



Ingersoll Rand Model 20H40NGSX

The Ingersoll Rand Model 20H40NGSX is a simplex self contained compressor package that includes carefully matched components that are prepped, prewired, tested and proven reliable in operation. With an inlet gas pressure of 20 psig, the 20H40NGSX will have a flow capacity of 58 scfm and a design pressure of 5,000 psig.

Compressor

The package shall include one (1) air-cooled Ingersoll Rand natural gas compressor engineered specifically for refueling applications. The multistage compressor is complete with cooling fan, inter-stage intercoolers and aftercoolers, ASME relief valves and separators.

Electric Motor Drive

The package shall include one (1) 1800 rpm, totally enclosed, explosion-proof electric motor rated for 230/460 volt, 3 phase, 60 Hz. The motor shall be complete with V-belt drive, belt tightener, full-voltage motor starter and totally enclosed metal belt guard with antistatic belts. Alternative electrical configurations are available upon request.

Inlet System

A threaded Inlet gas connection complete with pulsation tank, coalescing filter and solenoid valves is standard on each package.

Automatic Condensate Drain System

An automatic condensate drain system regularly dumps liquids collected by separators into a gas recovery tank at user-selected intervals.

Gas Recovery System

Closed loop vent recovery system with ASME tank, ASME relief valve, pressure gauge and manual drain valve.

Safety Controls

The Ingersoll Rand package includes the following electric shutdown controls as standard trim:

Low/high inlet (suction) pressure, high discharge pressure, discharge control pressure, high fourth stage discharge temperature, excessive motor starts, low crankcase oil level, main motor/starter overload and emergency shutdown switch.

Discharge System

The discharge system includes priority (back pressure) valve and coalescing filter with stainless steel discharge tubing.

Control Panel with PLC

The Ingersoll Rand package includes a Frank W. Murphy CNG Level II control panel for automatic start/stop operation. The panel, as well as the entire package, is rated for NEC Class 1, Group D, Div 2. The panel includes the following: Murphy Switchgauges, LCD annunciator panel (system status display) including first out alarm, hour meter, keyed off/auto switch displayed in a weather tight panel. Additional features are available. Please contact us with your specific requirements. mckenzie@mckenziecorp.com

Design Standards

Ingersoll Rand's package design complies with the NFPA 52 Standard for CNG Vehicular Fuel Systems. All electric devices and wiring comply with NFPA 70 National Electrical Code and are NEC rated Class 1, Group D, Division 2.