# TINO

Its versatile installation options make the TINO series ideal for many types of ventilation solutions. It becomes part of the interior in the same way as a wall lamp or audio centre, so you can view it as an interior design element. TINO is an inconspicuous part of your home ventilation.

The TINO series includes a wide range of supply air diffusers, all with an excellent mixing ratio up to channel size Ø200 mm. TINO diffusers can even be installed further away from the surface of the ceiling without causing a feeling of draught.



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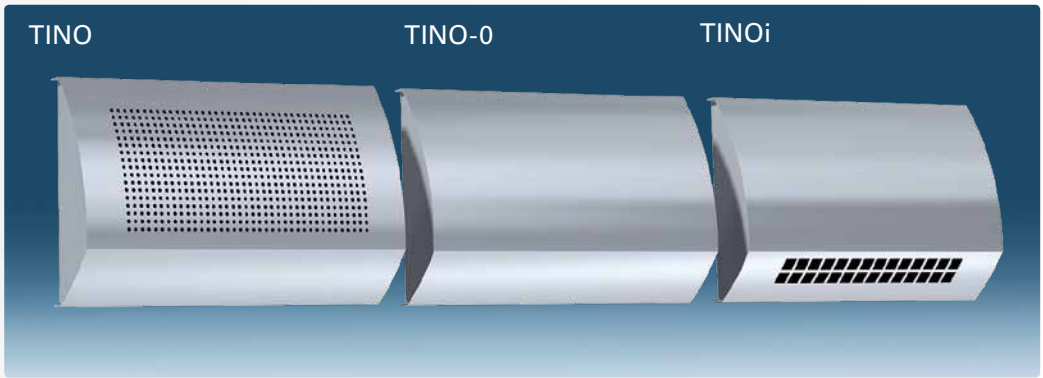
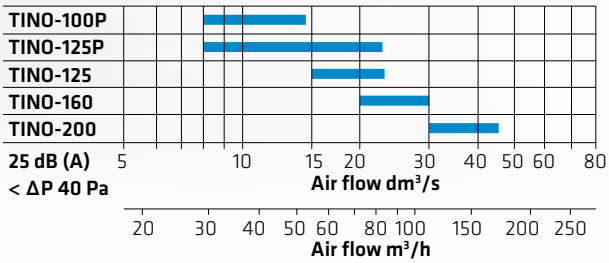
# TINO

The **TINO** series includes the similarly designed exhaust air vent **TINOi** and a blind design element **TINO-0.** TINO is a perfect choice if you want to have the same design in rooms of different sizes and for varying air volumes. The construction height of the series is very low, and it features reliable measurement combined with quick and precise adjustment.

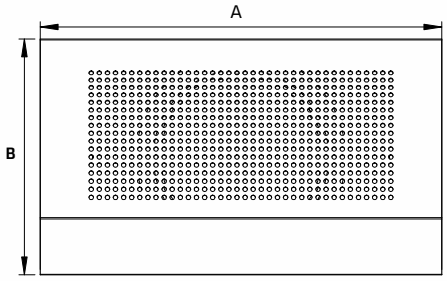


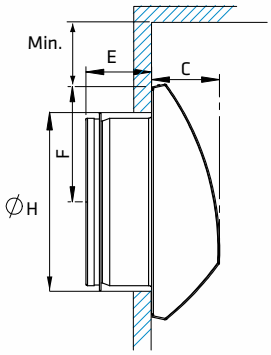

## QUICK GUIDE

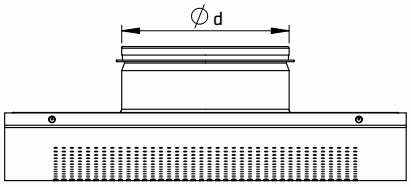


Also available with an attractive square perforation design (model **TINOq**)

## DIMENSIONS




Supply air diffusers

| Model | Ød | ØH | AxB | C | E | F | Min | Weight, kg |
|---|---|---|---|---|---|---|---|---|
| TINO-100P | 100 | 125 | 255x150 | 42 | 45 | 68 | 50 | 0,7 |
| TINO-125P | 125 | 150 | 297,5x175 | 50 | 45 | 80,5 | 50 | 0,9 |
| TINO-125 | 125 | 140 | 297,5x175 | 50 | 45 | 80,5 | 50 | 0,9 |
| TINO-160 | 160 | 175 | 357x210 | 62 | 45 | 98 | 50 | 1,3 |
| TINO-200 | 200 | 215 | 425x250 | 76,5 | 45 | 118 | 50 | 1,7 |
| TINO-100q | 100 | 115 | 255x150 | 42 | 45 | 68 | 50 | 0,7 |
| TINO-125q | 125 | 140 | 297,5x175 | 50 | 45 | 80,5 | 50 | 0,9 |
| TINO-160q | 160 | 175 | 357x210 | 62 | 45 | 98 | 50 | 1,3 |

