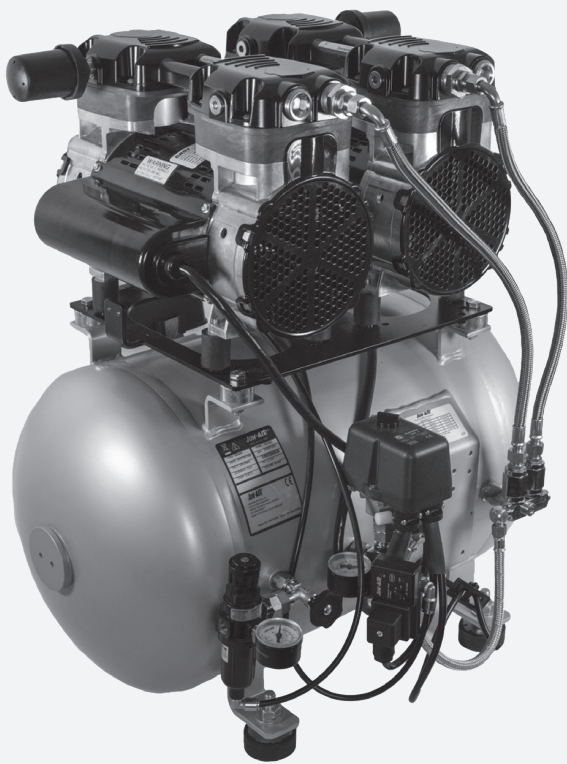




Operation and Maintenance Manual

106R Basic Systems

106R-8B, 106R-25B, 106R-25HBSS,
106R-25BQ2, 2x106R-40B

Jun-Air®
powered by **gast**



Additional Languages.



Declaration of Conformity.

gastmfg.com

Dear Customer,

Congratulations on the purchase of your new Jun-Air® air compressor system. It is intended to be used in various commercial and industrial applications where compressed air is needed.

 WARNING



PLEASE READ THIS MANUAL COMPLETELY BEFORE INSTALLING AND USING THIS PRODUCT. SAVE THIS MANUAL FOR FUTURE REFERENCE AND KEEP IN THE VICINITY OF THE PRODUCT.

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SAFETY

Please note that pictures and figures referenced in the text can be found throughout the manual.

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 the 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 grounded outlet only.

WARNING: To reduce 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.

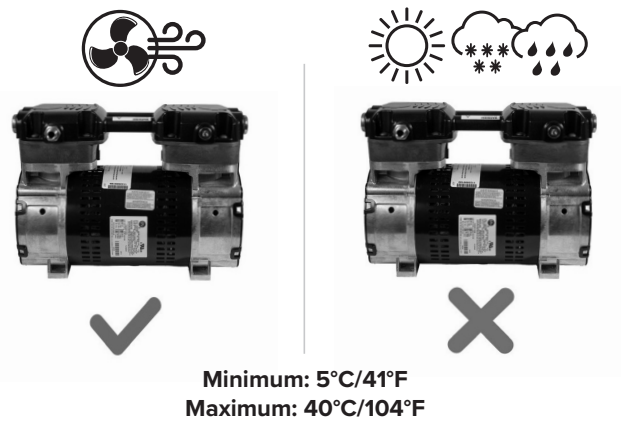
DANGER: To reduce risk of explosion or fire

- 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 gases other than atmospheric air.
- Do not pump combustible liquids or vapors with this product; do not use it 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 system 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.
- Ensure all openings are kept free of restriction and never restart when the unit cools and the overload resets. Never place the system on a soft surface where the openings may be blocked. Keep all openings free from dust, dirt and other particles.
- 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 maximum pressure rating higher or equal to that of the compressor.
- The surface of the compressor can get hot. Do not touch compressor motor during operation.

Failure to observe these safety precautions could result in serious injury or, in extreme cases, death.



IMPORTANT: General directions for use

- Protect the system against rain, moisture, frost and dust.
- The compressor is constructed and approved for a maximum pressure as stated under Technical Data and Specifications.
- Do not operate the compressor at ambient temperatures exceeding 40°C/104°F or falling below 5°C/41°F.
- If the supply power lead on the compressor is defective, an authorized Jun-Air® distributor or other qualified personnel must carry out the repair.

INSTALLATION

Your Jun-Air® system is easy to operate. Follow the instructions and you will get many years of service from your compressor.

- Visually inspect unit for shipping damage, contact your supplier immediately if you think the unit may have been damaged.
- Check that the performance of the compressor matches the actual air consumption, please refer to the Technical Data and Specifications section.
- Check that the rating plate of the compressor corresponds with the electrical voltage offered and check that fusing is adequate.

