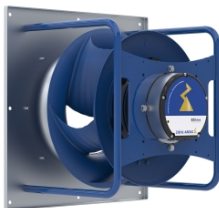




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GR45I-ZID.GG.CR | 116903/A01 | Portfolio STD-WW | ZAbbluefin ECblue

Technical Description

Ventilation unit GR..ZAbbluefin-ECblue for vertical airflow**GR25I.CR - GR56I.CR:**

- Sizes 250 ... 560 mm
- Welded supporting structure made of powder coted sheet steel
- Inlet ring designed for optimum air flow, made of galvanised steel sheet with measuring device for determination of flow rate Installation position vertical and horizontal motor shaft

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

- ZAmid - high performance composite material

Color of impeller:

- Color of Impeller RAL 5002 (ultramarin 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

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**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_):

- 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

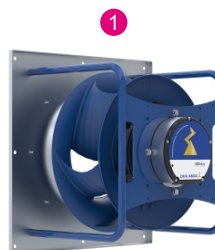
***Continuous operation with occasional starts (S1) according to DIN EN 60034-1: 2011-02. Occasional starting between -35 ° C and -25 ° C is permissible. Permanent operation below -25 ° C only possible with special bearings for refrigeration applications on request.**



fan data

15/12/2021

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type	GR45I-ZID.GG.CR
article no.	116903/A01 Portfolio STD-WW

technical data

motor	ECblue	
Efficiency class	IE5	
mains supply	-	3~ 400V 50Hz
ambient temperature, max. limit (t_r)	°C	40
efficiency grade η_{statA}	%	73,4
efficiency grade N_{actual} N_{target}		76,6 62
ErP-conformity		2015 EC controller integrated
grille influence		no

fan data

SFP-class SFP-value (P_{SFP})	- Ws/m^3	4 1311
airflow volume (q_v)	ft^3/min	6929.8
air velocity	ft/s	40.36
pressure, stat. (p_{sF}) tot. (p_F)	in.wg.	2.956 3.234
electrical power input (P_{sys})	W	4287
system eff., stat. ($\eta_{sF,sys}$) tot. ($\eta_{F,sys}$)	%	56.2 61.5
fan speed (n) max. (n_{max})	rpm	2617 2620
fan speed, set value ($\%n_{max}$)	%	100
frequency (f_{BP}) (f_{max})	Hz	50 60
voltage (U_{DP})	V	400
current (I_{DP})	A	6.54
acoustics, suction side ($L_{w(A),5}$) ($L_{w,5}$)	dB	87 93
acoustics, pressure side ($L_{w(A),6}$) ($L_{w,6}$)	dB	95 98
dimensions (w x h x d)	in	23.62 x 23.62 x 19.06
product weight (m_{pr})	lb	81.6
k-factor nozzle pres. (k)	-	220
differential pres. nozzle ($p_{sF \text{ nozzle}}$)	Pa	2864

