

PEAKROC PRMD SERIES

45 m3/min 10 bar Portable Diesel Air Compressor for Mining Tunneling

High-volume mobile compressed air solution for multi-rig operations

Reference: mobileaircompressors.com | Model: PRMD-4510

Working Pressure

10 bar

Flow Capacity

45.0 m3/min

Engine Power

410 kW

Core Highlights

- High-volume output: 45 m3/min at 10 bar for multi-tool and multi-rig operations.
- Use case fit: ideal when airflow volume matters more than extreme pressure.
- Powertrain: Cummins QSZ13-C550-II (550 hp) for reliable heavy-duty operation.
- Portable layout: trailer-mounted platform for flexible deployment across sites.

Typical Applications

- Mining multi-rig drilling, tunnel TBM support, rock bolting and shotcrete workflows
- Large-scale sandblasting, pipeline purging, and industrial high-volume air supply
- Continuous supply for underground construction and ventilation-assist scenarios



Product image (source: official product page)

Customer Value and Selection Tips

- 1) Supports 3-5 tools/rigs in parallel and reduces multi-unit maintenance complexity.
- 2) If 20+ bar pressure is not required, 10 bar high-volume is usually more economical.
- 3) Sizing rule: calculate peak total air demand first, then reserve 15-20% capacity margin.

Specification Snapshot (Selected)

FAD: 45.00 m3/min (1600 cfm)

Working/Design pressure: 10 bar (145 psi)

Dimensions: 4295 x 2160 x 2953 mm

Engine: Cummins QSZ13-C550-II (410 kW)

Fuel tank: 558 L | Weight: 6000 kg

Coolant: 85 L | Air vessel: 247 L

Applications: mining, tunneling, multi-rig drilling, blasting, pipeline purging

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