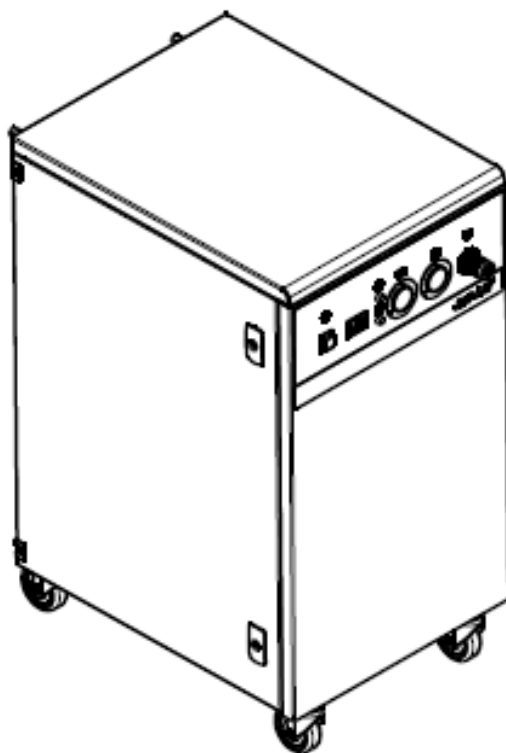


JUN-AIR[®]

Compressor

Model 2xOF302-25M



Operating Manual

6189652

Warranty

Provided that the Instructions for operation, maintenance and service have been carried out, your JUN-AIR compressor is guaranteed against faulty material or workmanship for 2 years.

The air receiver is guaranteed for 5 years.

The guarantee does not cover damage caused by violence, misuse, incorrect repairs or use of unoriginal spare parts.

Costs of transportation of parts/equipment are not covered by the guarantee.

JUN-AIR's Conditions for Sale and Delivery will generally apply.

JUN-AIR reserves the right to change technical specifications/constructions.

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Safety

Important – Read this first!

Please read the following information and operating instructions included with this product before use. This information is for your safety and it is important that you follow these instructions. It will also help prevent damage to the product. Failure to operate this unit in accordance with the instructions or using JUN-AIR unauthorized spare parts can cause damage to the unit and could cause serious injury.

CAUTION: To reduce risk of electric shock

- Only authorized service agents should carry out service. Removing parts or attempting repairs can create an electric shock. Refer all servicing to qualified service agents.
- If this unit is supplied with a three-pin plug, connect with a properly earthed outlet only.

WARNING: To reduce the risk of electrocution

- Do not use this unit with electrical voltages other than stated on the rating plate.
- Always unplug this unit immediately after use and store in a dry place.
- Do not use this product in or near liquid or where it can fall or be pulled into water or other liquids.
- Do not reach for this product if it has fallen into liquid. Unplug immediately.
- This unit is not weatherproof. Never operate outdoors in the rain or in a wet area.

DANGER: To reduce the risk of explosion or fire

- During spraying with combustible liquids risk of explosion may arise, particularly in closed rooms.
- Do not use this product in or near explosive atmospheres or where aerosol products are being used.
- Do not pump any other gasses other than atmospheric air.
- Do not pump combustible liquids or vapors with this product, or use in or near areas with combustible or explosive liquids or vapors.
- Do not use this unit near open flames.

CAUTION: To prevent injury

- Compressed air can be dangerous; do not direct airflow at a person's head or body.
- Always keep the compressor out of reach of children.
- Never operate this product if it has a damaged power lead or plug, if it has been dropped or damaged, or if it has fallen into water. Return the product to a service center for examination and repair.
- Keep the electrical cable away from hot surfaces or open flames.
- Ensure all openings are kept free of dust, dirt and other possible restrictions.
- Never leave this product unattended when plugged in.
- Never insert fingers or any other objects into fans.
- This unit is thermally protected and can automatically restart when the overload resets.
- Wear safety glasses when servicing this product.
- Use only in well-ventilated areas.
- This product may only be connected to units or tools with a max. pressure higher than or equal to that of the compressor.

- The surface of the compressor can get hot. Do not touch the compressor during operation.

Failure to observe the above safety precautions could result in severe bodily injury, including death in extreme cases.

IMPORTANT – General directions for use

- Protect the compressor against rain, moisture, frost and dust.
- The compressor is constructed and approved for a max pressure as stated under Technical Specifications.
- Do not operate a compressor at ambient temperatures exceeding 40°C/104°F or falling below 0°C/32°F.
- If any of the electrical leads on the compressor are defective, an authorized JUN-AIR distributor or other qualified personnel must carry out the repair.

