

185 CFM Portable Diesel Rotary Screw

Tier 4 Final compliant air for wellsite service, pipeline work, and refinery turnarounds.

Features

- 185 CFM at 100 PSI from a single-stage rotary screw airend
- 47 HP Yanmar diesel engine — EPA Tier 4 Final certified
- 18.5 gallon fuel tank
- Two-stage steel-housed intake filtration for dusty conditions
- Oil carryover under 3 PPM
- Rated for ambient temperatures to 115 °F
- Digital control panel with live operating parameters
- Two-wheel towable, 1,984 lbs
- Anti-static belts and fan blades, emergency stop, and automatic shutdown protection



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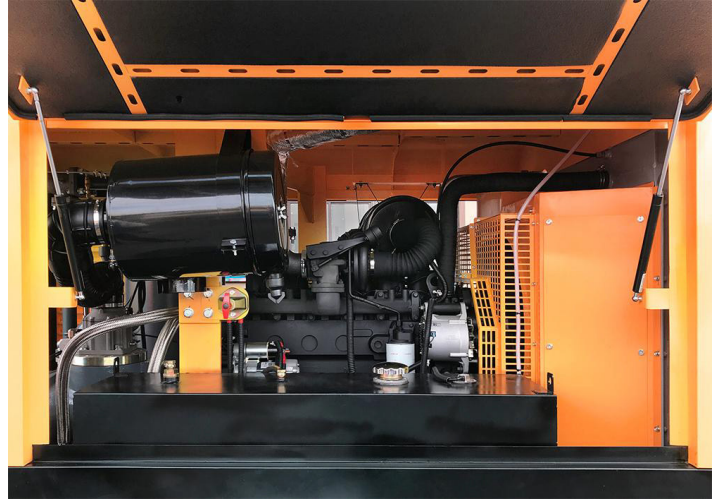
Scan to find installation guides,
repair guides, manuals, and more.



Features

Airend

- New-generation asymmetric α -profile 5/6 rotor set for higher volumetric efficiency
- Redesigned butterfly-shaped discharge port optimizes the oil injection point and reduces overall power draw
- Rotors machined on Holroyd grinders; dynamic balance to G2.5, for quieter running



Yanmar 4TNV86CT-PTY1 Diesel Engine

- 47 HP (35.5 kW) four-cylinder, 94 × 110 mm bore and stroke
- EPA Tier 4 Final / EU Stage V certified
- Turbocharged and charge-air cooled
- 18.5 gallon fuel tank
- Up to 10 hours continuous runtime
- 2,400 RPM nominal



Superior Performance

- Patented oil/air separation system delivers cleaner compressed air. Oil carryover under 3 PPM with less than 3 psi (0.02 MPa) pressure drop across the separator
- Purpose-built intake filtration: steel-housed two-stage air filters with a mechanical restriction indicator, for clean air even in dusty conditions
- Automatic shutdown protection



Intelligent Control & Protection

- Continuous monitoring with alarm and warning functions for full-time visibility into machine operation
- Digital control panel displays live operating parameters
- Guard over the engine drive belt for safe operation
- Oversized mesh guard over the cooling fan
- Emergency stop button
- Anti-static drive belts and fan blades to prevent sparking



Noise & Vibration Control

- Composite acoustic insulation
- Low-VOC, heat resistant and flame retardant, with a high surface area that effectively attenuates high-frequency noise in the 1,000–2,000 Hz range
- Vibration isolators developed specifically for compressor applications, combining high vertical compliance with lateral stiffness to absorb vibration from the drivetrain and enclosure and hold overall machine vibration under 7.1 mm/s



Technical Data

Compressor Package

Compression type	Single-stage, oil-injected screw
Medium	Air
Free air delivery	185 CFM (5.2 m ³ /min)
Working pressure	100 PSI (7 bar)
Reference atmospheric pressure	14.98 PSIA (0.1033 MPa)
Max ambient temperature	115 °F (46 °C)
Max relative humidity	80%
Separator tank volume	7.9 gal (30 L)
Rotor material	SAE 1141 steel
Wheels	2
Dimensions (L×W×H)	119" × 65" × 68" (3020 × 1650 × 1730 mm)
Weight	1,984 lbs (900 kg)
Air outlet connections	3 × 3/4" BSPP

Diesel Engine

Model	Yanmar 4TNV86CT-PTY1
Rated power	47 HP (35.5 kW)
Bore × stroke × cylinders	3.70" × 4.33" (94 × 110 mm), 4-cylinder
Emissions	Tier 4 Final
Speed, nominal	2,400 RPM
Engine oil capacity	1.8 gal (7 L)
Coolant capacity	2.1 gal (8 L)
Fuel tank	18.5 gal (70 L)

Dimensions & Drawings

