

description générale

23.09.2024

version FANselect V 1.01 (240923), AMCA V 1.03 September, 2021<br>RLT V 1.00 Dezember, 2021 / 1.24.09.23 | 1340 | (utilisateur chesneau)

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FN091-ADQ.6N.V7P2 | 156214 | Portfolio Europe | 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 bearings for refrigeration applications on request.



## données ventilateur

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### caractéristiques

moteur		AC
tension principale	-	3~ 400V 50Hz Y
intensité nominale (I <sub>N</sub> )	A	1.10
température ambiante (t <sub>r</sub> )	°C	70
rendement η <sub>statA</sub>	%	36,5
Rendement N <sub>actual</sub>   N <sub>target</sub>		<b>43,2</b>   40
classe ErP		2015
grille   influence		pressure side   not measured

### données ventilateur

classe-SFP   valeur SFP (P <sub>SFP</sub> )	-   Ws/m <sup>3</sup>	1   135
FEI	-	2.14
débit (q <sub>v</sub> )	m <sup>3</sup> /h	13238
pression, <b>stat.</b> (p <sub>sF</sub> )   tot. (p <sub>F</sub> )	Pa	<b>31</b>   50
puissance absorbée (P <sub>1</sub> )	W	497
rendement, <b>stat.</b> (η <sub>sF</sub> )   tot. (η <sub>F</sub> )	%	<b>23.0</b>   36.9
vitesse ventilateur (n)   max. (n <sub>max</sub> )	1/min	<b>538</b>   -
frequence (f <sub>BP</sub> )   (f <sub>max</sub> )	Hz	<b>50</b>   60
tension au point de fonctionnement (U <sub>DP</sub> )	V	400
intensité au point de fonctionnement (I <sub>DP</sub> )	A	1.00
niveau sonore, coté aspiration (L <sub>w(A),5</sub> )   (L <sub>w,5</sub> )	dB	<b>65</b>   77
niveau sonore, coté refoulement (L <sub>w(A),6</sub> )   (L <sub>w,6</sub> )	dB	<b>66</b>   76
dimensions (Lxlxh)	mm	1070 x 1070 x 307
poids (m <sub>pr</sub> )	kg	50.7

