

# 700 CFM to 1000 CFM Portable Air Compressors

**IR** Ingersoll-Rand



## Wide Range, Full Performance

Ingersoll-Rand offers the widest range of compressors in this class of machines, designed to meet all your applications. Available in nine models, these compressors come with a rated capacity range of 700 – 1,000 cfm (19.80 – 28.32 m<sup>3</sup>/min) and operating pressures of 125 – 300 psig (8.6 – 20.7 bar). This includes two models at 300 psig (20.7 bar) for drilling applications. Add to that the standard feature of a fully galvanized enclosure for maximum corrosion protection and durability.

## Onboard Aftercoolers and Coalescing Filters

An optional internal aftercooler is available for the 700 – 1,000 cfm (19.80 – 28.32 m<sup>3</sup>/min) models. These aftercoolers offer an approach temperature of 30° F and are available with optional particulate and coalescing filters, and a patented condensate disposal system for cleaner, drier air. The IQ System™ is available on all models in this series.

**IQ**™  
**SYSTEM**

# 700 CFM to 1000 CFM Portable Air Compressors

## Specifications

| MODEL  | VHP750WCAT                                      | MHP825WCAT                                      | VHP750WCU                                       | MHP825WCU                                       | HP915WCU  | XP1000WCU                                       | XHP700WCAT                                      | XHP700WCU                                       | SHP750WCAT                                      |
|--|---|---|---|---|---|---|---|---|---|
| <b>ENGINE — TIER 2</b>                                     |   |   |   |   |   |   |   |   |   |
| Make   | Caterpillar                                     | Caterpillar                                     | Cummins   | Cummins   | Cummins   | Cummins   | Caterpillar                                     | Cummins   | Caterpillar                                     |
| Model  | C-9   | C-9   | QSL-9   | QSL-9   | QSL-9   | QSL-9   | C-9   | QSL-9   | C-9   |
| Number Of Cylinders  | 6   | 6   | 6   | 6   | 6   | 6   | 6   | 6   | 6   |
| Displacement – cu in (L)                                   | 535 (8.8)                                       | 535 (8.8)                                       | 543 (8.9)                                       | 543 (8.9)                                       | 543 (8.9)                                       | 543 (8.9)                                       | 535 (8.8)                                       | 543 (8.9)                                       | 535 (8.8)                                       |
| Rated Speed – rpm  | 1,800   | 1,800   | 1,800   | 1,800   | 1,800   | 1,800   | 1,800   | 1,800   | 1,800   |
| Idle Speed – rpm   | 1,200   | 1,200   | 1,200   | 1,200   | 1,200   | 1,200   | 1,350   | 1,350   | 1,350   |
| BHP @ Rated Speed  | 275   | 275   | 299   | 299   | 299   | 299   | 275   | 299   | 275   |
| Electrical   | 24 V  | 24 V  | 24 V  | 24 V  | 24 V  | 24 V  | 24 V  | 24 V  | 24 V  |
| <b>COMPRESSOR — ISO 1217 — ROTARY SCREW / SINGLE-STAGE</b> |   |   |   |   |   |   | <b>2-STAGE</b>                                  |   |   |
| Free-air Delivery – cfm (m <sup>3</sup> /min)              | 750 (21.24)                                     | 825 (23.36)                                     | 750 (21.24)                                     | 825 (23.36)                                     | 915 (25.90)                                     | 1,000 (28.32)                                   | 700 (19.80)                                     | 700 (19.80)                                     | 750 (21.24)                                     |
| Rated Operating Pressure – psig (bar)                      | 200 (13.79)                                     | 175 (12.07)                                     | 200 (13.79)                                     | 175 (12.07)                                     | 150 (10.34)                                     | 125 (8.62)                                      | 300 (20.70)                                     | 300 (20.70)                                     | 250 (17.25)                                     |
| Pressure Range – psig (bar)                                | 80 – 225 (5.52 – 15.51)                         | 80 – 200 (5.52 – 13.79)                         | 80 – 225 (5.52 – 15.51)                         | 80 – 200 (5.52 – 13.79)                         | 80 – 175 (5.52 – 12.07)                         | 80 – 150 (5.52 – 10.34)                         | 140 – 325 (9.65 – 22.4)                         | 140 – 325 (9.65 – 22.4)                         | 140 – 275 (9.65 – 18.95)                        |
| Air Discharge Outlet NPT Size – in (mm)                    | 2.0 (50.8)                                      | 2.0 (50.8)                                      | 2.0 (50.8)                                      | 2.0 (50.8)                                      | 2.0 (50.8)                                      | 2.0 (50.8)                                      | 2.0 (50.8)                                      | 2.0 (50.8)                                      | 2.0 (50.8)                                      |
| Air Discharge Outlet Quantity                              | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |
| <b>DIMENSIONS W/ RUNNING GEAR</b>                          |   |   |   |   |   |   |   |   |   |
| Overall Length – in (mm)                                   | Wagon 166 (4210)<br>High Speed 215 (5461)       | Wagon 166 (4210)<br>High Speed 215 (5461)       | Wagon 166 (4210)<br>High Speed 215 (5461)       | Wagon 166 (4210)<br>High Speed 215 (5461)       | Wagon 166 (4210)<br>High Speed 215 (5461)       | Wagon 166 (4210)<br>High Speed 215 (5461)       | Wagon 166 (4210)<br>High Speed 215 (5461)       | Wagon 166 (4210)<br>High Speed 215 (5461)       | Wagon 166 (4210)<br>High Speed 215 (5461)       |
