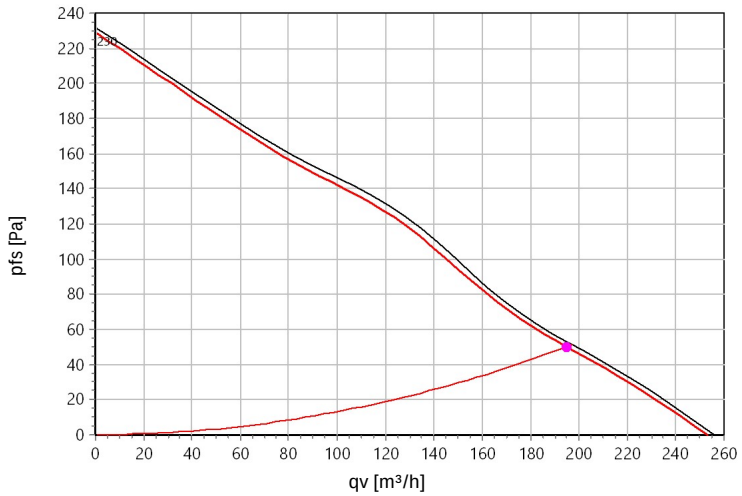
Type: **Z 125.2CA R1**

Art.-No.: F05-12512

not affected

Curve:



ρ: 1.15 kg/m³

Operating Point:

q_V	195	m³/h
p_{fs}	50	Pa
p_{fd}	12	Pa
$\eta_{e,fs}$	10	%
$\eta_{e,tot}$	13	%
P_e	0.0271	kW
I	0.13	A
n	1928	r/min
$L_{WA\ D,in}$	47	dB(A)
U	226	V
v	4.40	m/s
SFP	502	Ws/m³
FEI	3.8	

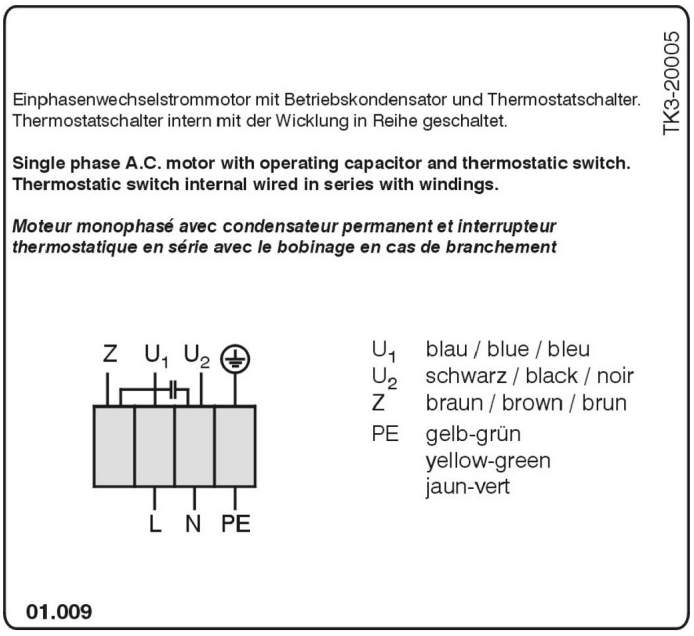
Nominal Data:

U [V]	f [Hz]	C [µF]	P_e [kW]	I_N [A]	n_N [r/min]	t_R [°C]	k_{10} [m²s/h]	I_A / I_N	IP	m [kg]
1~230	50	1	0.029	0.14	1980	-25 .. +70	-	1.1	IP 44	13

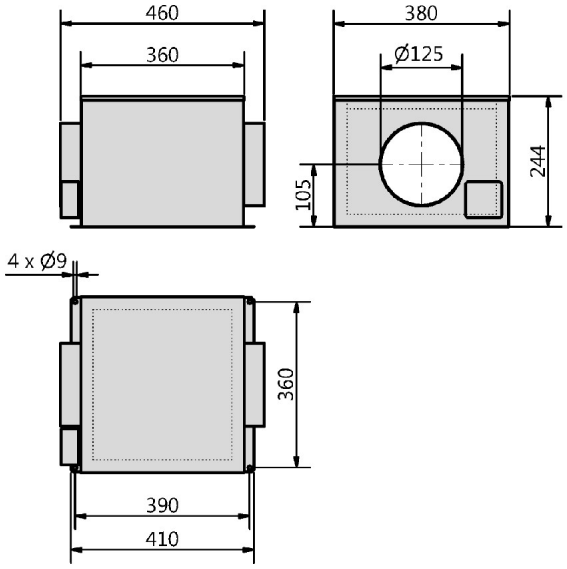
Sound Data:

