

E DR 31



Short description

Diagonal fan for duct installation, DN 315

Application examples

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

Article number 0080.0657

Technical data

Air flow volume	3.400 m ³ /h
Air volume e_{nom}	2.243 m ³ /h (in opt. efficiency)
Pressure $p_{fs, nom}$	466 Pa (in opt. efficiency)
Rotating speed n_{nom}	2.776 1/min (in opt. efficiency)
Rotating speed	2.800 1/min
Impeller type	diagonal
Speed controllable	✓
Type of voltage	Alternating current
Rated voltage	230 V
Frequency	50 Hz
Nominal output	460 W (in opt. efficiency)
I_{nom}	2,3 A (in opt. efficiency)
I_{max}	3,2 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	14,88 kg
Weight including packaging	15,51 kg
Nominal size	315 mm
Width	349 mm
Height	324 mm
Depth	351 mm
Width with packaging	390 mm
Height with packaging	345 mm
Depth with packaging	360 mm
Airstream temperature at I_{Max}	70 °C

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Ambient temperature	70 °C
Packing unit	1 piece
Range	C
GTIN (EAN)	4012799806578

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

Total efficiency η	52,7 %
Measurement category	A
Efficiency category	static
Efficiency level N	66,2
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.	0080.0657
P_{BEP} / Air volume $_{BEP}$ / $P_{fs, BEP}$	0,515 kW / 2.243 m ³ /h / 466 Pa
n_{BEP}	2.776 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 level $_{L_{WA5}}$	76 dB(A)

Sound power level in octave range

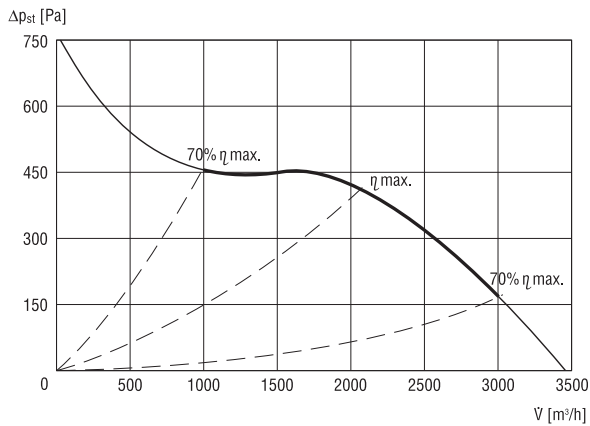
	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Total
L_{WA2}, Level 2 (dB(A))	–	46	50	52	57	55	63	46	61
L_{WA2}, Level 3 (dB(A))	–	44	49	52	56	54	53	47	61
L_{WA2}, Level 4 (dB(A))	–	43	49	54	57	54	53	49	61
L_{WA2}, Level 5 (dB(A))	–	46	51	56	58	55	55	51	63
L_{WA5}, Level 2 (dB(A))	–	62	70	75	75	73	70	62	80
L_{WA5}, Level 3 (dB(A))	–	48	64	70	70	70	69	66	76
L_{WA5}, Level 4 (dB(A))	–	46	66	70	70	71	71	70	78

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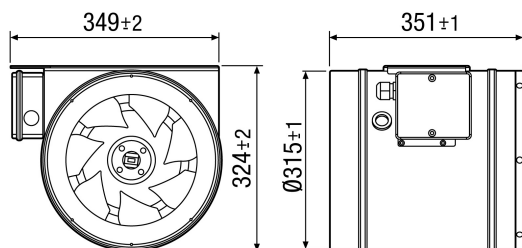
	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Total
L_{WA5}, Level 5 (dB(A))	–	48	71	73	74	74	75	74	81
L_{WA6}, Level 2 (dB(A))	–	66	73	79	81	78	72	64	85
L_{WA6}, Level 3 (dB(A))	–	50	70	75	78	75	71	65	82
L_{WA6}, Level 4 (dB(A))	–	50	73	76	79	77	72	68	83
L_{WA6}, Level 5 (dB(A))	–	50	73	78	80	78	75	70	85

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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