

**IR** Ingersoll Rand

**Oil Free - Portable Air Compressor**

**NHP1500WCU**



**PORTABLE POWER**  
Powerful. Dependable. Global.

# High Performance With Control

*Ingersoll-Rand*

*has been the world*

*leader in compressor*

*technology for more*

*than 125 years, and*

*the NHP1500WCU*

*(1500 model) embodies*

*this tradition of industry*

*leadership. Carefully*

*designed to meet your*

*specific demands, the*

*1500 compressor*

*provides the power, fuel*

*efficiency and easy-to-*

*operate features you*

*need while meeting*

*current and future*

*emission regulations.*

*Get the most out of*

*your rental dollar with*

*the high-performing*

*1500 oil-free*

*compressor from IR.*

## Continuous Air Delivery

The NHP1500WCU (1500 model) oil-free compressor is capable of continuous 1500 cfm (42.5m<sup>3</sup>/min) free air delivery between 60 psi (4.1 bar) and 150 psi (10.3 bar). This compressor is ideal for applications where constant volume is equally important to correct pressure. Designed for optimum efficiency, it eliminates the need to de-rate as pressure requirements increase.

With an operating pressure range of more than 90 psi, the 1500 provides exceptional application flexibility.

## Environmental Awareness

The sealed base of the 1500 is designed to prevent potential on-site contamination by holding fluid spills.

Furthermore, water precipitated from the air stream by the intercooler and aftercooler is collected and routed to the patented condensate burn-off system. If you are operating in humid conditions where condensate disposal can exceed one ton per day, this is a significant benefit. It is also beneficial in cold conditions where condensate can freeze in temporary drainage systems.

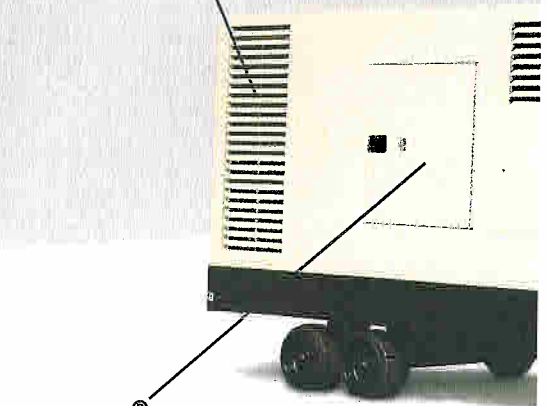
## Options

The 1500 has options available to provide maximum application versatility.

- Auto start — Includes a voltage relay switch connection to allow operators to run the machine at a distance, and a pressure detection system, which automatically starts the machine if the system pressure drops below a certain level.
- Trickle charger — Ensures the batteries remain at full power; a useful feature in standby installations where machines remain dormant for long periods.
- Oil replenishment system — Maintains sufficient lubrication for the engine and reduces maintenance costs by allowing up to 500 hours of full-load operation between service intervals.

## Patented Condensate Burn-off System

Collects water from aftercooler/water separator and injects into engine exhaust for flash evaporation. Eliminates the need for conventional condensate drainage systems.



## Intellisys®

Accurate matching of machine output against system requirements.

## Easy Installation

Lifting eyes, forklift slots and running gear provide increased maneuverability.

## Reliable and Durable Design

Interconnecting piping is stainless-steel, and the intercooler and aftercooler are corrosion-resistant. This protects the airend and downstream installation from impurities.

The 600 HP Cummins QSX-15 is turbocharged, common rail and is intercooled to ensure optimum efficiency and performance. The 1500 is capable of running at full load for at least 10 hours with the onboard fuel supply, which can be easily connected to an auxiliary fuel tank to simplify fuel supply.