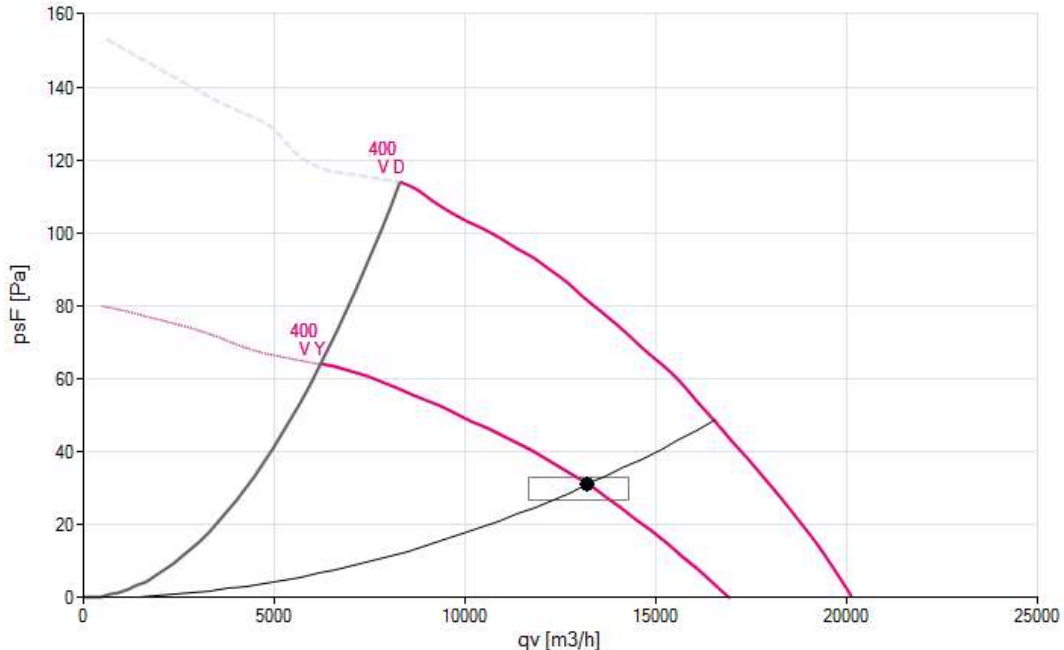
PF:PF\_61; Ano:156214; STot:±10 %



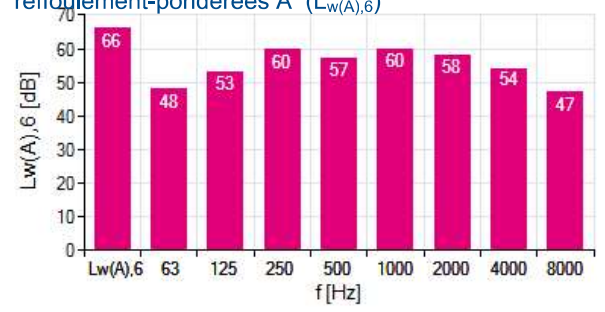
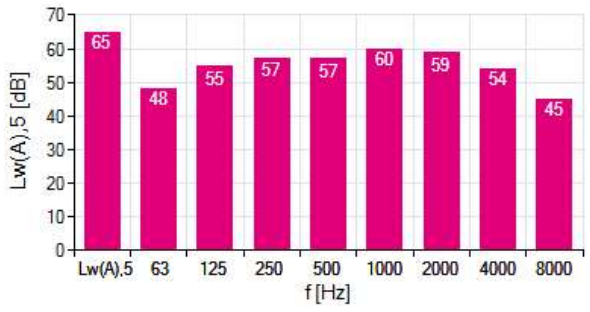
courbe debit/pression / Acoustic 23.09.2024  
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**1 FN091-ADQ.6N.V7P2** Measured in full nozzle without guard grille in air flow direction V in installation type A according to ISO5801  
 156214 | Portfolio Europe densité de mesure 1.18 [kg/m³]

Performance aéraulique p<sub>sF</sub>



niveau de puissance acoustique côté aspiration-pondérées A (Niveau de puissance acoustique côté refoulement-pondérées A (L<sub>w(A),6</sub>))



1 FN091-ADQ.6N.V7P2									
f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
L <sub>w(A),5</sub>	65	48	55	57	57	60	59	54	45
L <sub>w,5</sub>	77	75	71	66	60	60	57	53	46

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
L <sub>w(A),6</sub>	66	48	53	60	57	60	58	54	47
L <sub>w,6</sub>	76	74	69	67	60	60	57	53	47



## rendement / puissance

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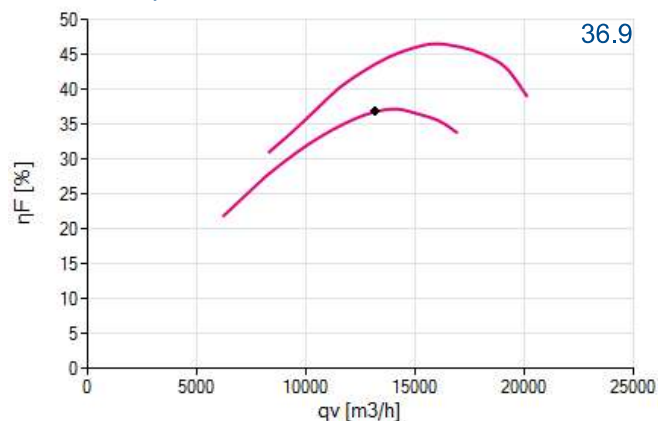
FN091-ADQ.6N.V7P2

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

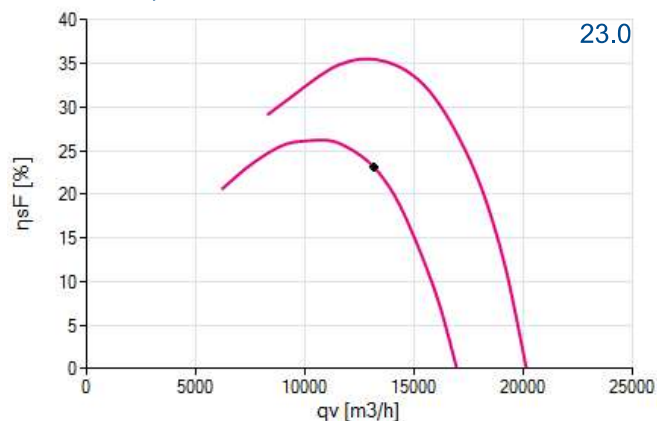
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densité de mesure 1.18 [kg/m³]

