

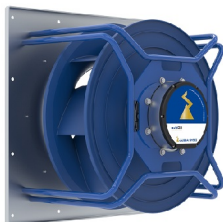


general description

15/12/2021

version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

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GR50C-ZIK.GG.CR | 116789/A01 | Portfolio STD-WW | Cpro ECblue

Standard design with ECblue motor and integrated electronics**Material of impeller:**

- ZAmid - high performance composite material

Color Coating:

- Color coating in RAL5002 (Ultra marine-blue)

Mains voltage motor size B_:

- 1~ 200...277 V; 50/60 Hz

Mains voltage motor size D_:

- 1~ 200...277 V; 50/60 Hz
- 3~ 200...240 V; 50/60 Hz
- 3~ 380...480 V; 50/60 Hz

Mains voltage motor size G_:

- 3~ 200...240 V; 50/60 Hz
- 3~ 380...480 V; 50/60 Hz

Thermal class:

- THCL155

Thermal protection:

- Protection with active temperature management

Protection:

- IP55

Coating:

- Motor painted in RAL5002 (Ultra marine-blue)

Controller (only motor size B_):

- Activation via external speed setting 0-10 V / PWM, Communication interface on request
- Standard cable length: 60 cm

Controller (only motor size D_, G_):

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- **BASIC:**

Activation via external speed setting 0-10 V / PWM Art. no. ER- and GR-module
in basic version

- **PREMIUM:**

Integrated control functionality, Communication interface on request

Cable glands:

- Motor size D: 3 x M16 x 1.5
- Motor size G: 3 x M20 x 1.5

Ambient temperature:

- Minimum permissible ambient temperature: -20 °C*
- Maximum permissible ambient temperature: 40 °C or see data sheet

***Continuous operation with occasional starts (S1) according to DIN EN 60034-1: 2011-02. Occasional starting between -35 ° C and -25 ° C is permissible. Permanent operation below -25 ° C only possible with special bearings for refrigeration applications on request.**



fan data

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type	GR50C-ZIK.GG.CR
article no.	116789/A01 Portfolio STD-WW

technical data

motor	ECblue	
Efficiency class	IE5	
mains supply	-	3~ 400V 50Hz
ambient temperature, max. limit (t_r)	°C	50
efficiency grade η_{statA}	%	65,9
efficiency grade N_{actual} N_{target}		70,6 62
ErP-conformity		2015 EC controller integrated
grille influence		no

fan data

SFP-class SFP-value (P_{SFP})	- Ws/m ³	3 1202
airflow volume (q_v)	ft ³ /min	5998.8
air velocity	ft/s	38.35
pressure, stat. (p_{sF}) tot. (p_F)	in.wg.	2.962 3.288
electrical power input (P_{sys})	W	3403
system eff., stat. ($\eta_{sF,sys}$) tot. ($\eta_{F,sys}$)	%	61.4 68.1
fan speed (n) max. (n_{max})	rpm	1858 1860
fan speed, set value (% n_{max})	%	100
frequency (f_{BP}) (f_{max})	Hz	50 60
voltage (U_{DP})	V	400
current (I_{DP})	A	5.20
acoustics, suction side ($L_{w(A),5}$) ($L_{w,5}$)	dB	83 88
acoustics, pressure side ($L_{w(A),6}$) ($L_{w,6}$)	dB	91 95
dimensions (w x h x d)	in	26.38 x 26.38 x 16.97
product weight (m_{pr})	lb	108.0
k-factor nozzle pres. (k)	-	252
differential pres. nozzle ($p_{sF \text{ nozzle}}$)	Pa	1636