Frequency	Σ		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	Distances	1 m	3 m
LwA(D,in) [dB(A)]	47		35	42	41	39	39	33	26	LpA(D,in) [dB(A)]	40	32
LwA(D,out) [dB(A)]	52		39	44	45	46	46	41	32	LpA(D,out) [dB(A)]	45	37
LwA(D,cas) [dB(A)]	38		29	35	32	24	21	20	19	LpA(D,cas) [dB(A)]	31	23

Wiring Diagram:

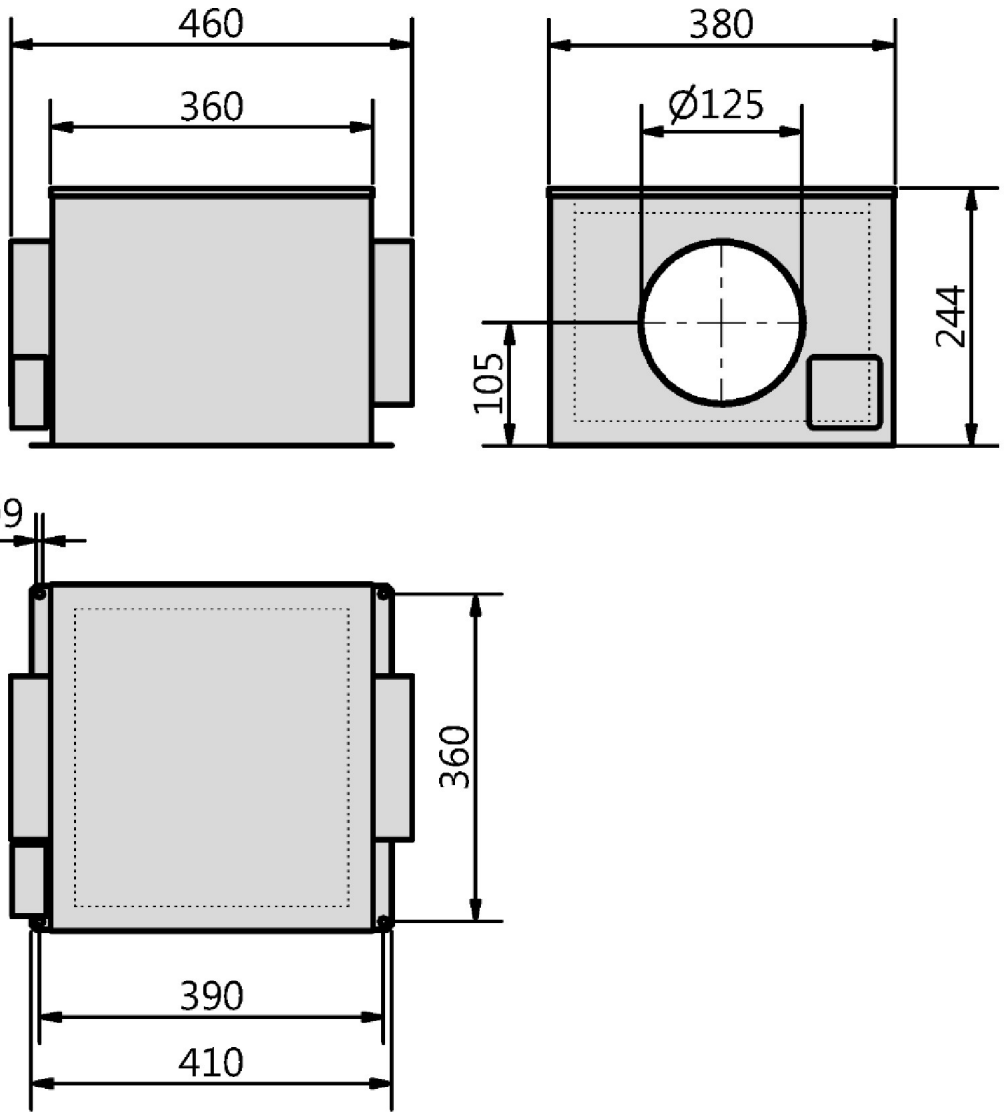


Drawing:



Type: **Z 125.2CA R1**

Art.-No.: F05-12512



Irish Ventilation & Filtration Ltd • 390 Clonard Road 1 • D - D12 V3PW Dublin
Tel: +353 1 4925003 • Email: sales@irishvent.ie • www.irishvent.ie

Type: **Z 125.2CA R1**

Art.-No.: F05-12512

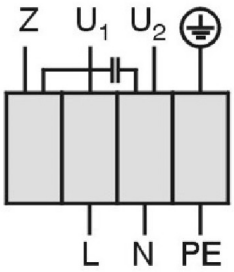
not affected

TK3-20005

Einphasenwechselstrommotor mit Betriebskondensator und Thermostatschalter.
Thermostatschalter intern mit der Wicklung in Reihe geschaltet.

**Single phase A.C. motor with operating capacitor and thermostatic switch.
Thermostatic switch internal wired in series with windings.**

Moteur monophasé avec condensateur permanent et interrupteur thermostatique en série avec le bobinage en cas de branchement



U_1	blau / blue / bleu
U_2	schwarz / black / noir
Z	braun / brown / brun
PE	gelb-grün yellow-green jaun-vert

01.009

Zerobox "REVOLUTION"
Tube fan with sound-insulated housing

The flat casing made of galvanized sheet steel as sound absorbing construction. The inlayed 40mm thick rockwool plates have a sound attenuating effect. The covering lid can easily be unscrewed to gain access for cleaning and maintenance. The motor is removable together with the impeller and spiral scroll. Inlet and outlet side with duct connection for standard round ducts. Mounting either with horizontal or vertical motor shaft. Impeller of the E-series (Revolution) made of black, UV-stabilized and long glass fibre reinforced Polypropylene (PP) with 7 backward curved, profiled blades and narrow efficiency optimized circumferential diffusor. Sound and weight optimized. Corrosion resistant and compact design. Air Flow orientated behaviour. Direct-driven single-phase alternating current motor and three-phase motor with class F insulation system. For single-phase motors, motor protection is provided by thermal contacts built into the winding and connected in series. Three-phase motors have no internal protection system and must be connected to an external protection system. When using an electronic voltage control unit or a frequency converter, a sine filter must be used. Maintenance-free ball bearings, closed on both sides, with long-term lubrication. Motorized Impeller statically and dynamically balanced according to DIN ISO 21940-11 with quality level G2.5. The electrical connection is mounted on the housing by a terminal box. Air volume control: possible by the use of an electronic speed controller or a step transformer (accessory).

Fan complies with the guidelines required (Machinery-, EMC- and Low Voltage Directive) to comply with installation and conformity declaration as well as CE marking.

Operating Point Data:
Airflow
195 m^3/h
ext. Pressure
50 Pa
Input power
0.0271 kW
Current
0.13 A
Speed
1928 r/min
Sound power level
47 Lw(A)

Nominal Data:
Voltage
1~230 V
Frequency
50 Hz
Input power
0.029 kW
Current
0.14 A
Speed
1980 r/min
Medium temperature
70 °C
Protection Mode
IP 44
Weight

13 kg
Dimensions
460 mm / 360 mm / 244 mm

Contact:
Irish Ventilation & Filtration Ltd
390 Clonard Road 1
D - D12 V3PW Dublin
www.irishvent.ie

Type:
Z 125.2CA R1
Article-No.:
F05-12512

Z...R / Z...E - Zerobox

Tube fan with sound-insulated housing

- low noise
- can be installed in any position
- easy cleaning and maintenance
- easy electrical connection via external mounted terminal box
- Speed or continuously controllable

Description:

An appropriate and ideal technical solution combines the advantages of an axial fan (straight flow of air and easy installing) with the high pressure stability, low noise level and best efficiency of a centrifugal fan. The fans can be installed in any position. The wide range of inline duct fans offers for any specific application the optimal solution.