Installation

Your JUN-AIR compressor is very easy to operate. Observe the following simple instructions and you will get many years of service from your compressor.

Your new compressor should be delivered in a clean and undamaged box. If not, contact your distributor immediately.

Use only pressure pipes and air connections with a sufficient internal diameter to avoid pressure loss in the system.

Sufficient cooling from surroundings is important. Do not install in a closed area unless adequate openings for ventilation are available on top and bottom (minimum 500 cm²/77.5 in² each).

The rear surface of the unit should be provided with at least 10 cm/4 in of clearance for proper

ventilation within the compressor enclosure. Failure to provide adequate clearance will reduce the life of the compressor.

Operation

- If the compressor has been stored at an extremely low temperature, allow it to heat to room temperature before switching it on.
- Shut the regulator by rotating the knob counter-clockwise until it stops.
- Ensure the pressure switch is in the 'on' position.
- Ensure the power switch on the front of the unit is in the 'off' position.
- Plug the unit in, and turn the power switch to the 'on' position to start the compressor.
- The compressor will automatically stop when the preset cut-out pressure is reached.

If the compressor does not start, there might be pressure in the receiver. Open the regulator to relieve this pressure. The compressor will start when the pressure drops sufficiently.

- The cut-in and cut-out pressure is preset from the factory and it is normally not necessary to change this setting. However, if it is necessary to change the pressure settings, the instructions from this manual should be followed carefully.
- All AC compressors are designed for 100% duty but 50% operation is recommendable to prolong the life of the system.
- Do not remove the protective covers during operation as it may cause electric shock or other serious personal injury.
- This is an oil-less compressor. Do not lubricate this unit with oil as it will destroy important components.

Maintenance

To ensure a long lifetime of the compressor, it is important that inspection and maintenance is carried out regularly as described below. Never perform maintenance on a unit that is pressurized or plugged in.

	Activity	Weekly	Monthly	Annually or every 2000h
a	Check Filter		•	
b	Check for Leaks		•	
c	Clean the Unit		•	
d	Check Safety Valve			•
e	Check Inlet Filters			•

a) Check Filter

Remove the filter bowl by unscrewing it from the housing and check that the filter element is clean and undamaged. If the element is dirty it can reduce the performance of your system and should be replaced. To replace the element, unscrew it from the housing.

b) Check for Leaks

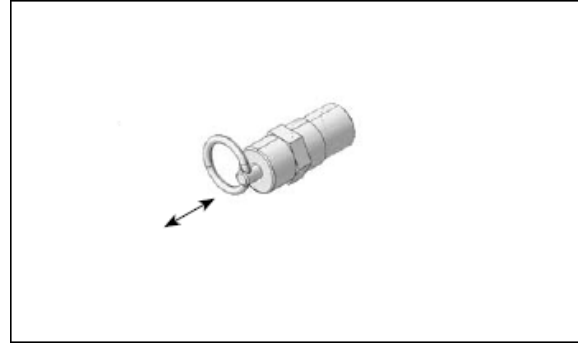
Check motor, hoses and equipment for leaks. Check the pump-up time and ensure that it is correct.

c) Clean the Unit

Clean the unit when needed with a soft, damp cloth. If necessary, use paraffin to remove adhesions. Dust and dirt prevent proper cooling, and a well-cleaned unit will stay cooler and last longer.

d) Check Safety Valve

Pull the ring on the safety valve to ensure it moves freely. If there is pressure in the tank this will cause it to purge through the valve. If the pressure in the tank is high, the valve may not close immediately.



e) Check Inlet Filters

The inlet filters are located on the top of the compressor. Excessive dirt will reduce compressor performance.



Please note that all service must be carried out by a qualified person.

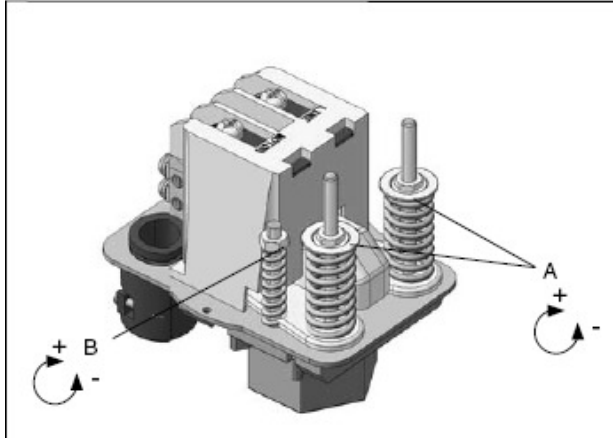
Adjustment of Pressure Switch

The working pressure has been preset at the factory, and it is normally not necessary to change this. However, if it is necessary to change the pressure settings, the instructions below should be followed carefully.