Unpacking

1. Cut the banding strap from the carton and remove the lid and cardboard inserts.
2. Visually inspect the entire system for shipping damage and verify that the accessories have been included.
 - a. If the contents were damaged during shipping, contact the freight carrier to file a claim.
 - b. If parts are missing, contact the supplier.
3. Use caution when removing the system from the remaining packaging. Retain the packaging material for future use, if necessary.

Placing

Place the compressor in a dust-free, dry and cool, yet frost-free room. Sufficient cooling from the surroundings is important.

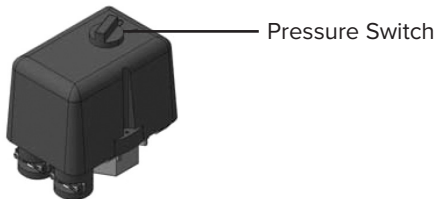
- Ambient temperature: 5°C to 40°C, 41°F to 104°F
- Relative humidity: Max 90%

Transportation and Storage Conditions:

- Temperature: -25°C (-13°F) to 55°C (131°F)
- Relative humidity: Maximum of 90%
- Keep the system dry at all times.
- Do not stack units during shipment, installation, or usage.

OPERATION

- If the compressor has been stored at an extremely low temperature, allow it to heat to room temperature before switching it on.
- If the compressor is supplied with a receiver, connect equipment and open the filter regulator on the receiver.
- Turn on the compressor on the pressure switch.



- 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. The compressor will automatically start when the pressure drops.
- The cut-in and cut-out pressure is preset from the factory and it is normally not necessary to change this. However, if it is necessary to change the preset settings, the instructions of this manual shall be followed carefully.
- All AC compressors are designed for 100% duty but 50% operation is recommendable to prolong the lifetime.
- Do not remove the protection covers during operation as it may cause electric shock or other personal injury.
- Do not lubricate the oil-less motor with oil, as it will destroy important components.
- Unit must be on level surface to ensure stability during use, transport, assembly, and servicing.

MAINTENANCE

To ensure a long lifetime of the compressor, it is important that inspection and maintenance is carried out regularly as described in the following.

Preventative Maintenance

	Activity	Weekly	Monthly	Once a year, or every 2,000 hours
a	Drain condensate	•		
b	Check filter regulator	•		
c	Check for leaks		•	
d	Clean the unit		•	
e	Check safety valve			•
f	Check inlet filter			•
g	Check non-return valve			•

a) Drain condensate

Drain condensate by opening the drain cock on the receiver.

If mounted with auto drain, condensate will be drained automatically. If drain bottle is installed, empty when necessary.

b) Check outlet filter

If a filter regulator is installed, check weekly and drain for condensate by pressing the button at the bottom.

If auto drain is installed, the filter will be emptied automatically.

Check and change the filter and filter element in accordance with the instructions in the table above.

c) Check for leaks

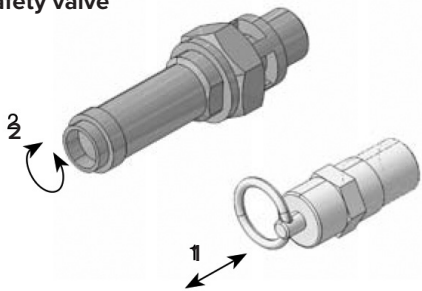
Check motor, hoses and equipment for leaks.

Check the pumping time.

d) Clean the unit

Clean the unit when needed with a soft, damp cloth. If necessary, use paraffin to remove adhesions. Dust and dirt prevent cooling.

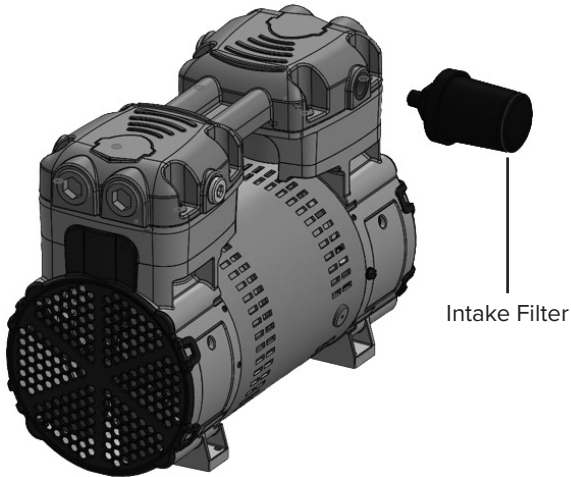
e) Check safety valve



Check the safety valve with pressure in the receiver. The safety valve is operated by pulling the ring (1) or turning the screw (2) depending on the valve type.

f) Check intake filter

Check the intake filter and change it if necessary.



