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ZN080-ZIL.GG.V7P3 | 180799 | Portfolio STD-WW | FE2owlet ECblue

Technical Description FE2owlet with ZAplus

Range ZN

Standard design with AC motor

- Profiled, sickle shaped blades designed with bionical know how
- Sizes 450 ... 900 mm (in 6 standard sizes)
- Highest efficiency with optimized full bell mouth with guide vane and diffusor
- Integrated speed control
- ZIEHL-ABEGG FE2owlet ECblue with ZAplus fans can be used with active temperature management from -35°C* up to 70°C.

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:

- THCL 155

Protection:

- IP55

Material of impeller:

- Aluminium die-cast or high performance composite material

Painting:

- Fan unpainted
- ZAplus made from high performance composite material in black, unpainted

On request:

- Guard grille suction side
- Additional diffusor (increase of efficiency)
- Different paintings
- Heater (de-icing of the nozzle)
- 4 different built in versions

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***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.**

dane wentylatora

25.06.2021

wersja FANselect V 1.01 (210625), AMCA V 1.03 April, 2021 / 1.21.06.25 | 21314 | (użytkownik ZAFS11314)

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typ	ZN080-ZIL.GG.V7P3
nr art.	180799 Portfolio STD-WW

dane techniczne

silnik	ECblue
klasa sprawności	IE5
zasilanie sieciowe	-
temperatura otoczenia, max. limit (t_r)	°C
sprawność η_{statA}	%
klasa sprawności $N_{\text{aktual}} N_{\text{target}}$	62,1 40
ErP-zgodność	2015 EC regulator zintegrowany
siatka wpływ	strona tłoczna mierzona

dane wentylatora

prędkość wentylatora(n) max. (n_{max})	1/min	- 950
częstotliwość (f_{BP}) (f_{max})	Hz	50 60
wymiary (szer x wys x dług)	mm	1000 x 998 x 332
waga (m_{pr})	kg	37.8

PF:PF_50; Ano:180799; STol:±10 %

charakterystyka wydajnościowa / akustyka

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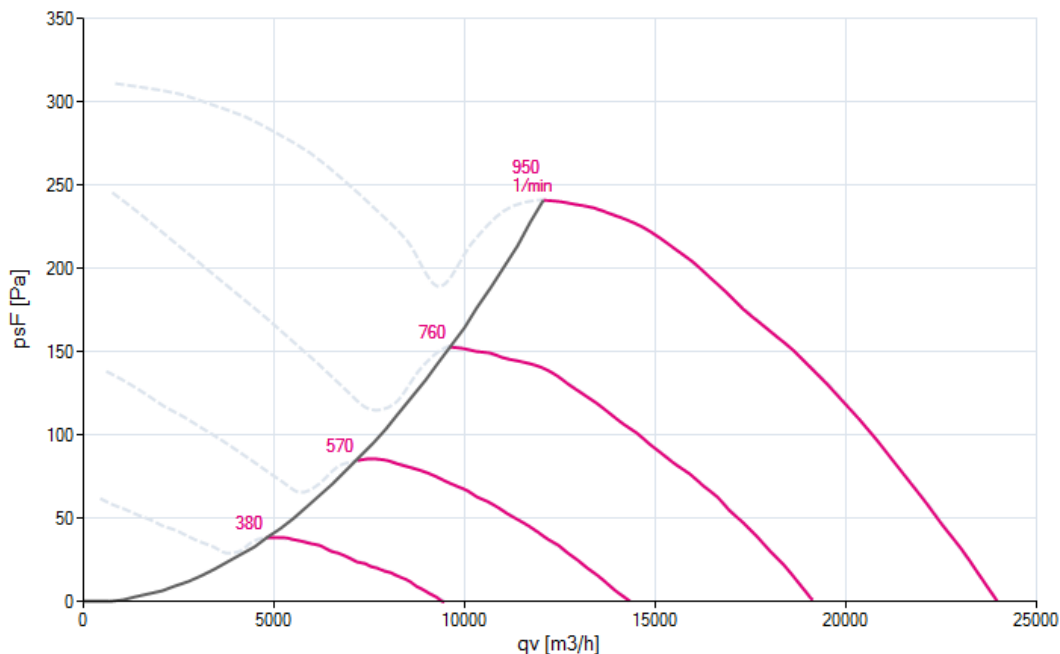
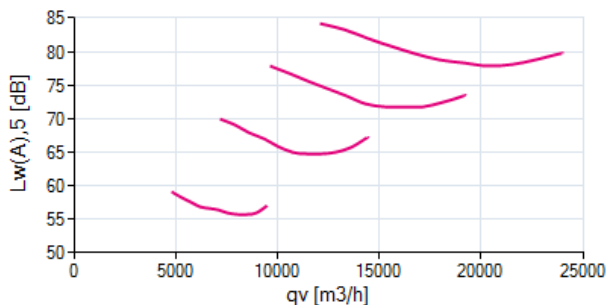
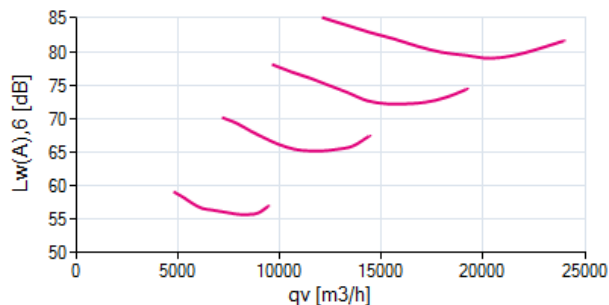
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ZN080-ZIL.GG.V7P3