The compressor is constructed and approved for a max. pressure as stated under Technical Specifications – do not adjust to a higher pressure. Higher working pressure will reduce the lifetime of the compressor, system components, and could result in injury.

The compressor will stop at max. pressure (stop pressure) and start again at min. pressure (start pressure). The difference between max. and min. pressure is the differential pressure.



Unscrew the lid of the pressure switch. Adjust max. pressure by turning the two springs marked 'A' clockwise for higher pressure or counter-clockwise for lower pressure. Adjust the differential pressure by turning the spring marked 'B' clockwise for a higher differential (lower start pressure), or counter-clockwise for a lower differential (higher start pressure).

Test of Pumping Time

The pump-up time indicates the condition of the compressor. A slow pump-up is an indicator of dirty inlet filters, leakage, or other problems with the system.

1. Empty the air receiver of compressed air so that the gauges read 0 psi.
2. Close the regulator and check that the drain valve is closed.
3. Start the compressor and note the time it takes until it is turned off by the pressure switch. Refer to the Technical Specifications for proper pumping time.

Important! Always test the pumping time when the compressor is cold. If the compressor is warm, the pumping time will be considerably longer.

Troubleshooting

Important

Switch off and isolate from electrical supply before removing any parts from the pump. Empty air receiver of air before performing any operation on the compressor's pressure system.

1. Compressor does not start
 - a. The air receiver is pressurized. The motor will start when the pressure has dropped to the preset start pressure. Empty the Receiver.
 - b. The motor is overheated and the thermal protection has switched it off. When cooled the motor will turn on automatically.
 - c. The compressor has not been unloaded and there is back pressure in the pistons. Ensure that the compressor is unloaded through the drain line each time it stops.
 - d. The motor is blocked.
 - e. Defective capacitor.
 - f. Check that the power supply agrees with the motor label.
 - g. No power from supply. Check fuses and plug.
 - h. Bad connection or broken cable.
2. The compressor makes a buzzing sound but does not start
 - a. Leaky non-return valve. Dismount the pressure pipe and check if air leaks from the non-return valve. Clean or replace as needed.
 - b. The compressor has not been unloaded and there is back pressure in the pistons. Ensure that the compressor is unloaded through the drain line each time it stops.
 - c. The motor is blocked.

- d. Defective capacitor.
3. The compressor runs but the pressure does not increase, or pressure increases slowly
 - a. A valve is open. Check to ensure that no air is coming from the drain line, and that the regulator is closed.
 - b. Intake filter is clogged. Replace.
 - c. Outlet filter is clogged. Replace.
 - d. Non-return valve is clogged, clean or replace.
 - e. Drain solenoid has failed. Check to make sure air is not purging from the drain line.
 - f. Leaks in the system. Check with soapy water or other leak detection device, or leave the system to sit with the switch in the 'off' position and monitor pressure drop. Pressure drop should not exceed 1 bar in 24 hours.
 - g. Check the piston gaskets. Replace if necessary.
 - h. Defective valve plate. Contact your JUN-AIR distributor.
 4. The motor gets very hot
 - a. The ambient temperature is too high. If the unit is installed in an enclosure, ensure sufficient ventilation per the Installation Instructions.
 - b. The cooling fans are not running. Check to ensure that the three cooling fans are running. They are controlled by a thermostat, and may not start until the enclosure has heated sufficiently.
 - c. Dirt or debris is obstructing air flow. Check to be sure all openings under the enclosure allow free air flow to cool the compressor.
 5. The compressor runs even if no air is tapped
 - a. Leaks in the system. Check with soapy water or other leak detection device, or leave the system to sit with the switch in the 'off' position and monitor pressure drop. Pressure drop should not exceed 1 bar in 24 hours.
 - b. Check valve has failed. Replace.
 6. The compressor does not start at min pressure or does not stop at max pressure
 - a. Defective pressure switch. Replace.
 - b. Check that power switches are in the 'on' position.
 7. There is water in the air line
 - a. The air entering the dryer is too hot. Check to ensure the fan cooling the radiator inside the cabinet is running, and that the radiator is clean and free of dust.
 - b. The filter element is allowing liquid through. Replace.
 - c. One of the air prep systems is installed backwards. Check to ensure the arrows on the filter and dryer point in the direction of flow, from compressor to tank.

