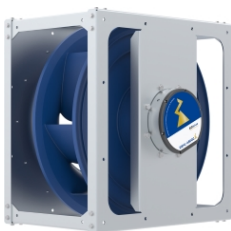


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GR50C-ZID.GQ.CR | 182284/A01 | Portfolio STD-WW | Cpro ECblue

Technical Description

Ventilation unit GR..Cpro-ECblue for vertical airflow**GR25C - GR63C:**

- Bolted supporting structure made of galvanized sheet steel
- Galvanized components can be coated with epoxy-/ polyester powder coating
RAL 7032 for a surcharge
- Ventilation data (fan curve) and motor allocation equivalent to ER..Cpro-ECblue
- Inlet ring designed for optimum air flow, made of galvanised steel sheet with
measuring device for determination of flow rate
- Installation position vertical motor shaftVu = impeller at the bottomVo = impeller at the top
- Module decoupled by rubber dampers

Ventilation unit GR..Cpro-ECblue for horizontal airflow

- Bolted supporting structure made of galvanized sheet steel
- Galvanized components can be coated with epoxy-/ polyester powder coating
RAL 7032 for a surcharge
- Sizes 250 ... 630 mm
- Ventilation data (fan curve) and motor allocation equivalent to ER..Cpro-ECblue
- Inlet ring designed for optimum air flow, made of galvanised steel sheet with
measuring device for determination of flow rate
- Installation position horizontal motor

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



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- 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_):

- **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

7/6/2023

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RLT V 1.00 Dezember, 2021 / 1.23.03.27 | 40932 | (user ZAFS30932)



| | |
|-------------|-------------------------------|
| type | GR50C-ZID.GQ.CR |
| article no. | 182284/A01 Portfolio STD-WW |

technical data

| | | |
|--|--------|---------------------------------|
| motor | ECblue | |
| Efficiency class | IE5 | |
| mains supply | - | 3~ 400V 50Hz |
| ambient temperature, max. limit (t_a) | °C | 40 |
| efficiency grade η_{statA} | % | 69,5 |
| efficiency grade N_{actual} N_{target} | | 72,2 62 |
| ErP-conformity | | 2015 EC controller integrated |
| grille influence | | no |

fan data

| | | |
|--|--------------|-----------------|
| SFP-class SFP-value (P_{SFP}) | - Ws/m^3 | 4 1956 |
| airflow volume (q_v) | ft^3/min | 4450.0 |
| air velocity | m/s | 8.67 |
| pressure, stat. (p_{sF}) tot. (p_F) | in.wg. Pa | 5.000 1289 |
| electrical power input (P_{sys}) | W | 4107 |
| system eff., stat. ($\eta_{sF,sys}$) tot. ($\eta_{F,sys}$) | % | 63.7 65.9 |
| fan speed (n) max. (n_{max}) | 1/min | 1980 2180 |
| fan speed, set value ($\%n_{max}$) | % | 91 |
| frequency (f_{DP}) (f_{max}) | Hz | 50 60 |
| voltage (U_{DP}) | V | 400 |
| current (I_{DP}) | A | 6.27 |
| acoustics, suction side ($L_{w(A),5}$) ($L_{w,5}$) | dB | 82 86 |
| acoustics, pressure side ($L_{w(A),6}$) ($L_{w,6}$) | dB | 92 94 |
| dimensions (w x h x d) | mm | 600 x 600 x 502 |
| product weight (m_{pr}) | kg | 63 |
| k-factor nozzle pres. (k) | - | 252 |
| differential pres. nozzle ($p_{sF \text{ nozzle}}$) | Pa | 900 |

