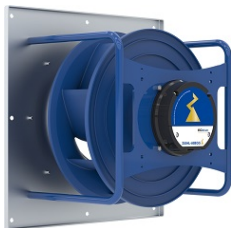




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GR31C-ZIK.DC.CR | 116232/A01 | Portfolio STD-WW | Cpro ECblue

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

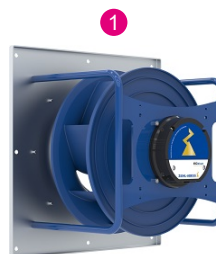
***Continuous operation with occasional starts (S1) according to DIN EN 60034-1: 2011-02. Occasional starting between -35 ° C and -25 ° C is permissible. Permanent operation below -25 ° C only possible with special bearings for refrigeration applications on request.**



fan data

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type	GR31C-ZIK.DC.CR
article no.	116232/A01 Portfolio STD-WW

technical data

motor	ECblue	
Efficiency class	IE5	
mains supply	-	3~ 400V 50Hz
ambient temperature, max. limit (t_r)	°C	60
efficiency grade η_{statA}	%	61,5
efficiency grade N_{actual} N_{target}		67,8 62
ErP-conformity		2015 EC controller integrated
grille influence		no

fan data

SFP-class SFP-value (P_{SFP})	- Ws/m ³	4 1443
airflow volume (q_v)	ft ³ /min	3000.0
air velocity	ft/s	48.64
pressure, stat. (p_{sF}) tot. (p_F)	in.wg.	2.000 2.523
electrical power input (P_{sys})	W	2042
system eff., stat. ($\eta_{sF,sys}$) tot. ($\eta_{F,sys}$)	%	34.5 43.6
fan speed (n) max. (n_{max})	rpm	3563 3640
fan speed, set value (% n_{max})	%	98
frequency (f_{BP}) (f_{max})	Hz	50 60
voltage (U_{DP})	V	400
current (I_{DP})	A	3.14
acoustics, suction side ($L_{w(A),5}$) ($L_{w,5}$)	dB	90 94
acoustics, pressure side ($L_{w(A),6}$) ($L_{w,6}$)	dB	97 98
dimensions (w x h x d)	in	17.72 x 17.72 x 11.34
product weight (m_{pr})	lb	37.5
k-factor nozzle pres. (k)	-	95
differential pres. nozzle ($p_{sF \text{ nozzle}}$)	Pa	2879

PF:PF_50; BR:BR_40; q_v :3000.0 ft³/min; p_{sF} :2.000 in.wg.; mains:3~ / 400V / 50 Hz; t_r :40 °C; size:315 mm; p :0.072 lbs/ft²; STol:+-10 %; BF:





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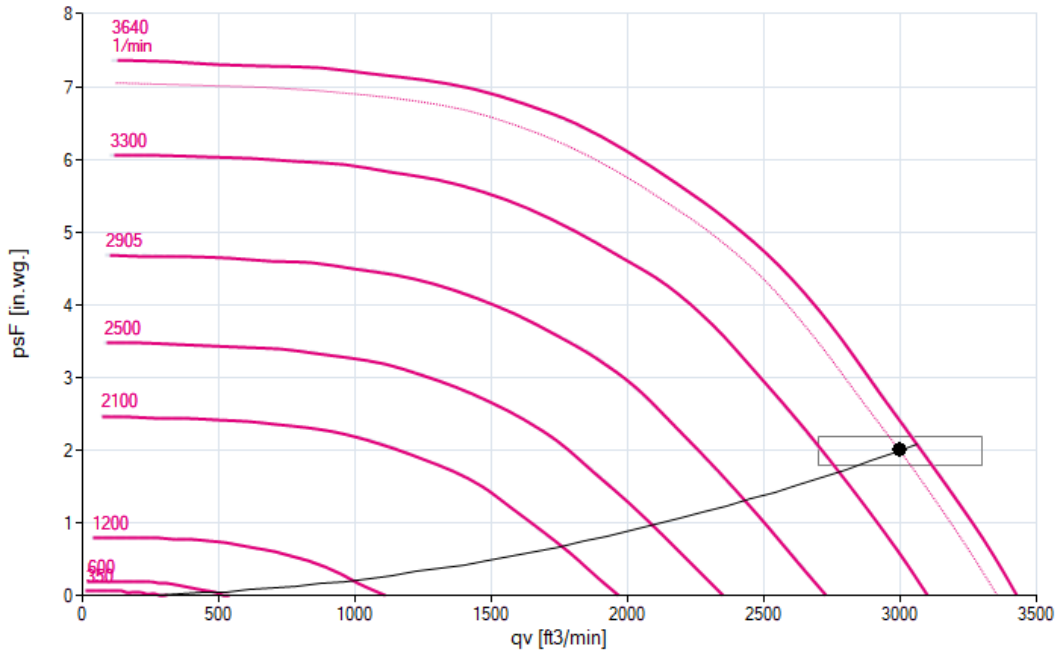
performance curve / acoustics

