

Product Specification

Fan Type	AC Duct Fan
Model	QL-P100D-2E-A01-01

Basic Parameters

Rated Voltage	VAC	230
Capacitance	~	1.5 μ F/450V
Frequency	Hz	50
Rated Speed	RPM	2450
Max. Input Power	W	60
Max. Input Current	A	0.28
Sound level	dBA	59
Min. Ambient Temperature	°C	-25
Max. Ambient Temperature	°C	60

Technical Features

Dimensions	286*306*192 mm
Material of Impeller	Metal
Direction of Rotation	Clockwise, Seen on Rotor
Surface of Rotor	Electrophoresis
Type of Protection	IP32
Insulation Class	F
Operation Mode	S1
Bearing Type	Ball Bearing
Length of Cable	600 $\pm$ 20mm
RoHS	Material According with RoHS
Min./Max. Humidity	5% - 90% RH
Motor Type	External Rotor AC Motor
Deviation of Impeller in Axial Direction	≤ 0.8 mm
Deviation of Impeller in Radial Direction	≤ 0.8 mm

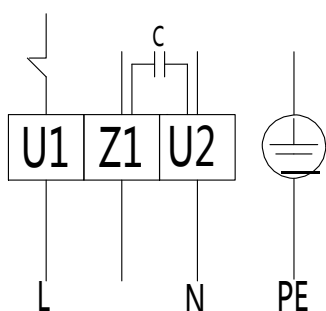
The graph shows the relationship between pressure drop ΔP [Pa] and flow rate Q [m³/h] for a 100 mm diameter pipe. The curve is non-linear, showing a sharp increase in pressure drop as the flow rate increases beyond 150 m³/h. The following table provides estimated data points from the graph:

Flow Rate Q [m³/h]	Pressure Drop ΔP [Pa]
0	310
50	250
100	180
150	120
200	40
230	0

Wiring Diagram

Line	Connection		Color	Function
Power Line	PE		GreenYellow	Protective Earth
	U1	L	Blue	Live Wire
	Z1		Brown	Capacitive connection Wire
	U2	N	Black	Neutral & Capacitive connection Wire

Power Line



U1 Blue
U2 Black
Z1 Brown
PE GreenYellow

Additional Notes

- Persons lacking physical, mental or sensory abilities and appropriate practical experience or expertise cannot use the fan unless directed by a person responsible for its safety. Keep out of reach of children.
- If the power line is damaged, the manufacturer must replace the power cord;
- As a part of the fan, the motor cannot be used alone without impeller or load;
- After the product packaging has been disassembled, it should be repackaged if it needs to be kept in storage. The product shall be stored in a clean, well-ventilated warehouse with ambient temperature of $-40^{\circ}\text{C} \sim +80^{\circ}\text{C}$, relative humidity of no more than 95%, no corrosive gases in the air, and 15cm above the ground;
- Please read this technical specification carefully before using it.