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FN050-VDK.4I.V7P1 | 140056 | 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	FN050-VDK.4I.V7P1
article no.	140056 Portfolio STD-WW

technical data

motor		AC
mains supply	-	3~ 400V 50Hz Y
nominal current (I_N)	A	1.45
ambient temperature, max. limit (t_r)	°C	70
efficiency grade η_{statA}	%	34,2
efficiency grade N_{actual} N_{target}		41,3 40
ErP-conformity		2015
grille influence		pressure side measured

fan data

SFP-class SFP-value (P_{SFP})	- Ws/m ³	1 387
airflow volume (q_v)	m ³ /h	6718
pressure, stat. (p_{sF}) tot. (p_F)	Pa	99 152
electrical power input (P_1)	W	722
efficiency grade, stat. (η_{sF}) tot. (η_F)	%	25.6 39.2
fan speed (n) max. (n_{max})	1/min	1362 -
frequency (f_{DP}) (f_{max})	Hz	50 50
voltage (U_{DP})	V	400
current (I_{DP})	A	1.32
acoustics, suction side ($L_{w(A),5}$) ($L_{w,5}$)	dB	78 81
acoustics, pressure side ($L_{w(A),6}$) ($L_{w,6}$)	dB	79 83
product weight (m_{pr})	kg	13.3

PF:PF_50; Ano:140056; STot:+-10 %





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performance curve / acoustics

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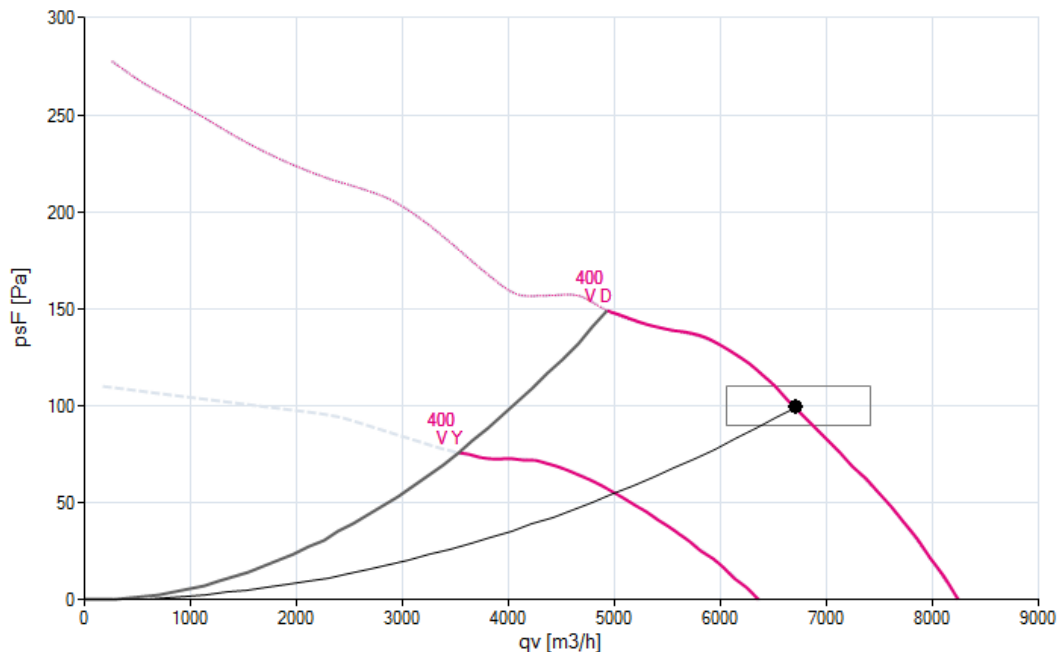
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1 FN050-VDK.4I.V7P1

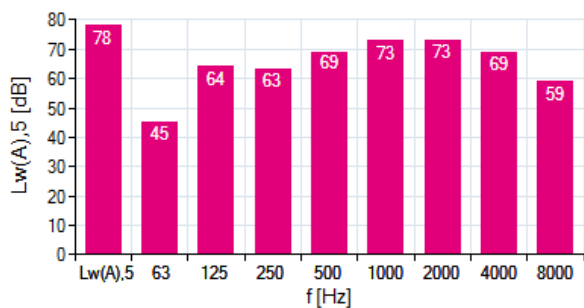
Measured in short nozzle with pressure side guard grille in air flow direction V in installation type A according to ISO5801

140056 | Portfolio STD-WWW measurement density 1.16 [kg/m³]

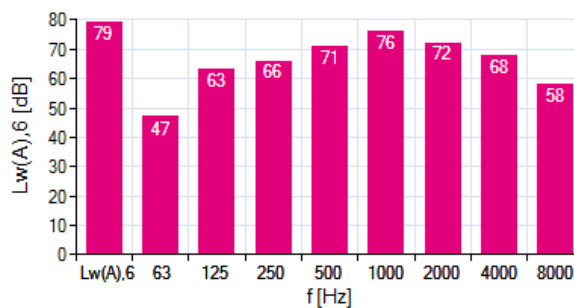
air performance p_{sF}



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



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



1 FN050-VDK.4I.V7P1

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),5}$	78	45	64	63	69	73	73	69	59
$L_{w,5}$	81	71	78	71	72	73	72	68	59

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
$L_{w(A),6}$	79	47	63	66	71	76	72	68	58
$L_{w,6}$	83	73	77	74	74	76	71	67	59

