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FN045-6EH.2F.V7P3 | 141706 | Portfolio STD-WW | FE2owlet AC

Technical Description FE2owlet

Range FN

Standard design with AC-motor

- Profiled, sickle shaped blades designed with bionical know how
- Sizes 310 ... 800 mm (in 9 standard sizes)
- Optimized for full bell mouth
- 100% speed controllable
- ZIEHL-ABEGG FE2owlet fans can be used from -40°C* up to 70°C.

Mains voltage:

- 3~ zweitourig 400 V ±10% D/Y
- 3~ zweitourig 400/460 V ±10% D/Y

Frequenz:

- 50 Hz
- 60 Hz

Thermal class:

- THCL 155

Protection:

- IP54

Motor protection:

- Thermostat relay (TB)

Material of impeller:

- Aluminium die-cast

Painting:

- Fan in color RAL 9005 deep black
- Wall ring plate and suspension in color RAL 9005 deep black

On request:

- Different paintings
- Fan designs

***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**

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bearings for refrigeration applications on request.



fan data

18.12.2022

version FANselect V 1.01 (221216), AMCA V 1.03 September, 2021
RLT V 1.00 Dezember, 2021 / 1.22.12.16 | 53567 | (user ZAFS43567)



type	FN045-6EH.2F.V7P3
article no.	141706 Portfolio STD-WW

technical data

motor		AC
mains supply	-	1~ 230V 50Hz
nominal current (I_N)	A	0.82
capacitor (C_{400V})	μF	6.0
ambient temperature, max. limit (t_r)	$^{\circ}C$	70
efficiency grade η_{statA}	%	25,3
efficiency grade N_{actual} N_{target}		36,3 36
grille influence		pressure side not measured

fan data

SFP-class SFP-value (P_{SFP})	- Ws/m^3	1 191
airflow volume (q_v)	m^3/h	3197
pressure, stat. (p_{sF}) tot. (p_F)	Pa	40 58
electrical power input (P_1)	W	170
efficiency grade, stat. (η_{sF}) tot. (η_F)	%	20.9 30.5
fan speed (n) max. (n_{max})	1/min	870 920
frequency (f_{DP}) (f_{max})	Hz	50 60
voltage (U_{DP})	V	222
current (I_{DP})	A	0.78
acoustics, suction side ($L_{w(A),5}$) ($L_{w,5}$)	dB	59 73
acoustics, pressure side ($L_{w(A),6}$) ($L_{w,6}$)	dB	59 72
product weight (m_{pr})	kg	9.5

PF:PF_50; Ano:141706; STot:+-10 %



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performance curve / acoustics

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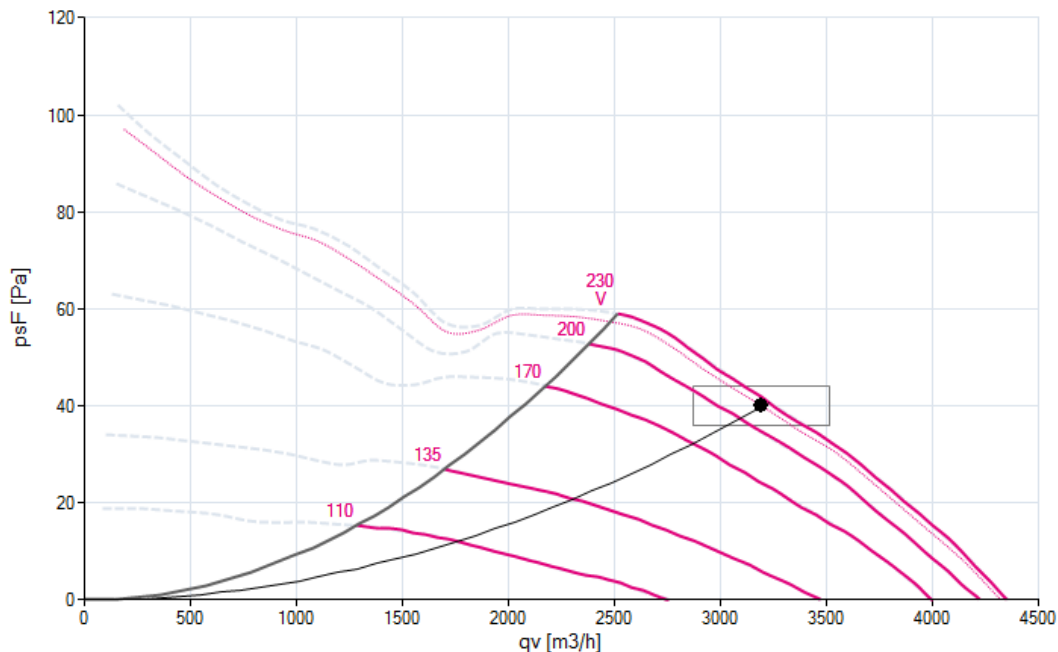
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1 FN045-6EH.2F.V7P3