zmierzone w obudowie ZAPLUS, z siatką ochronną po stronie tłocznej, kierunek przepływu powietrza V, typ montażu A zgodnie z ISO 5801

180799 | Portfolio STD-WW

wg. temp zew 1.16 [kg/m³]

wydajność powietrza p_{sF} akustyka ($L_{w(A),5}$)akustyka ($L_{w(A),6}$)

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f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),5}$	-	-	-	-	-	-	-	-	-
$L_{w,5}$	-	-	-	-	-	-	-	-	-

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),6}$	-	-	-	-	-	-	-	-	-
$L_{w,6}$	-	-	-	-	-	-	-	-	-

sprawność / pobór mocy całk.

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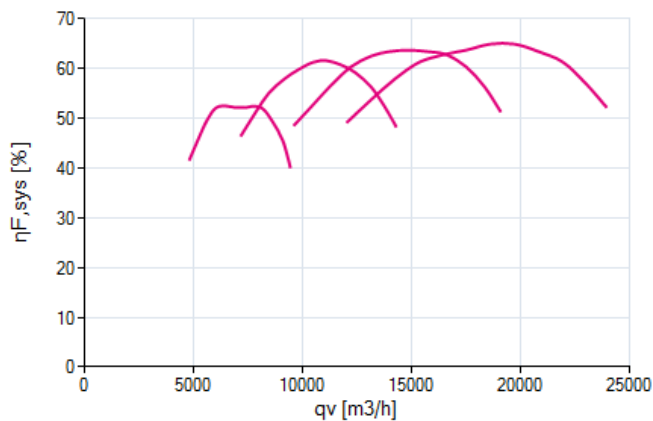
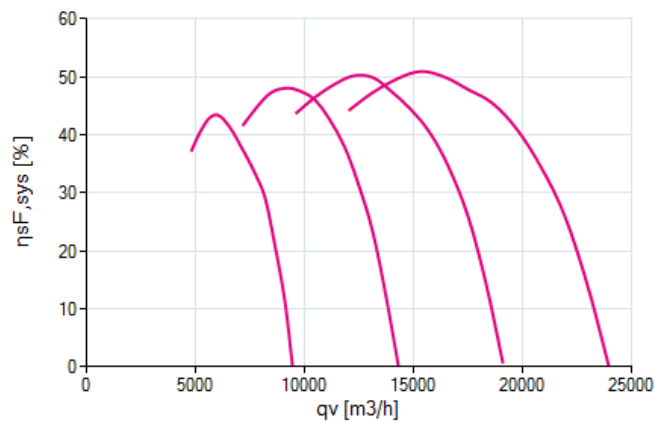
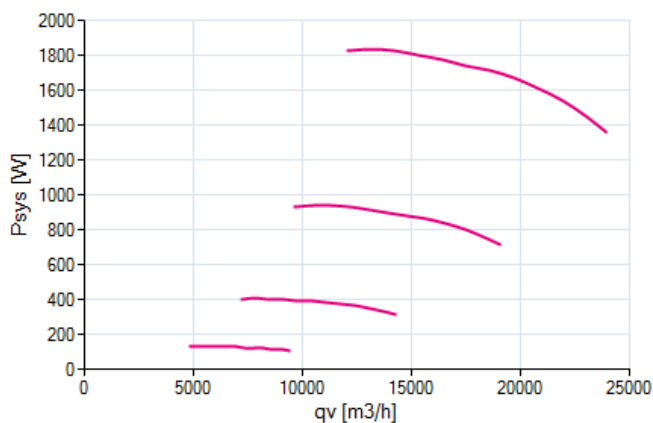
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ZN080-ZIL.GG.V7P3

zmierzone w obudowie ZAPLUS, z siatką ochronną po stronie tłocznej, kierunek przepływu powietrza V, typ montażu A zgodnie z ISO 5801

