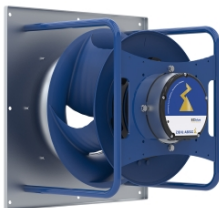


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GR45I-ZID.GG.CR | 116903/A01 | Portfolio STD-WW | ZABluefin ECblue

Technical Description

Ventilation unit GR..ZABluefin-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

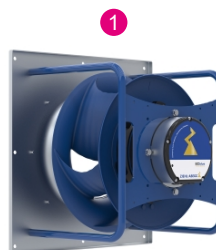
***Continuous operation with occasional starts (S1) according to DIN EN 60034-1: 2011-02. Occasional starting between -35 ° C and -25 ° C is permissible. Permanent operation below -25 ° C only possible with special bearings for refrigeration applications on request.**

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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; STot:±10 %



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performance curve / acoustics

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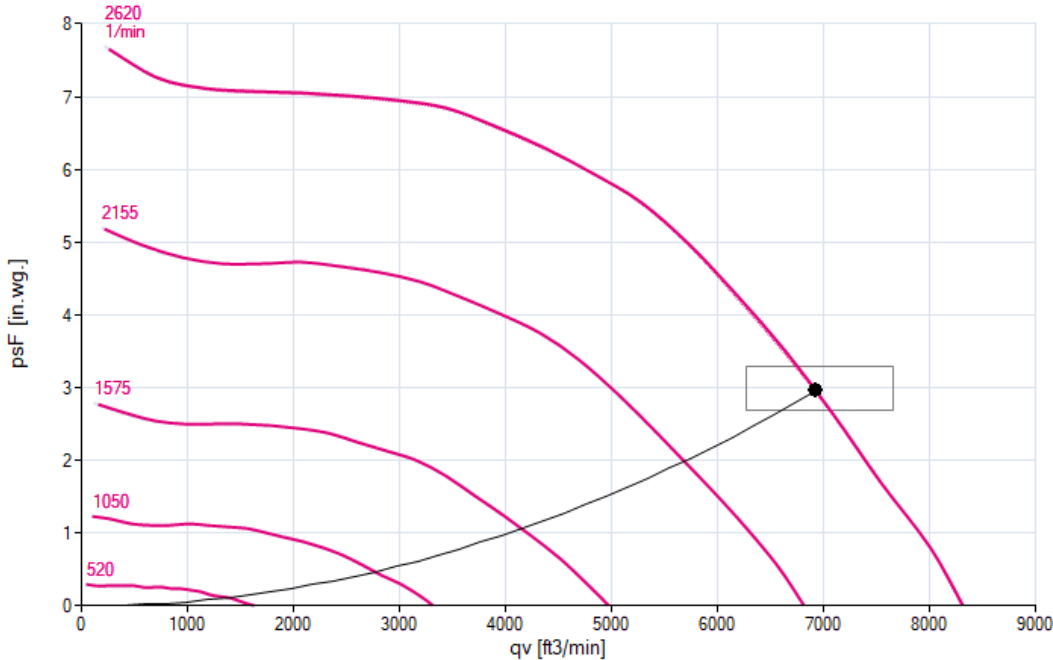
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GR45I-ZID.GG.CR

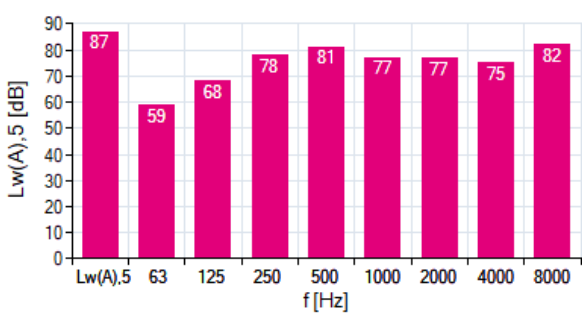
116903/A01 | Portfolio
STD-WW
- measured in standard nozzle in installation type A according to ISO 5801

measurement density 0.072 [lbs/ft³]

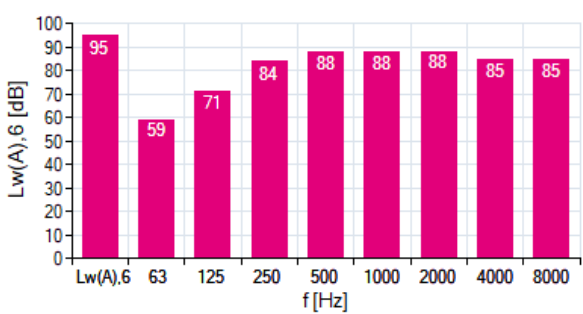
air performance p_{sF}



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





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efficiency grade / power input

