

Custom Systems

Model 9484 Rack Mounted Air Compressor



08/2024

Applications:

- Air Compressor
- Industry (laboratory, workshop and production)
- Research and Development Laboratories
- End of Line Testing

Special Features:

- Gast Oil-Less Compressor
- Low Noise
- Automatic and Manual Control

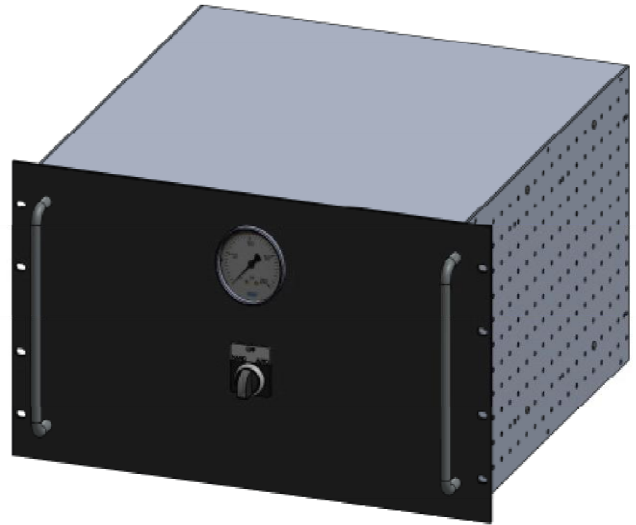
Description:

The Model 9484 Compressor System utilizes a Gast Oil-Less Air Compressor. The unit is mounted in an industry standard 19" rack mount chassis. A pressure gauge and HOA switch comes standard on the front panel. Automatic functionality is accessed through a two pin I/O port (MC 1.5/2-STF-3.81) on the rear. The rear panel includes manual drainage port.

Functionality:

The Model 9484 is commonly used as part of a larger rack mounted system to provide compressed air. It can also be used as a standalone unit where a reliable compressor is needed.

Model 9484



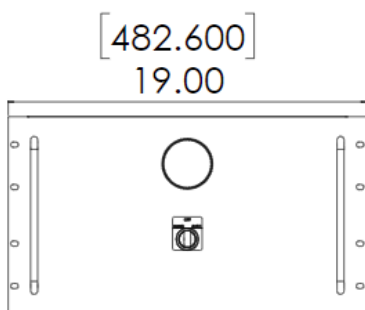
Specifications

Model 9484

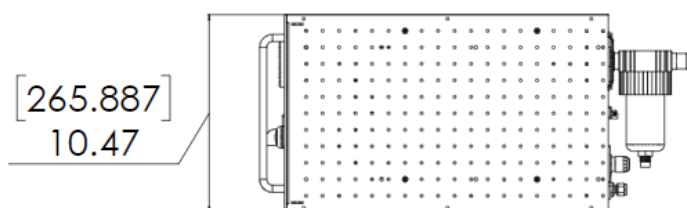
Basic Instrument- Model 9484

Peak Flow Rate:	
60 Hz:	1.64 cfm (2.79m ³ h)
50 Hz:	1.95cfm (3.31m ³ h)
Max Pressure:	150 psi (10.34 bar)
Ambient Operating Temperature:	5 to 40 ° C
Relative Humidity:	20%-80%
Supply Power:	100-120VAC/200-240VAC 50/60Hz
Noise Level:	<70 dB(A)
Fittings:	1/4" Stainless Tube
Dimensions:	L 19.51" [495.55mm] x W 19" [482.60mm] x H 10.47" [265.89mm]
Weight:	21.32 kg (47lb)

