

FANselect

fan data

2020-02-11

version FANselect V 1.01 (190905), AMCA V 1.03 February, 2019 / 1.19.09.05 | 46401 | (user ZAFS36401)



type	ER63C-4DN.H7.CR*
article no.	130565/2141 Portfolio STD-WW

technical data

motor	ZAmotpremium IE3
power output ($P_{2 \text{ main}}$)	kW 7.50
mains supply	- 3~ 400V 50Hz D
nominal current (I_N)	A 14.30
motor efficiency grade (η_M)	% 90.4
ambient temperature, max. limit (t_a)	°C 40
efficiency grade η_{statA}	% 69,4
efficiency grade $N_{\text{actual}} N_{\text{target}}$	70,3 62
ErP-conformity	2015
grille influence	no

fan data

SFP-class SFP-value (P_{SFP})	- Ws/m ³	4 1629
FEG	%	85
airflow volume (q_v)	m ³ /s	4.75
pressure, stat. (p_{sF}) tot. (p_F)	Pa	1000 1156
electrical power input (P_{sys})	W	7737
system eff., stat. ($\eta_{\text{sF,sys}}$) tot. ($\eta_{\text{F,sys}}$)	%	61.4 67.1
electrical power input (P_1)	W	7505
efficiency grade, stat. (η_{sF}) tot. (η_F)	%	63.3 69.2
shaft power (P_L) max. ($P_{L \text{ max}}$)	W	6836 6890
impeller eff., stat. ($\eta_{\text{sF,L}}$) tot. ($\eta_{\text{F,L}}$)	%	69.5 76.0
fan speed (n) max. (n_{max})	1/min	1693 1730
fan speed, set value ($\%n_{\text{max}}$)	%	98
frequency (f_{BP}) (f_{max})	Hz	58 59
voltage (U_{DP})	V	400
acoustics, suction side ($L_{\text{w(A),5}}$) ($L_{\text{w,5}}$)	dB	83 86
acoustics, pressure side ($L_{\text{w(A),6}}$) ($L_{\text{w,6}}$)	dB	90 92
dimensions (w x h x d)	mm	760 x 813 x 880
product weight (m_{pr})	kg	117
k-factor nozzle pres. (k)	-	381
differential pres. nozzle ($p_{\text{sF nozzle}}$)	Pa	2014
installation space dimensions (W x H x D)	mm	1100 x 1076 x 1100
housing/impeller	-	1.7

PF:PF_00; BR:BR_14; q_v :4.75 m³/s; p_{sF} :1000 Pa; mains:3~ / 400V / 50 Hz; t_a :20 °C; size:630 mm; MTech:ZAmotpremium IE3;
 ρ :1.16 kg/m³; STol:+10 %; BF:ER; BxHxT:1100mmx1076mmx1100mm

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performance curve / acoustics

