing$  125,  $\varnothing$  160,  $\varnothing$  200,  $\varnothing$  250 and  $\varnothing$  315. This device can be used for extract air.

## Mounting

The diffuser is installed directly onto the spiral duct and fixed with pop rivets. If the diffuser is fitted to a THOR plenum box.

# TST-160-W

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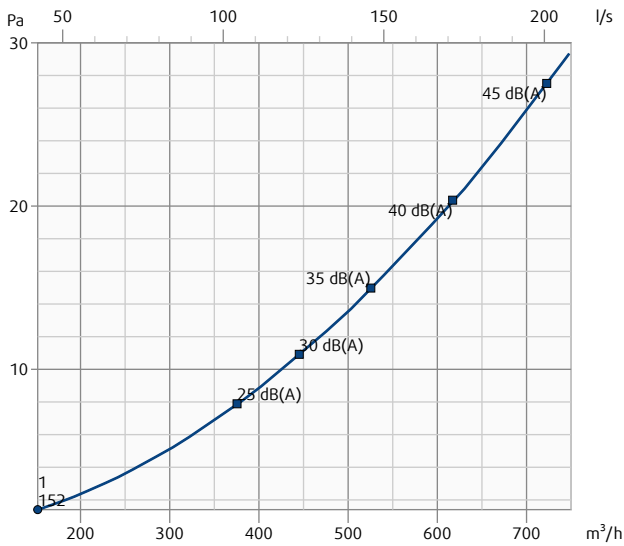
## Configuration

Parameter	Value
Size	160
Accessories	Not selected
Surface finish	White (RAL9010, gloss 30%)

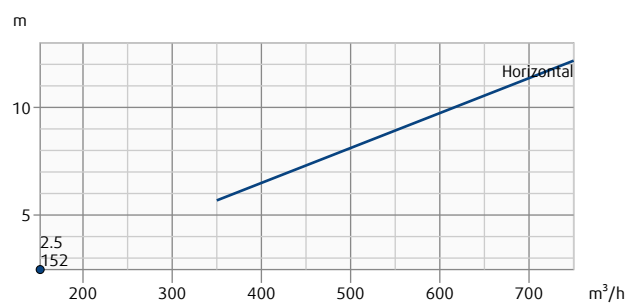
## Calculation

### Pressure drop & sound power level (A-weighted)

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



### Throw length (terminal velocity 0.2 m/s)



Measured with 30 mm gap.

Parameter	Value	Unit
Air flow	152	m³/h
Pressure drop	1	Pa
Room temperature	20	°C
Supply temperature	20	°C
Throw length (straight trajectory)	2.5	m
Total sound power level - Discharged into room	22	dB
Total sound power level (A-weighted) - Discharged into room	<20	dB(A)
Total sound pressure level (10 m² room absorption, A-weighted)	<20	dB(A)

Total sound power level (A-weighted) - Discharged into room									
	Hz	63	125	250	500	1k	2k	4k	8k
Lw	dB	21	<5	<5	<5	<5	<5	<5	<5
LWA	dB(A)	<5	<5	<5	<5	<5	<5	<5	<5

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## Flow pattern

Room width (X): 4.0 m

Room depth (Y): 3.0 m

Room height (Z): 2.8 m

Position X: 2.0 m

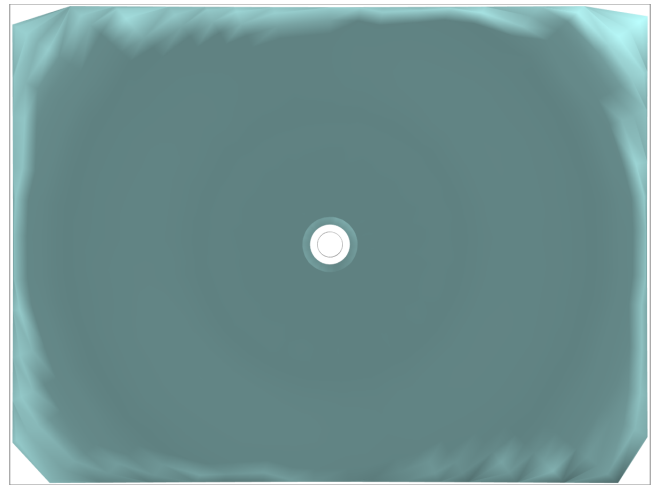
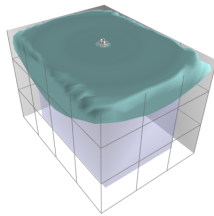
Position Y: 1.5 m

Position Z: 2.8 m

Angle: 0 °

Custom

Top



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## Dimensions & weight

### Dimensions



Dimensions	Value (mm)
Hmax	50
Hmin	30
$\varnothing J$	249
$\varnothing K$	159
$\varnothing L$	167
Rl	105
Length	0
Width	0
Height	0

### Weight

Part	Weight (kg)
TST-160	1.1
operating_weight	0.0
shipping_weight	0.0

# TST-160-W

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## Gallery



## Documents

[DeclarationOfConformity\\_TST\\_EN \(en-GB\)](#)

[InstalMaintenOperInstr\\_PP-99-01\\_TST\\_EN \(en-GB\)](#)

[UserManual\\_TST\\_EN\\_201309 \(en-GB\)](#)

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## Associated products

[TSR](#)



Ceiling Diffuser with PB

[TSP](#)



Perforated Ceiling Diffuser with PB

[TSK](#)



Perforated Ceiling Diffuser



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## Accessories