



*Powered by Kobelco® KNW  
Series Oil-Free, Rotary Screw  
Air Compressor Modules with  
Powerex Air Treatment  
Center Packages*

**20 - 100 HP**

**Oil-Free • Risk Free**



# Proven Rotary Screw Technology in a Compact Package

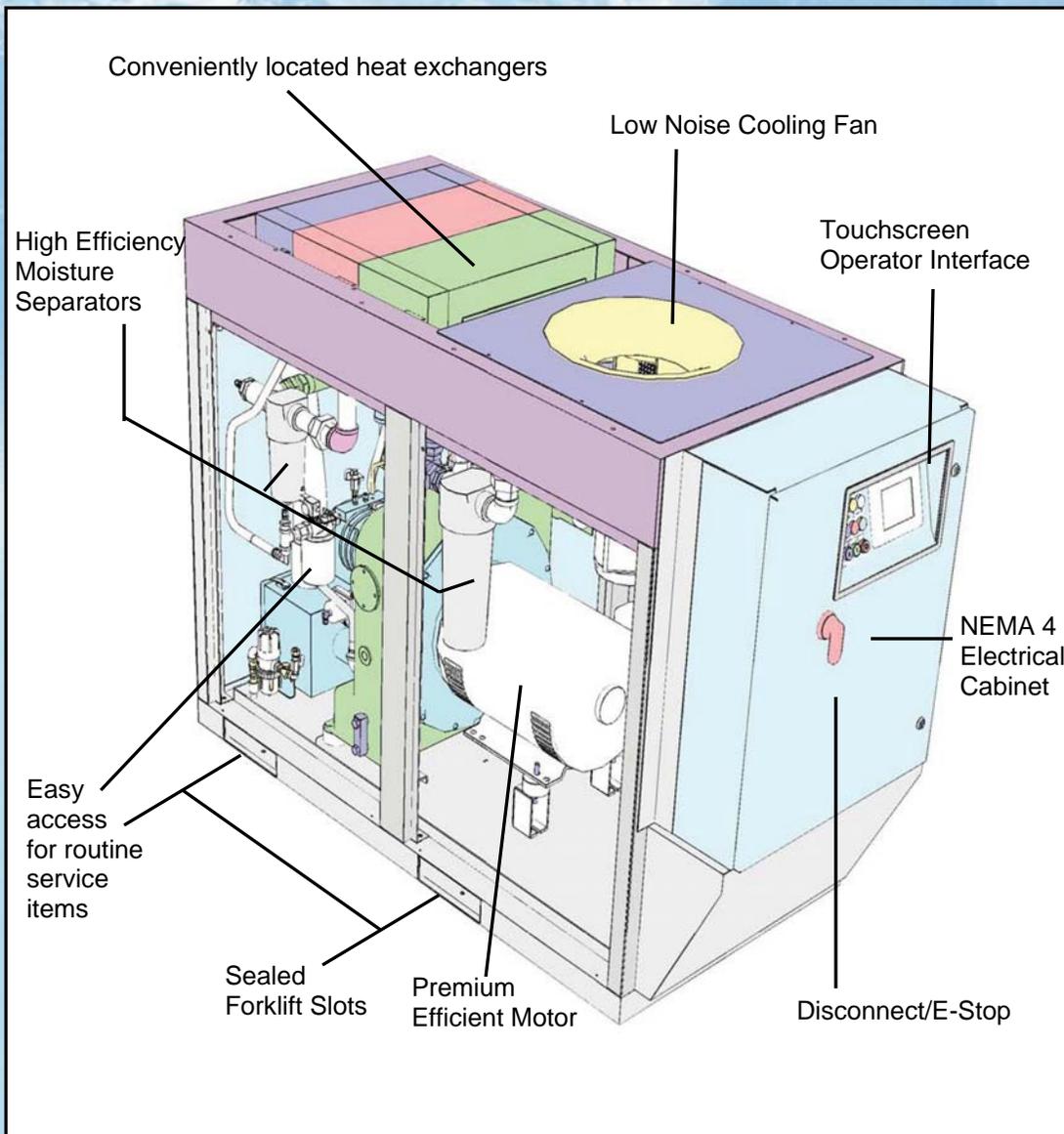
## **Oil-Free • Risk Free Rotary Screw Design**

Since the first compressor manufactured in 1955, Kobelco® has stayed one step ahead of the competition with constant innovation and dedication to quality.

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 available in sizes ranging from 20-100 horsepower. The Kobelco® KNW Series offers the most complete line available on the market.



## Simple and Efficient with High Reliability



### **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 footprint. Air or water cooled models are available.

### **Quiet**

Full sound enclosure with easy to remove panels provide quick access for routine maintenance. Quiet operation 64-74 dB(A) is standard for both air and water cooled models.

### **Premium Efficient Motor**

A premium efficient, EISA heavy-duty motor is flange mounted to the compressor for permanent trouble-free alignment.

### **Optional VFD Control Panel**

Each compressor unit to be equipped with an Integrated Allen Bradley VFD motor control to maximize energy efficiency of the compressor under partial load conditions.