180799 | Portfolio STD-WW

wg. temp zew 1.16 [kg/m³]

sprawność $\eta_{F,sys}$ sprawność $\eta_{sF,sys}$ pobór mocy całk. P_{sys} 



FANselect

dane znamionowe

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3~ 380-480V 50Hz P1 1.85kW
 3.00-2.40A 950/MIN 70°C
 3~ 380-480V 60Hz P1 1.85kW
 3.00-2.40A 950/MIN 70°C
 IP55 THCL155

rysunek

25.06.2021

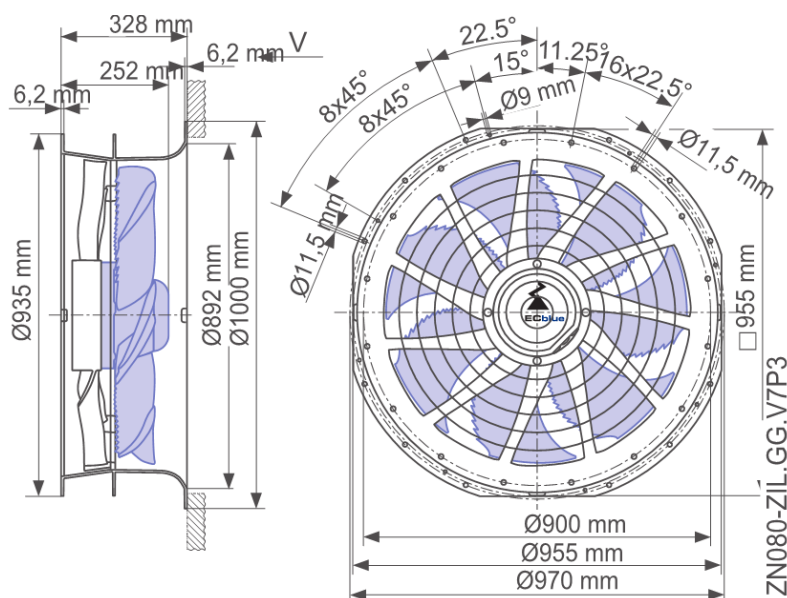
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schemat elektryczny

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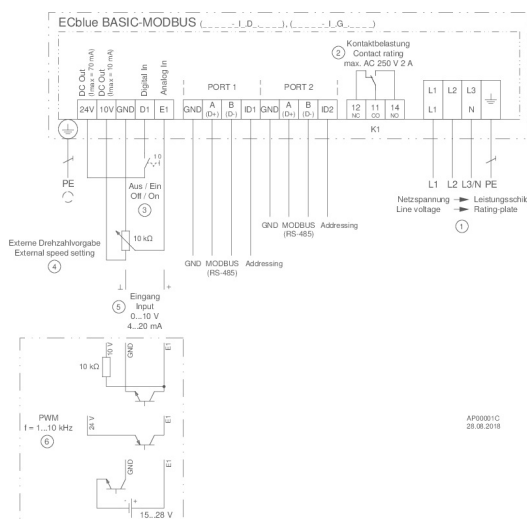
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wyposażenie dodatkowe

25.06.2021

wersja FANselect V 1.01 (210625), AMCA V 1.03 April, 2021 / 1.21.06.25 | 21314 | (użytkownik ZAFS11314)



typ	ZN080-ZIL.GG.V7P3
nr art.	180799



Series
ZN

Design
FE2owlet-ECblue with ZAplus

Specification

- Direct-driven axial fan
- Aerodynamic-optimised, sickle-blade profile, patterned with serrated trailing edge and winglets on the blade outer edge for energy and noise-optimised operation
- High efficient external rotor motor with innovative bionic blade in die-cast aluminium or composite injection moulded
- Highest efficiency with an optimized full bell mouth with guide vane and diffusor
- Impeller: Ø 450 – 1000 mm
- Balanced in Class G 6.3 acc DIN ISO 21940, dynamic on two levels.
- Any fitting position
- Drive motor in external rotor principle, sealed in protection class IP55
- Version with integrated electronics (IP65)
- Fan overtemperature protection through active temperature management
- Motor painted in RAL 5002
- Thermal class THCL 155
- The motor efficiency class complies with IE5
- The permissible ambient temperature is -35°C* to max. +40°C (see data sheet)
- Maintenance-free ball bearings sealed on both sides with long-term lubrication
- Fan characteristic curve refer to measurements made on a combined air performance and acoustic test rig according DIN EN ISO 5801, or AMCA 210-99
- Make the electrical connection according to the operating instructions
- Highest efficiency with optimized full bell mouth with guide vane and diffusor
- ZAplus made from high performance composite material
- Modbus integrated as standard

System components
Guard grille, inlet rings

Technical data

Fan type	_____	
Fan size (Ø)	_____	mm
Design	_____	
Air flow (q _v)	_____	m³/h
Static pressure rise (Δp _{sF})	_____	Pa
Rated voltage (U)	_____	V
Mains frequency (f)	_____	Hz
Rated power (P _N)	_____	kW
Efficiency (η _{sF})	_____	%
Rated speed (n)	_____	min ⁻¹
Media temperature (t _R)	_____	°C
Sound power level (L _{WA})	_____	dB(A)
Weight (m)	_____	kg

Further designs on request



All frame sizes are available in various grill and nozzle versions (designs).

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