Pressure Vessel

ASME code (UM) Sec. VIII, Div. 1

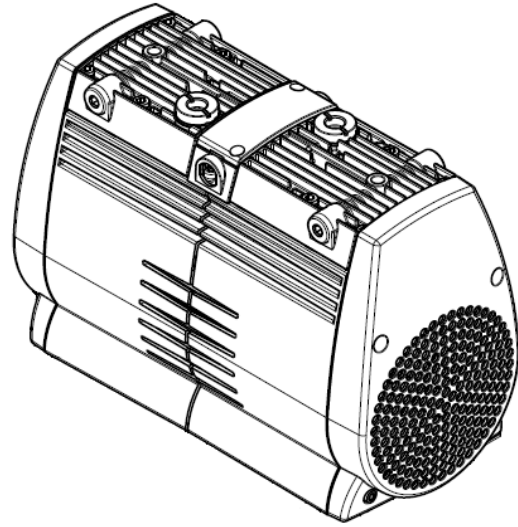
25L (12 gal), rated for 12.0 bar (177 psi).

A copy of the Declaration of Conformity is available upon request.

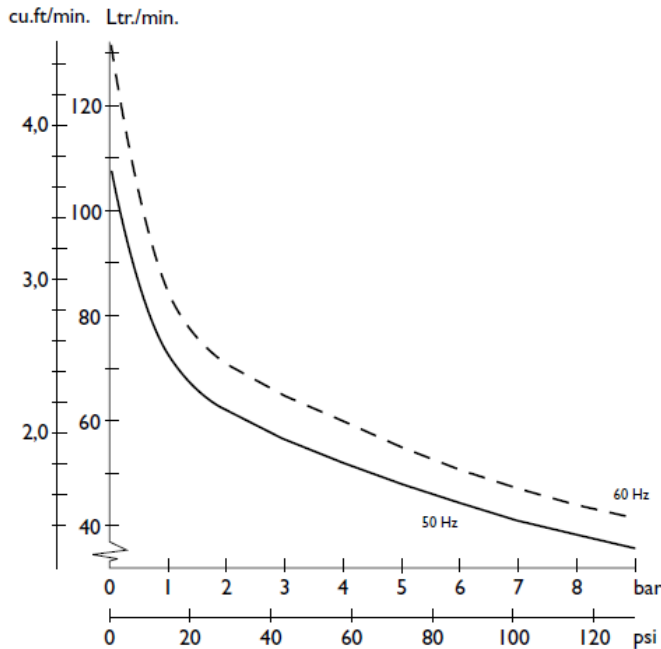
Technical Specifications

This system is equipped with a JUN-AIR OF302 Compressor.

Model	OF302		
Voltage	V	230	230
Frequency	Hz	50	60
Power	HP	0.6	0.6
	W	0.44	0.44
Displacement	l/min	108	138
	CFM	3.81	4.87
Flow @ 8 bar	l/min	38	44
	CFM	1.34	1.55
Max Pressure	Bar	8.0	8.0
	psi	120	120
Max Current	A	3.4	4.1



This motor is thermally protected and capable of 100% duty cycle.