## Maximum Airend Efficiency

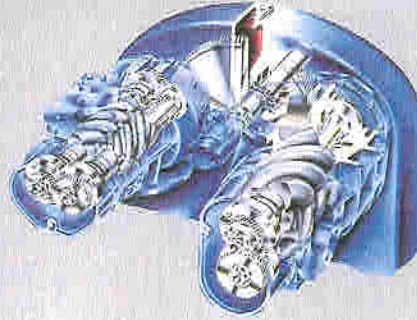
Precision-machined in a twenty-step manufacturing process, each set of rotors has an UltraCoat finish. UltraCoat not only optimizes the rotor profile, but also provides outstanding corrosion resistance, which is essential in minimizing air slippage and maintaining airend efficiency.

### Engine

600 HP Intellisys® controlled for high efficiency and low emission.

### Airend

Extensively field-proven in industrial applications, the two-stage, oil-free airend is the heart of the machine.



### Safety

Visual and audible advanced warning of machine start-up.

### Remote Monitoring

Satellite communication system is an optional feature and is operated through a computer with a modem connection. Reduces service costs and helps with maintenance scheduling through shutdown warnings.



### Intelligent Control

The Intellisys® control system is a comprehensive operational, diagnostic and safety interface. Known for its user-friendly features, the Intellisys® control system is built into the 1500, as well as other IR compressors. The system is carefully structured to give as little or as much information as necessary and allows the compressor operating parameters to be fine-tuned quickly and easily.

### Compliant with Emission Standards

Powered by the 600 HP Cummins QSX-15, which meets current and future emission requirements.

### Power in Any Climate

The 1500 unit has excellent ambient capabilities. Not only will it operate in hot climates, it will also start in temperatures as low as -20° F. A cold weather protection system is standard.

The main benefit of cold-start equipment is the improved response time needed before the machine comes up to temperature and can begin working. You will find this feature especially beneficial when you have a need for emergency air.

### Easy to Maintain

Fluid systems on the 1500 are conveniently located, allowing you to easily maintain fluid levels between servicing. Central drain systems are standard for easy servicing.



## Ingersoll-Rand Oil Free Air Compressors

MODEL	NHP1500WCU	
<b>Engine</b>		
Make		Cummins
Model		QSX-15
No. of Cylinders		6
Cylinder Bore	in/mm	5.39/137
Cylinder Stroke	in/mm	6.7/170
Displacement	cu in/liters	915/15
Rated Speed	rpm	1,800
Idle Speed	rpm	1,200
BHP @ Rated Speed		600/448 kW
Fuel/Cooling		Diesel/Water
Electrical Volts/Batteries, CCA		24/1,400
Engine Oil Capacity	quarts/liters	44/42
Radiator Coolant Capacity	gallons/liters	19/72
Fuel Consumption @ 100% Load	GPH/LPH	24/90.8
Fuel Tank Capacity	gallons/liters	300/1136
Operating Time	hours	12.5 @ full load
<b>Rotary Screw Compressor</b>		
No. of compression stages		2
Free Air Delivery	cfm/m <sup>3</sup> min	1,500/42.48
Rated Operating Pressure	psig/bar	150/10.3
Pressure Range	psig/bar	60 – 165/4.1 – 11.4
Air Discharge Outlet Size		3.0/76.2
Air Discharge Outlet Quantity		1
Lube Oil Capacity	gallons/liters	20/76
<b>Dimensions with Running Gear</b>		
Type Running Gear		wagon steer
Overall Length incl. drawbar	in/mm	287/7,290
Overall Length not incl. drawbar	in/mm	237/6,020
Overall Width	in/mm	89.8/2,281
Overall Height	in/mm	98.3/2,497
Track Width	in/mm	77.5/1,969
Shipping Weight	lb/kg	19,600/8,889
<b>Dimensions without Running Gear</b>		
Overall Length	in/mm	237/6,020
Overall Width	in/mm	89.8/2,281
Overall Height	in/mm	91.3/2,319
Shipping Weight	lb/kg	19,000/8,617

Ingersoll-Rand air compressors are not designed, intended or approved for breathing air. Compressed air should not be used for breathing air applications unless treated in accordance with all applicable codes and regulations.

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