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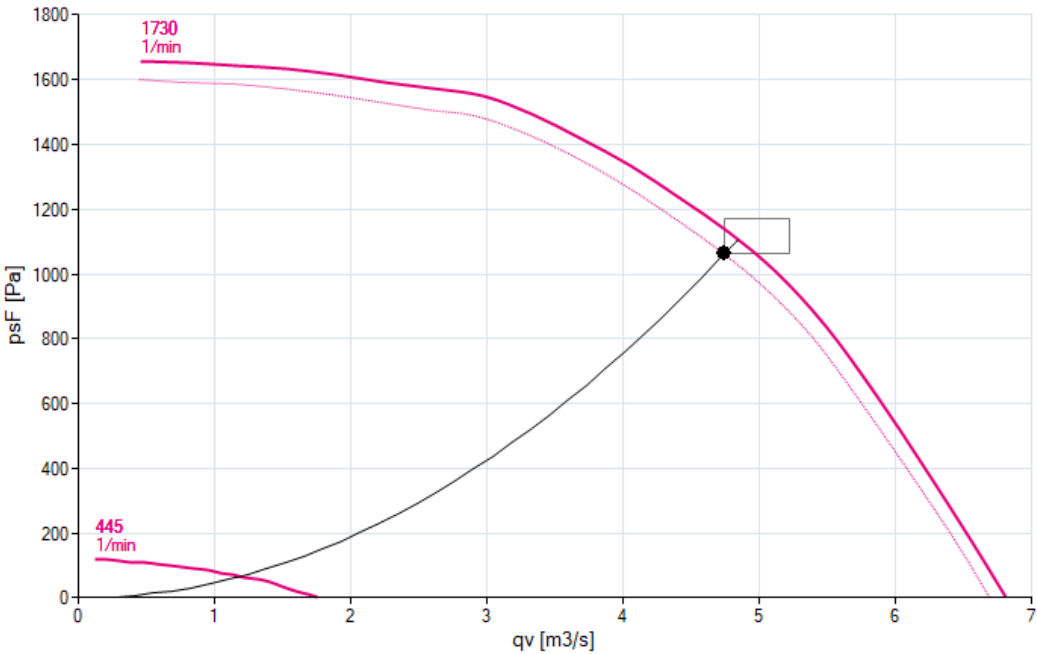
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STD-WWW

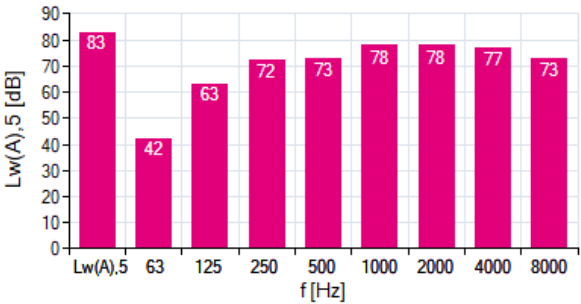
0 with calculated installation losses

measurement density 1.16 [kg/m³]

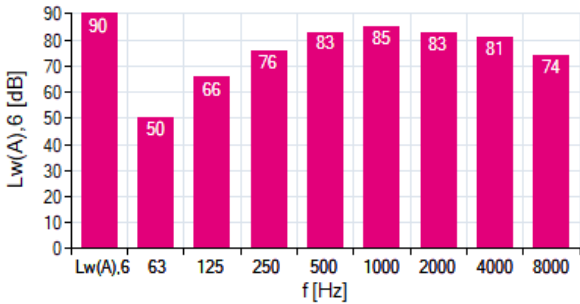
air performance p_{sF}



acoustics ($L_{w(A),5}$)



acoustics ($L_{w(A),6}$)



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f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),5}$	83	42	63	72	73	78	78	77	73
$L_{w,5}$	86	67	77	82	76	78	76	76	74

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),6}$	90	50	66	76	83	85	83	81	74
$L_{w,6}$	92	75	80	85	86	85	81	80	75

