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general description

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ZN080-SDL.6N.V7P5 | 168929 | Portfolio STD-WW | FE2owlet AC

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
- 100% speed controllable
- ZIEHL-ABEGG FE2owlet with ZAplus fans can be used from -40°C up to 70°C.

Mains voltage:

- 3~ zweitourig 400 V $\pm 10\%$?/Y
- 1~ 230 V $\pm 10\%$

Frequency:

- 50 Hz
- 60 Hz

Thermal class:

- THCL 155

Protection:

- IP54

Motor protection:

- Thermostat relay (TB)

Painting:

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

On request:

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

*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

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special bearings for refrigeration applications on request.



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fan data



type	ZN080-SDL.6N.V7P5
article no.	168929 Portfolio STD-WW

technical data

motor		AC
mains supply	-	3~ 400V 50Hz D
nominal current (I_N)	A	3.50
ambient temperature, max. limit (t_a)	°C	70
efficiency grade η_{statA}	%	39,6
efficiency grade N_{actual} N_{target}		44,7 40
ErP-conformity		2015
grille influence		pressure side measured

fan data

frequency (f_{DP}) (f_{max})	Hz	50 60
dimensions (w x h x d)	mm	955 x 955 x 361
product weight (m_{pr})	kg	40.4

PF:PF_50; Ano:168929; STol:+0 %

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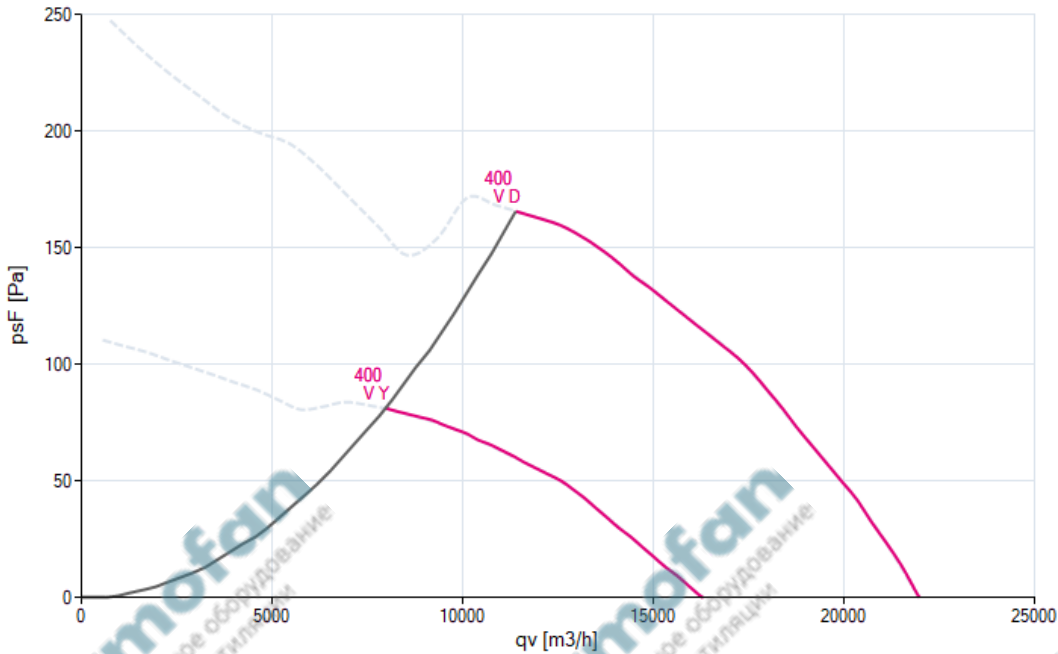
performance curve / acoustics

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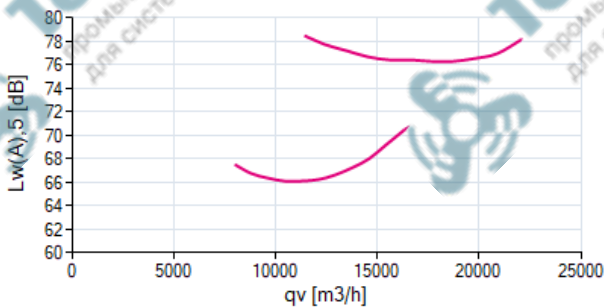
Measured in ZAPlus with pressure side guard grille in air flow direction V in installation type A according to ISO5801

168929 | Portfolio STD-WW measurement density 1.14 [kg/m³]

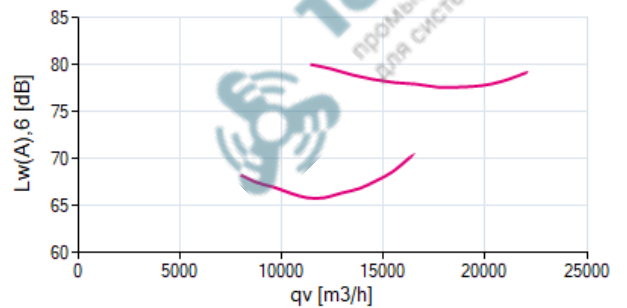
air performance p_{sF}



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

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

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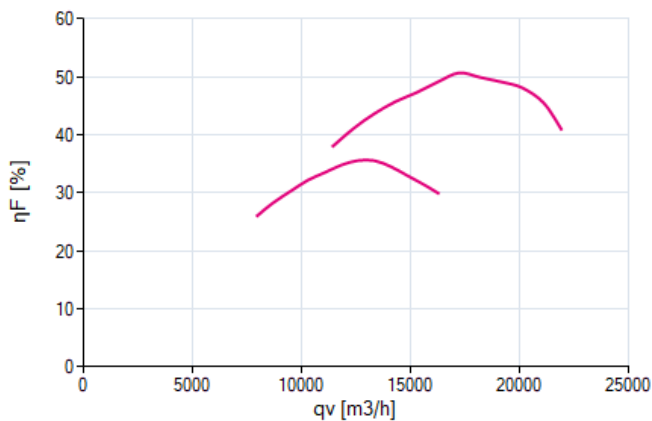
efficiency grade / power input

