

# FE 2 owlet-EC blue

for three phase alternating current, 380-480 V

FN 091



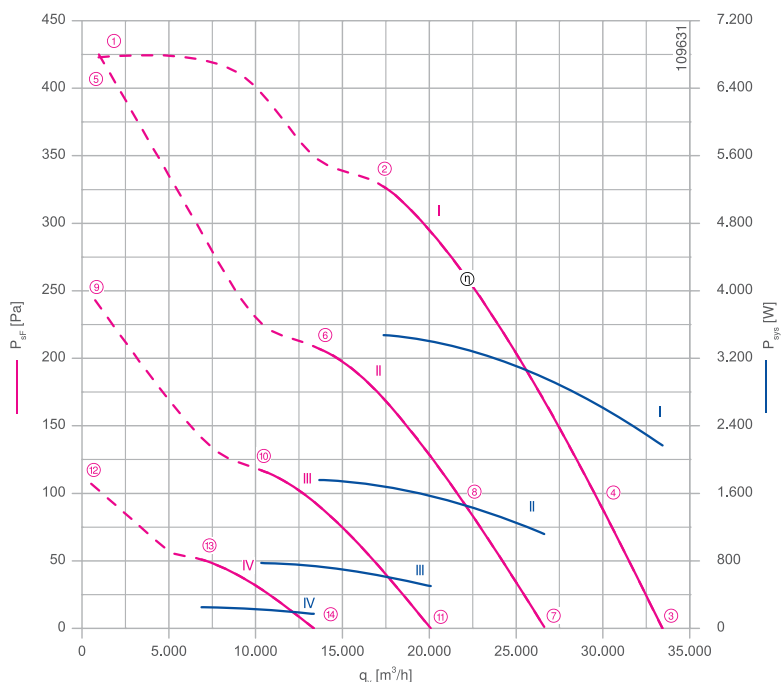
## Description

Motor technology: EC  
Rated voltage  $U_N$ : 3~ 380-480 V\*  
Rated frequency  $f_N$ : 50/60 Hz\*  
Input power  $P_{sys}$ : 3.50 kW\*  
Rated current  $I_N$ : 5.60- 4.40 A\*  
Rated speed  $n_N$ : 1130 min<sup>-1</sup>\*  
Thermal class: THCL155\*  
Min. permitted ambient temperature  $t_{R(min)}$ : -35 °C  
Max. permitted ambient temperature  $t_{R(max)}$ : 40 °C  
Electrical connection: Integrated controller  
Number of blades: 5  
Degree of protection : IP55  
Motor protection: Integrated active temperature management  
Blades: Aluminium, powder-coated, ultramarine blue  
Rotor: Aluminium, 2 coat paint, ultramarine blue  
Conformity: ErP 2015, CE, UL

## ErP-data

Efficiency  $\eta_{statA}$ : 52.4 %  
Efficiency:  $N_{actual} = 55.5 / N_{target} = 40^{**}$   
EC controller integrated  
\* Rated data  
\*\*ErP 2015

## Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

Connection diagram

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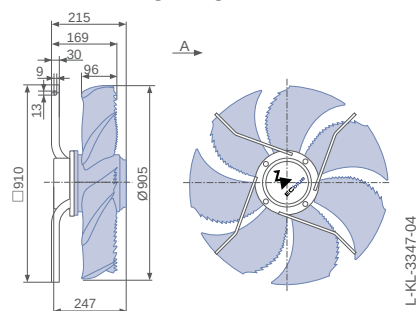
System components

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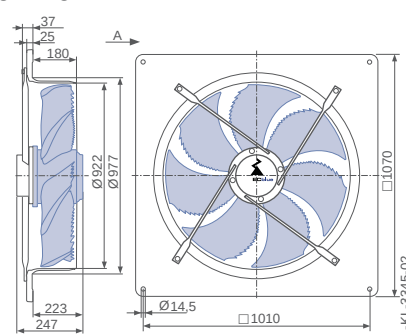
## Dimensions mm