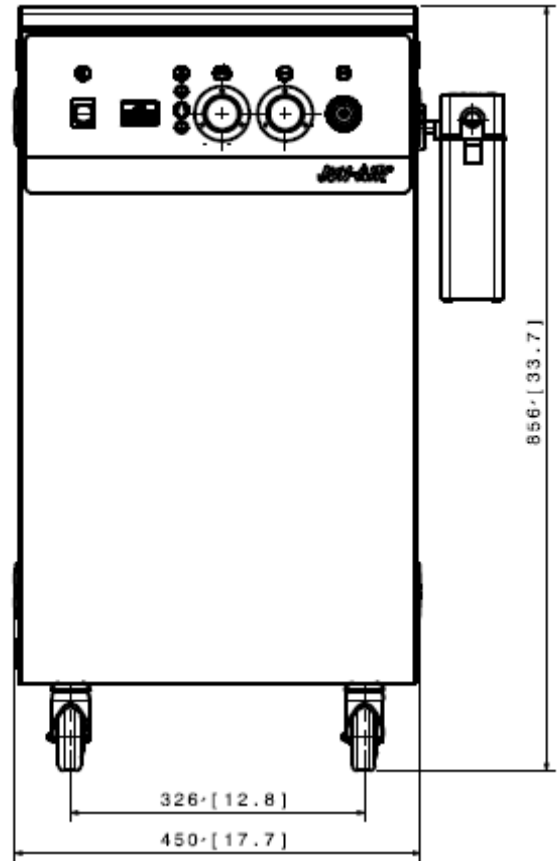
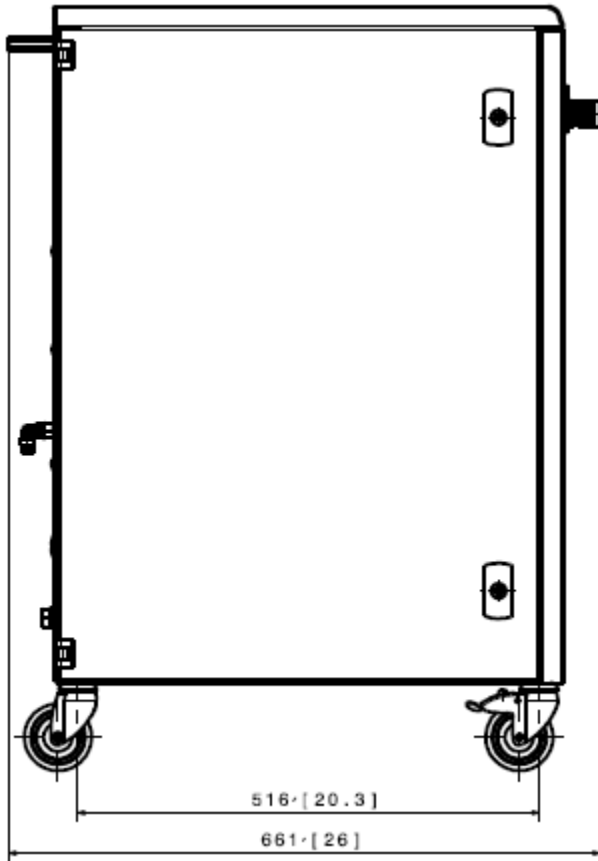
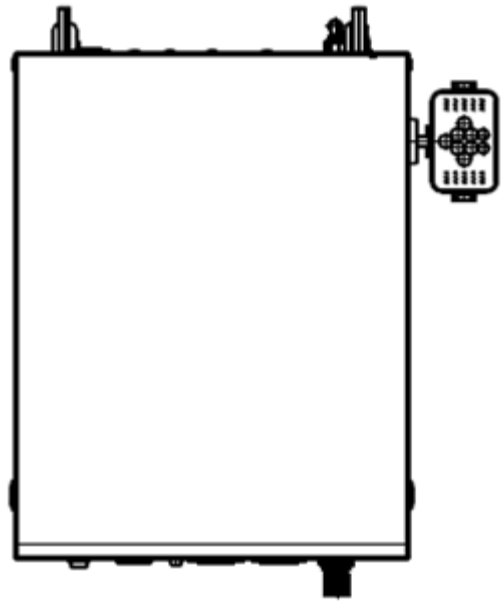


JUN-AIR®

Email: technical.junair@idexcorp.com

Internet: www.jun-air.com

Model	2xOF302-25M		
Voltage	V	230	230
Frequency	Hz	60	50
Power	HP	1.2	
	W	0.88	
Tank Size	L	25	
	gal	6.6	
Weight	kg	92	
	lb	202	
Dimensions	mm	720 x 460 x 860	
	in	28 x 18 x 34	
Pumping Time	sec.	1:15	1:30
Noise Level	dB(A)	50	