PF:PF_50; Ano:182284; STol:+-10 %



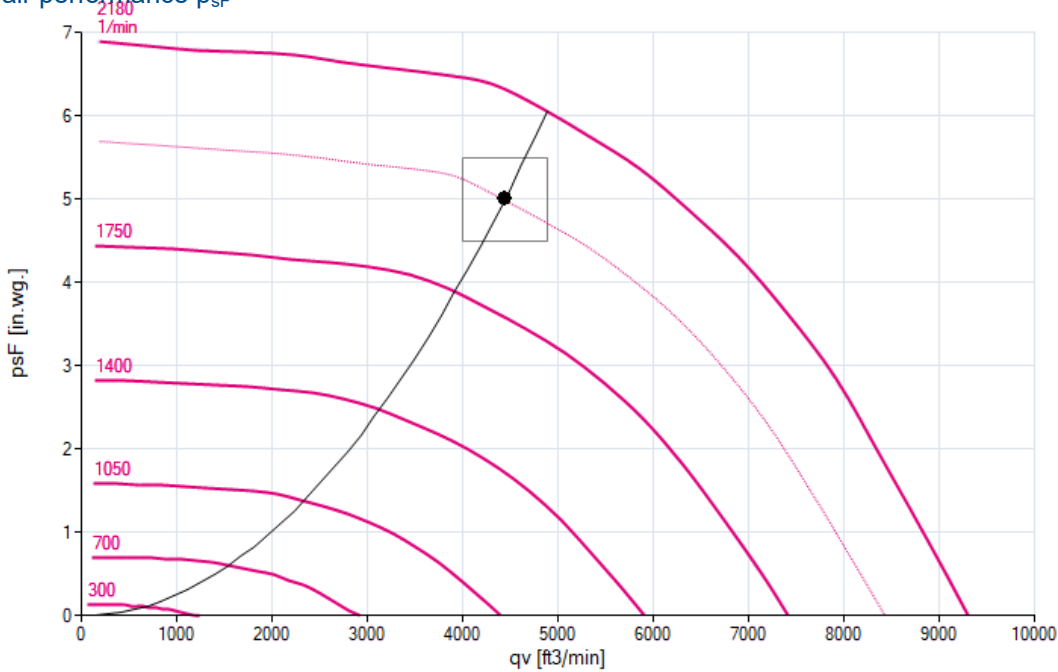
performance curve / acoustics

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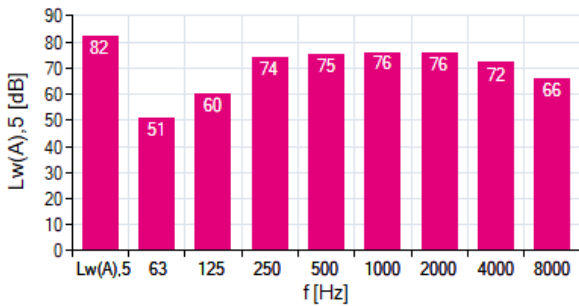
Version FANselect V 1.01 (230327), AMCA V 1.03 September, 2021
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- 1 **GR50C-ZID.GQ.CR** measured in standard nozzle in installation type A according to ISO 5801
 182284/A01 | Portfolio measurement density 1.16 [kg/m³]
 STD-VWV

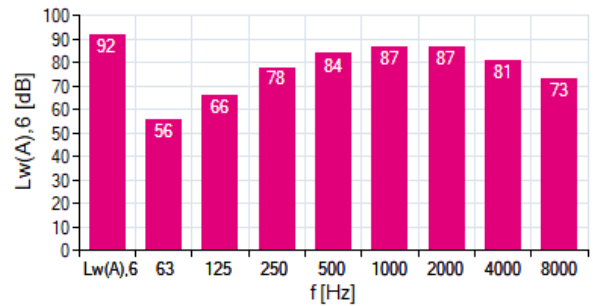
air performance p_{sF}



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



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



1 GR50C-ZID.GQ.CR

| f [Hz] | sum | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---------------------|-----|----|-----|-----|-----|------|------|------|------|
| L _{w(A),5} | 82 | 51 | 60 | 74 | 75 | 76 | 76 | 72 | 66 |
| L _{w,5} | 86 | 77 | 75 | 82 | 79 | 76 | 75 | 71 | 67 |

| f [Hz] | sum | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
|---------------------|-----|----|-----|-----|-----|------|------|------|------|
| L _{w(A),6} | 92 | 56 | 66 | 78 | 84 | 87 | 87 | 81 | 73 |
| L _{w,6} | 94 | 82 | 81 | 87 | 87 | 87 | 86 | 80 | 74 |

FANselect



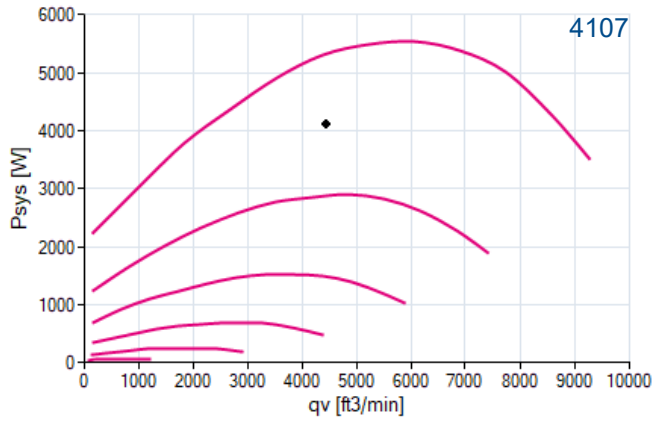
power input

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RLT V 1.00 Dezember, 2021 / 1.23.03.27 | 40932 | (user ZAFS30932)