TINO-D is designed for use with flexible plastic ducts. Connections 2 x Ø75. Other dimensions same as TINO-100.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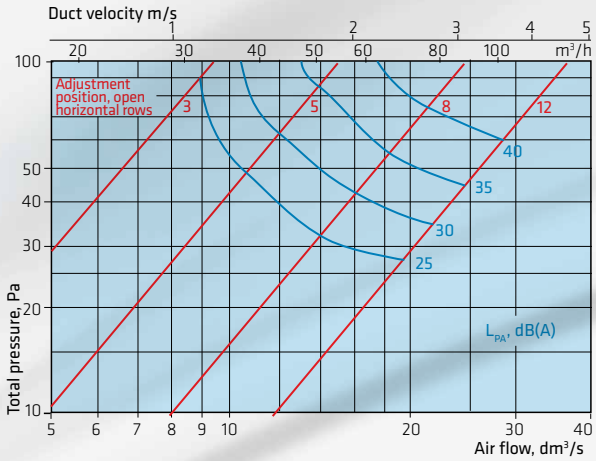
## TINO-100P

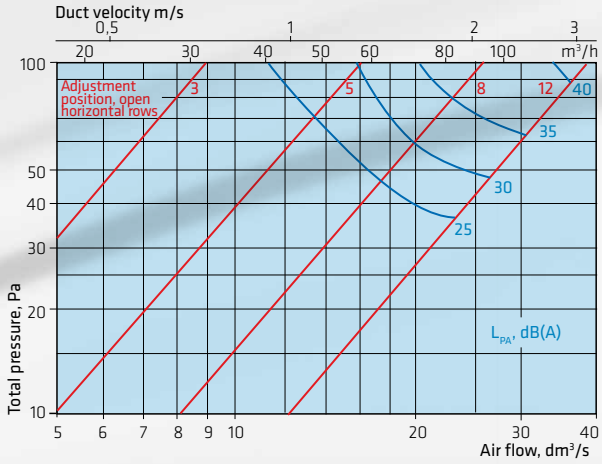



| Sound power level Lokt | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Size** | f, Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| **TINO-100P** | K, dB | -7 | -5 | -3 | -1 | 2 | -6 | -15 | -19 |

| Sound attenuation | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Size** | f, Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| **TINO-100P** | ΔL, dB | 22 | 16 | 11 | 5 | -1 | 4 | 2 | 3 |

Lwokt = LpA + K

## TINO-125P

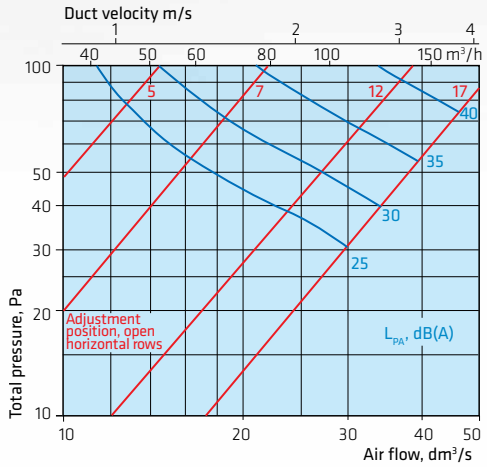



| Sound power level Lokt | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Size** | f, Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| **TINO-125P** | K, dB | -14 | -4 | -4 | -1 | 1 | -6 | -9 | -12 |

| Sound attenuation | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Size** | f, Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| **TINO-125P** | ΔL, dB | 19 | 14 | 9 | 1 | 3 | 4 | 3 | 4 |

Lwokt = LpA + K

## TINO-125

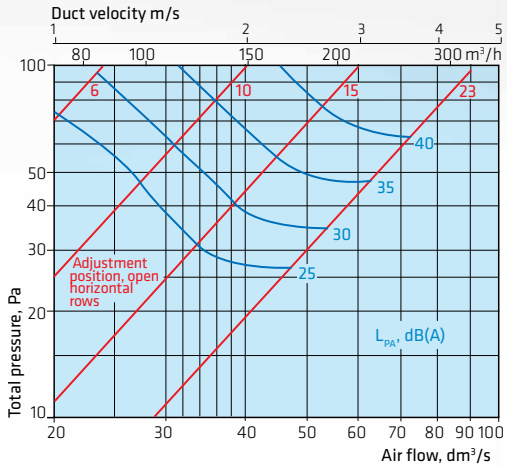



| Sound power level Lokt | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Size** | f, Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| **TINO-125** | K, dB | -11 | -4 | -4 | -1 | 2 | -6 | -12 | -16 |

| Sound attenuation | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Size** | f, Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| **TINO-125** | ΔL, dB | 20 | 14 | 9 | 1 | 1 | 2 | 2 | 2 |