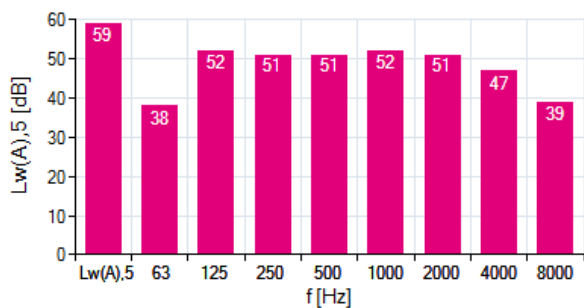
Measured in full nozzle without guard grille in air flow direction V in installation type A according to ISO5801

141706 | Portfolio STD-WW measurement density 1.16 [kg/m³]

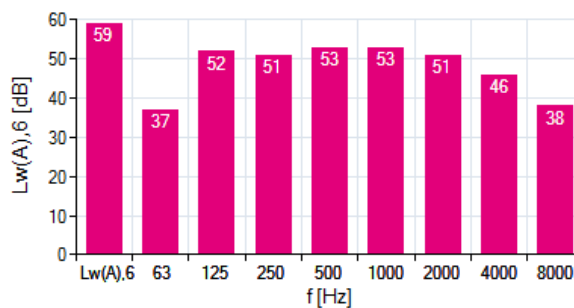
air performance p_{sF}



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



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



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f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),5}$	59	38	52	51	51	52	51	47	39
$L_{w,5}$	73	67	71	62	55	52	50	46	40

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),6}$	59	37	52	51	53	53	51	46	38
$L_{w,6}$	72	66	70	61	57	53	50	45	38



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efficiency grade / power input

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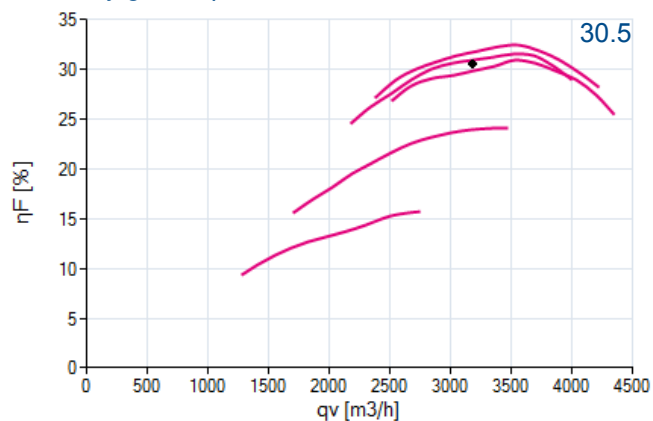
FN045-6EH.2F.V7P3

Measured in full nozzle without guard grille in air flow direction V in installation type A according to ISO5801

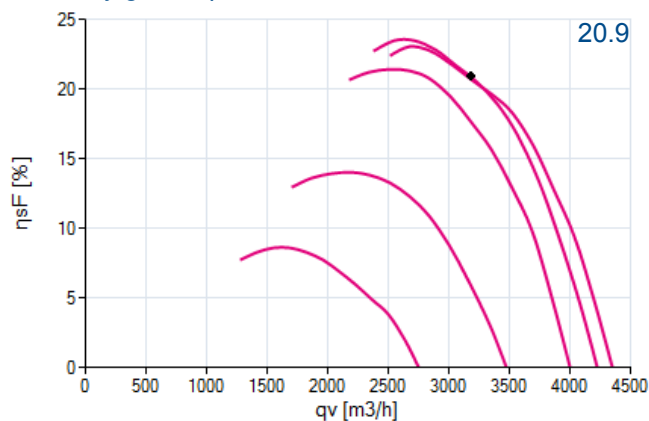
141706 | Portfolio STD-WWW

measurement density 1.16 [kg/m³]