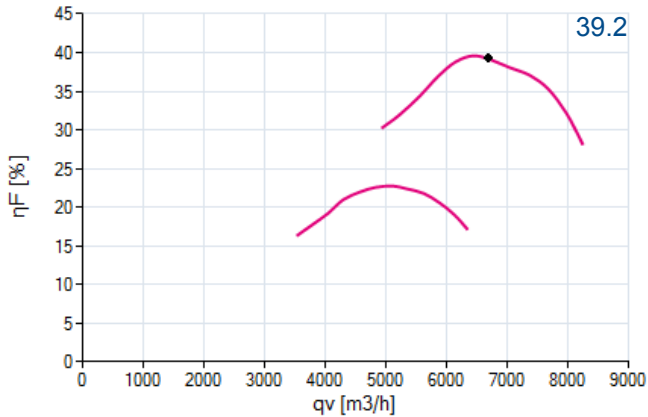


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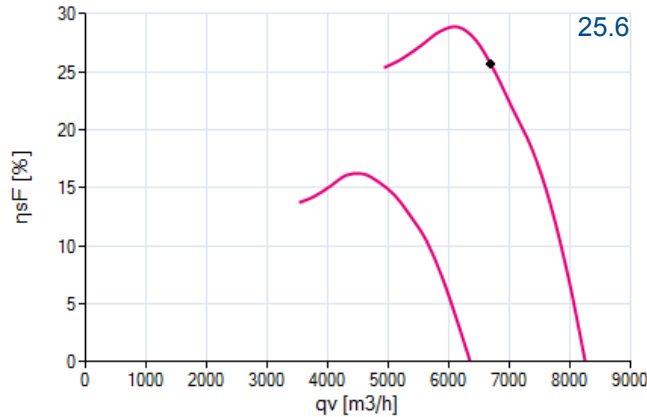
efficiency grade / power input 18.12.2022
Version: FANselect V 1.01 (221216), AMCA V 1.03 September, 2021
 RLT V 1.00 Dezember, 2021 / 1.22.12.16 | 53567 | (user ZAFS43567)

1 **FN050-VDK.4I.V7P1** Measured in short nozzle with pressure side guard grille in air flow direction V in installation type A according to ISO5801
140056 | Portfolio STD-WWW measurement density 1.16 [kg/m³]

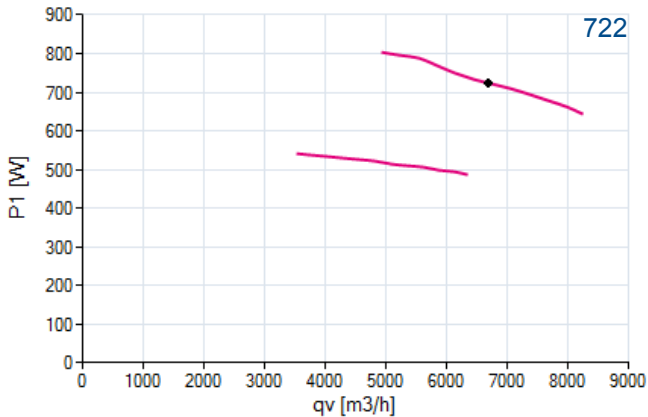
efficiency grade η_F



efficiency grade η_{sF}



power input P_1





nominal values

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FN050-VDK.4I.V7P1
140056

3~ 400V +10/-10 D/Y 50Hz P1 0.84/0.54kW
1.45/0.96A DI=15% 1340/940/MIN COSY 0.80 70°C
IP54 THCL155

drawing

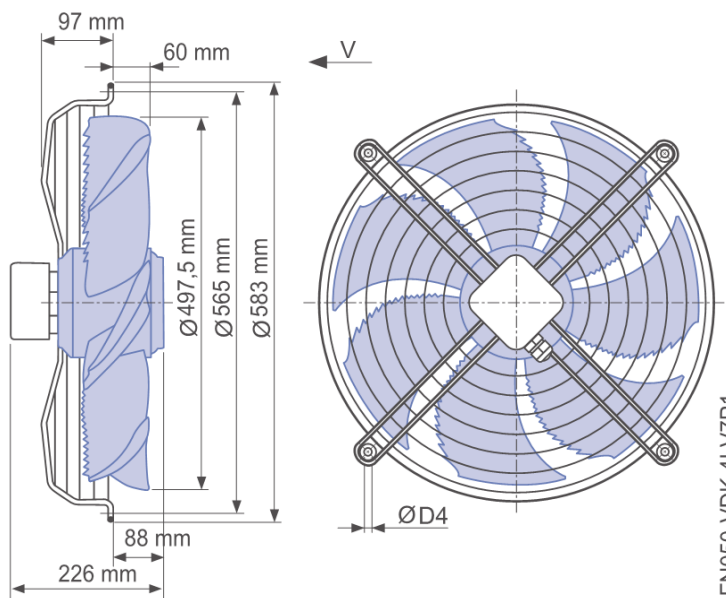
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wiring diagram

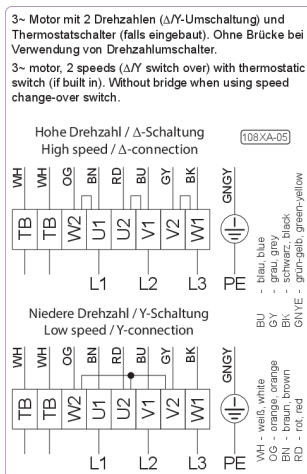
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system components

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type	FN050-VDK.4I.V7P1
article no.	140056

mechanical component	guide vane
	type: Ø 500 article no.: 00286705
	guide vane
	type: Ø 500 article no.: 00291529