Lwokt = LpA + K

## TINO-160




| Sound power level Lokt | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Size** | f, Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| **TINO-160** | K, dB | -6 | -3 | -1 | 2 | 0 | -5 | -14 | -16 |

| Sound attenuation | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Size** | f, Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| **TINO-160** | ΔL, dB | 18 | 12 | 6 | 2 | 3 | 2 | 2 | 2 |

Lwokt = LpA + K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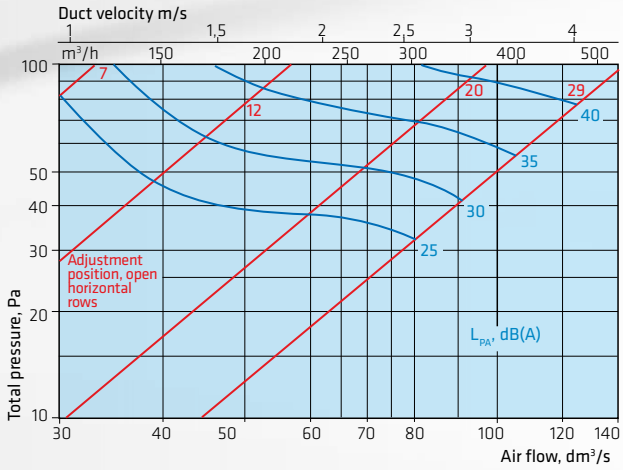
## TINO-200

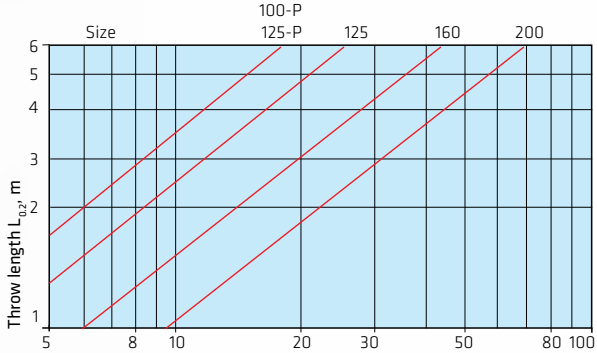



| Sound power level Lokt | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Size** | f, Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| **TINO-200** | K, dB | -2 | -4 | 0 | 3 | 2 | -4 | -9 | -10 |

| Sound attenuation | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Size** | f, Hz | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| **TINO-200** | ΔL, dB | 15 | 10 | 4 | 0 | 2 | 2 | 2 | 2 |

Lwokt = LpA + K

## Throw length



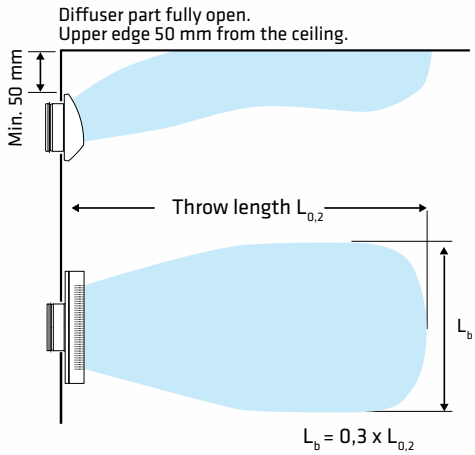

Throw length increase coefficient:
2 rows closed = 1,1 x
4 rows closed = 1,25 x
6 rows closed = 1,4 x

## Airborne sound insulation D, n, e, w, dB

Supply air

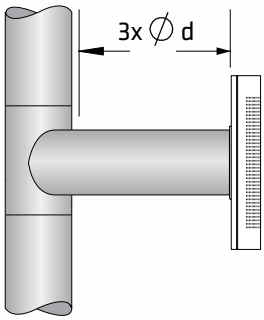
| Size | TINO | TINO+VAL | TINO+VAM |
|---|---|---|---|
| **100** | 41 | 60 | 60 |
| **125** | 41 | 65 | 60 |
| **160** | 41 | 62 | 56 |
| **200** | 41 | 59 | 62 |

## Throw pattern




## Sound attenuation

Sound level will increase if cover distance is below 3 x Ø d:
- after bend +4 dB (A)
- after T joint +8 dB (A)





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