ISO 8573-1 CERTIFIED

OIL-FREE AIR

• Prevents oil contamination of your system
• Limits the potential for compressed air pipeline fires caused by oil carryover
• Eliminates costly waste disposal problems associated with oil-laden condensate
• Eliminates the expense and associated maintenance requirements of oil-removal filters, since no oil is ever the compressed air stream on the compressor

SIMPLE INSTALLATION

• Complete package, including aftercooler, controls, motor and lubrication system
• Reduced number of external connections
• Compact design reduces required floor space
• Meets OSHA's sound level requirements without sound enclosure

LOW-COST OPERATION

• True unloading capability helps to take advantage of opportunities for energy savings
• Increased efficiency provided by alternative technologies translate into reduced operating cycle-costs
• Excellent partial load efficiencies for any operating load
• No sliding or rubbing parts in the compression process causing wear or efficiency loss

EASY OPERATION

• The MAESTRO™ Universal control panel provides switch in-walk access, allowing compressed-air monitoring using your local intranet.
• Significant annual savings in operating costs by providing more precise control
• Easy-to-use, automatic operation

EASY MAINTENANCE

• Compressor elements do not need or require periodic replacement
• No oil removal filters to clean or replace
• Accessible, horizontally split gearbox for quick inspection
• Intercooler and aftercooler bundles are easy to remove for inspection and cleaning
• Water-in-tube design intercooler and aftercooler allow for simple mechanical cleaning
• Maintenance-free dry coupling

HIGH RELIABILITY

• Thrust loads absorbed at low speed
• Non-contacting air and oil seals
• Stainless-steel compression elements
• Conservative, high-quality gear design
• Extended-life pinion bearing design
• Centrifugal compressors are proven to have a long mean time between failures (MTBF), and independent research has shown an industry-adopted availability of 99.7%

Benefits of MSG TURBO-AIR Compressors

Ingersoll Rand (NYSE:IR) advances the quality of life by creating comfortable, sustainable and efficient environments. Our people and our family of brands—including Club Car®, Ingersoll Rand®, Thermo King® and Trane®—work together to enhance the quality and comfort of air in homes and buildings, transport and protect food and perishables, and increase industrial productivity and efficiency. We are a $13 billion global business committed to a world of sustainable progress and enduring results.

Ingersoll Rand® (MSG®) TURBO-AIR® High Pressure Centrifugal Compressors

100% oil-free air*

*Per ISO 8573-1 certification

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MSG® TURBO-AIR® High Pressure Centrifugal Compressors

EFFICIENT PACKAGE

MSG TURBO-AIR High Pressure centrifugal compressors utilize innovative three- and four-piston designs to achieve discharge pressures up to 42 barg (610 psig). The ability to generate such high pressures makes these packages a great fit for applications like soot blowing, nitrogen boosting, and PET bottle blowing. These compact compressor packages include mounted control valves, a mounted intercooler, and the MAESTRO Universal compressor control system.

MSG TURBO-AIR 2040

Compressor Motor Sizes Available
375 to 600 kW (500 to 800 hp)
Compressor Flow Ranges
42 to 61 m³/min
(1500 to 1800 CFM)
Compressor Discharge Pressure Ranges
Up to 42 barg (610 psig)
Typical Package Weight
8635 kg (19,000 lb)

MSG TURBO-AIR 6040

Compressor Motor Sizes Available
Up to 1700 kW (2250 hp)
Compressor Flow Ranges
42 to 51 m³/min
(127 to 167 m³/min)
Compressor Discharge Pressure Ranges
Up to 42 barg (610 psig)
Typical Package Weight
6350 kg (14,000 lb)

High Pressure Applications

MSG TURBO-AIR High Pressure centrifugal compressors provide reliability, low maintenance, and a low total cost of ownership for many high pressure applications.

LOW TOTAL COST OF OWNERSHIP

Over time, the energy required to power a compressed air system is the largest cost associated with a compressor, particularly in today’s fluctuating energy markets. That is why it accurately determines the return on your investment, it is important to consider the total life-cycle cost of operating the compressor, including the initial investment, energy consumption and maintenance costs.

As the chart demonstrates, MSG TURBO-AIR compressors provide some of the lowest total life-cycle costs of any compressor, including drive, screw, variable speed drive (VSD) type and other centrifugal compressors. Compared to other machines of similar capacity, MSG TURBO-AIR compressors are some of the most efficient oil-free compressors at full load, part load and no load.