### Airflow direction A

Design T - for installation in chimney ex-hausts, without guard grille

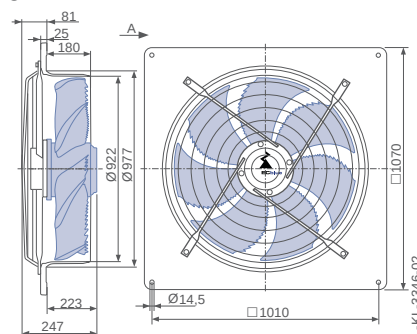


Design Q - square full bell mouth, without guard grille



Wall ring plate made of composite material

Design Q - square full bell mouth, guard grille suction side



Wall ring plate made of composite material

## Performance data

| Type            | Characteristic curve | Speed                  | Operating point | Current | Input power           | Acoustic pressure level 7m | Specific power                 |
|-----------------|----------------------|------------------------|-----------------|---------|-----------------------|----------------------------|--------------------------------|
|                 |                      | n<br>min <sup>-1</sup> |                 | I<br>A  | P <sub>sys</sub><br>W | L <sub>pA</sub><br>dB(A)   | P <sub>spez</sub><br>Wh/1000m³ |
| FN091-ZI_GL_5P1 | I                    | 1130                   | ①               | 4.80    | 3100                  |                            |                                |
|                 |                      |                        | ②               | 5.20    | 3500                  |                            | 202.9                          |
|                 |                      |                        | ③               | 3.30    | 2200                  | 59                         | 64.8                           |
|                 |                      |                        | ④               | 4.00    | 2700                  | 58                         | 90.6                           |
|                 | II                   | 900                    | ⑤               | 4.80    | 3100                  |                            |                                |
|                 |                      |                        | ⑥               | 2.70    | 1750                  |                            | 129.3                          |
|                 |                      |                        | ⑦               | 1.80    | 1100                  | 53                         | 42.0                           |
|                 |                      |                        | ⑧               | 2.30    | 1500                  | 53                         | 69.1                           |
|                 | III                  | 680                    | ⑨               | 2.10    | 1350                  |                            |                                |
|                 |                      |                        | ⑩               | 1.30    | 780                   |                            | 75.7                           |
|                 |                      |                        | ⑪               | 0.94    | 500                   | 45                         | 24.9                           |
|                 |                      |                        | ⑫               | 0.84    | 420                   |                            |                                |
|                 | IV                   | 450                    | ⑬               | 0.60    | 250                   |                            | 37.3                           |
|                 |                      |                        | ⑭               | 0.46    | 170                   | 36                         | 12.9                           |

Current values determined at 400V

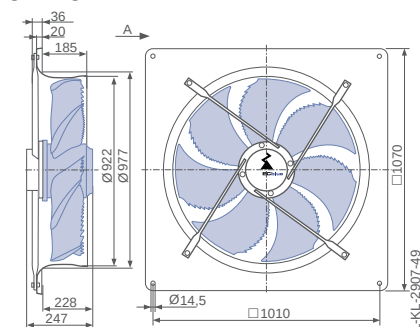
## Fan ordering information

| Airflow direction A                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Design                                                                                        | T (without guard grille)                                                          | Q (without guard grille)                                                          | Q (guard grille suction side)                                                     | Q (without guard grille)                                                          | Q (guard grille suction side)                                                       |
|                                                                                               |  |  |  |  |  |
| Type                                                                                          | FN091-ZIT.GL.A5P1                                                                 | FN091-ZIQ.GL.A5P1                                                                 | FN091-ZIQ.GL.A5P1                                                                 | FN091-ZIQ.GL.A5P1                                                                 | FN091-ZIQ.GL.A5P1                                                                   |
| Article no.                                                                                   | 168022                                                                            | 168025                                                                            | 168026                                                                            | 168023                                                                            | 168024                                                                              |
| Wall ring plate                                                                               |                                                                                   | Wall ring plate made of composite material                                        | Wall ring plate made of composite material                                        | Wall ring plate made of galvanized sheet steel                                    | Wall ring plate made of galvanized sheet steel                                      |
| Weight kg                                                                                     | 33.20                                                                             | 43.60                                                                             | 48.20                                                                             | 51.00                                                                             | 55.60                                                                               |
| Supply temperature -10°C - max 40°C in design with wall ring plate made of composite material |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |

## Control technology

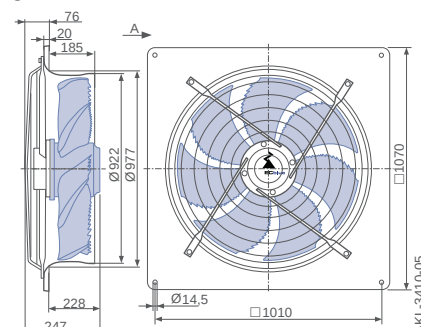
| Control module UNIcon Zenec switch                                                  |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| Page 130                                                                            | Page 158                                                                            |