| Overall Width – in (mm)                                    | Wagon 79 (2007)<br>High Speed 79 (2007)         | Wagon 79 (2007)<br>High Speed 79 (2007)         | Wagon 79 (2007)<br>High Speed 79 (2007)         | Wagon 79 (2007)<br>High Speed 79 (2007)         | Wagon 79 (2007)<br>High Speed 79 (2007)         | Wagon 79 (2007)<br>High Speed 79 (2007)         | Wagon 79 (2007)<br>High Speed 79 (2007)         | Wagon 79 (2007)<br>High Speed 79 (2007)         | Wagon 79 (2007)<br>High Speed 79 (2007)         |
| Overall Height – in (mm)                                   | Wagon 91.2 (2316)<br>High Speed 92.7 (2355)     | Wagon 91.2 (2316)<br>High Speed 92.7 (2355)     | Wagon 91.2 (2316)<br>High Speed 92.7 (2355)     | Wagon 91.2 (2316)<br>High Speed 92.7 (2355)     | Wagon 91.2 (2316)<br>High Speed 92.7 (2355)     | Wagon 91.2 (2316)<br>High Speed 92.7 (2355)     | Wagon 91.2 (2316)<br>High Speed 92.7 (2355)     | Wagon 91.2 (2316)<br>High Speed 92.7 (2355)     | Wagon 91.2 (2316)<br>High Speed 92.7 (2355)     |
| Track Width – in (mm)                                      | Wagon 66.3 (1684)<br>High Speed 68.4 (1737)     | Wagon 66.3 (1684)<br>High Speed 68.4 (1737)     | Wagon 66.3 (1684)<br>High Speed 68.4 (1737)     | Wagon 66.3 (1684)<br>High Speed 68.4 (1737)     | Wagon 66.3 (1684)<br>High Speed 68.4 (1737)     | Wagon 66.3 (1684)<br>High Speed 68.4 (1737)     | Wagon 66.3 (1684)<br>High Speed 68.4 (1737)     | Wagon 66.3 (1684)<br>High Speed 68.4 (1737)     | Wagon 66.3 (1684)<br>High Speed 68.4 (1737)     |
| Tire Size – in (mm)  | Wagon 16 (406)<br>High Speed 14.5 (368)         | Wagon 16 (406)<br>High Speed 14.5 (368)         | Wagon 16 (406)<br>High Speed 14.5 (368)         | Wagon 16 (406)<br>High Speed 14.5 (368)         | Wagon 16 (406)<br>High Speed 14.5 (368)         | Wagon 16 (406)<br>High Speed 14.5 (368)         | Wagon 16 (406)<br>High Speed 14.5 (368)         | Wagon 16 (406)<br>High Speed 14.5 (368)         | Wagon 16 (406)<br>High Speed 14.5 (368)         |
| Shipping Weight — No Fuel – lb (kg)                        | Wagon 9,570 (4350)<br>High Speed 9,680 (4400)   | Wagon 9,570 (4350)<br>High Speed 9,680 (4400)   | Wagon 9,370 (4259)<br>High Speed 9,480 (4300)   | Wagon 9,370 (4259)<br>High Speed 9,480 (4300)   | Wagon 9,370 (4259)<br>High Speed 9,480 (4300)   | Wagon 9,370 (4259)<br>High Speed 9,480 (4300)   | Wagon 9,920 (4510)<br>High Speed 10,030 (4559)  | Wagon 9,770 (4432)<br>High Speed 9,830 (4469)   | Wagon 9,770 (4432)<br>High Speed 9,830 (4469)   |
| Working Weight — w/ Fuel – lb (kg)                         | Wagon 10,550 (4795)<br>High Speed 10,450 (4750) | Wagon 10,550 (4795)<br>High Speed 10,450 (4750) | Wagon 10,350 (4705)<br>High Speed 10,250 (4659) | Wagon 10,350 (4705)<br>High Speed 10,250 (4659) | Wagon 10,350 (4705)<br>High Speed 10,250 (4659) | Wagon 10,350 (4705)<br>High Speed 10,250 (4659) | Wagon 10,900 (4955)<br>High Speed 10,800 (4910) | Wagon 10,750 (4886)<br>High Speed 10,600 (4820) | Wagon 10,750 (4886)<br>High Speed 10,600 (4820) |
| Fuel Tank Capacity – gal (L)                               | Wagon 140 (530)<br>High Speed 110 (515)         | Wagon 140 (530)<br>High Speed 110 (515)         | Wagon 140 (530)<br>High Speed 110 (515)         | Wagon 140 (530)<br>High Speed 110 (515)         | Wagon 140 (530)<br>High Speed 110 (515)         | Wagon 140 (530)<br>High Speed 110 (515)         | Wagon 140 (530)<br>High Speed 110 (515)         | Wagon 140 (530)<br>High Speed 110 (515)         | Wagon 140 (530)<br>High Speed 110 (515)         |
| <b>DIMENSIONS W/O RUNNING GEAR</b>                         |   |   |   |   |   |   |   |   |   |
| Overall Length – in (mm); Add 8" (203 mm) Service Valves   | 153 (3886)                                      | 153 (3886)                                      | 153 (3886)                                      | 153 (3886)                                      | 153 (3886)                                      | 153 (3886)                                      | 153 (3886)                                      | 153 (3886)                                      | 153 (3886)                                      |
| Overall Width – in (mm)                                    | 79 (2007)                                       | 79 (2007)                                       | 79 (2007)                                       | 79 (2007)                                       | 79 (2007)                                       | 79 (2007)                                       | 79 (2007)                                       | 79 (2007)                                       | 79 (2007)                                       |
| Overall Height – in (mm)                                   | 77 (1956)                                       | 77 (1956)                                       | 77 (1956)                                       | 77 (1956)                                       | 77 (1956)                                       | 77 (1956)                                       | 77 (1956)                                       | 77 (1956)                                       | 77 (1956)                                       |
| Shipping Weight — No Fuel – lb (kg)                        | 9,120 (4145)                                    | 9,120 (4145)                                    | 8,920 (4046)                                    | 8,920 (4046)                                    | 8,920 (4046)                                    | 8,920 (4046)                                    | 9,470 (4305)                                    | 9,320 (4236)                                    | 9,320 (4236)                                    |
| Working Weight — w/ Fuel – lb (kg)                         | 10,100 (4591)                                   | 10,100 (4591)                                   | 9,900 (4500)                                    | 9,900 (4500)                                    | 9,900 (4500)                                    | 9,900 (4500)                                    | 10,450 (4750)                                   | 10,300 (4682)                                   | 10,300 (4682)                                   |

