PEAKROC PRMEL SERIES

16-20bar Integrated 4-in-1 Laser Air Compressor

Stable, dry, oil-free, high-purity compressed air for laser cutting

Reference: mobileaircompressors.com | Model Range: PRMEL-15 to PRMEL-50PP

Working Pressure	Flow Capacity	Motor Power
16-20 bar	**1.05-3.90 m3/min**	**11-37 kW**

Core Highlights

- 4-in-1 integrated package: screw compressor, air tank, refrigerated dryer, and precision filtration in one compact unit.
- Clean and stable output air: multi-stage oil-water separation and drying to protect cutting heads and optics.
- Steadier pressure delivery: large tank plus intelligent thermal management for continuous laser operation.
- Smaller footprint and faster deployment, ideal for SME fabrication and precision workshops.

Product image (source: official product page)

Typical Applications

- Fiber laser and CO2 laser cutting systems
- Sheet metal processing and cutting of stainless steel, carbon steel, and aluminum
- CNC precision machining shops and small to mid-size metal fabrication plants

Customer Value and Selection Tips

1) Better cut quality: stable pressure and cleaner air reduce burrs, oxidation, and rework.
2) Lower maintenance: integrated layout reduces piping fault points and shortens downtime.
3) Sizing advice: choose by peak flow and pressure demand, then reserve 15-20% capacity margin.

Model Snapshot (Selected)

PRMEL-15: 1.05 m3/min | 16 bar | 11 kW | 400 L
PRMEL-15P: 1.05 m3/min | 20 bar | 11 kW | 400 L
PRMEL-20: 1.52 m3/min | 16 bar | 15 kW | 400 L
PRMEL-30PP: 2.41 m3/min | 20 bar | 22 kW | 400 L
PRMEL-30: 2.41 m3/min | 16 bar | 22 kW | 400 L
PRMEL-50PP: 3.90 m3/min | 20 bar | 37 kW | 600 L

Certifications: ISO9001 / UKAS / CE | Typical Supply: 380V-50Hz (optional 220V/440V/60Hz)

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