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Short description

Diagonal fan for duct installation, DN 250

Application examples

Machine extraction unit, Workplace air extraction system, Production site, Storage facility, Laboratory

Article number 0080.0656

Technical data

| | |
|---|--|
| Air flow volume | 1.700 m ³ /h |
| Air volume _{nom} | 1.119 m ³ /h (in opt. efficiency) |
| Pressure p _{fs, nom} | 274 Pa (in opt. efficiency) |
| Rotating speed n _{nom} | 2.824 1/min (in opt. efficiency) |
| Rotating speed | 2.890 1/min |
| Impeller type | diagonal |
| Speed controllable | ✓ |
| Type of voltage | Alternating current |
| Rated voltage | 230 V |
| Frequency | 50 Hz |
| Nominal output | 170 W (in opt. efficiency) |
| I _{nom} | 0,8 A (in opt. efficiency) |
| I _{max} | 1 A |
| Degree of protection | IP X4 |
| Insulation class | F |
| Mains cable | 3 x 1,5 mm ² |
| Installation position | vertical / horizontal |
| Housing material | Sheet steel, galvanised |
| Colour | Silver grey |
| Weight | 6,5 kg |
| Weight including packaging | 6,95 kg |
| Nominal size | 250 mm |
| Width | 296 mm |
| Height | 259 mm |
| Depth | 278 mm |
| Width with packaging | 310 mm |
| Height with packaging | 270 mm |
| Depth with packaging | 305 mm |
| Airstream temperature at I _{Max} | 55 °C |

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| | |
|---------------------|---------------|
| Ambient temperature | 55 °C |
| Packing unit | 1 piece |
| Range | C |
| GTIN (EAN) | 4012799806561 |

Technical data according to ErP in Best Efficiency Point (BEP)

| | |
|--|--|
| Total efficiency η | 44,9 % |
| Measurement category | A |
| Efficiency category | static |
| Efficiency level N | 63,4 |
| VSD necessary | No |
| Year of manufacture | see rating plate |
| Manufacturer's name / official registration number / manufacturer's place of establishment | Maico Elektroapparate-Fabrik GmbH / Freiburg registration court, HRB 601233 / Villingen-Schwenningen |
| Art. No. | 0080.0656 |
| P_{BEP} / Air volume $_{BEP}$ / $P_{fs, BEP}$ | 0,174 kW / 1.119 m ³ /h / 274 Pa |
| n_{BEP} | 2.824 1/min |
| Specific ratio | ≈ 1 |
| Information about dismantling and disposal | see mounting instructions |
| Information about installation, operation and repairs | see mounting instructions |
| Objects used to measure efficiency which are not described by the measurement category | - |
| I_{BEP} | 0,8 A |
| Sound power level $_{L_{WA5}}$ | 71 dB(A) |

Sound power level in octave range

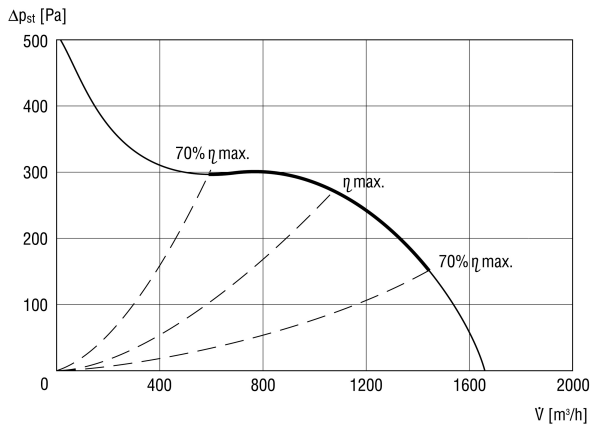
| | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz | Total |
|---|-------|--------|--------|--------|-------|-------|-------|-------|-------|
| L_{WA2}, Level 2 (dB(A)) | – | 38 | 44 | 45 | 48 | 46 | 41 | 37 | 53 |
| L_{WA2}, Level 3 (dB(A)) | – | 37 | 46 | 43 | 47 | 46 | 42 | 37 | 52 |
| L_{WA2}, Level 4 (dB(A)) | – | 36 | 47 | 45 | 48 | 47 | 43 | 38 | 53 |
| L_{WA2}, Level 5 (dB(A)) | – | 38 | 46 | 46 | 49 | 49 | 46 | 40 | 55 |
| L_{WA5}, Level 2 (dB(A)) | – | 57 | 61 | 70 | 69 | 66 | 62 | 55 | 74 |
| L_{WA5}, Level 3 (dB(A)) | – | 38 | 54 | 62 | 66 | 66 | 64 | 54 | 71 |
| L_{WA5}, Level 4 (dB(A)) | – | 35 | 55 | 61 | 66 | 67 | 68 | 56 | 72 |

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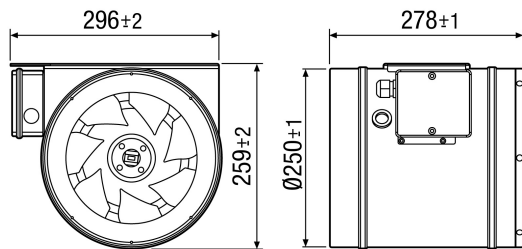
| | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1 kHz | 2 kHz | 4 kHz | 8 kHz | Total |
|---------------------------------------|-------|--------|--------|--------|-------|-------|-------|-------|-------|
| L _{WA5} , Level 5 (dB(A)) | - | 39 | 59 | 65 | 68 | 69 | 71 | 60 | 75 |
| L _{WA6} , Level 2 (dB(A)) | - | 58 | 65 | 72 | 75 | 71 | 64 | 57 | 78 |
| L _{WA6} , Level 3 (dB(A)) | - | 41 | 64 | 68 | 71 | 69 | 64 | 54 | 75 |
| L _{WA6} , Level 4 (dB(A)) | - | 39 | 66 | 70 | 72 | 70 | 67 | 56 | 77 |
| L _{WA6} , Level 5 (dB(A)) | - | 41 | 69 | 72 | 74 | 73 | 70 | 59 | 79 |

L_{WA2}= housing sound power level in dB.
 L_{WA5}= free inlet sound power level in dB.
 L_{WA6}= free outlet sound power level in dB.
 Measured at optimised efficiency

Characteristic curve



Dimensioned drawing [mm]



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