

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

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

Reference: [mobileaircompressors.com](http://mobileaircompressors.com) | Model Range: PRMEL-15 to PRMEL-50PP

Working Pressure

**16-20 bar**

Flow Capacity

**1.05-3.90 m3/min**

Motor Power

**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.

## 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



Product image (source: official product page)

## 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-20: 1.52 m3/min | 16 bar | 15 kW | 400 L  
PRMEL-30: 2.41 m3/min | 16 bar | 22 kW | 400 L

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