The power savings delivered can significantly speed up the payback on your initial investment, and the savings continue to build the more you use your MSG TURBO-AIR compressor.

Life-Cycle Cost Comparison


tyre dependent

CONTROL SYSTEMS

Ingersoll Rand can provide the right control system engineered for your applications.

MAESTRO Suite of Controls

MAESTRO control systems offer optimal protection and control for your compressed air system. The MAESTRO suite contains a model that is sure to be in tune with your needs.

MAESTRO Universal

- Windows CE-driven system includes a built-in web server and setup wizard for quick configuration
- Able to handle multiple stages and designed for many makes and models of compressors
- 10” color graphic display continuously monitors
- Built-in USB port for system configuration and data logging
- Capable of monitoring and controlling the total system across multiple units

MAESTRO PLC

- Utilizes an Allen-Bradley CompactLogix platform with: 16 digital inputs, 16 digital outputs, 16 analog inputs, 4 analog outputs and 12 PID inputs
- Comes standard with an ASCII-to-Modbus Plus 1000 10” touchscreen
- Networking software available for automation of multiple units and total system automation
- Optional stainless steel enclosure available.

ISO CERTIFIED CLASS ZERO

The MSG TURBO-AIR centrifugal compressor product line has been engineered to produce oil-free air for over 60 years. This certification officially acknowledges the ability of our compressors to produce 100% oil-free air, providing our customers with enhanced quality assurance.

IngersollRandProducts.com
ISO 8573-1 CERTIFIED
OIL-FREE AIR

• Prevents oil contamination of your system
• Limits the potential for compressed air pipeline fires caused by oil carryover
• Eliminates costly waste disposal problems associated with oil-laden condensate
• Eliminates the expense and associated maintenance requirements of oil-removal filters, since no oil ever enters the compressed air stream on the compressor

SIMPLE INSTALLATION

• Complete package, including aftercooler, controls, motor and lubrication system
• Reduced number of external connections
• Compact design reduces required floor space
• Meets Oills standard requirements without sound enclosure

LOW-COST OPERATION

• True unloading capability helps to take advantage of opportunities for energy saving
• Increased plant capacity and energy savings translate into reduced operating life-cycle costs
• Excellent part-load efficiencies for any operating load
• No sliding or rubbing parts in the compression process causing wear or efficiency loss

EASY OPERATION

• The MAESTRO™ Universal control panel provides insight in real time, allowing compressor monitoring using your local intranet
• Significant annual savings in operating costs by providing more precise control
• Easy-to-use, automatic operation

EASY MAINTENANCE

• Compression elements do not leak or require periodic replacement
• No oil removal filters to clean or replace
• Accessible, biannually, high pressure for quick impact
• Intercooler and aftercooler bundles are easy to remove for service or cleaning
• Water-in-tube design intercooler and aftercooler allow for simple mechanical cleaning
• Maintenance-free dry coupling

HIGH RELIABILITY

• Thrust loads absorbed at low speed
• Non-contacting air and oil seals
• Stainless steel compression elements
• Conservative, high quality gear design
• Extended life pinion bearing design
• Centrifugal compressors are proven to have a long mean time between failures (MTBF), and independent research has shown an industry-leading availability of 99.7%

Benefits of MSG TURBO-AIR Compressors

MSG TURBO-AIR® High Pressure Centrifugal Compressors
100% oil-free air*

*Per ISO 8573-1 certification

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Distributed by:

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MSG® TURBO-AIR® High Pressure Centrifugal Compressors

EFFICIENT PACKAGE
MSG TURBO-AIR High Pressure centrifugal compressors utilize innovative three- and four-pinion designs to achieve discharge pressures up to 42 barg (610 psig). The ability to generate such high pressures makes these packages a great fit for applications like soot blowing, nitrogen boosting, and PET bottle blowing. These compact compressor packages include mounted control valves, a mounted intercooler, and the MAESTRO® Universal compressor control system.

