

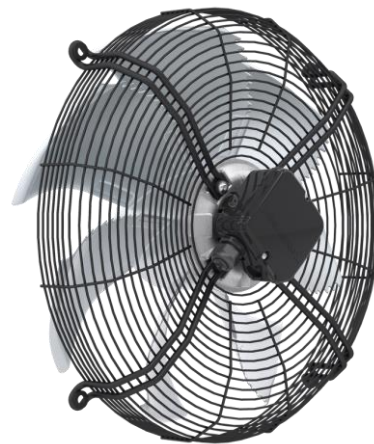
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Movement by Perfection



The Royal League in ventilation, control and drive technology



[Product documentation](#)

Type  
[FN045-4EK.4I.V7P1](#)

Article number  
[167804](#)

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# The Royal League

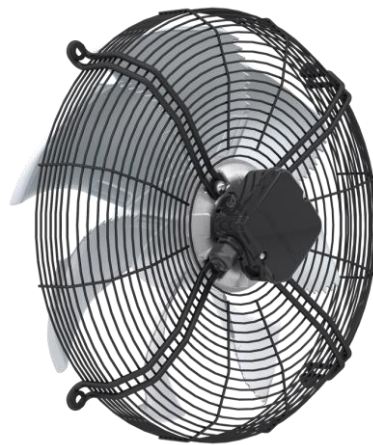
## Die Königsklasse

## Product documentation

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### Table of Contents

1.	Product Specification - Technical Data	4
2.	Duty Point Data	5
3.	Characteristic Curve	6
4.	Drawing	7
5.	Connection Diagram	8
6.	Deviation List	9

### 1. Product Specification - Technical Data

<b>Article number</b>	167804
<b>Type</b>	FN045-4EK.4I.V7P1
<b>Rated values</b>	1~230V 50Hz P(1) 0.60kW 2.9A $\Delta I=25\%$ 1390/min 14.0uF/400V 70°C Hz
<b>Electrical connection</b>	Terminal box K62
<b>ErP Data</b>	Measurement category ErP: A Air flow q(v) on Eta opt: 5005 m3/h Pressure increase p(fs) on Eta opt: 140 Pa Input power P(1) on Eta opt: 587 W Efficiency H(statA): 34.0 % Efficiency grade: N(actual) = 41.8 / N(target) = 40* *ErP 2015
<b>Type Of Protection</b>	IP54
<b>Heat Class</b>	THCL155
<b>Mounting Type Terminal Box</b>	Mounted on Stator
<b>Connection Diagram</b>	1360-104XA
<b>Rating Plate</b>	1x fixed
<b>Fitting Position</b>	H/Vu/Vo
<b>Motor Protection</b>	thermal contact
<b>Impregnation</b>	Moisture and hot climate protection
<b>Condensation Drain Holes</b>	Condensation drain holes stator/rotor open
<b>Bearing Quality</b>	ball bearing with long-time lubrication
<b>Material Rotor</b>	Aluminium
<b>Painting Rotor</b>	Rotor unpainted
<b>Painting Stator</b>	Stator unpainted
<b>Material Blades</b>	Aluminium
<b>Painting Impeller</b>	Blades unpainted
<b>Contact Protection Type</b>	ring grill
<b>Operating Manual</b>	L-BAL-001
<b>Engine Suspension Paint</b>	Motor suspension powder-coated resistance class 2 (L-TI-0585)
<b>Weight</b>	12.60 kg
<b>Colour Suspension</b>	RAL 9005 (jet black)
<b>Min. Operating Temperature °C</b>	-25°C
<b>Disclaimer Ct20/Doe</b>	Selected product is not governed by U.S. DOE and CT20 industrial fan and blower regulations.