- 1 **GR50C-ZID.GQ.CR** measured in standard nozzle in installation type A according to ISO 5801
182284/A01 | Portfolio measurement density 1.16 [kg/m³]
STD-VW

power input P_{sys}





nominal values

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GR50C-ZID.GQ.CR
182284/A01

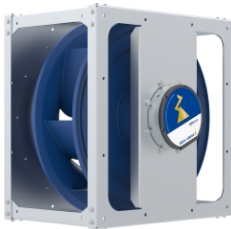
3~ 380-480V 50Hz P1 5.60kW
8.80-7.00A 2180/MIN 40°C
3~ 380-480V 60Hz P1 5.60kW
8.80-7.00A 2180/MIN 40°C
IP55 THCL155

drawing

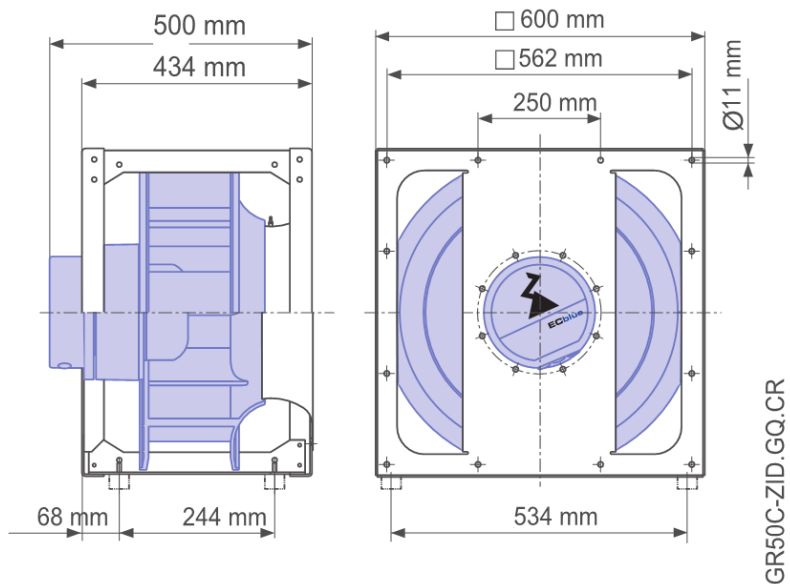
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GR50C-ZID.GQ.CR
182284/A01



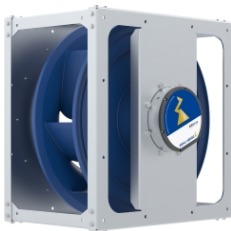
GR50C-ZID.GQ.CR

wiring diagram

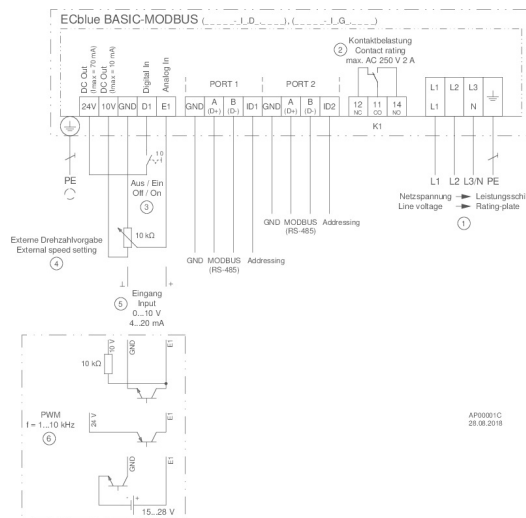
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version FANselect V 1.01 (230327), AMCA V 1.03 September, 2021
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GR50C-ZID.GQ.CR
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system components

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| | |
|-------------|-----------------|
| type | GR50C-ZID.GQ.CR |
| article no. | 182284/A01 |

Vorleitgitter
type: ZAflow
article no.: 00415085