

TFFC 080 SUPPL VALVE RAL9016

Item no. 19900

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Description

Function

The TFFC is a circular supply air valve for ceiling installation. The TFFC consists of a outlet frame cone and central diffuser deflector. The supply air valves are widely used in low volume fresh air or conditioned air supply to small to medium rooms.

By rotating the central diffuser assembly, the throw and pressure drop can be adjusted steplessly. Center diffuser assembly can be locked in place once the ideal performance is achieved.

Design

The TFFC is manufactured from sheet steel powder coated to white RAL-9016. Available in the following diameters: Ø80, Ø100, Ø125, Ø150, Ø160 and Ø200. With each air valve a mounting ring is supplied as standard.



USE

It is recommended that the TFFC to be used only for supply air, if used in Extract air application, the performance data will no longer be valid and pressure losses will be much higher than anticipated.

Mounting

The TFFC is designed to fit directly into the mounting frame it is provided with. The mounting frame has internal grooves to provide easy installation on site by 1/4 turn of the air valve into the mounting ring.

The mounting frame or directly onto the rigid duct or false ceiling then and connected to the flexible ducting.

Dimensions

| | d | D | c |
|---------------|-----|-----|----|
| EFFC/TFFC 080 | 78 | 106 | 50 |
| EFFC/TFFC 100 | 98 | 135 | 50 |
| EFFC/TFFC 125 | 123 | 160 | 50 |
| EFFC/TFFC 150 | 149 | 191 | 50 |
| EFFC/TFFC 160 | 159 | 196 | 50 |
| EFFC/TFFC 200 | 198 | 238 | 50 |

Documentation

Acoustics

Sound attenuation, ΔL (dB)

| TFFC | Mid-frequency band, Hz | | | | | | | |
|------|------------------------|-----|-----|-----|----|----|----|----|
| | 63 | 125 | 250 | 500 | 1K | 2K | 4K | 8K |
| 80 | 24 | 19 | 15 | 11 | 2 | 3 | 6 | 7 |
| 100 | 22 | 17 | 13 | 10 | 2 | 2 | 7 | 8 |
| 125 | 18 | 16 | 12 | 8 | 3 | 3 | 7 | 8 |
| 150 | 18 | 15 | 11 | 9 | 4 | 5 | 7 | 9 |
| 160 | 17 | 14 | 10 | 8 | 4 | 7 | 8 | 9 |
| 200 | 16 | 13 | 9 | 7 | 5 | 9 | 8 | 8 |

Sound power level, L_W

$L_W(\text{dB}) = L_{PA} + K_{OK}$ (L_{PA} = diagram, K_{OK} = table)

Correction factor K_{OK}

| TFFC | Mid-frequency band, Hz | | | | | | | |
|-----------|------------------------|-----|-----|-----|----|-----|-----|-----|
| | 63 | 125 | 250 | 500 | 1K | 2K | 4K | 8K |
| 80 | 16 | 9 | 6 | 0 | -3 | -11 | -16 | -20 |
| 100 | 19 | 8 | 9 | 1 | -7 | -15 | -19 | -21 |
| 125 | 24 | 10 | 4 | -2 | -8 | -15 | -20 | -19 |
| 150 | 23 | 11 | 5 | -2 | -9 | -14 | -19 | -21 |
| 160 | 23 | 11 | 5 | -2 | -9 | -14 | -18 | -23 |
| 200 | 19 | 9 | 8 | 0 | -7 | -13 | -17 | -21 |
| Tolerance | ±6 | ±5 | ±2 | ±2 | ±2 | ±2 | ±2 | ±3 |

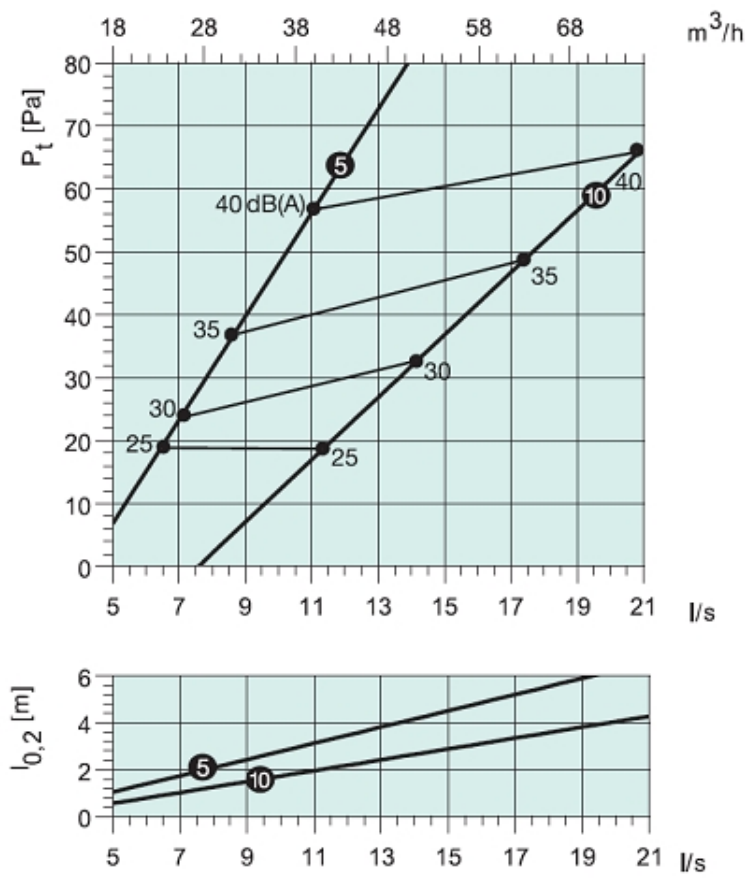
Diagram

The diagram shows

Air volume (l/s and m³/h), total pressure ΔP_t (Pa)

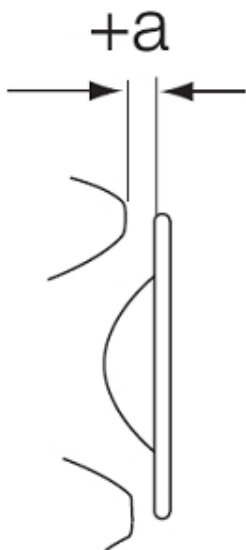
Throw l_{0,2} (m), with terminla velocity of 0.2 (m/s)

Sound pressure level L_{PA}



a= air gap in mm

For air gaps measurements of 5 and 10 mm



Specification text