PF:PF_50; Ano:116789; STot:+-10 %





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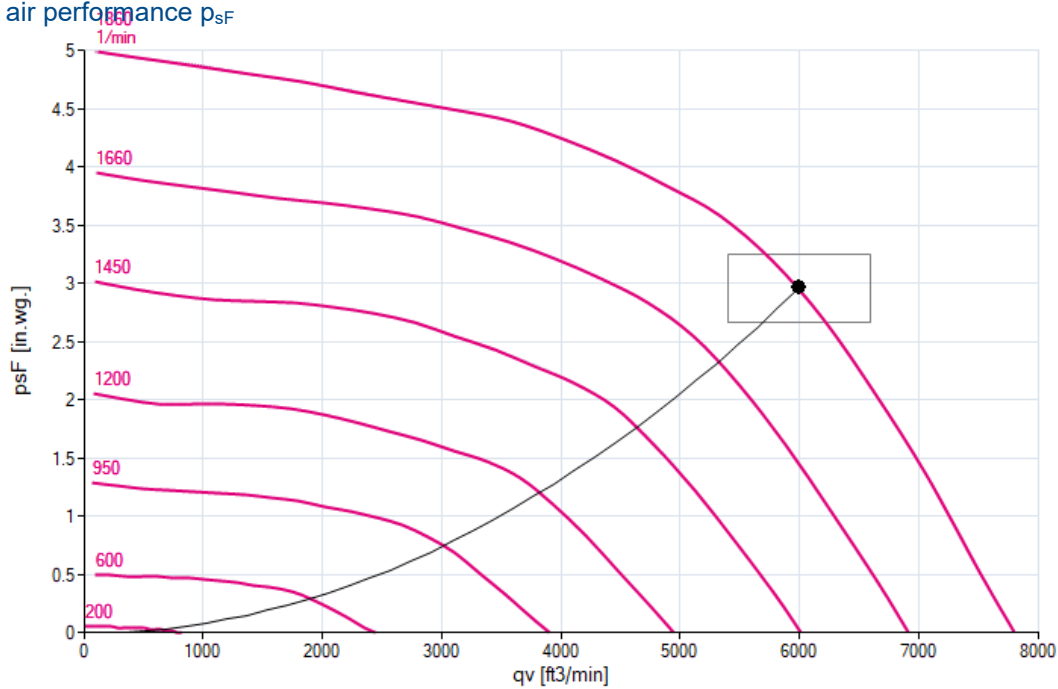
performance curve / acoustics

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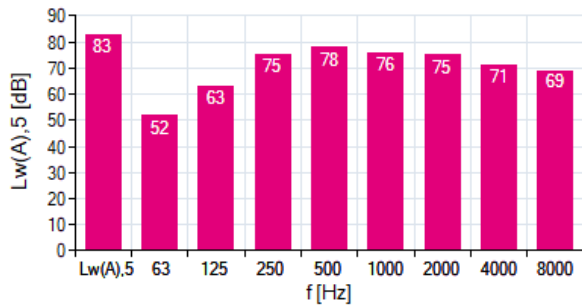
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- 1 **GR50C-ZIK.GG.CR** measured in standard nozzle in installation type A according to ISO 5801
 116789/A01 | Portfolio measurement density 0.072 [lbs/ft³]
 STD-WW

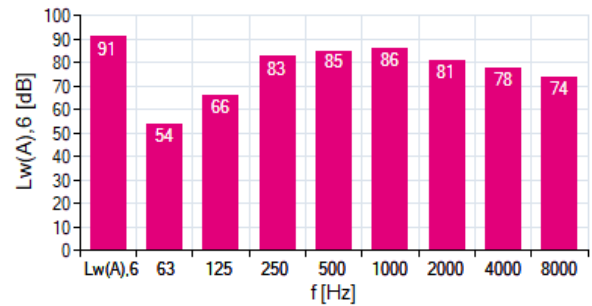
air performance p_{sF}



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



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



1 GR50C-ZIK.GG.CR

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
L _{w(A),5}	83	52	63	75	78	76	75	71	69
L _{w,5}	88	77	78	85	81	76	73	70	71

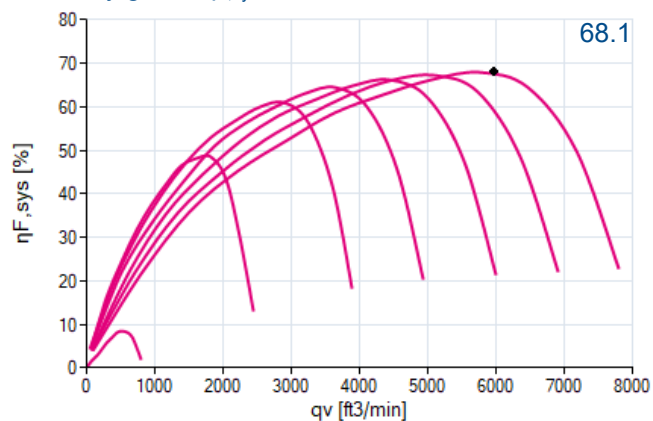
f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
L _{w(A),6}	91	54	66	83	85	86	81	78	74
L _{w,6}	95	80	81	93	89	86	80	77	75



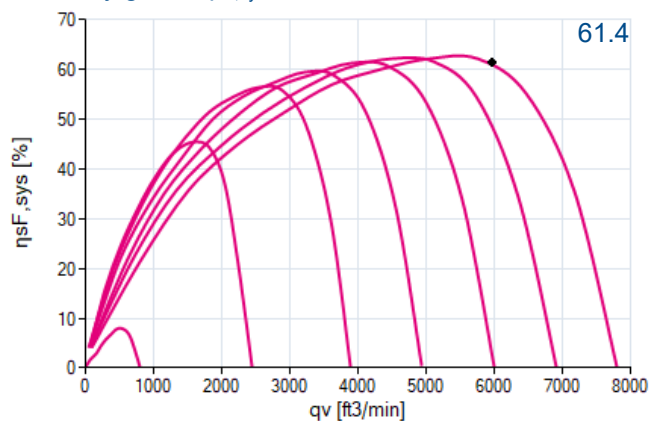
efficiency grade / power input 15/12/2021
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① **GR50C-ZIK.GG.CR** measured in standard nozzle in installation type A according to ISO 5801
 116789/A01 | Portfolio measurement density 0.072 [lbs/ft³]
 STD-WW