15/12/2021

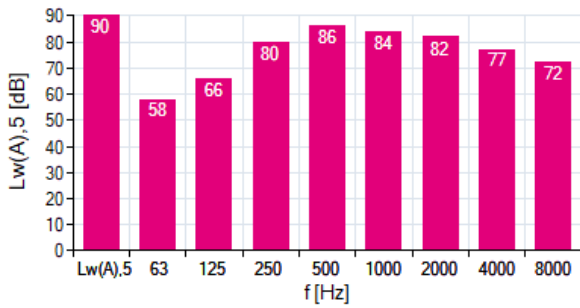
version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

- GR31C-ZIK.DC.CR** measured in standard nozzle in installation type A according to ISO 5801
 116232/A01 | Portfolio measurement density 0.072 [lbs/ft³]
 STD-WW

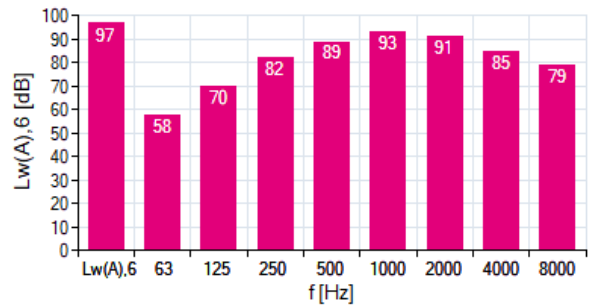
air performance p_{sF}



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



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



1 GR31C-ZIK.DC.CR

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
L _{w(A),5}	90	58	66	80	86	84	82	77	72
L _{w,5}	94	84	82	87	90	84	81	76	73

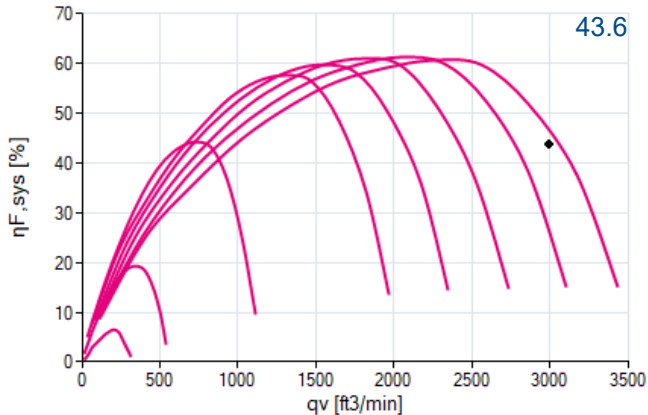
f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
L _{w(A),6}	97	58	70	82	89	93	91	85	79
L _{w,6}	98	84	85	90	93	93	90	84	80



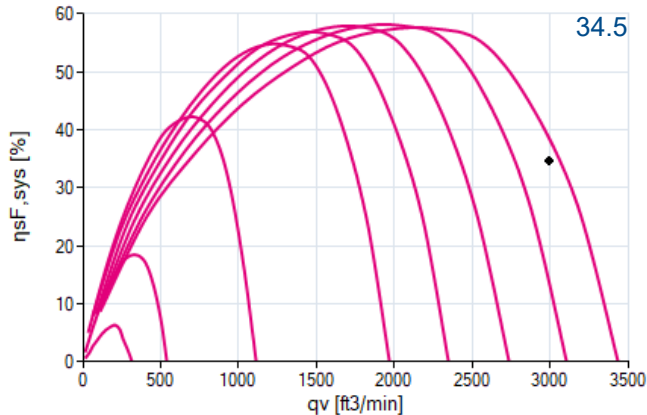
efficiency grade / power input 15/12/2021
version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

① **GR31C-ZIK.DC.CR** measured in standard nozzle in installation type A according to ISO 5801
 116232/A01 | Portfolio measurement density 0.072 [lbs/ft³]
 STD-WWW

