VNF204-115

Filter Fan Unit

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Model Number: VNF204-115
Reference Number: FK9923.115
Manufacturer: Leipole Electric

Technical Parameters

Mounting Position:	Side Mount
Fan Type:	F2E-120B-115 (Ball Bearing)
Motor Type:	Shaded-Pole Motor
Rated Voltage:	115V AC / 60Hz

Operating Frequency:	50Hz	**60Hz**
Rated Current (A):	0.34A ±10%	**0.28A ±10%**
Power Consumption (W):	25W ±10%	**21W ±10%**
Free Airflow:	145 m^3/h ±5%	**160 m^3/h ±5%**
Airflow with Exit Filter:	100 m^3/h ±5%	**103 m^3/h ±5%**

Noise Level (dB):	50 / 52
Storage Temperature Range:	-15°C to +60°C
Operating Temperature Range:	-10°C to +55°C
Protection Rating:	IP54
Filtration Efficiency:	73%
Insulation Withstand Voltage:	AC 1800V / 1 min
Overall Dimensions:	204 × 204 × 111 mm
Panel Cutout:	177 × 177 mm
Screw Hole Dimensions:	185 × 185 mm
Cabinet Intrusion Depth:	**Approx. 87 mm (3.43 in)**

Housing Material:	ABS
Filter Media:	Synthetic Fiber Filter Pad
Flame Retardant Rating:	UL94-V2

Certifications

☑ UL Recognized axial fan component (cURus) — UL File E324860

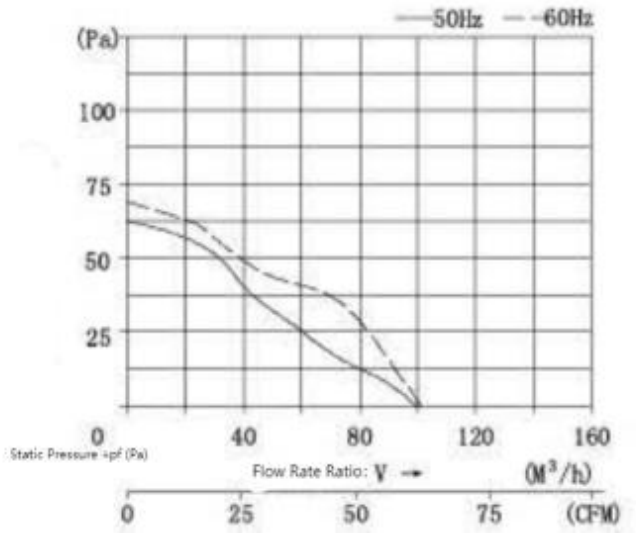
Product Overview

The VNF204-115 is a compact filter fan unit designed for industrial control panels and electrical enclosures.
Its low-profile design helps reduce cabinet intrusion depth while providing reliable airflow and IP54 protection.
The removable filter structure allows quick maintenance and tool-free filter replacement.

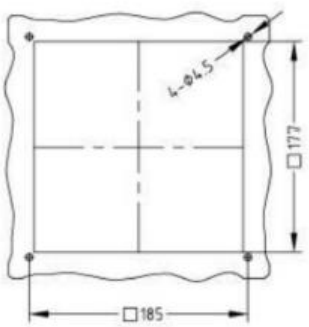
Key Features

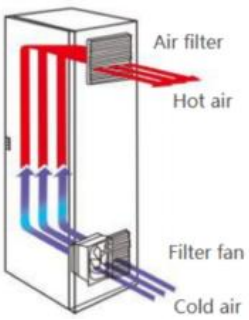
- Compact low-profile design
- Tool-free filter replacement
- IP54 protection
- Reduced cabinet intrusion depth
- Ball-bearing axial fan
- Designed for 177 × 177 mm panel cutout
- Suitable for industrial enclosure cooling applications

Airflow Performance Curve



Panel Cutout & Airflow Reference

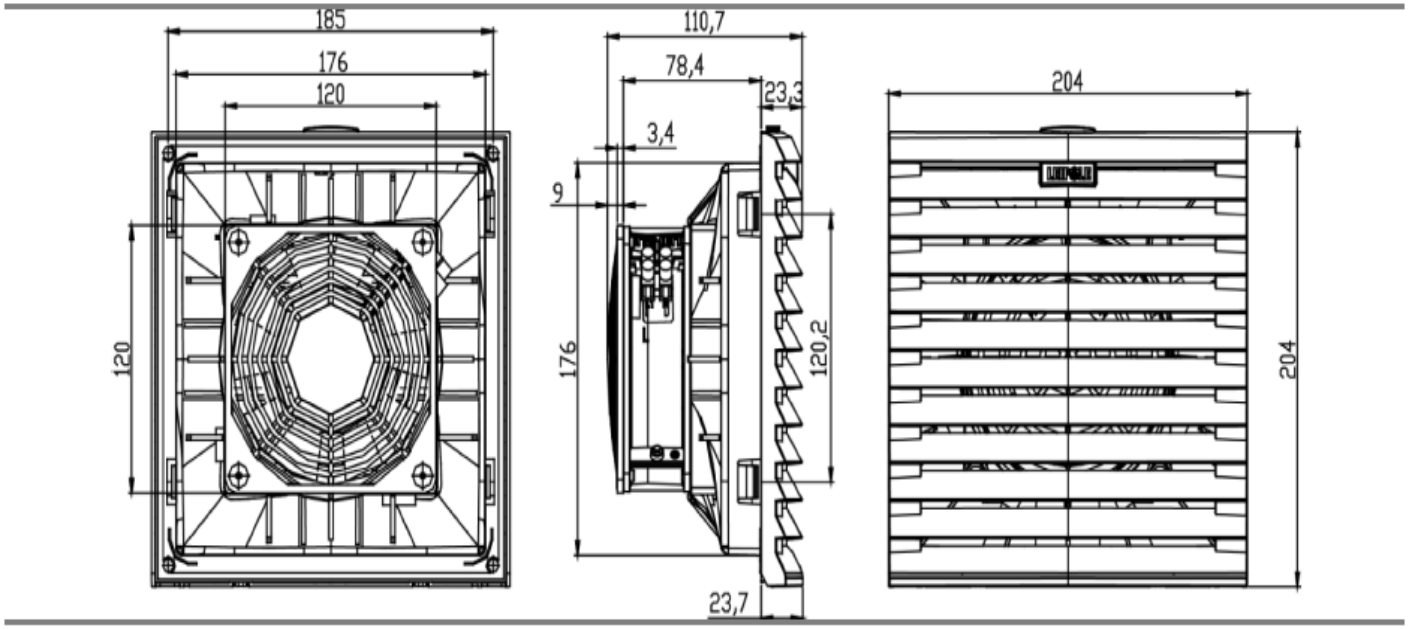




Typical enclosure airflow pattern

Product Appearance & Installation Views

Product Drawings



Installation & Maintenance

1. Verify panel cutout dimensions before installation.
2. Install the filter fan unit securely to maintain proper sealing and IP54 protection.
3. Ensure adequate clearance inside the enclosure for proper airflow circulation.
4. Clean or replace filter media periodically depending on dust conditions.
5. Disconnect power supply before servicing or filter replacement.