PF:PF_50; Ano:116903; STol:+-10 %





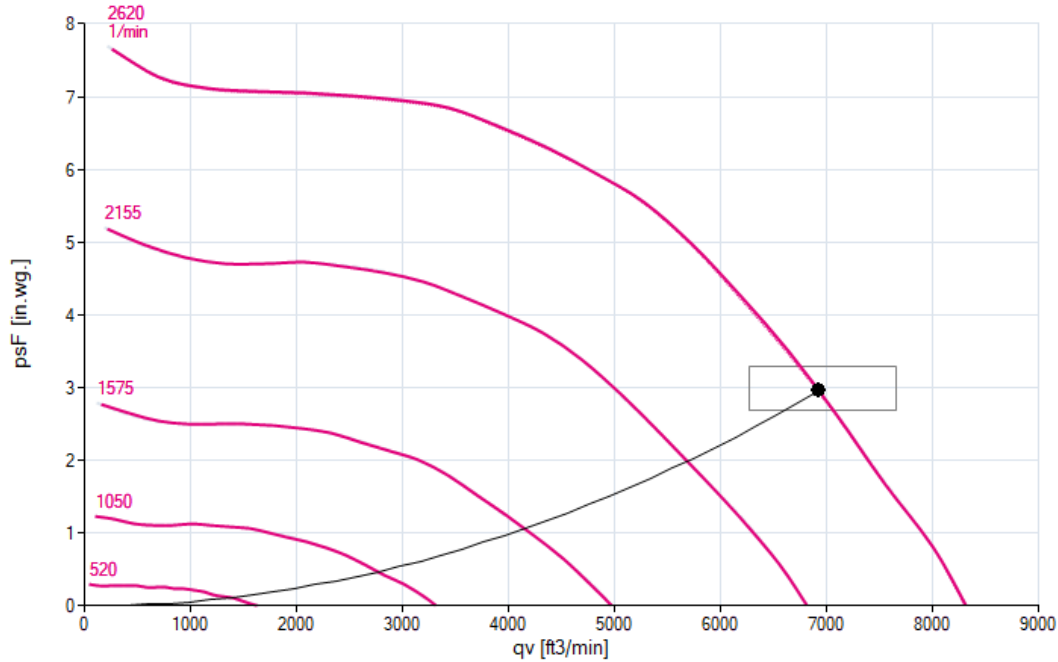
performance curve / acoustics

15/12/2021

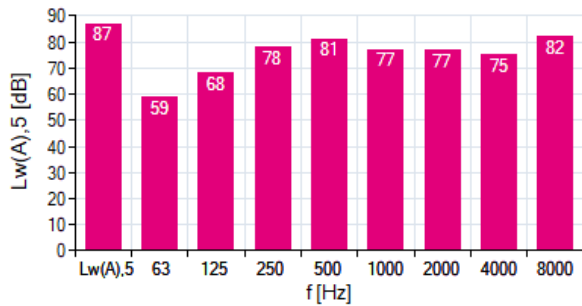
version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

- 1 **GR45I-ZID.GG.CR** measured in standard nozzle in installation type A according to ISO 5801
 116903/A01 | Portfolio measurement density 0.072 [lbs/ft³]
 STD-WWW

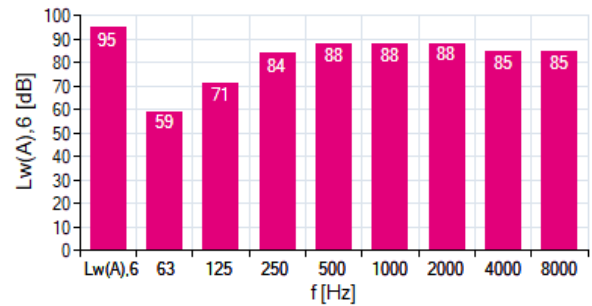
air performance p_{sF}



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



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



1 GR45I-ZID.GG.CR									
f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
L _{w(A),5}	87	59	68	78	81	77	77	75	82
L _{w,5}	93	85	84	87	85	78	76	74	84

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
L _{w(A),6}	95	59	71	84	88	88	88	85	85
L _{w,6}	98	85	87	93	91	88	87	84	87

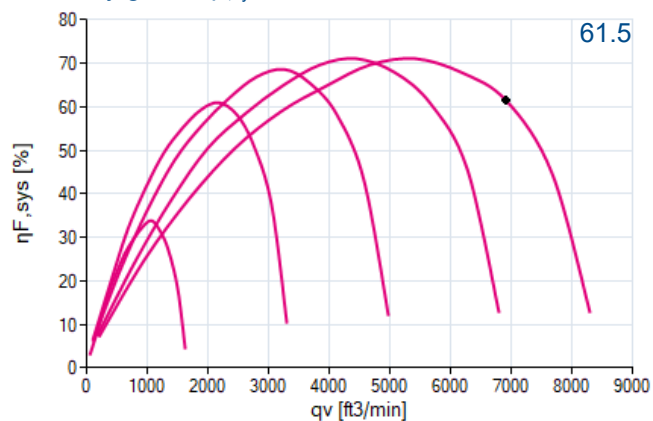
FANselect



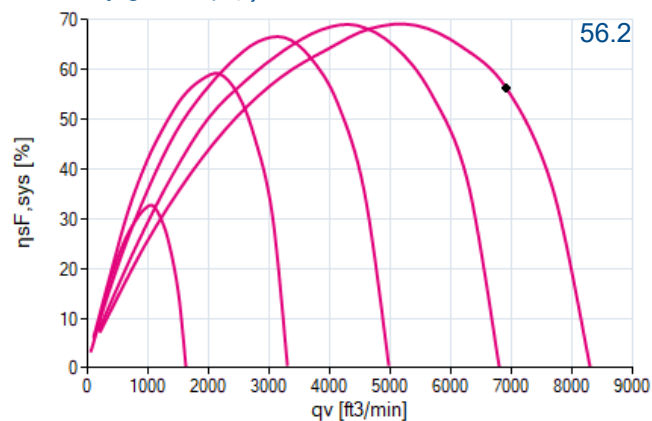
efficiency grade / power input 15/12/2021
version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

① **GR45I-ZID.GG.CR** measured in standard nozzle in installation type A according to ISO 5801
 116903/A01 | Portfolio measurement density 0.072 [lbs/ft³]
 STD-WWW