MSG TURBO-AIR 2040
Compressor Motor Sizes Available
375 to 600 kW (500 to 800 hp)
Compressor Discharge Pressure Ranges
Up to 167 m³/min (900 CFM)
Compressor Flow Ranges
42 to 61 m³/min (1500 to 2000 CFM)
Typical Package Weight* 8635 kg (19,000 lb) *Driver dependent

MSG TURBO-AIR 6040
Compressor Motor Sizes Available
Up to 1700 kW (2300 hp)
Compressor Discharge Pressure Ranges
Up to 167 m³/min (900 CFM)
Compressor Flow Ranges
127 to 187 m³/min (4500 to 6500 CFM)
Typical Package Weight* 12,585 kg (28,000 lb) *Driver dependent

HIGH PRESSURE APPLICATIONS
MSG TURBO-AIR High Pressure centrifugal compressors provide reliability, low maintenance, and a low total cost of ownership for many high pressure applications.

HIGH PRESSURE APPLICATIONS
• Soot blowing
• Aircraft testing
• Chemicals
• Nitrogen boosting
• Automotive industry

LOW TOTAL COST OF OWNERSHIP
Over time, the energy required to power a compressed air system is the largest cost associated with a compressor, particularly in today’s fluctuating energy markets. That is why it accurately determines the return on your investment, it is important to consider the total life-cycle cost of operating the compressor, including the initial investment, energy consumption and maintenance costs. As the chart demonstrates, MSG TURBO-AIR compressors provide some of the lowest total life-cycle costs of any compressor, including dry screws, variable speed drive (VSD) screw and other centrifugal compressors. Compared to other machines of similar capacity, MSG TURBO-AIR compressors are among the most efficient oil-free compressors at full load, part load and no load. The power savings delivered can significantly speed up the payback on your initial investment, and the savings continue to build the more you use your MSG TURBO-AIR compressor.

CONTROL SYSTEMS
Ingersoll Rand can provide the right control system engineered for your applications.

MAESTROSuite of Controls
MAESTRO® Universal offers optimal protection and control for your compressed air system. The MAESTRO suite comes with a model that is sure to be in tune with your needs.

MAESTRO Universal
- Window CE-driven system includes a built-in web server and setup wizard for quick configuration.
- Able to handle multiple stages and designed for many makes and models of compressors.
- 10" color graphic display with trend and monitoring.
- Built-in USB port for system configuration and data logging.
- Capable of monitoring and controlling the total system across multiple units.

MAESTRO PLC
- Utilizes an Allen-Bradley CompactLogix platform with 16 digital inputs, 16 digital outputs, 16 analog inputs, 4 analog outputs and 12 PID inputs.
- Networking software available for automation of multiple units and total system automation.
- Optional stainless steel enclosure available.

ISO CERTIFIED CLASS ZERO
The MSG TURBO-AIR centrifugal compressor product line has been engineered to produce oil-free air for over 60 years. This certification officially acknowledges the ability of our compressors to produce 100% oil-free air, providing our customers with enhanced quality assurance.

FEATURES
• Over 1000 10" touchscreen
• Networking software available for automation of multiple units and total system automation
• Optional stainless steel enclosure available

Variable Inlet Guide Vanes
Variable inlet guide vanes can offer power savings of up to 9% when operating in turndown. Inlet guide vanes impact a whirling motion to the inlet air flow in the same direction as the impeller rotation, reducing the work input. Net power savings can be realized at reduced flow or on days colder than the design temperature. Inlet guide vanes are positioned close to the reduce of the impeller to maximize performance.

Note: Data and specifications are from the manufacturer's documentation and may be subject to change. Always consult the latest manufacturer's specifications for the most accurate information.
MSG® TURBO-AIR® High Pressure Centrifugal Compressors

EFFICIENT PACKAGE
MSG TURBO-AIR High Pressure centrifugal compressors utilize innovative three- and four-pinion designs to achieve discharge pressures up to 42 barg (610 psig). The ability to generate such high pressures makes these packages a great fit for applications like coal-blowing, nitrogen blanketing, and PET bottle blowing. These compact compressor packages include mounted control valves, a mounted intercooler, and the MAESTRO Universal compressor control system.

MSG TURBO-AIR 2040
Compressor Motor Sizes Available
375 to 500 kW (500 to 650 hp)
Compressor Discharge Pressure Ranges
Up to 42 barg (610 psig)
Compressor Flow Ranges
42 to 61 m³/min
(1500 to 2000 CFM)
Typical Package Weight* 8635 kg (19,000 lb) *driver dependent

MSG TURBO-AIR 6040
Compressor Motor Sizes Available
Up to 1700 kW (2250 hp)
Compressor Discharge Pressure Ranges
Up to 42 barg (610 psig)
Compressor Flow Ranges
127 to 167 m³/min
(420 to 590 CFM)
Typical Package Weight* 6350 kg (14,000 lb) *driver dependent

HIGH PRESSURE APPLICATIONS
MSG TURBO-AIR High Pressure centrifugal compressors provide reliability, low maintenance, and a low total cost of ownership for many high pressure applications.