# Healthcare Facility & Laboratory Packages

The Kobelco® KNW Series compressor meets the requirements of NFPA99 for use as a medical air compressor. 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 switch

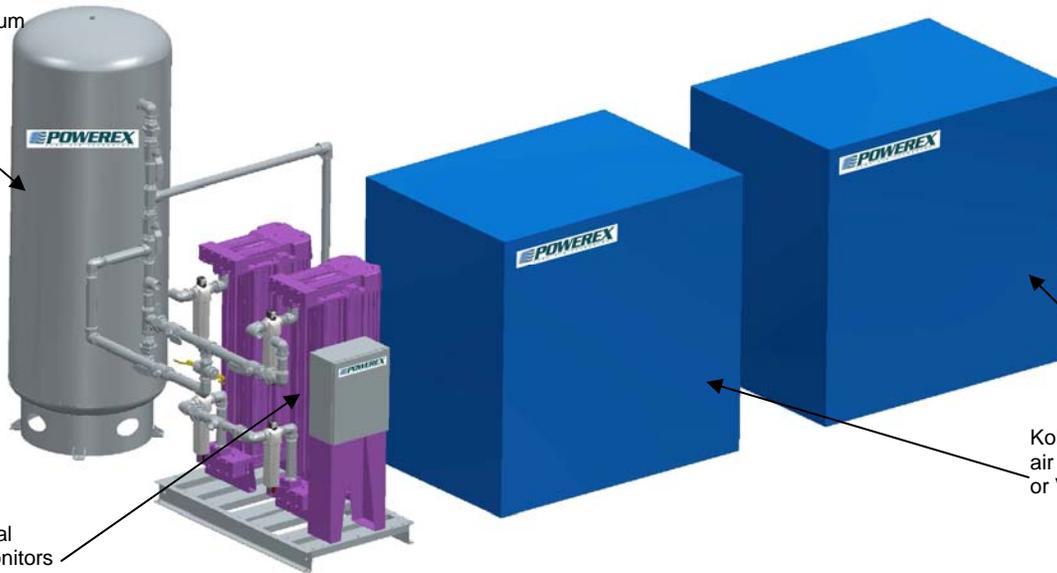
Kobelco® KNW Series oil-free compressors are preferred by hospitals and laboratories worldwide.

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



## 3D Representation of a Duplex System Installation

Control/ wet air receiver sized to compressor capacity approx. 1 gal./ cfm minimum



Powerex Air Treatment Center Package with dual desiccant dryers and monitors

Kobelco® KNW Series oil-free air compressor. Fixed Speed or VFD, Air or Water Cooled

## Medical Rotary Screw Multiplex Systems

Model	SCFM @ 100 PSIG*	HP	Tank (Gal.)
Duplex Systems			
MDRE0406	165	40	240
MDRE0507	225	50	400
MDRE0607	294	60	400
MDRE0757	333	75	400
MDRE1007	403	100	400

### Available Options:

- Air or Water cooled cooling system
- CO Monitor (standard on Medical Systems, optional on Lab)
- VFD control panel
- Activated carbon final filters (standard on Medical Systems, optional on Lab)

## Laboratory Rotary Screw Multiplex Systems

Model	SCFM @ 125 PSIG**	HP	Tank (Gal.)
Duplex Systems			
LDRE0406	244	40	240
LDRE0507	344	50	400
LDRE0607	446	60	400
LDRE0757	584	75	400
LDRE1007	800	100	400

Model	SCFM @ 100 PSIG*	HP	Tank (Gal.)
Triplex Systems			
MTRE0407	330	40	400
MTRE0507	450	50	400
MTRE0607	588	60	400
MTRE0757	666	75	400
MTRE1007	806	100	400

\*NOTE: SCFM values for Medical Rotary Screw Systems are shown with one pump in reserve per NFPA 99

\*\*NOTE: SCFM values for Laboratory Rotary Screw Systems are shown with all compressors running. Dryers are sized with one pump in reserve with automatic valves to energize the reserve dryer as needed.

Model	SCFM @ 125 PSIG**	HP	Tank (Gal.)
Triplex Systems			
LTRE0407	366	40	400
LTRE0507	516	50	400
LTRE0607	669	60	400
LTRE0757	876	75	400
LTRE1007	1200	100	400

## Medical Rotary Screw Systems and Air Treatment Center Package

- Multiplex oil-free rotary screw air compressor modules

### Air Treatment Center Package includes:

- Corrosion resistant air receiver
- Dual Desiccant air dryers
- Dual filtration systems
- Carbon monoxide monitor
- Dew point monitor

**NOTE:** Air Treatment Center Package shipped separately for both Medical and Laboratory Systems.

## Laboratory Rotary Screw Systems and Air Treatment Center Package

- Multiplex oil-free rotary screw air compressor modules

### Air Treatment Center Package includes:

- Corrosion resistant air receiver
- Dual Desiccant air dryers (-40°F)
- Dual filtration systems
- Dew point monitor



## Air Treatment Center Package

- Includes:
  - Dual heatless twin tower desiccant dryers, dual filters, dual regulators and dual safety relief valves
  - Dew point monitor
  - CO monitor (standard on Medical, optional on Laboratory systems)
  - A sample port
  - Air receiver
- All components mounted and plumbed together with bypass valves

**\*NOTE:** Laboratory Rotary Screw Systems dryers are sized with one pump in reserve with automatic valves to energize the reserve dryer as needed.

## Desiccant Air Dryers

### ASME Air Receiver



### Carbon Monoxide Monitor



### Dew Point Monitor



**FOR MORE INFORMATION, CONTACT YOUR LOCAL DISTRIBUTOR OR POWEREX SALES REPRESENTATIVE.**



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