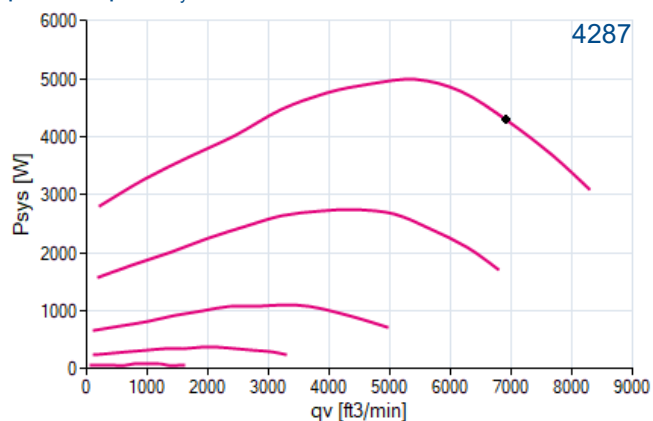
efficiency grade $\eta_{F,sys}$



efficiency grade $\eta_{sF,sys}$



power input P_{sys}



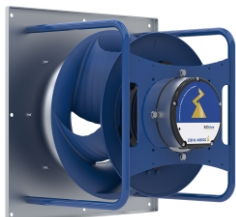


nominal values

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GR45I-ZID.GG.CR

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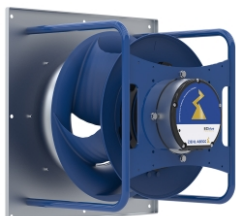
3~ 380-480V 50Hz P1 5.00kW
 8.00-6.40A 2620/MIN 40°C
 3~ 380-480V 60Hz P1 5.00kW
 8.00-6.40A 2620/MIN 40°C
 IP55 THCL155

drawing

15/12/2021

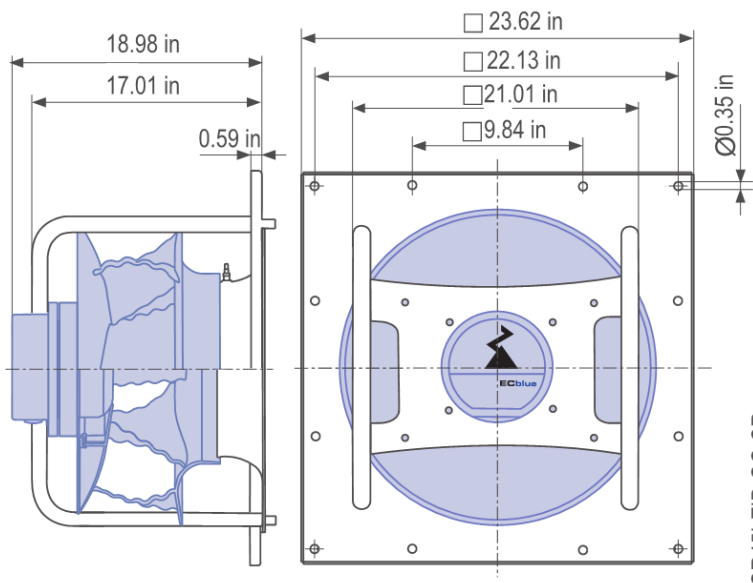
version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

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GR45I-ZID.GG.CR

116903/A01



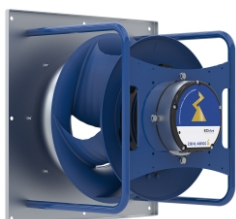
GR45I-ZID.GG.CR

wiring diagram

15/12/2021

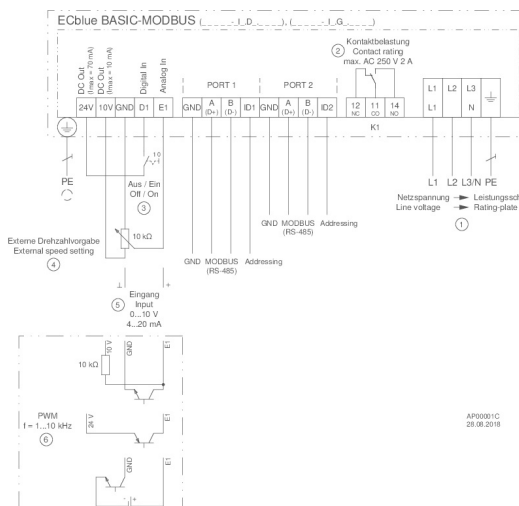
version FANselect V 1.01 (211209), AMCA V 1.03 September, 2021 / 1.21.12.09 | 53567 | (user ZAFS43567)

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GR45I-ZID.GG.CR

116903/A01



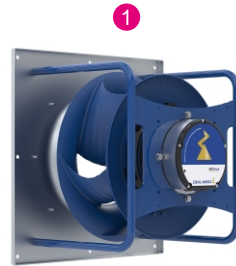
AP00001C
29.09.2019



system components

15/12/2021

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



type	GR45I-ZID.GG.CR
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