Design Q - square full bell mouth, without guard grille



Wall ring plate made of galvanized sheet steel

Design Q - square full bell mouth, guard grille suction side



Wall ring plate made of galvanized sheet steel

## FE 2 outlet-EC blue

for three phase alternating current, 380-480 V

F N 0 9 1



## Description

Motor technology: EC

Rated voltage  $U_N$ : 3~ 380-480 V\*

Rated frequency  $f_n$ : 50/60 Hz\*

Input power  $P_{\text{SVC}}$ : **5.00 kW\***

Rated current  $I_N$ : 8.00- 6.40 A\*

Rated speed  $n_N$ : 1280 min<sup>-1</sup>\*

Rated speed  $n_N$ : 1280 min<sup>-1</sup>  
Thermal class: **THCL155\***

Min. permitted ambient temperature  $t_{B(min)}$ : -35 °C

Max. permitted ambient temperature  $t_{R(max)}$ : 40 °C

Electrical connection: Integrated controller

Number of blades: 5

Motor protection: Integrated active temperature management

Blades: Aluminium, powder-coated, ultramarine blue

Blades: Aluminium, powder-coated, ultramarine  
Rotor: Aluminium, 2 coat paint, ultramarine blue

Conformity: ErP 2015, CE, UL

## ErP-data

Efficiency  $\eta_{\text{statA}}$ : 53.3 %

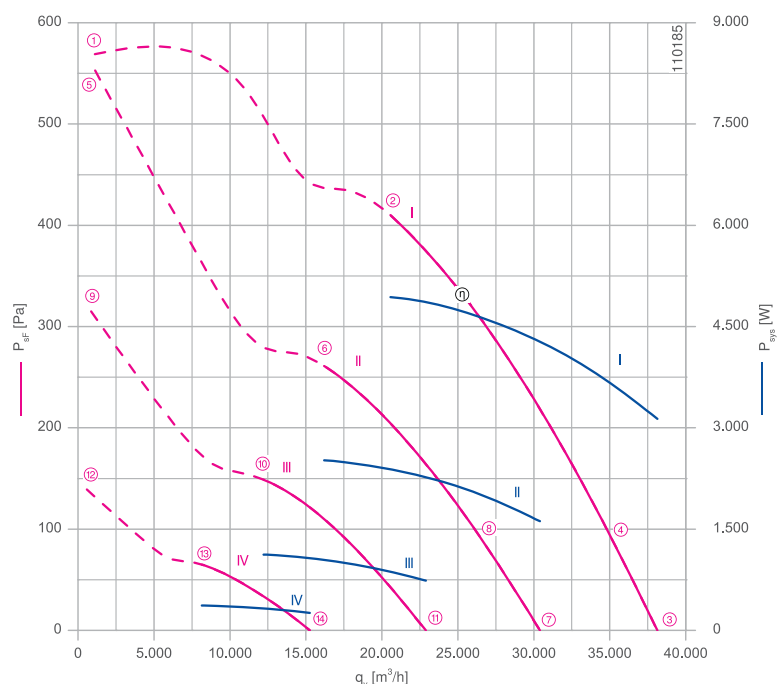
Efficiency:  $N_{\text{actual}} = 55.4 / N_{\text{target}} = 40^{**}$

EC controller integrated

\* Rated data

\*\*ErP 2015

### Characteristic curve



Measured in full bell mouth without guard grille in installation type A according to ISO 5801.

### Connection diagram

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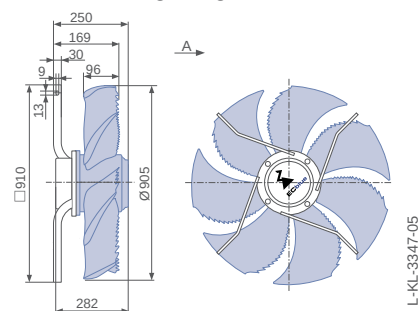
## System components

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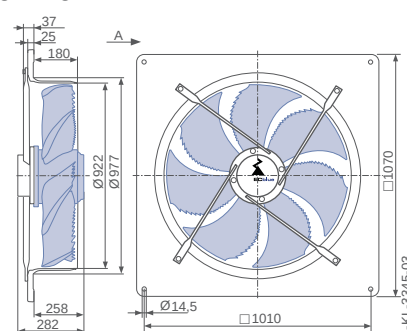
Dimensions mm

