

Ziehl-abegg QK10A-2DM.48.FK

Ziehl-abegg QK10A-2DM.48.FK Cross Flow Fan Instruction Manual

Model: QK10A-2DM.48.FK

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1. PRODUCT OVERVIEW

The Ziehl-abegg QK10A-2DM.48.FK is a high-performance cross flow cooling fan designed for various industrial and commercial applications. This fan operates on a nominal voltage of 230/400VAC at 50/60Hz, providing efficient air movement for cooling purposes. It features a robust design and is certified with CE, CCC, and UL standards, ensuring reliability and safety.

Key features include:

- **Model:** QK10A-2DM.48.FK
- **Type:** Cross Flow Fan
- **Voltage:** 230/400VAC
- **Frequency:** 50/60Hz
- **Speed:** 2730-3000 min⁻¹
- **Power:** 670/860W
- **Certifications:** CE, CCC, UL
- **Origin:** Germany



Figure 1: Front view of the Ziehl-abegg QK10A-2DM.48.FK Cross Flow Fan. This image shows the overall structure and air intake area of the fan.



Figure 2: Side view of the Ziehl-abegg QK10A-2DM.48.FK Cross Flow Fan. This perspective highlights the fan's length and mounting points.

2. SAFETY INFORMATION

Read all safety instructions before installing, operating, or maintaining the fan. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the power supply matches the fan's nominal voltage (230/400VAC). All electrical connections must be performed by a qualified electrician in accordance with local and national electrical codes. Disconnect power before any installation or maintenance.
- **Mechanical Safety:** Keep hands, hair, and loose clothing away from moving parts. Do not operate the fan without proper guards in place.
- **Installation Environment:** Install the fan in a stable, secure location. Ensure adequate ventilation around the fan to prevent overheating. Avoid installation in environments with excessive moisture, dust, or corrosive substances unless the fan is specifically rated for such conditions.
- **Handling:** The fan may be heavy. Use appropriate lifting techniques and equipment to prevent injury.

3. SETUP AND INSTALLATION

Proper installation is crucial for the fan's performance and longevity. Follow these general steps:

1. **Unpacking:** Carefully remove the fan from its packaging. Inspect for any shipping damage. Report any damage to the supplier immediately.
2. **Mounting:** Securely mount the fan using appropriate fasteners and brackets. Ensure the mounting surface can support the fan's weight and vibrations during operation. The fan is designed for cross-flow applications, so consider airflow direction.
3. **Electrical Connection:**
 - Verify the power supply voltage (230/400VAC) and frequency (50/60Hz) match the fan's requirements.
 - Connect the fan to the power supply according to the wiring diagram provided on the product label. Refer to Figure 3 for an example of a product label.
 - Ensure all connections are tight and insulated.
 - Install appropriate circuit protection (e.g., fuses, circuit breakers) as required by local electrical codes.
4. **Pre-Operation Check:** Before applying power, ensure there are no obstructions to the fan blades and that all safety guards are in place.



Figure 3: Product label showing electrical specifications and a typical wiring diagram. Always refer to the specific label on your unit for accurate wiring instructions.

4. OPERATING INSTRUCTIONS

Once installed and connected, the fan is ready for operation.

1. **Starting the Fan:** Apply power to the fan circuit. The fan should start rotating immediately.
2. **Monitoring:** Observe the fan during its initial operation. Listen for unusual noises or vibrations. Ensure the airflow is as expected.
3. **Stopping the Fan:** Disconnect power to the fan circuit to stop operation.

The fan is designed for continuous operation within its specified parameters. Avoid frequent on/off cycling if not required by the application.

5. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your fan. Always disconnect power

before performing any maintenance.

- **Cleaning:** Periodically inspect the fan blades and housing for dust and debris accumulation. Clean with a soft brush or compressed air. Do not use harsh chemicals or abrasive materials.
- **Inspection:**
 - Check for loose mounting bolts or fasteners.
 - Inspect electrical connections for signs of wear, corrosion, or overheating.
 - Listen for unusual bearing noises, which may indicate wear.
- **Lubrication:** This fan typically features sealed bearings that do not require lubrication. Refer to the manufacturer's specific guidelines if any lubrication is indicated on the unit.

6. TROUBLESHOOTING

Before attempting any repairs, ensure the power supply is disconnected. For complex issues, contact a qualified technician.

| Problem | Possible Cause | Solution |
|----------------------------|--|---|
| Fan does not start | No power supply Incorrect wiring Motor fault | Check power source and circuit breaker. Verify wiring against diagram (Figure 3). Contact qualified service personnel. |
| Unusual noise or vibration | Loose mounting Obstruction in fan blades Worn bearings | Tighten mounting bolts. Disconnect power and remove obstruction. Contact qualified service personnel for bearing replacement. |
| Reduced airflow | Blocked intake/exhaust Dirty fan blades | Clear obstructions. Clean fan blades and housing (refer to Maintenance section). |

7. TECHNICAL SPECIFICATIONS

| Parameter | Value |
|-----------------|-----------------------------------|
| Model Number | QK10A-2DM.48.FK |
| Manufacturer | Ziehl-abegg |
| Type | Cross Flow Fan |
| Nominal Voltage | 230/400VAC |
| Frequency | 50/60Hz |
| Speed | 2730-3000 min ⁻¹ (RPM) |
| Power | 670/860W |
| Current | 2.13/1.23A |
| Cooling Method | Air |

| Parameter | Value |
|----------------|------------------------------|
| Material | Copper (internal components) |
| Certifications | CE, CCC, UL |
| Origin | Germany |

8. WARRANTY AND SUPPORT

8.1. Warranty Information

Specific warranty terms for the Ziehl-abegg QK10A-2DM.48.FK fan are typically provided by the original manufacturer or the authorized distributor at the time of purchase. Please refer to your purchase documentation or contact your supplier for detailed warranty coverage, duration, and conditions. Generally, products are warranted against defects in materials and workmanship under normal use.

Note: Unauthorized modifications or improper installation/use may void the product warranty.

8.2. Technical Support

For technical assistance, troubleshooting beyond this manual, or spare parts inquiries, please contact your original point of purchase or an authorized Ziehl-abegg service center. When contacting support, please have the following information ready:

- Product Model Number: QK10A-2DM.48.FK
- Item Number: 106876 (or 200914 if applicable)
- Date of Purchase
- Description of the issue

9. PRODUCT VIDEOS

No official product videos from the seller are available for this model at this time.