

Article number 8300100049
 Number of fans Single fan
 Type code VBH0355CTPMS
 mID LU-213439-1

Project data
 Created by s.runkel@rox-online.de
 Web FanScout
 Measurement date 27 Apr 2021

Nominal data for a single fan

Nominal voltage [U _N]	V	400	Static overall efficiency [η_{esd}]	%	72.9
Nominal voltage range [U _{N range}]	V	380-480	Max. temperature of medium [t _{m max}]	°C	40
Frequency [f]	Hz	50/60	Min. temperature of medium [t _{m min}]	°C	-40
Electrical input power [P _{ed}]	W	1500	Min. static pressure increase [P _{sf,min}]		
Current draw [I _N]	A	2.3	Max. static pressure increase [P _{sf,max}]		
Speed [n]	1/min	3100			
Airflow direction					

Dimension data for a single fan

Maximum impeller diameter [D _{max}]	mm	364	Length [L]	mm	346
Width [B]	mm	450	Height [H]	mm	450
Mass [m]	kg	13.7	Size		355

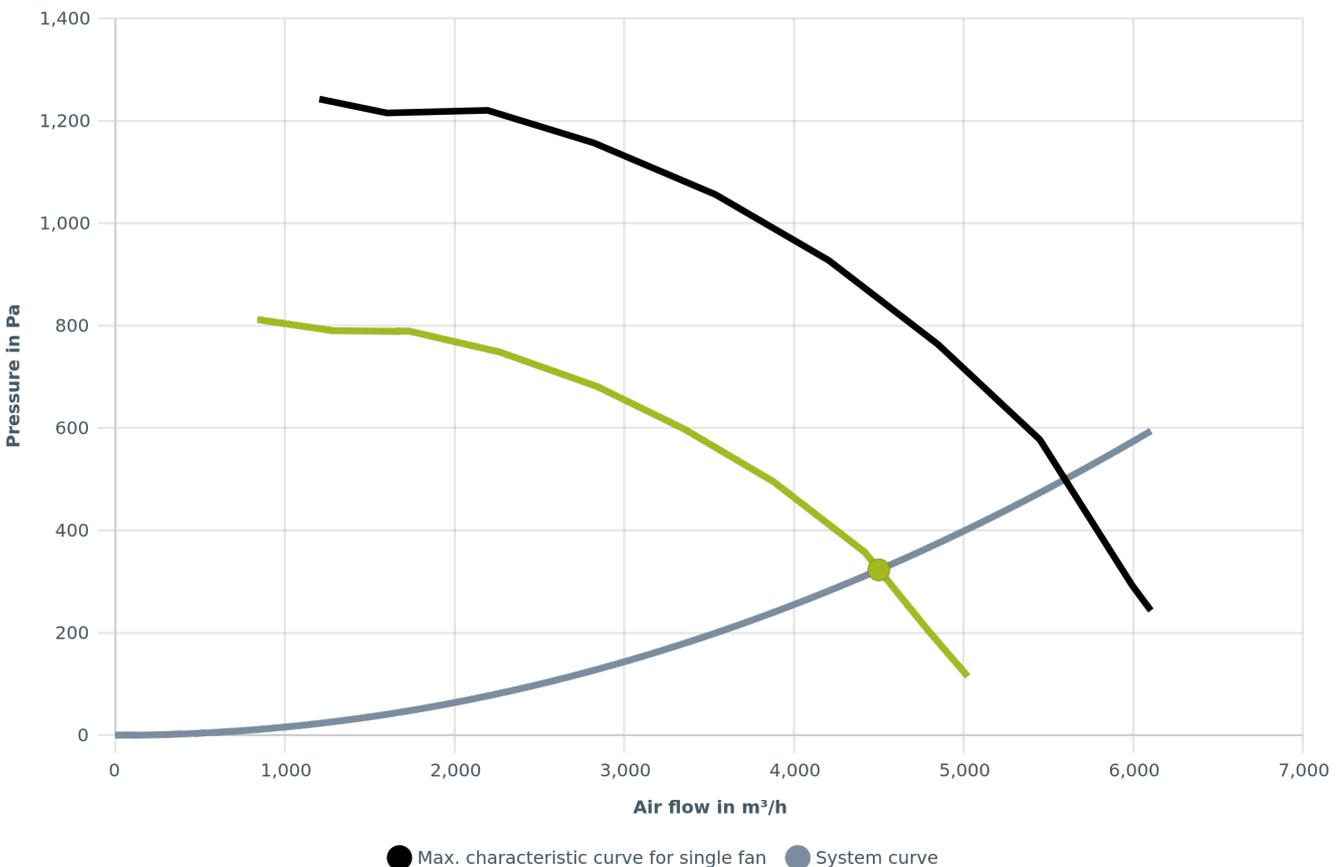
Technical data for a single fan

Protection class	H1	Material	Metal and plastic
Motor size	84	k-factor	

Certification data for a single fan

CE	Yes	CCC	-
UL	1004-7+60730-1	VDE	-
CSA	77+60730-1	EAC	Yes
ATEX	-		

Air performance (single fan)



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Operating Point Data

	q_v	p_{fs}	p_{fd}	p_f	ρ	hours/year	η_{esd}	η_{ed}	P_{ed}	I	n	n/n_{max}
	m ³ /h	Pa	Pa	Pa	kg/m ³	h	%	%	W	A	1/min	%
●	4500	323	70	393	1.2		52	63.3	776	1.2	2486	80.4

	L_{wA} (A,out)	L_{wA} (A,in)	L_{wA} (A,in+out)	U_{cont}	FEI	SFP	E/a
	dB(A)			V		kW/m ³ /s	kWh
●	80.2	76.8	81.9	7.7	1.49	0.62	