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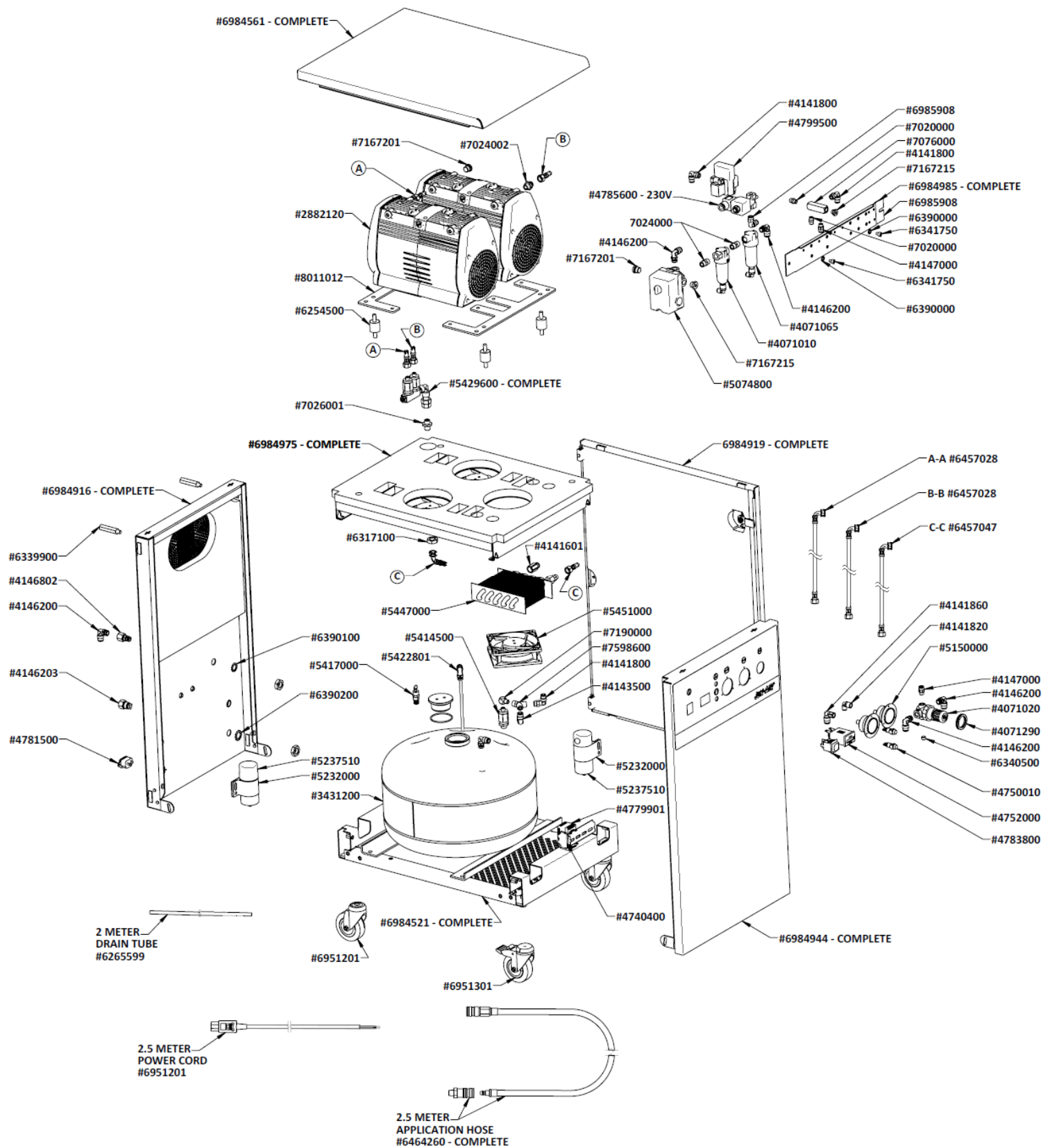
Internet: www.jun-air.com