Product improvement is a continuing goal at Ingersoll-Rand. Designs and specifications are subject to change without notice or obligation.

### ENGINE CHOICE

Both Cummins and Caterpillar diesel engines are turbocharged, aftercooled, and meet U.S. / EPA Tier 2 exhaust emission standards.

### KEY FEATURES / BENEFITS

- Fully galvanized sheet metal enclosure for ultimate corrosion protection
- Compact size increases maneuverability
- Large fuel tank lasts the full shift
- Rear steps allow easier access to radiator for refilling engine coolant
- Wagon wheel or high speed running gear design options and computerized control panel increase efficiency; gauges include engine temperature, hour meter, volt meter, discharge air temperature, engine oil pressure, tachometer, and fuel level

### WORKING WITH HIGH-PRESSURE AIR

The Ingersoll-Rand mid-size compressor line provides whatever combination of pressure and flow you need for construction, drilling and quarry, abrasive blasting, shotcreting, or industrial applications.

### WARRANTY

One-year / 2,000-hour warranty on all components, except engines, tires, and batteries, which carry the manufacturer's warranty.

### AIREND

Two-year / 4,000-hour warranty on airend, extended to 5-year / 10,000-hour warranty when original Ingersoll-Rand filters, fluids, and parts are used at the prescribed intervals.



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