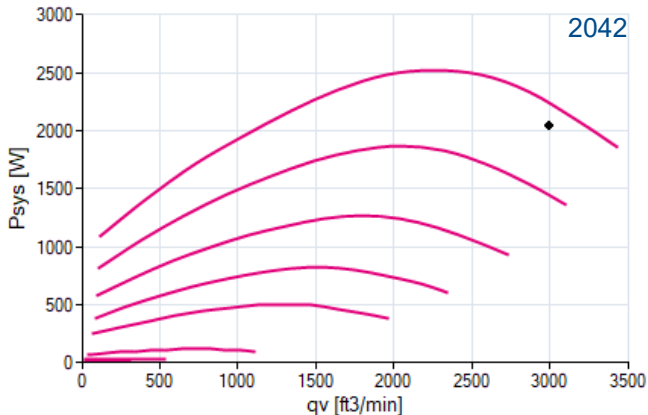
efficiency grade $\eta_{F,sys}$



efficiency grade $\eta_{sF,sys}$



power input P_{sys}



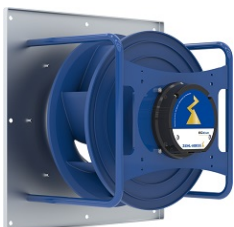


nominal values

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GR31C-ZIK.DC.CR

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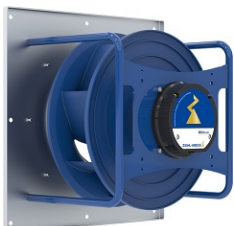
3~ 380-480V 50Hz P1 2.50kW
 4.00-3.20A 3640/MIN 60°C
 3~ 380-480V 60Hz P1 2.50kW
 4.00-3.20A 3640/MIN 60°C
 IP55 THCL155

drawing

15/12/2021

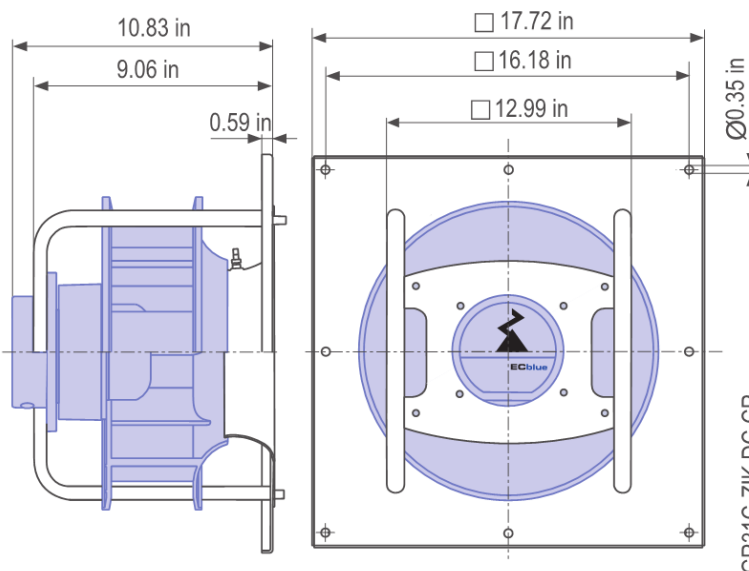
version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

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GR31C-ZIK.DC.CR

116232/A01



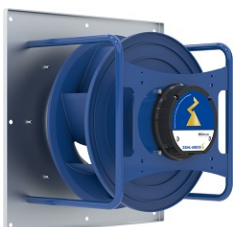
GR31C-ZIK.DC.CR

wiring diagram

15/12/2021

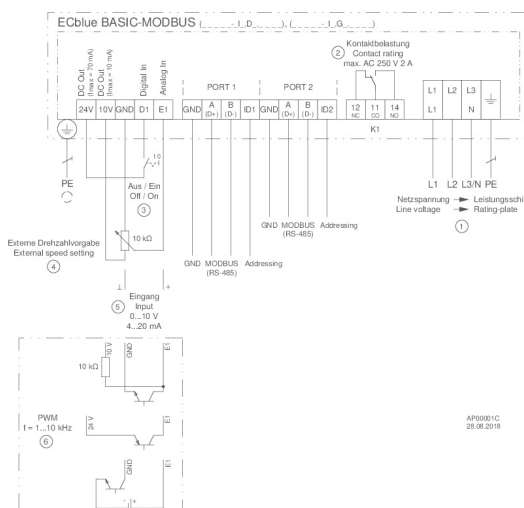
version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

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GR31C-ZIK.DC.CR

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AP00001C
29.09.2019



system components

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type	GR31C-ZIK.DC.CR
article no.	116232/A01