

# EDR 40



## Short description

Diagonal fan for duct installation, DN 400

## Application examples

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

Article number 0080.0660

## Technical data

Air flow volume	3.440 m <sup>3</sup> /h
Air volume $e_{nom}$	2.419 m <sup>3</sup> /h (in opt. efficiency)
Pressure $p_{fs, nom}$	158 Pa (in opt. efficiency)
Rotating speed $n_{nom}$	1.440 1/min (in opt. efficiency)
Rotating speed	1.450 1/min
Impeller type	diagonal
Speed controllable	✓
Type of voltage	Alternating current
Rated voltage	230 V
Frequency	50 Hz
Nominal output	200 W (in opt. efficiency)
$I_{nom}$	0,9 A (in opt. efficiency)
$I_{max}$	1,5 A
Degree of protection	IP X4
Insulation class	F
Mains cable	3 x 1,5 mm <sup>2</sup>
Installation position	vertical / horizontal
Housing material	Sheet steel, galvanised
Colour	Silver grey
Weight	12,8 kg
Weight including packaging	14,15 kg
Nominal size	400 mm
Width	432 mm
Height	403 mm
Depth	416 mm
Width with packaging	455 mm
Height with packaging	450 mm
Depth with packaging	425 mm
Airstream temperature at $I_{Max}$	80 °C

# EDR 40

Ambient temperature	80 °C
Packing unit	1 piece
Range	C
GTIN (EAN)	4012799806608

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

Total efficiency $\eta$	45,8 %
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.	0080.0660
$P_{BEP}$ / Air volume $_{BEP}$ / $P_{fs, BEP}$	0,211 kW / 2.419 m <sup>3</sup> /h / 158 Pa
$n_{BEP}$	1.440 1/min
Specific ratio	$\approx 1$
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	-
$I_{BEP}$	0,9 A
Sound power level $_{LWA5}$	74 dB(A)

## Sound power level in octave range

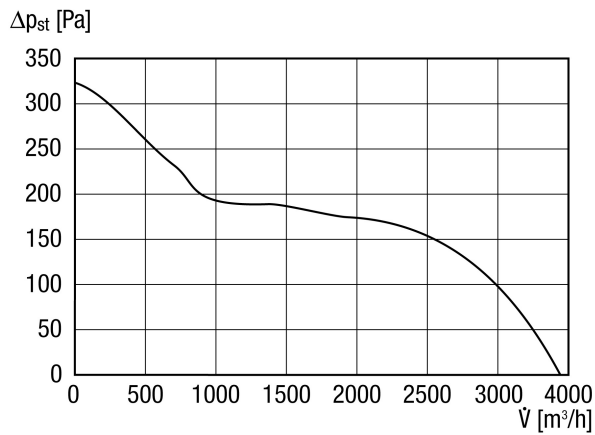
	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Total
<b>L<sub>WA2</sub>, Level 2 (dB(A))</b>	-	69	55	62	59	50	48	39	70
<b>L<sub>WA2</sub>, Level 3 (dB(A))</b>	-	66	53	61	57	48	46	37	68
<b>L<sub>WA2</sub>, Level 4 (dB(A))</b>	-	66	54	61	59	52	51	41	68
<b>L<sub>WA2</sub>, Level 5 (dB(A))</b>	-	65	54	62	59	52	51	41	68
<b>L<sub>WA5</sub>, Level 2 (dB(A))</b>	-	68	73	74	67	63	57	48	78
<b>L<sub>WA5</sub>, Level 3 (dB(A))</b>	-	63	64	69	64	62	56	48	73
<b>L<sub>WA5</sub>, Level 4 (dB(A))</b>	-	69	66	71	67	67	62	52	75

# EDR 40

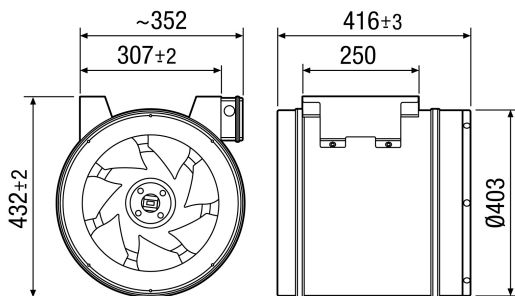
	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Total
L <sub>WA5</sub> , Level 5 (dB(A))	-	70	68	73	68	68	63	53	77
L <sub>WA6</sub> , Level 2 (dB(A))	-	75	76	77	72	65	60	51	82
L <sub>WA6</sub> , Level 3 (dB(A))	-	74	69	74	70	63	58	50	78
L <sub>WA6</sub> , Level 4 (dB(A))	-	78	71	75	73	67	63	53	81
L <sub>WA6</sub> , Level 5 (dB(A))	-	78	71	76	74	68	64	55	82

L<sub>WA2</sub>= housing sound power level in dB.  
 L<sub>WA5</sub>= free inlet sound power level in dB.  
 L<sub>WA6</sub>= free outlet sound power level in dB.  
 Measured at optimised efficiency

## Characteristic curve



## Dimensioned drawing [mm]



EDR 40