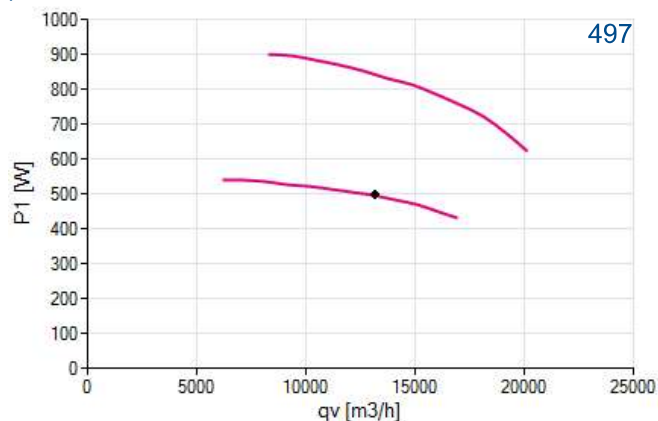
### rendement $\eta_F$



### rendement $\eta_{sF}$



### puissance $P_1$



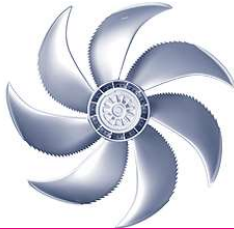


## valeur nominale

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3~ 400V D/Y 50Hz P1 0.90/0.54kW P2 0.59/0.25kW  
 2.20/1.10A DI=0% 660/500/MIN COSY 0.61 70°C  
 3~ 400V D/Y 60Hz P1 1.25/0.58kW P2 0.68/0.19kW  
 2.50/1.20A DI=0% 700/460/MIN COSY 0.71 70°C  
 3~ 460V D/Y 60Hz P1 1.40/0.72kW P2 0.84/0.28kW  
 2.60/1.30A DI=0% 750/520/MIN COSY 0.68 70°C  
 IP54 THCL155

## plan

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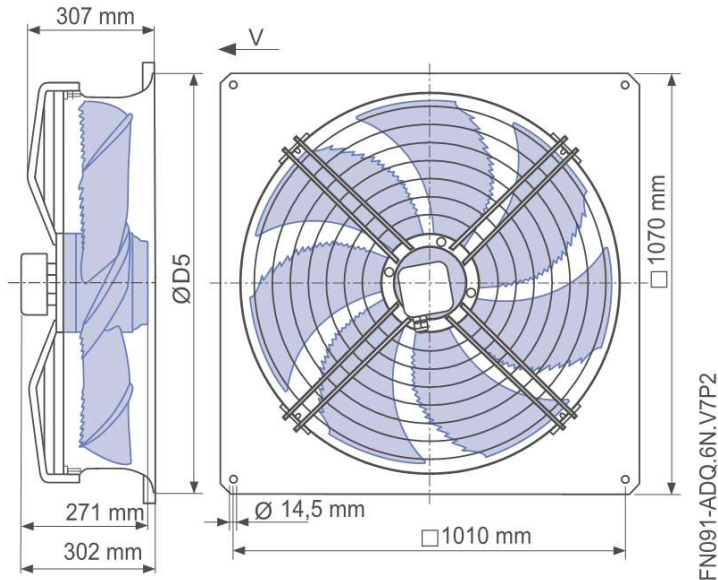
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## schéma de bobinage

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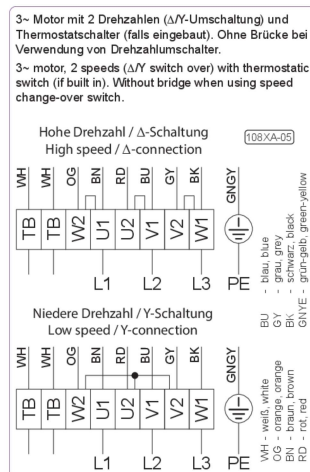
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