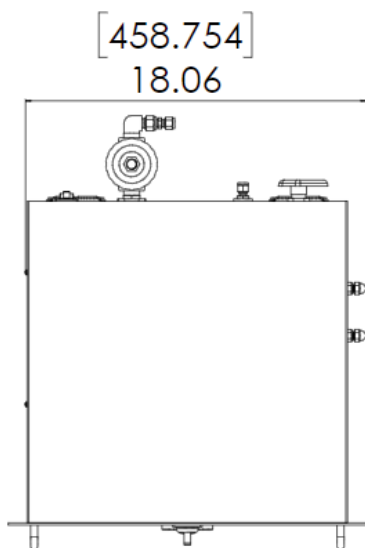
Dimensions: Inches [Millimeters]



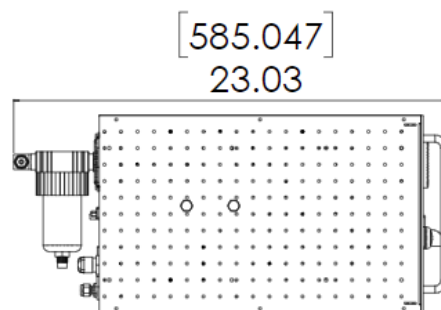
FRONT



RIGHT

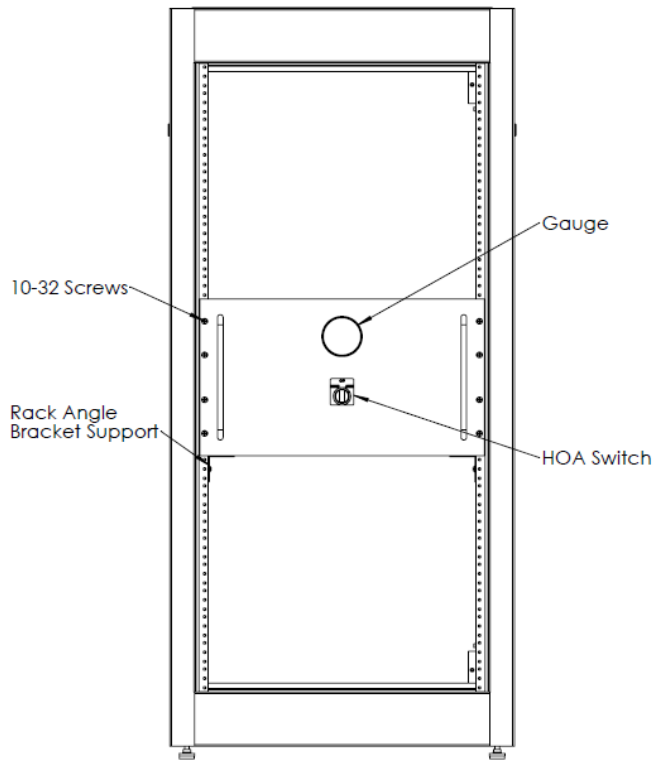


TOP

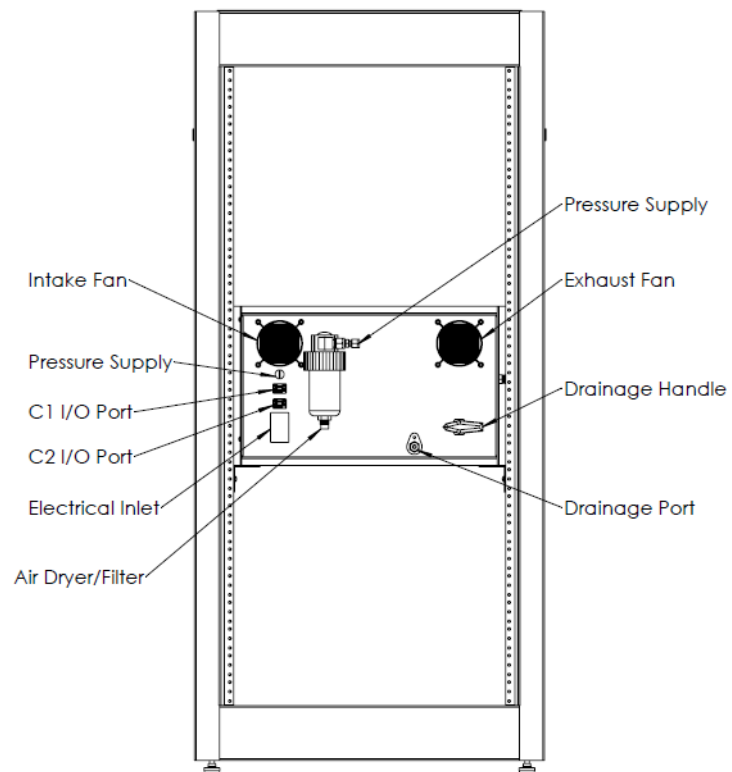


LEFT

Front Panel Features:



Rear Panel Features:



Theory of Operation:

As previously stated, the Model 9484 is a Rack Mounted Air Compressor. When operating, air is pulled from an internal port and is then compressed. This compressed air is pumped into a 120-150 PSI pressure switch. The pressure switch regulates the air pressure to keep it in the range of 120 PSI to 150 PSI. The compressed air is then fed into the external air dryer/filter supply port on the rear panel. There is an internal moisture trap that can be drained through the rear panel drainage valve. The supply pressure can be observed from the front-facing gauge.

There are additional functionality and safety features included. An internal check valve is used to prevent excessive pressure buildup on the pump. Two I/O points facilitate automatic operation, for more information refer to the section below.

This compressor implements two separate moisture traps. Both systems rely on gravity and in their current configuration require manual drainage. To drain the internal moisture trap, ensure that the system is not under pressure and then slowly turn the drainage valve counterclockwise. Any fluid within the internal tank will trickle out the drainage port on the rear panel. The secondary drainage system is the parker filter present on the rear panel. It is recommended to follow the filter's manufacturer drainage instructions ([Service_Particulate-Filters.pdf](#) ([parker.com](#))). Both moisture traps should be drained for every 8 hours of continuous operation. Depending on operating conditions the drainage interval may be shortened. It is also recommended to fully drain the system before transport or storage.

HOA Switch Operation:

Hand(H):

When the HOA switch is flipped to the Hand(H) state the machine will turn on. The machine will remain on until the state of the switch is changed. The pressure supply will cycle within the range of 120 PSI to 150 PSI.

Off(O):

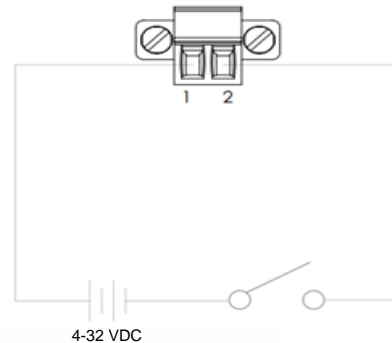
When the HOA switch is flipped to the Off(O) state the machine will turn off. An internal N.O. vent solenoid will relieve the system's pressure.

Automatic(A):

When the HOA switch is flipped to the Automatic (A) state the machine can be controlled by I/O input. Depending on the I/O input the machine will either turn on or off. When not in the Automatic(A) state all I/O input will be ignored.

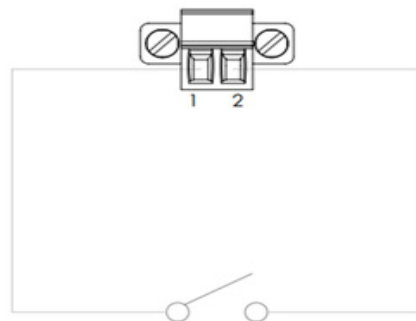
C1(I/O):

The C1 I/O port is intended to be used with an incoming DC signal within the range of 4–32 volts. A high signal will cause the machine to turn on and a low signal will cause it to turn off. This allows for automated computer control.



C2(I/O):

The C2 I/O port is intended to be used as a passive interrupt system. When there is a short between the C2's terminals the machine will turn on and when there is a disconnect the machine will turn off. This allows for the wiring of an external passive switch. Operating both C1 and C2 simultaneously is not advised.



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