Remove the filter and replace.

g) Check the non-return valve

Turn off the compressor on the mains switch and pull out the plug.

Empty the receiver for compressed air by operating the safety valve. When the receiver is empty, the reading of the pressure gauge is 0 bar.

Dismount the non-return valve from the receiver.



Disassemble the non-return valve and remove the o-ring (1) from the piston.

Clean the non-return valve.

Mount a new o-ring and re-assemble the non-return valve.

Re-install the non-return valve.

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

MAINTENANCE

Adjustment of Pressure Switch

The working pressure has been preset from the factory, and it is normally not necessary to change this.

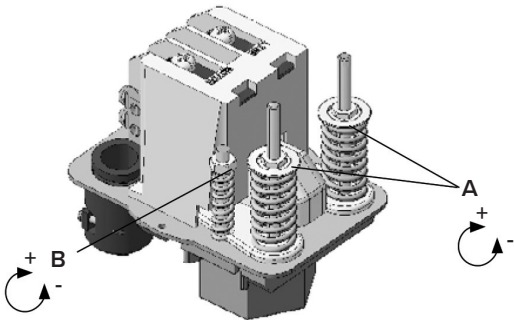
However, if it is necessary to change the preset settings, the instructions mentioned below should be followed carefully.

⚠ WARNING:

The compressor is constructed and approved for a maximum pressure as stated under Technical Data and Specifications - do not adjust to a higher pressure.

Higher working pressure will reduce the lifetime of the compressor.

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



Unscrew the lid of the pressure switch. Adjust maximum pressure by adjusting the two springs marked A (clockwise: higher pressure). Adjust the two springs identically.

Adjust the differential pressure by adjusting the spring marked B (clockwise: higher differential pressure, start pressure maintained).

Test of Pumping Time

- The pumping time indicates the condition of the compressor.
1. Check that there are no leaks in the system.
 2. Empty the air receiver of compressed air so that the pressure gauge shows 0 bar.
 3. Close the filter regulator and check that the drain valve is closed.
 4. Start the compressor and note the time it takes until it is turned off again by the pressure switch. Check that the pumping time agrees with the technical specifications for the actual compressor system.

Pump up times change if measuring other than from 0 psi to maximum pressure.

⚠ IMPORTANT:

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

FAULT FINDING AND REPAIR



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 COMPRESSORS' 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. Check that the mains supply agrees with the motor label.
 - c. No power from mains. Check fuses and plug.
 - d. Bad connection or broken cable.
 - e. The motor is overheated and the thermal protection has switched it off. When cooled the motor will turn on automatically. Go to section 4.
 - f. The compressor has not been unloaded and there is back pressure on the piston. Ensure that the compressor is unloaded each time it stops.
 - g. The motor is blocked.
 - h. Defective capacitor.
- 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 and replace.
 - b. The motor is blocked.
- 3. The compressor runs but the pressure does not increase**

 - a. Intake filter clogged. Replace.
 - b. Non-return valve is clogged. Clean or replace.
 - c. Leaks in fittings, tubes or pneumatic equipment. Check with soapy water or by letting unit stay overnight disconnected from mains. Pressure drop should not exceed 1 bar.
 - d. Check the piston gaskets. Replace if necessary.
 - e. Defective valve plate. Contact your Jun-Air® distributor.
- 4. The motor gets very hot**

 - a. The ambient temperature is too high. If the motor is installed in a cabinet, sufficient ventilation must be ensured.

- b. Leaks in fittings, tubes or pneumatic equipment. Check with soapy water or by letting unit stay overnight disconnected from mains. Pressure drop should not exceed 1 bar.
 - c. The compressor is overloaded.
- 5. The compressor runs even if no air is tapped**

 - a. Leaks in fittings, tubes or pneumatic equipment. Check with soapy water or by letting unit stay overnight disconnected from mains. Pressure drop should not exceed 1 bar.
- 6. The compressor does not start at minimum pressure or does not stop at maximum pressure**

 - a. Defective pressure switch. Replace.