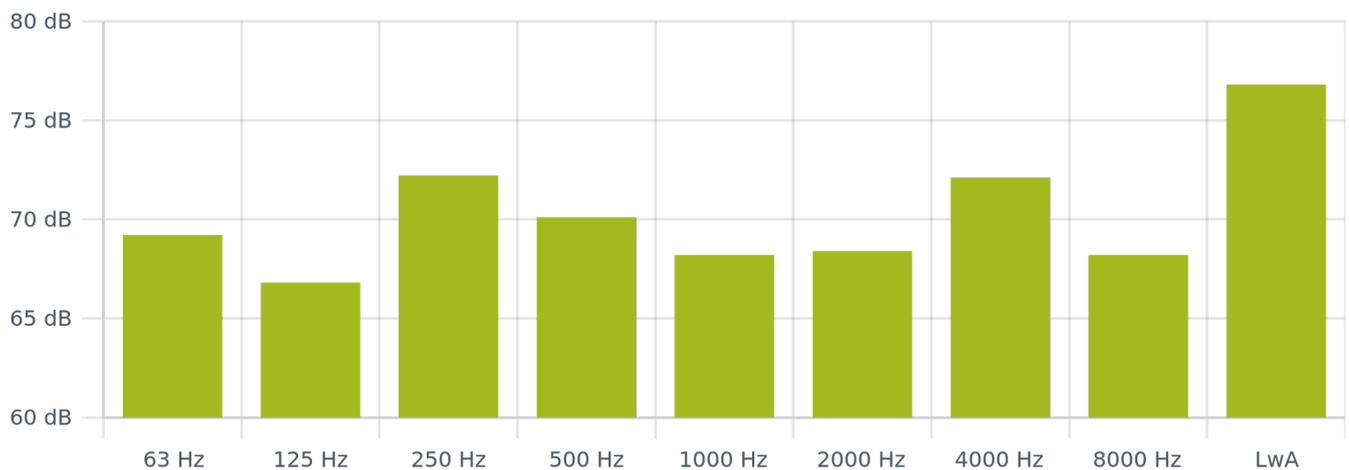
System influences taken into account in air performance

Calculation of installation losses

Guard grill, outlet side	without
Guard grill, intake side	without

Sound power (single fan)

Intake side

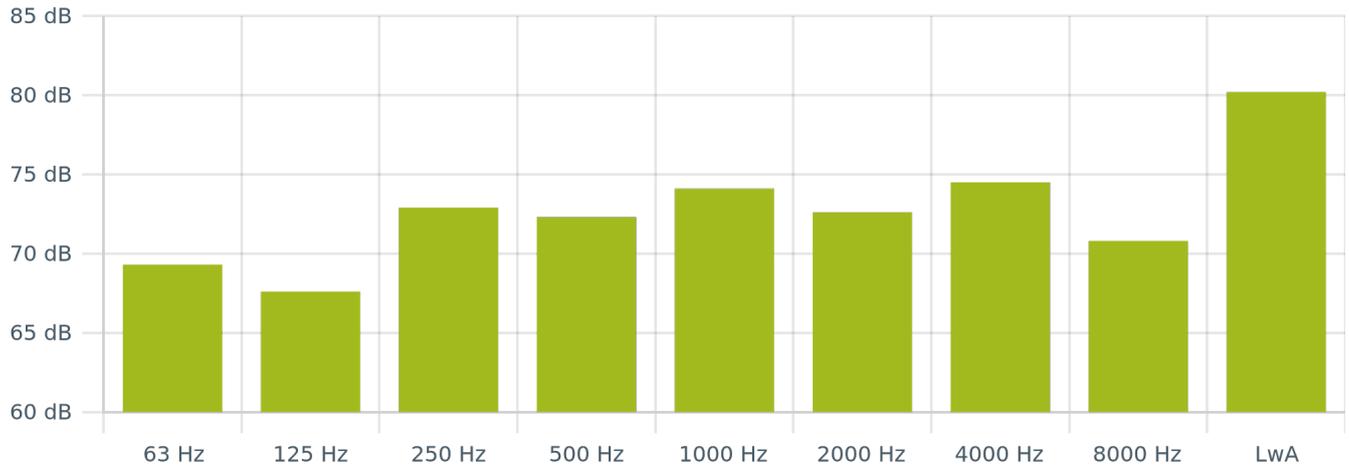


	q_v	p_{fs}	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwA
	m ³ /h	Pa	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
●	4500	323	69.2	66.8	72.2	70.1	68.2	68.4	72.1	68.2	76.8

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Outlet side



	q_v	p_{fs}	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	LwA
	m ³ /h	Pa	dB	dB	dB	dB	dB	dB	dB	dB	dB(A)
●	4500	323	69.3	67.6	72.9	72.3	74.1	72.6	74.5	70.8	80.2

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Key

Air flow	q_v	m ³ /h
Motor input power (including VSD)	$P_{e(d)}$	W
Dynamic pressure	f_d	Pa
Total overall efficiency (including VSD)	$\eta_{e(d)}$	%
Static overall efficiency (including VSD)	$\eta_{es(d)}$	%
Speed	n	1/min
Sound power, outlet side	$L_{wA(A,out)}$	dB(A)
Sound power, intake side	$L_{wA(A,in)}$	dB(A)
Sound power, intake + outlet	$L_{wA(A,in+out)}$	dB(A)
Static pressure	f_s	Pa
Control voltage	U_{cont}	VDC
Differential pressure in the nozzle	ρ_{nozzle}	Pa
Annual power consumption	E/a	kWh



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