## 2. Duty Point Data

### FN045-4EK.4I.V7P1 (167804)

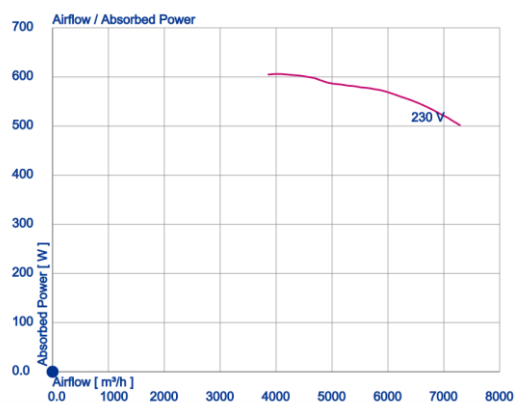
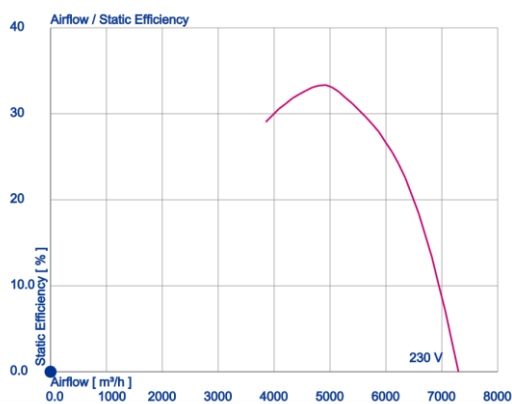
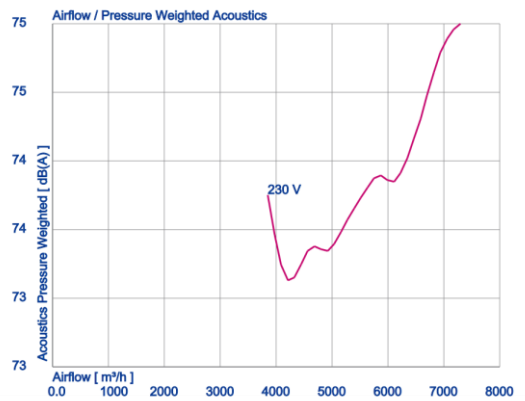
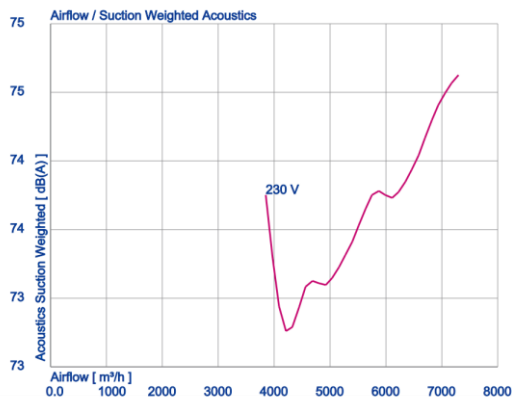
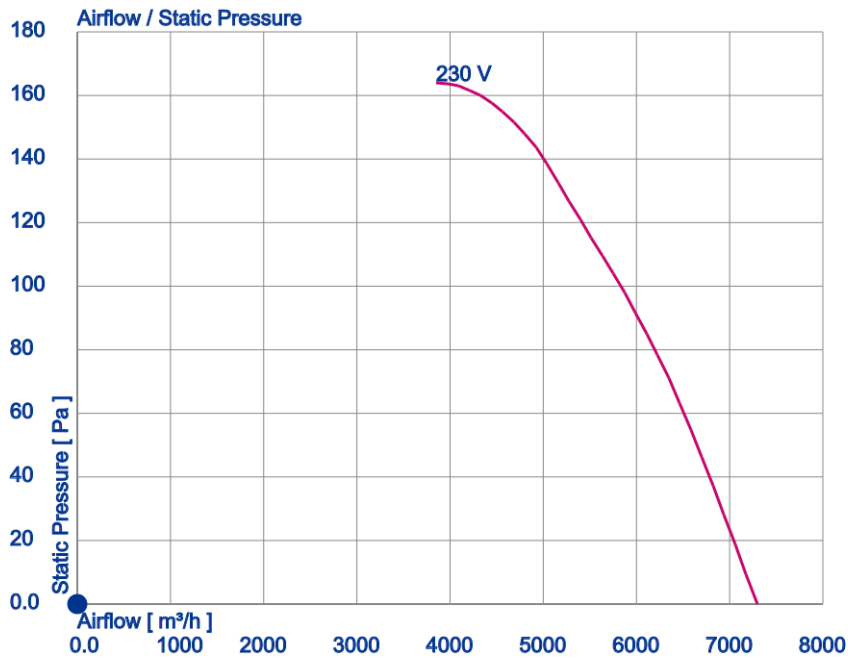
Design   Fan Size   Motor Brand		V-K   450   FE2owlet
SFP Class   SFP Value (Pspf)	-   wspm3	0,0
FEI   FEG		0,0
Actual FEP   Reference FEP		
Airflow (qV)   Airflow Mains	m <sup>3</sup> /h	0,0   0,0
Pressure, stat. (psF)   Static Pressure Mains	Pa	0,0   0,0
Dynamic Pressure	Pa	0,0
Total Pressure (pF)	Pa	0,0
Air Velocity	m/s	0,0
Density	kg/m <sup>3</sup>	1,18
Altitude		
Temperature	celsius	20
RPM (n)   RPM Percentage   max.(nmax)	1/min	<b>0,0 @ %   1390</b>
Absorbed Power (Psys)	W	0,0
Elec. Power	W	0,0
Shaft Power	W	0,0
System Efficiency, stat. (η <sub>SF,sys</sub> )   tot. (η <sub>F,sys</sub> )	%	<b>0,0   0,0</b>
Eta ERP   ERP Year		41,8   2015
Frequency	Hz	50
Voltage	V	
Current	A	0,0
Suction Acoustics (L <sub>w(A),5</sub> )   (L <sub>w,5</sub> )	dB(A)	<b>0   0</b>
Pressure Acoustics (L <sub>w(A),6</sub> )   (L <sub>w,6</sub> )	dB(A)	<b>0   0</b>
Enclosure / Impeller		
Dimensions (Width x Height x Depth)	mm	539 x 539 x 227
Installation (Width x Height x Depth)	mm	x x
Mass	kg	12,6
Kfactor   Kfactor Grille		
Nozzle Pressure (psF Düse)	Pa	0,0
Guard Grille		