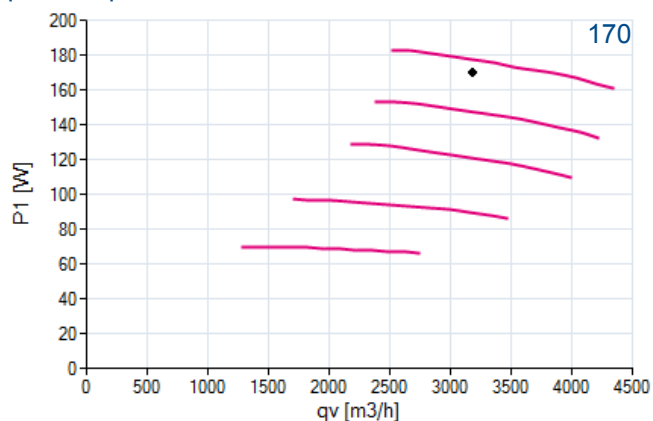
efficiency grade η_F



efficiency grade η_{sF}



power input P_1





nominal values

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141706

1~ 230V +10/-10 50Hz P1 0.18kW
 0.82A DI=0% 870/MIN 6.0µF/400V 70°C
 1~ 230V +10/-10 60Hz P1 0.24kW
 1.05A DI=0% 970/MIN 6.0µF/400V 70°C
 IP54 THCL155

drawing

18.12.2022

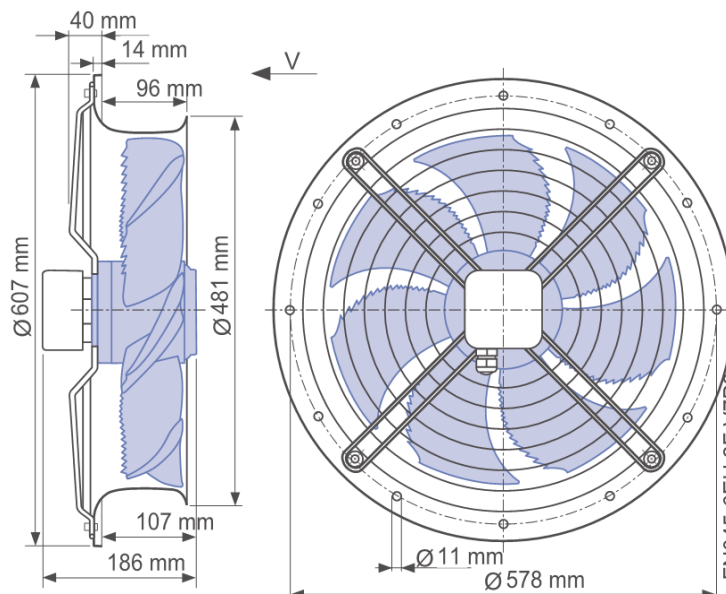
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wiring diagram

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141706

1-Motor mit Kondensator und Thermostatschalter.
 1-Motor with capacitor and thermostatic switch.
 Moteur monophasé avec condensateur et interrupteur thermostatique.

U2 blau oder grau blue or grey bleu ou gris
 ZZ schwarz black noir
 TB braun brown brun

not available
 Rotation à droite



Anschlussschaltbild im Anschlusskasten aufbewahren.
 Keep wiring diagram in terminal box.
 Conserver le schéma de raccordement dans la boîte à bornes.



type	FN045-6EH.2F.V7P3
article no.	141706

capacitor housing
 type: GC3
 article no.: 00264065

capacitor housing
 type: GC4
 article no.: 00264066

capacitor housing
 type: GC5
 article no.: 00264067

capacitor housing
 type: GC6
 article no.: 00264069

capacitor housing
 type: GC10
 article no.: 00264071

capacitor housing
 type: GC12
 article no.: 00264072

capacitor housing
 type: GC2
 article no.: 00264073

capacitor housing
 type: GC14
 article no.: 00264074

capacitor housing
 type: GC1,5
 article no.: 00266159

capacitor housing



type: GC16
article no.: 00308236