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efficiency grade

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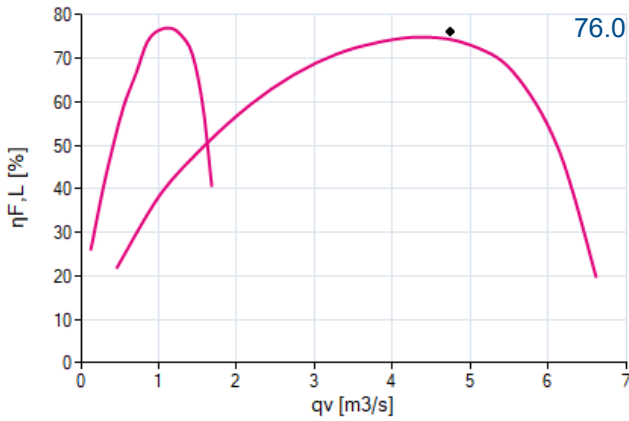
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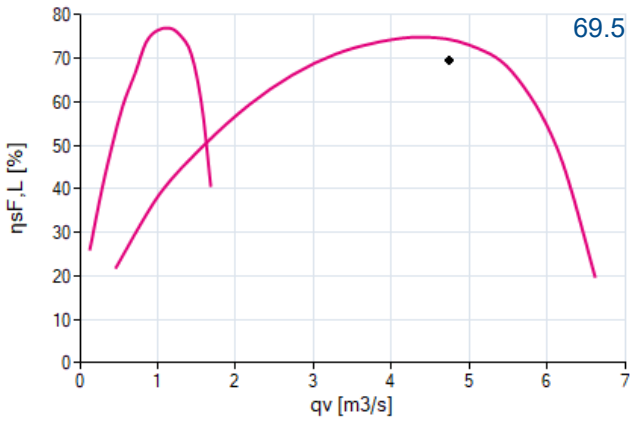
STD-WWW
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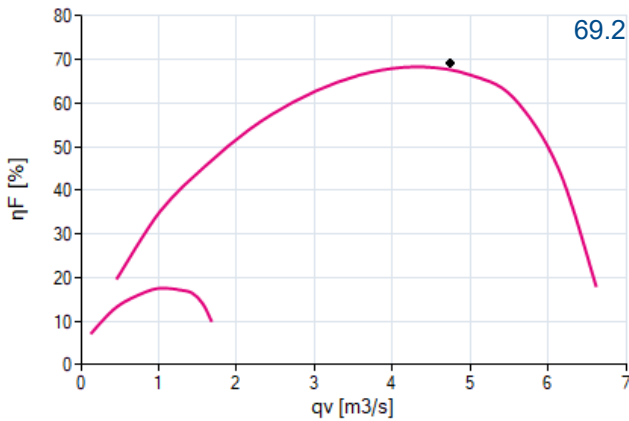
efficiency grade $\eta_{F,L}$