Note: Due to the open sound insulation, the use as a supply air fan (according to VDI 6022) is not possible.

Application fields:

Car workshops / offices / bars / tower blocks / factories / basement rooms / nursery schools / cinemas / storages / nursing homes / schools / sports facilities / supermarkets / parking garages / workshops / greenhouses / apartments

Zerobox Revolution (Z...R)

flat design, very low noise, optimized efficiency by using backward curved high performance impellers

Zerobox Revolution (Z...E)

flat design, very low noise, optimized efficiency by using forward curved impellers

The Z...R / Z...E is characterized by high airflows at medium pressures. An extensive accessory program for tube mounting completes the product portfolio ideally.

Classification of the fan series:

NRVU = **N**on **R**esidential **V**entilation **U**nits
UVU = **U**nidirectional **V**entilation **U**nits

Casing:

The casing is equipped with 40 mm thick mineral fibre board and made of galvanized sheet steel. The covering lid can easily be unscrewed to gain access for cleaning and maintenance. The motor-impeller unit can easily be removed.

Impellers:

The impellers are balanced together with the external rotor motors at two levels according to quality level G2.5/G6.3 to

DIN ISO 21940-11.

Zerobox Revolution:
with backward curved impeller
BG 125/160/250/315/355/400: made of plastic
Baugröße 200: made of galvanized sheet steel

Zerobox Evolution:
with forward curved impeller
BG 315/355/400: made of galvanized sheet steel

Motors:

All Rosenberg fans are equipped with direct driven external rotor motors. All our fans have motor protection through thermal contacts in the motor windings as standard. The motors apply to protection class IP44/IP54.

The drive has due to an external rotor motor a space saving, compact and attractive design. The motor is fitted within the impeller, which enables the best possible cooling. Therefore a 100% variable speed control can be guaranteed. Only well-dimensioned ball bearings fitted on both sides and with life time grease are used. Both ball-bearing seats are ground to high precision in a one work process to eliminate any vibrations. External rotor motors have extremely low starting currents. The windings comply to insulation class F. In addition the windings have a standard moisture impregnation.

UL-approval:
For 60Hz types (possible on request)

Electrical connection:

The electrical connection is mounted on the housing by a terminal box IP44.

Air volume control:

For more information see accessories!

ERP-Reference (only inside the EU):
Please note the directives 1253/2014/EU (Lot 6) applying from 01.01.2016 for the ventilation units (ventilation fans). Keyword: „Multi-stage drive" (at least 3 fixed speeds, as well as speed 0 („off"). Suitable control and regulation devices are available as accessories.

5-speed control unit:
230V = RTE

Infinitely variable control unit:
230V = ED

Scope of delivery:

- Zerobox (Z...R / Z...E)
- Operating manual

Important notes:

Air performance curves:
The air performance curves have been established using the intake test method in the test chamber according to DIN EN ISO 5801. They show pressure increase as a function of the volume flow. Performance curves were recorded in installation type D.

Sound levels:
The tests and their performance curves were conducted according to DIN 45635 part 38 or. ISO 133347-3 and DIN EN ISO 3744/ 3745 in accordance with the envelope surface method. The A-weighted sound pressure level at a distance of 1m can be roughly calculated from the sound power level by using the equation below.
LpA 1m = LwA - 7 dB(A)

Erp-Information:
Rosenberg fans have a specific (pressure-) ratio < 1,05 (pressure < 5000 Pa).

Service life:
For a maximum service life of Rosenberg products please respect the maintenance hints in the product-specific operating manual.

Technical data presentation:
The performance data shown represent the accuracy class 3 according to DIN 24166.

Recycling and disposal:
For recycling and disposal of Rosenberg products comply with applicable locally requirements and regulations.

Irish Ventilation & Filtration Ltd • 390 Clonard Road 1 • D - D12 V3PW Dublin
Tel: +353 1 4925003 • Email: sales@irishvent.ie • www.irishvent.ie