

**OIL-FREE, ROTARY SCREW AIR COMPRESSORS**  
*Two-stage, Air-cooled and Water-cooled  
Fixed speed or VFD*

20-60 HP  
72-205 CFM  
40-125 PSIG

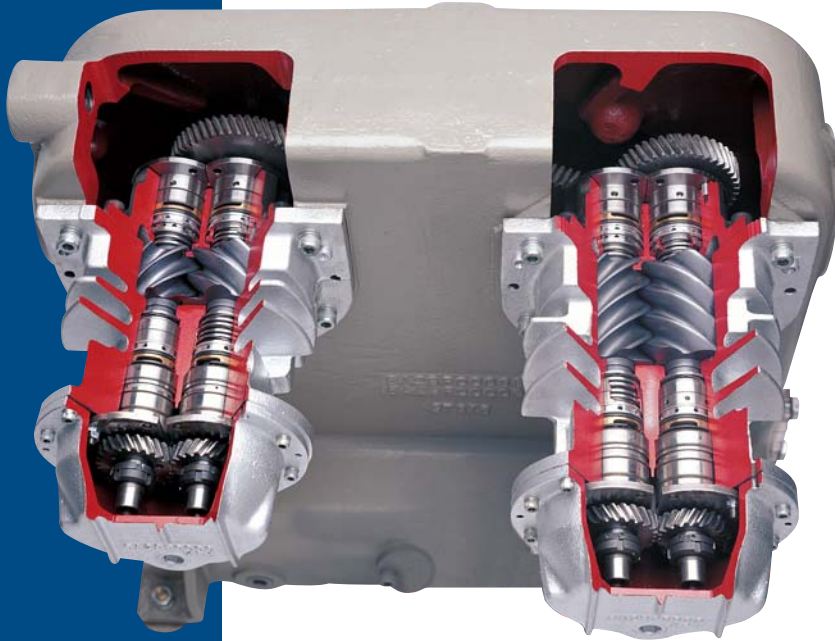
**KOBELCO**<sup>®</sup>  
KNW SERIES

*Meets NFPA 99  
requirements for  
use in medical facilities*



[www.knw-series.com](http://www.knw-series.com)

## Proven Rotary Screw Technology in a Compact Package



### Rotary Screw Design

Since the first compressor manufactured in 1955, Kobelco® has stayed one step ahead of the competition with constant innovation and dedication to quality. This product confirms Kobelco®'s continuous commitment to providing the most advanced, reliable, and best built products on the market.

Long acknowledged to be the most efficient, low cost, and reliable method for producing oil-free air, the Kobelco® KNW Series rotary screw compressor is now available in smaller sizes to meet a wide range of applications. With sizes ranging from 20 - 500 horsepower, the Kobelco® KNW Series offers the most complete line available today.

## Touchscreen Operator Interface



Optional color display.

### Touchscreen Display with Graphics

Complete status indication is displayed continuously during operation, while in stand-by or after emergency shutdown. Discrete push buttons with lights for quick indication of operating status.

### Allen Bradley Programmable Microprocessor Controller

The microprocessor initiates and sequences the proper events during start-up, operation and shutdown. It monitors system functions, safety devices and instrumentation. The microprocessor incorporates an

erasable programmable read only memory chip (EPROM) for permanent program storage. Programs can be changed to meet various plant requirements. In addition, interfacing with other equipment and plant monitoring systems is easily accomplished. Ethernet option is available for internet or intranet connection.

*Simple and Efficient with High Reliability*

### **Energy Saving Load/Unload Capacity Control or VFD**

Simple capacity control provides reliable operation and maximum energy efficiency. This control loads and unloads the compressor to match system demand keeping energy costs to a minimum. The compressor will shutdown after operating unloaded for a period of time and automatically restart on system demand. VFD models are also available.

### **Quiet**

Full sound enclosure with easy to remove panels provide quick access for routine maintenance. Quiet operation 64 – 74 dB(A) is standard.

### **High Efficiency TEFC Motor**

An energy efficient, heavy-duty motor is flange mounted to the compressor for permanent trouble-free alignment.

### **Low Installation Cost**

Conveniently located utility connections provide quick and easy installation. Units are thoroughly factory tested prior to shipment. All models have the same compact design. Air or water cooled models are available.



*Air-cooled model.*

### **Lubrication of Gears and Bearings**

All Kobelco® KNW Series compressors incorporate timing gears to prevent contact between rotors and rotor housing, eliminating wear and air

capacity loss during the life of the unit. A separate motor driven oil pump ensures positive lubrication of all gears and bearings prior to start-up, maximizing component life.



Standard Allen-Bradley PLC. Built in sequencing capability—up to four compressors. Interfacing with plant monitoring systems easily accomplished (optional). (Optional Allen Bradley Ethernet Communication module shown.) PLC manufacturers of customer preference can also be utilized at additional cost.

### **Hospital Package**

The Kobelco® KNW Series compressor meets the requirements of NFPA99. Healthcare facility option package includes the following:

- Inlet air adapter
- Auto restart after power failure
- Lag-in use alarm
- Non-fused disconnect switch
- Automatic lead / lag control

Kobelco® KNW Series oil-free compressors are preferred by hospitals worldwide. Customers prefer the lower maintenance costs, energy efficiency, low sound level, dependable and vibration free operation, when compared to liquid ring, reciprocating or scroll type compressors.

## Custom Packaging Available

To meet the demands and preferences of a wide range of customers and industries, we offer custom packaging of compressors, dryers, filters and receivers. From the simple package shown to projects requiring stainless steel welded pipe, Nema 7 controls, or outdoor weather protection, we can supply it. Packaging greatly reduces on site installation costs and the equipment is tested together.



Typical clean dry air system

## Heat of Compression Dryer

- Zero purge air loss
- Lowest energy cost of any type of dryer
- Low dewpoint suppression
- Simple design
- Minimum maintenance
- Delivered with interconnecting piping and after filter
- Ask for bulletin #KNWHOC 0703 for more details



Air-cooled assembly with heat of compression dryer.

# KOBELCO<sup>®</sup>

## KNW SERIES



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 Houston, TX  
 Newark, NJ  
 San Jose, CA



KNW00 (7-05)  
 Litho in USA

**Specifications Subject To Change Without Notice**

Breathing air systems are regulated by OSHA (see 29 CFR 1910.134) and medical systems must comply with NFPA 99 guidelines.