ZN080-SDL.6N.V7P5

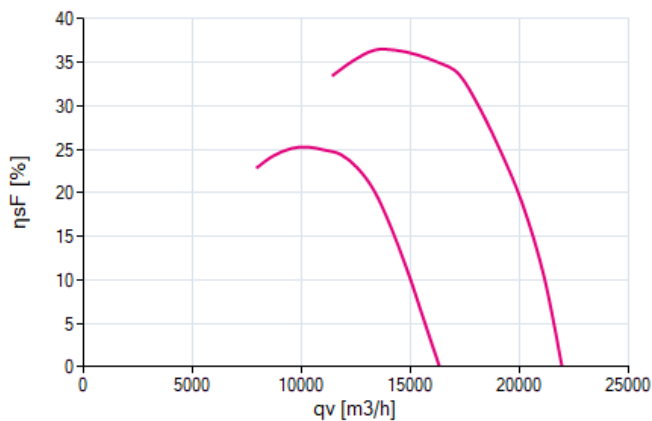
Measured in ZApus with pressure side guard grille in air flow direction V in installation type A according to ISO5801

168929 | Portfolio STD-WW measurement density 1.14 [kg/m³]

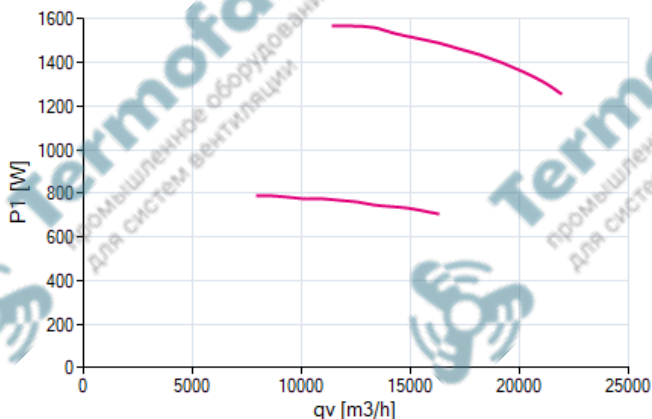
efficiency grade η_F



efficiency grade η_{sF}



power input P_1



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nominal values

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3~ 400V +10/-10 D/Y 50Hz P1 1.60/0.80kW
 3.50/1.55A DI=0% 800/560/MIN COSY 0.66 70°C
 3~ 400V +10/-10 D/Y 60Hz P1 1.90/0.82kW
 3.80/1.60A DI=0% 800/520/MIN COSY 0.73 55°C
 3~ 460V +10/-10 D/Y 60Hz P1 2.30/1.05kW
 4.00/1.75A DI=0% 880/580/MIN COSY 0.71 45°C
 IP54 THCL155

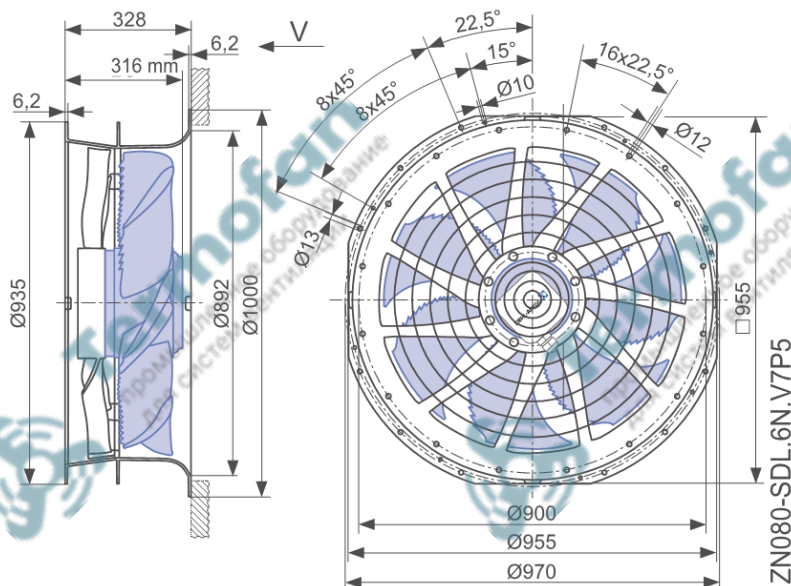
drawing

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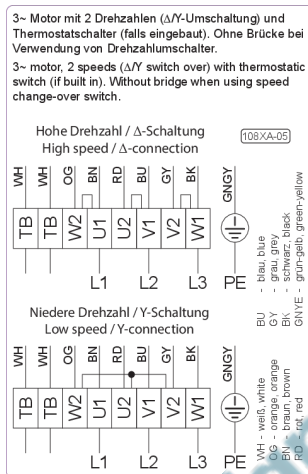
wiring diagram

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system components

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type	ZN080-SDL.6N.V7P5
article no.	168929
mechanical component	backdraft fan shutter article no.: 00264387