PRESSURE VESSEL	
Pressure tested at	14-25 liter 24 bar 40-50 liter 18.3 bar
Directions for use	
Application	Receiver for compressed air
Receiver specifications	See name plate
Installation	Tubes, etc. must be installed with suitable materials
Placement	Observe the working temperature of the receiver
	Ensure sufficient room for inspection and maintenance
Corrosion protection	The receiver must be kept in a horizontal position
	The surface treatment must be maintained as required
	Internal inspection at least every five years
Alternation/repair	Drain condensate at least once a week
	No welding must be made on pressurized parts
Safety valve	Ensures that PS will not be exceeded
	Never adjust to a higher pressure than PS
	The capacity of the valve must be calculated in accordance with the volume of air supplied by the compressor
	PS - Maximum working pressure of the receiver

TECHNICAL DATA AND SPECIFICATIONS

Specifications		106R-8B	106R-25HBSS	106R-25B		106R-25BQ2	2x106R-40B	
Electrical rating	volts	230 V	230 V	120 V	230 V	230 V	120 V	230 V
Tank size	liter	8	25				40	
	U.S. gallon	2.1	6.6				10.6	
Weight	kg	21	24	36	34	48	52	51
	lbs	46	52	80	76	106	115	113
Dimensions (w x h x d)	mm	58.2 × 40.6 × 22.7	56.6 × 59 × 25.4	38 × 66.5 × 38		56.6 × 64 × 52	55.5 × 63.1 × 52.8	
	in	22.9 × 16 × 8.9	22.3 × 23.2 × 10	15.0 × 26.2 × 15.0		22.3 × 25.2 × 20.5	21.9 × 24.8 × 20.8	
Continuous System Output Flow @ 8 bar (116 psi) ¹	LPM	53.8 @ 50 Hz 65.1 @ 60 Hz	53.8 @ 50 Hz 61.7 @ 60 Hz	51	39.6 @ 50 Hz 47.3 @ 60 Hz	39.6 @ 50 Hz 47.3 @ 60 Hz	93.5	78.7 @ 50 Hz 94.5 @ 60 Hz
	CFM	1.9 @ 50 Hz 2.3 @ 60 Hz	1.9 @ 50 Hz 2.2 @ 60 Hz	1.8	1.4 @ 50 Hz 1.7 @ 60 Hz	1.4 @ 50 Hz 1.7 @ 60 Hz	3.3	2.8 @ 50 Hz 3.3 @ 60 Hz
Cut-in Pressure	bar	4		6				
	psi	58		87				
Cut-out Pressure	bar	6		8				
	psi	87		116				
Maximum Operational Pressure ²	bar	6		10				
	psi	87		145				
Air Filtration	µm	5						
Safety Relief Valve Pressure	bar	8		11				
	psi	116		160				
Sound Level	dB(A)	58 to 64 @ 50 Hz 60 to 66 @ 60 Hz	49 to 57 @ 50 Hz 49 to 58 @ 60Hz	60 to 69	60 to 68 @ 50 Hz 60 to 68 @ 60 Hz	60 to 66 @ 50 Hz 60 to 68 @ 60 Hz	69 to 72.3	68 to 72 @ 50 Hz 69 to 74 @ 60 Hz
	(sones)	13 to 18 @ 50 Hz 14 to 21 @ 60 Hz	7 to 11 @ 50 Hz 7 to 11 @ 60 Hz	14 to 23	14 to 22 @ 50 Hz 14 to 23 @ 60 Hz	14 to 21 @ 50 Hz 16 to 24 @ 60 Hz	22 to 29	21 to 26 @ 50 Hz 22 to 29 @ 60 Hz
Operating Temperature	°C	5 to 40						
	°F	41 to 104						
Operating Relative Humidity	%	20 to 80						
Pump Up-Time (0 to cut out) at operating temperature ³	mm:ss	0:39 @ 50 Hz 0:32 @ 60 Hz	02:00 @ 50 Hz 01:41 @ 60 Hz	02:20	02:58 @ 50 Hz 02:20 @ 60 Hz	03:40 @ 50 Hz 02:41 @ 60 Hz	1:50	02:12 @ 50 Hz 01:50 @ 60 Hz

