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Short description

Diagonal fan for duct installation, DN 450

Application examples

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

Article number	0080.0661

Technical data

Air flow volume	5.200 m³/h
Air volume$_{nom}$	3.500 m³/h (in opt. efficiency)
Pressure $p_{fs, nom}$	246 Pa (in opt. efficiency)
Rotating speed n_{nom}	1.435 1/min (in opt. efficiency)
Rotating speed	1.440 1/min
Impeller type	diagonal
Speed controllable	✓
Type of voltage	Alternating current
Rated voltage	230 V
Frequency	50 Hz
Nominal output	410 W (in opt. efficiency)
I_{nom}	2,3 A (in opt. efficiency)
I_{max}	3,1 A
Degree of protection	IP X4
Insulation class	F
Mains cable	3 x 1,5 mm²
Installation position	vertical / horizontal
Housing material	Sheet steel, galvanised
Colour	Silver grey
Weight	17,5 kg
Weight including packaging	18,79 kg
Nominal size	450 mm
Width	467 mm
Height	463 mm
Depth	467 mm
Width with packaging	505 mm
Height with packaging	505 mm
Depth with packaging	470 mm
Airstream temperature at I_{Max}	80 °C

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Ambient temperature	80 °C
Packing unit	1 piece
Range	C
GTIN (EAN)	4012799806615

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

Total efficiency η	50 %
Measurement category	A
Efficiency category	static
Efficiency level N	64,2
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.	0080.0661
P_{BEP} / Air volume$_{BEP}$ / $P_{fs, BEP}$	0,445 kW / 3.500 m³/h / 246 Pa
n_{BEP}	1.435 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}	2,3 A
Sound power levelL_{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))	–	67	65	64	68	50	48	37	72
L_{WA2}, Level 3 (dB(A))	–	64	62	62	67	48	46	36	70
L_{WA2}, Level 4 (dB(A))	–	65	64	63	67	50	47	37	71
L_{WA2}, Level 5 (dB(A))	–	66	65	64	68	54	53	41	72
L_{WA5}, Level 2 (dB(A))	–	68	70	67	67	64	58	51	75
L_{WA5}, Level 3 (dB(A))	–	64	67	66	67	65	59	52	73
L_{WA5}, Level 4 (dB(A))	–	63	67	66	67	67	60	54	73

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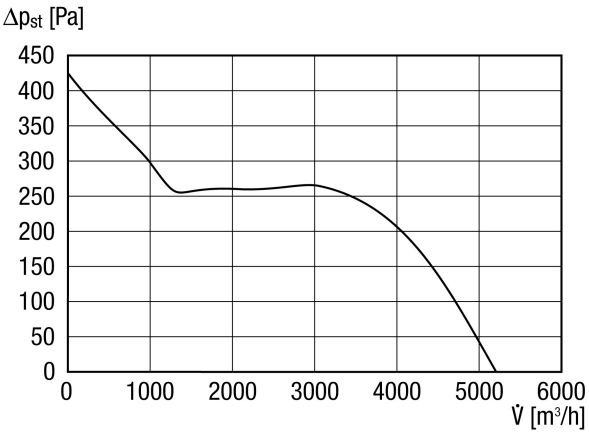
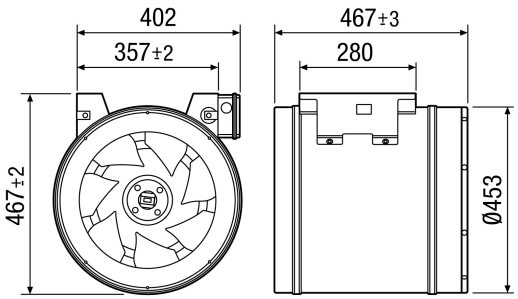
	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Total
L_{WA5}, Level 5 (dB(A))	–	75	71	71	71	70	66	59	79
L_{WA6}, Level 2 (dB(A))	–	75	73	74	72	65	60	52	80
L_{WA6}, Level 3 (dB(A))	–	74	71	73	73	67	61	53	79
L_{WA6}, Level 4 (dB(A))	–	75	72	76	74	69	64	56	81
L_{WA6}, Level 5 (dB(A))	–	77	75	78	76	72	68	60	83

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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