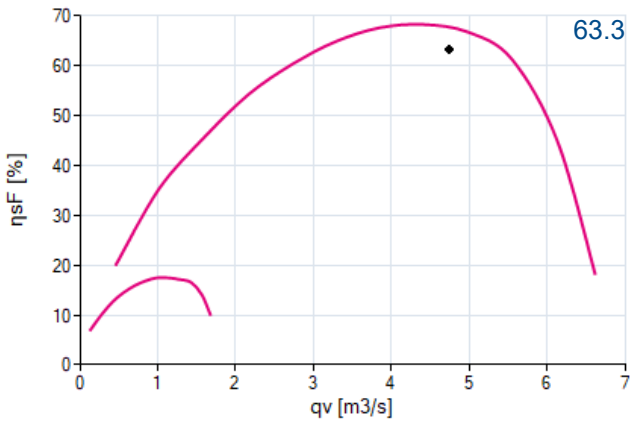
efficiency grade $\eta_{sF,L}$



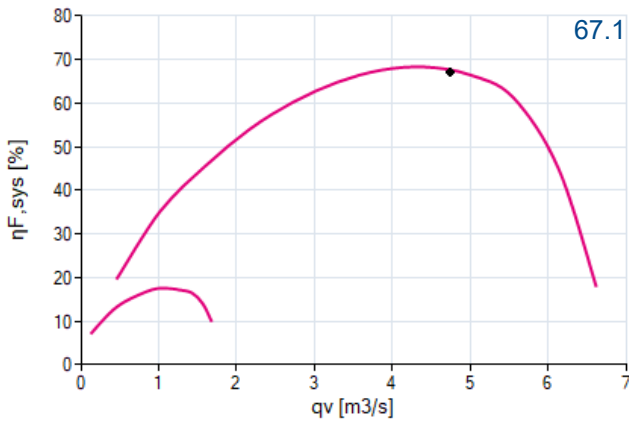
efficiency grade η_F



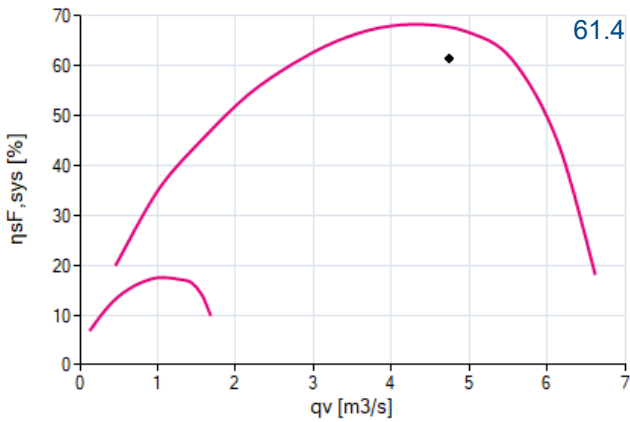
efficiency grade η_{sF}



efficiency grade $\eta_{F,sys}$



efficiency grade $\eta_{sF,sys}$



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power input

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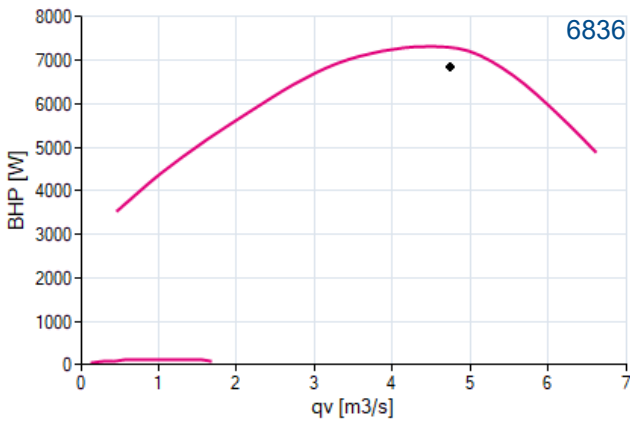
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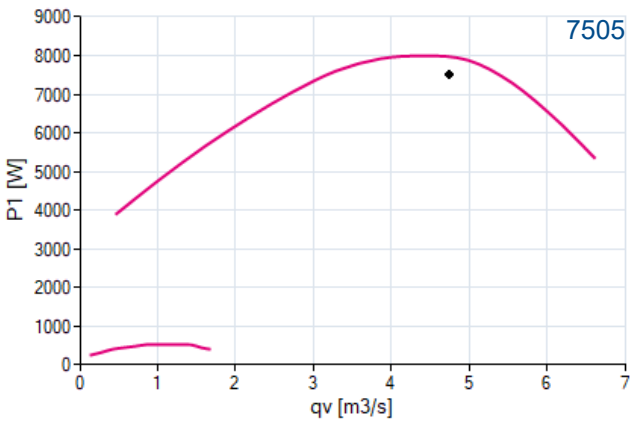
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measurement density 1.16 [kg/m³]

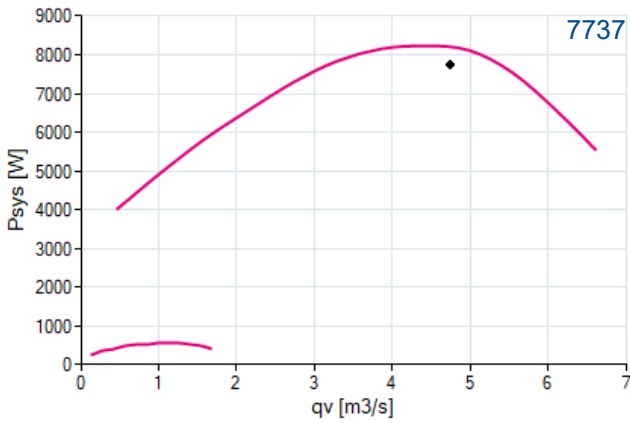
power input BHP



power input P₁



power input P_{sys}



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drawing

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