### Full Octave band

f [Hz]	sum	63	125	250	500	1000	2000	4000	8000	f [Hz]	sum	63	125	250	500	1000	2000	4000	8000
L <sub>w,5</sub>	0	0								L <sub>w,6</sub>	0	0							
L <sub>w(A),5</sub>	0	0								L <sub>w(A),6</sub>	0	0							

### 3. Characteristic Curve

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





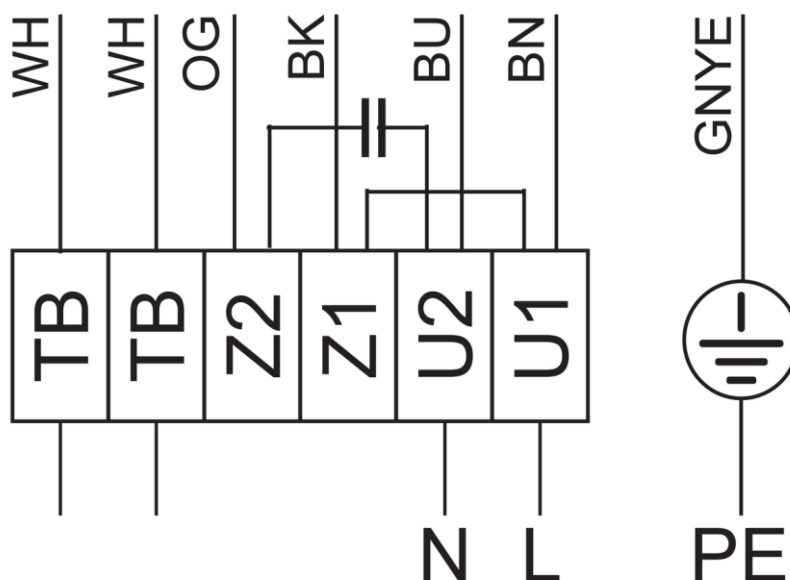
### 5. Connection Diagram

1~ Motor mit Kondensator und  
Thermostatschalter (falls eingebaut).

1~ motor with capacitor and  
thermostatic switch (if built in).

104XA-05

### Rechtslauf Clockwise rotation



- WH - weiß, white
- OG - orange, orange
- BK - schwarz, black
- BU - blau, blue
- BN - braun, brown
- GNYE - grün-gelb, green-yellow

### 6. Deviation List

No customer specification was available. Please note that ZIEHL-ABEGG does not confirm technical requirements beyond this specification if they are not listed in a list of deviations. ZIEHL-ABEGG can therefore neither guarantee nor prove the suitability of this product for this specific application or the customer's intended use. The customer is responsible for testing and approving the product for its intended use.



The Royal League in ventilation, **control** and drive technology

## Intelligent control technology for any application

**ZIEHL-ABEGG system capabilities:**

**Everything from a single source – perfectly matched for optimal performance**

Please contact us. We would be pleased to design an individual solution for your requirements.

We would like to welcome you on our worldwide exhibitions. Please find our next exhibitions here.

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