Replacement Parts

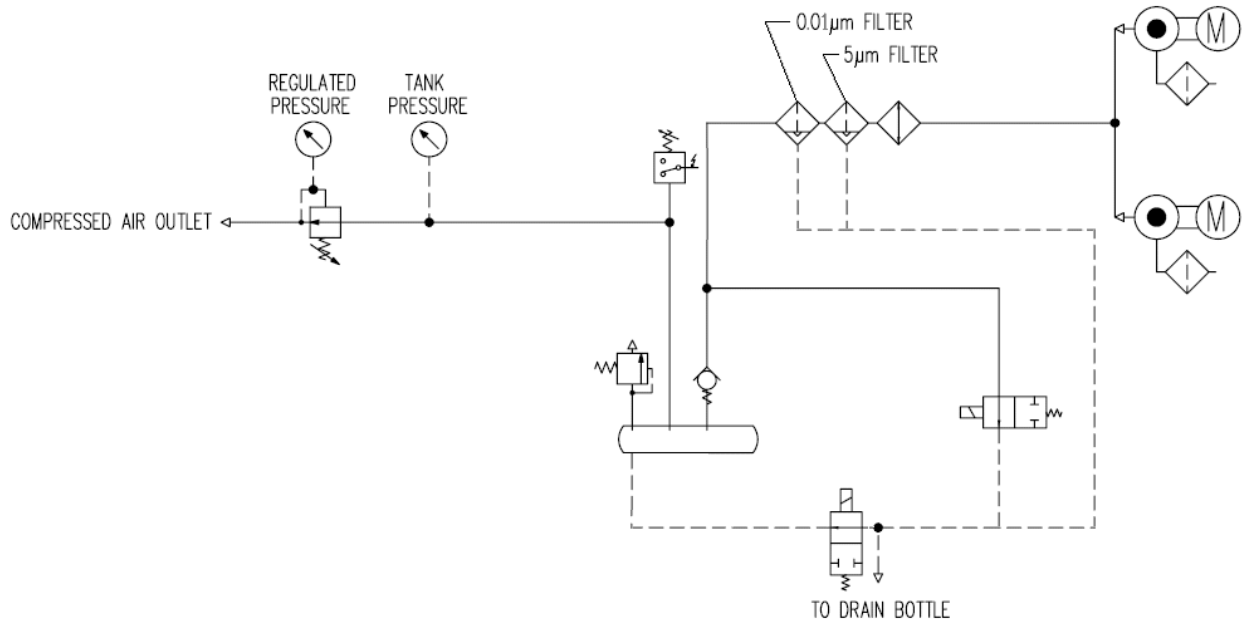
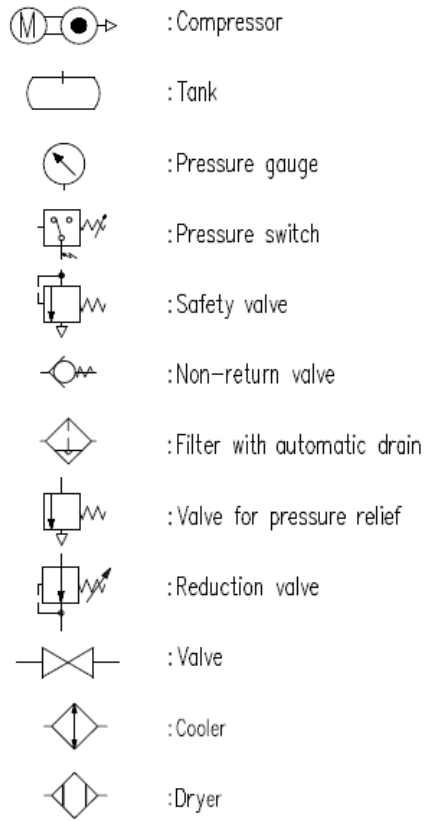
2882120	Compressor OF302 230V/50-60Hz
3431200	Tank - 25L
4071010	Filter 5u w/ automatic drain
4071020	Regulator, 10 Bar
4071064	Filter 0,01u w/ automatic drain
4071210	5um Filter Kit
4071240	0.01um Filter Kit
4071290	Panel Ring for Regulator
4141601	Rapid fitting 1/4" internal x 8mm
4141800	Rapid Fitting Elbow 1/8" x 6mm
4141820	Rapid Fitting Elbow 1/8" int x 6mm
4141860	Rapid Fitting Elbow 1/8" int x 8mm
4143400	8mm Tube Wye Rapid Fitting
4143500	Rapid Fitting Elbow 1/8" x 8mm
4146200	Rapid Fitting Elbow 1/4" x 8mm
4146203	Rapid Fitting 1/4"x 8mm
4146400	Rapid Fitting Wye 6mm
4146802	Rapid Fitting 1/4" x 6mm
4147000	Rapid Fitting 1/8" x 6mm
4736600	Power Supply Cord - 2.5m
4740400	Electrical Terminal
4750010	LED Indicator 230 V
4752000	Hour Meter 230V
4779901	Thermostat
4781500	IEC Connector - 230V / 10A
4783800	Power Switch
4785600	Solenoid Unloader Valve 230V
5074800	Pressure Switch
5150000	Gauge 0-16 Bar
5232000	Capacitor Strap
5237510	Capacitor, OF302 230V
5414500	Non-Return Valve
5417000	Safety Valve 9 bar/135 psi
5422801	Drain Tube for 25L Tank
5429600	Branch Pipe 2xOF302M(D)
5447000	Radiator
5451000	120mm Fan 230V
5470500	OF302 Valve Plate Kit
5499800	OF302 Piston/Cup Seal Kit
5612306	Drain Bottle Kit
6073160	Electrical Drawing
6081216	Air Drawing