## Airflow direction A

Design T - for installation in chimney exhausts, without guard grille

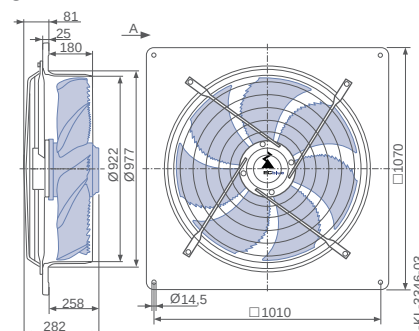


Design Q - square full bell mouth, without guard grille



Wall ring plate made of composite material

Design Q - square full bell mouth, guard grille suction side



Wall ring plate made of composite material

Performance data

| Type            | Characteristic curve | Speed                  | Operating point | Current | Input power           | Acoustic pressure level 7m | Specific power                 |
|-----------------|----------------------|------------------------|-----------------|---------|-----------------------|----------------------------|--------------------------------|
|                 |                      | n<br>min <sup>-1</sup> |                 | I<br>A  | P <sub>sys</sub><br>W | L <sub>pA</sub><br>dB(A)   | P <sub>spez</sub><br>Wh/1000m³ |
| FN091-ZI_GQ_5P1 | I                    | 1280                   | ①               | 7.20    | 4800                  |                            |                                |
|                 |                      |                        | ②               | 7.40    | 5000                  |                            | 243.2                          |
|                 |                      |                        | ③               | 4.80    | 3100                  | 63                         | 82.1                           |
|                 |                      |                        | ④               | 5.60    | 3700                  | 62                         | 106.6                          |
|                 | II                   | 1020                   | ⑤               | 6.80    | 4600                  |                            |                                |
|                 |                      |                        | ⑥               | 3.80    | 2500                  |                            | 156.0                          |
|                 |                      |                        | ⑦               | 2.50    | 1600                  | 56                         | 53.2                           |
|                 |                      |                        | ⑧               | 3.20    | 2100                  | 56                         | 78.5                           |
|                 | III                  | 770                    | ⑨               | 3.00    | 1950                  |                            |                                |
|                 |                      |                        | ⑩               | 1.80    | 1100                  |                            | 92.0                           |
|                 |                      |                        | ⑪               | 1.30    | 740                   | 48                         | 32.1                           |
|                 |                      |                        | ⑫               | 1.10    | 600                   |                            |                                |
|                 | IV                   | 510                    | ⑬               | 0.80    | 370                   |                            | 45.8                           |
|                 |                      |                        | ⑭               | 0.64    | 260                   | 40                         | 16.9                           |

Current values determined at 400V

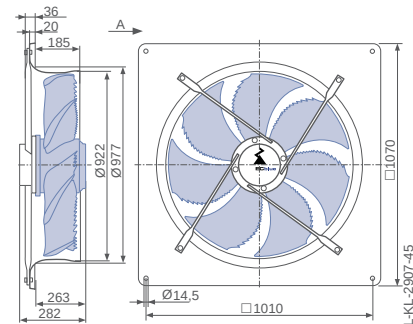
Fan ordering information

| Airflow direction A |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                     |
|---------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Design              | T (without guard grille)                                                          | Q (without guard grille)                                                          | Q (guard grille suction side)                                                     | Q (without guard grille)                                                          | Q (guard grille suction side)                                                       |
|                     |  |  |  |  |  |
| Type                | FN091-ZIT.GQ.A5P1                                                                 | FN091-ZIQ.GQ.A5P1                                                                 | FN091-ZIQ.GQ.A5P1                                                                 | FN091-ZIQ.GQ.A5P1                                                                 | FN091-ZIQ.GQ.A5P1                                                                   |
| Article no.         | 168029                                                                            | 168032                                                                            | 168033                                                                            | 168030                                                                            | 168031                                                                              |
| Wall ring plate     |                                                                                   | Wall ring plate made of composite material                                        | Wall ring plate made of composite material                                        | Wall ring plate made of galvanized sheet steel                                    | Wall ring plate made of galvanized sheet steel                                      |
| Weight kg           | 40.00                                                                             | 57.80                                                                             | 55.00                                                                             | 57.80                                                                             | 62.40                                                                               |
| Supply temperature  | -10°C - max 40°C in design with wall ring plate made of composite material        |                                                                                   |                                                                                   |                                                                                   |                                                                                     |

Control technology

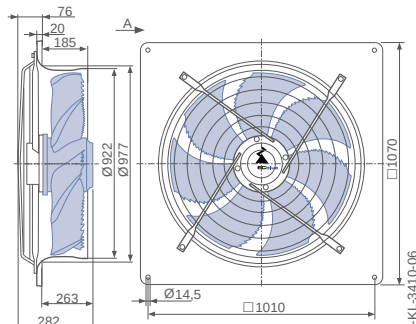
| Control module UNIcon Zenec switch                                                  |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |
| Page 130                                                                            | Page 158                                                                            |

Design Q - square full bell mouth, without guard grille



Wall ring plate made of galvanized sheet steel

Design Q - square full bell mouth, guard grille suction side



Wall ring plate made of galvanized sheet steel