Low Total Cost of Ownership
Over time, the energy required to power a compressed air system is the largest cost associated with a compressor; particularly in today’s fluctuating energy markets. That is why it accurately determines the return on your investment, it is important to consider the total life-cycle cost of operating the compressor, including the initial installation, energy consumption and maintenance costs. As the chart demonstrates, MSG TURBO-AIR compressors provide some of the lowest total life-cycle costs of any compressor, including dry screws, variable speed drive (VSD) screw and other centrifugal compressors. Compared to other machines of similar capacity, MSG TURBO-AIR compressors are some of the most efficient of all compressors at full load, part load and no load. The power savings delivered can significantly speed up the payback on your initial investment, and the savings continue to build the more you use your MSG TURBO-AIR compressor.

Control Systems
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MAESTRO Suite of Controls
MAESTRO control systems offer optimal protection and control for your compressed air system. The MAESTRO suite contains a model that is sure to be in tune with your needs.

MAESTRO Universal
- Windows CE-driven system includes a built-in web server and setup wizard for quick configuration.
- Able to handle multiple stages and designed for many makes and models of compressors.
- 10" color graphic display 600x800 SVGA monitoring.
- Built-in USB port for system configuration and data logging.
- Capable of monitoring and controlling the total system across multiple units.

MAESTRO PLC
- Utilizes an Allen-Bradley CompactLogix platform with 16 digital inputs, 16 digital outputs, 16 analog inputs, 4 analog outputs and 12 PID outputs.
- Comes standard with an Allen-Bradley PanelView Plus 1000 10" touchscreen.
- Networking software available for automation of multiple units and total system automation.
- Optional stainless steel enclosure available.

ISO CERTIFIED CLASS ZERO
The MSG TURBO-AIR centrifugal compressor product line has been engineered to produce oil-free air for over 60 years. This certification officially acknowledges the ability of our compressors to produce 100% oil-free air, providing our customers with enhanced quality assurance.

High Pressure Applications
MSG TURBO-AIR High Pressure centrifugal compressors provide reliability, low maintenance, and a low total cost of ownership for many high pressure applications.

Compressor Flow Ranges
Up to 42 barg (610 psig)
Compressor Discharge Pressure Ranges
Up to 1700 kW (2250 hp)

Low Total Cost of Ownership
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Variable Inlet Guide Vanes
Variable inlet guide vanes can offer power savings of up to 9% when operating in turndown. Inlet guide vanes permit a whirling motion to the inlet air flow in the same direction as the impeller operation, reducing the work input. Net power savings can be realized at reduced flow or on days colder than the design temperature. Inlet guide vanes are positioned close to the impeller to maximize performance.

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Class 6 Oil-Free Air
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Benefits of MSG TURBO-AIR Compressors

ISO 8573-1 CERTIFIED OIL-FREE AIR
- Prevents oil contamination of your system
- Limits the potential for compressed air pipeline fires caused by oil carryover
- Eliminates costly waste disposal problems associated with oil-laden condensate

SIMPLE INSTALLATION
- Complete package, including aftercooler, controls, motor and lubrication system
- Reduced number of external connections
- Compact design reduces required floor space
- Meets OSHA sound level requirements without sound enclosure

LOW-COST OPERATION
- True air cooling capability helps to take advantage of opportunities for energy saving
- Innovative radiator design reduces operating cycle costs
- Excellent part load efficiencies for any operating load
- No sliding or rubbing parts in the compression process causing wear or efficiency loss

EASY OPERATION
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- Intercooler and aftercooler bundles are easy to remove for inspection and cleaning
- Water in tube design intercooler and aftercooler allow for simple mechanical cleaning
- Maintenance free dry coupling

HIGH RELIABILITY
- Thrust loads absorbed at low speed
- Non-contacting air and oil seals
- Stainless steel compression elements
- Conservative, high quality gear design
- Extended life pinion bearing design
- Centrifugal compressors are proven to have a long mean time between failures (MTBF), and independent research has shown an industry-leading availability of 99.7%

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