6189652	Operating Manual - 2xOF302-25MA
6190450	Operating Manual 5um Filter
6190460	Operating Manual 0.01um Filter
6190465	Operating Manual Regulator
6254500	Vibration Damper
6264700	Nylon Tube 8mm (Specify Length)
6264900	Nylon Tube 6mm (Specify Length)
6320000	M8 Nut for Vibration Damper
6340500	1/8 Pipe Plug
6341750	M6 x 8 Bolt
6390000	M6 Star Washer
6390100	AM-14 Lock Washer
6390200	AM-16 Lock Washer
6457028	Braided Steel Hose 1/4" 28 cm
6457047	Braided Steel Hose 1/4" 47 cm
6951201	Caster
6951301	Caster w/ Brake
6984521	Bottom Panel Complete
6984561	Top Cover Complete
6984916	Back Panel Complete
6984919	Door Complete
6984944	Front Panel Complete
6984975	Mounting Plate Complete
6984985	Mounting Bracket Complete
6985908	Mounting Bracket
7020000	Double Nipple 1/8"
7024000	Double Nipple 1/4"
7024002	Double Nipple 1/4" w/ o-ring
7026001	Bushing Nipple 1/4"
7076000	4-Way Manifold
7167102	1/8" Plug
7167201	1/4" Plug
7190000	Elbow 1/8"
7598600	Wye Connection 1/8"
8011012	Bracket for 2xOF302
4799500	Timed Auto-Drain for Tank












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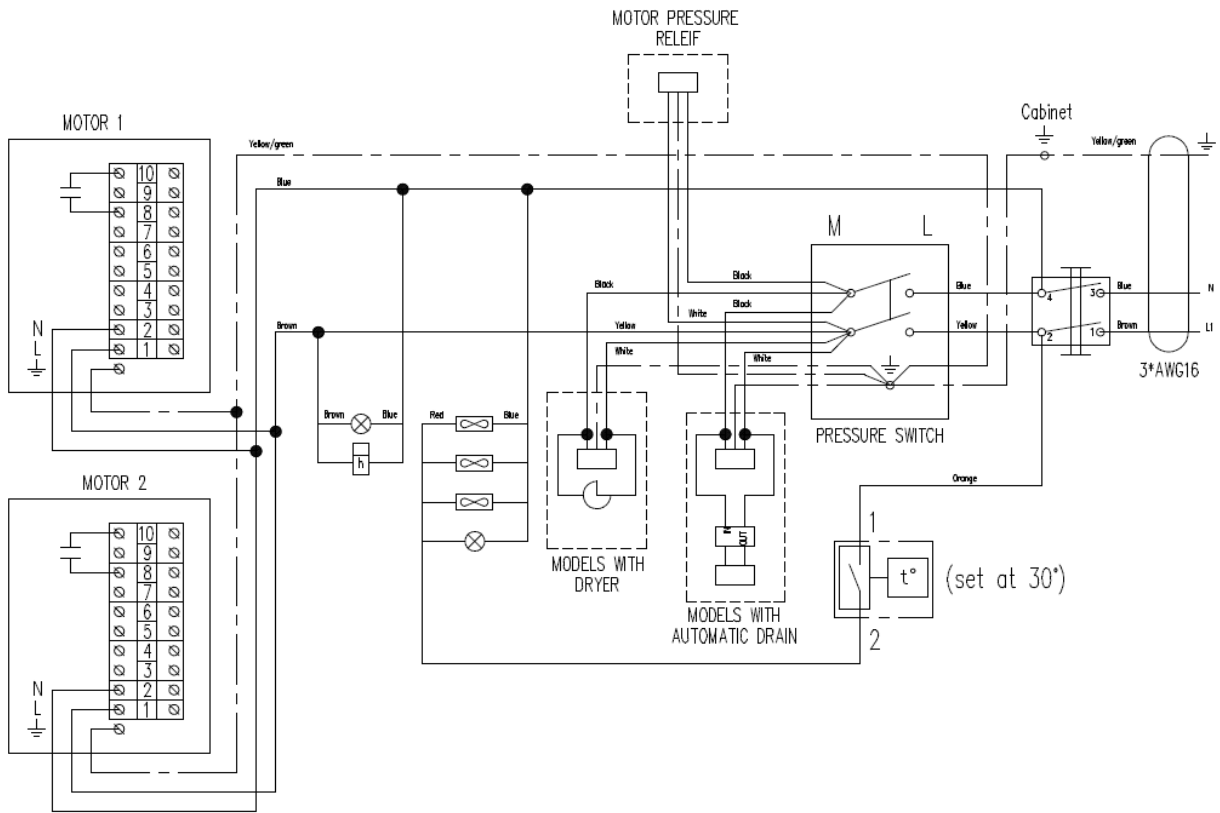


Air Drawing



Electrical Drawing

-  :Earth
-  :Terminal clip
-  :Capacitor
-  :Lamp 120V/230V
-  :Auto drain timer
-  :Solenoid valve
-  :Cable connection
-  :Cam timer/cam disc 120V/230V
-  :Hourcounter 120V/230V-0.03A
-  :Fan 120V-0.25A/230V-0.2A-33W
-  :Adjustable thermo switch
- :Extra features



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