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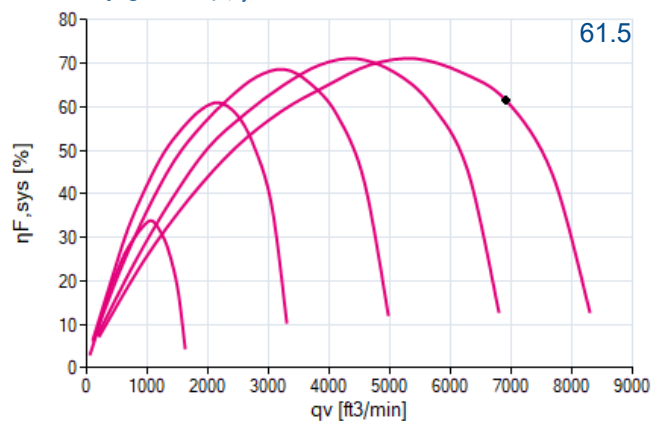
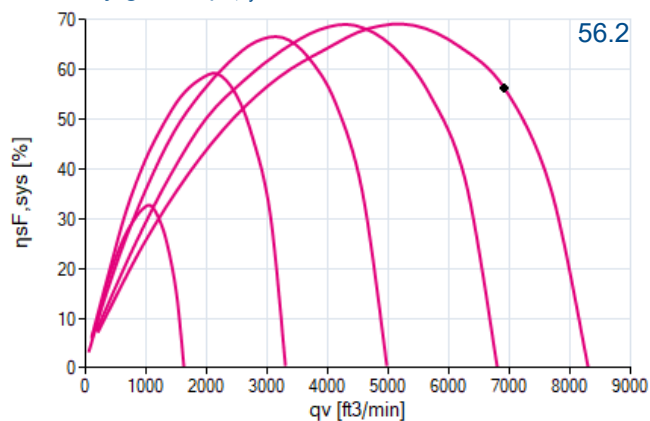
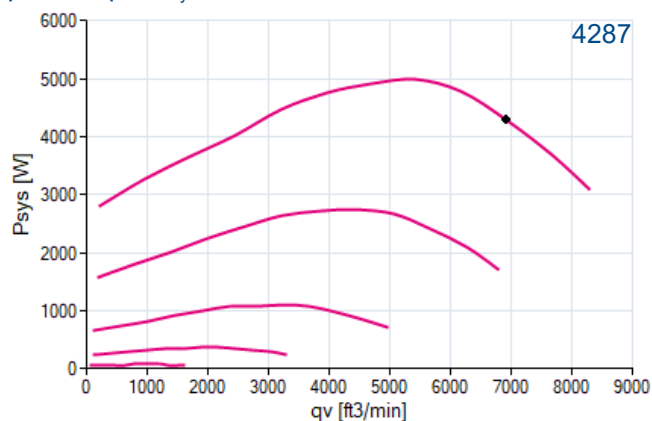
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GR45I-ZID.GG.CR

116903/A01 | Portfolio
STD-WW

measured in standard nozzle in installation type A according to ISO 5801

measurement density 0.072 [lbs/ft³]

efficiency grade $\eta_{F,sys}$ efficiency grade $\eta_{sF,sys}$ power input P_{sys} 

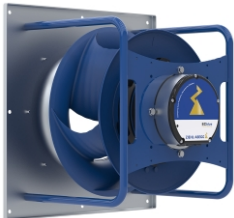


nominal values

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GR45I-ZID.GG.CR
116903/A01

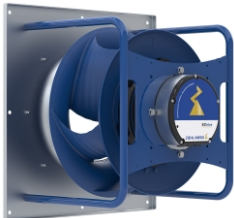
3~ 380-480V 50Hz P1 5.00kW
8.00-6.40A 2620/MIN 40°C
3~ 380-480V 60Hz P1 5.00kW
8.00-6.40A 2620/MIN 40°C
IP55 THCL155

drawing

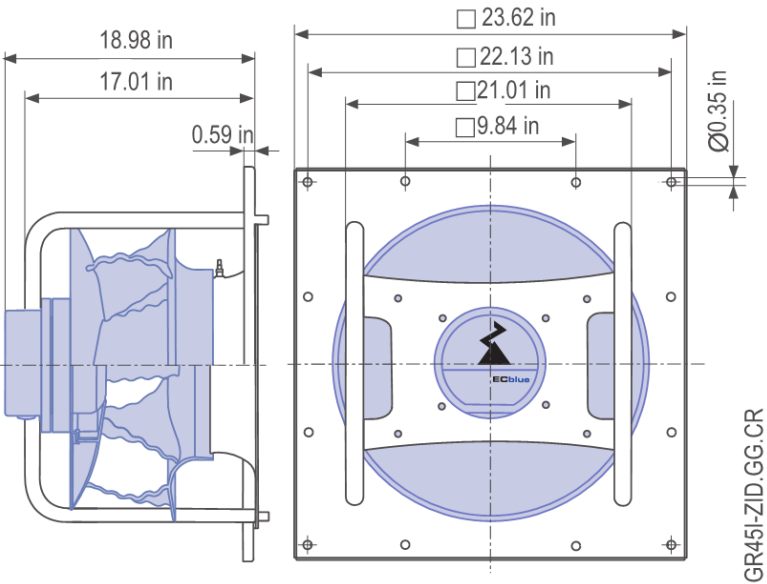
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116903/A01

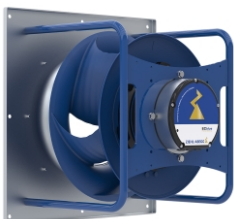


wiring diagram

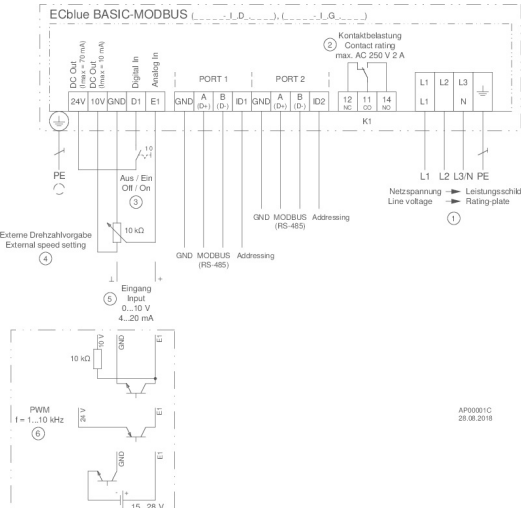
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GR45I-ZID.GG.CR
116903/A01



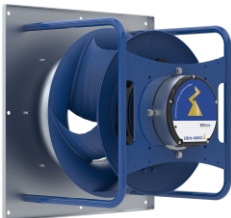


system components

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