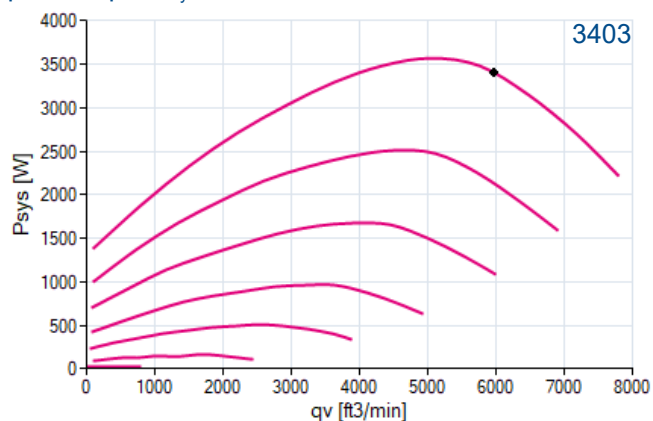
efficiency grade $\eta_{F,sys}$



efficiency grade $\eta_{SF,sys}$



power input P_{sys}



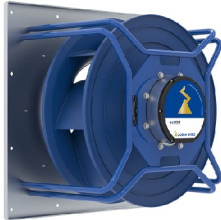


nominal values

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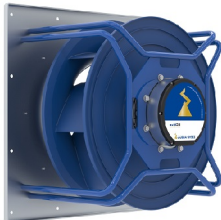
3~ 380-480V 50Hz P1 3.60kW
5.80-4.60A 1860/MIN 50°C
3~ 380-480V 60Hz P1 3.60kW
5.80-4.60A 1860/MIN 50°C
IP55 THCL155

drawing

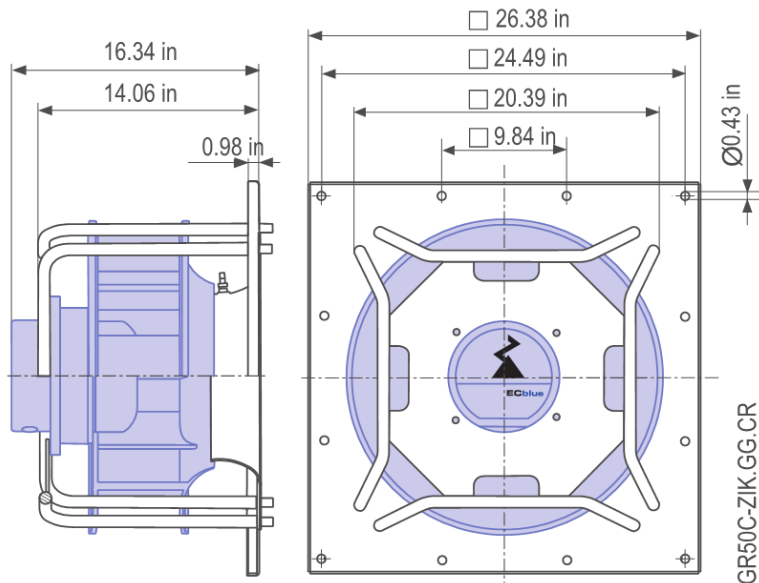
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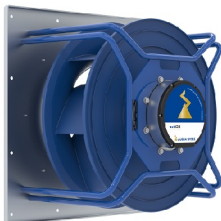


wiring diagram

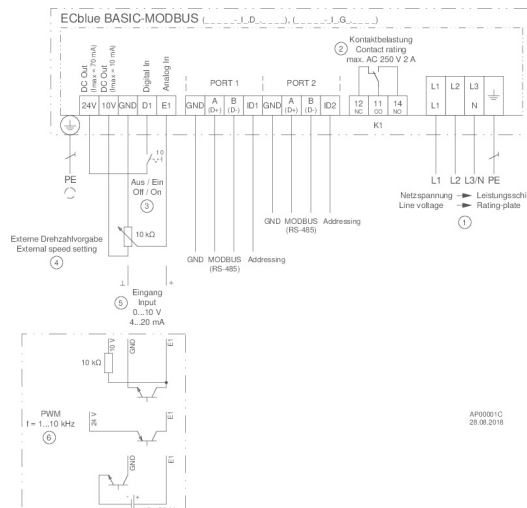
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system components

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article no.	116789/A01