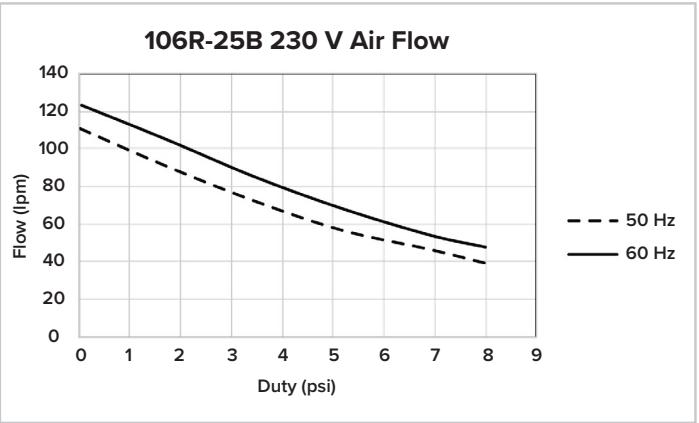
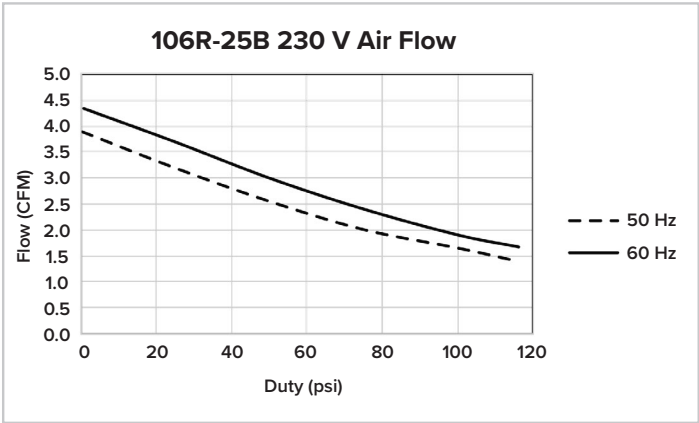
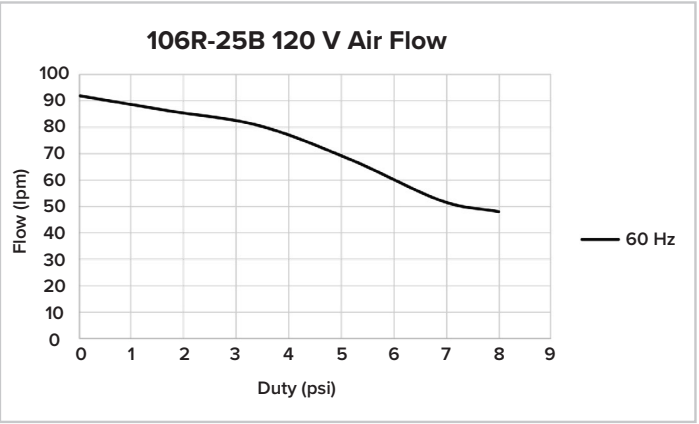
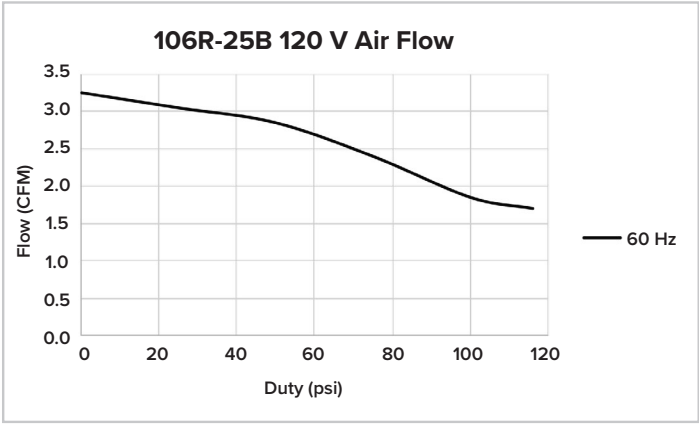
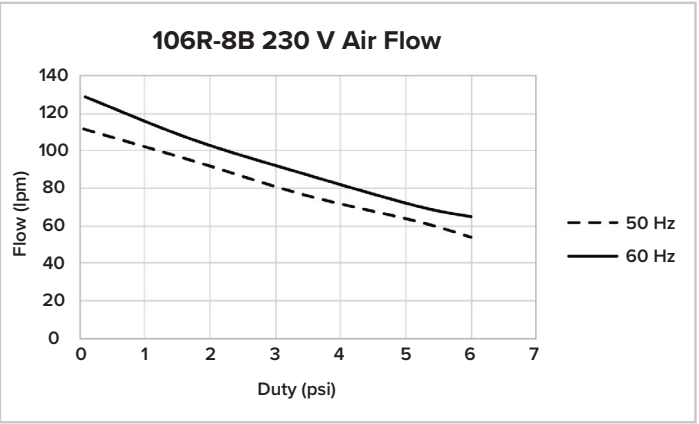
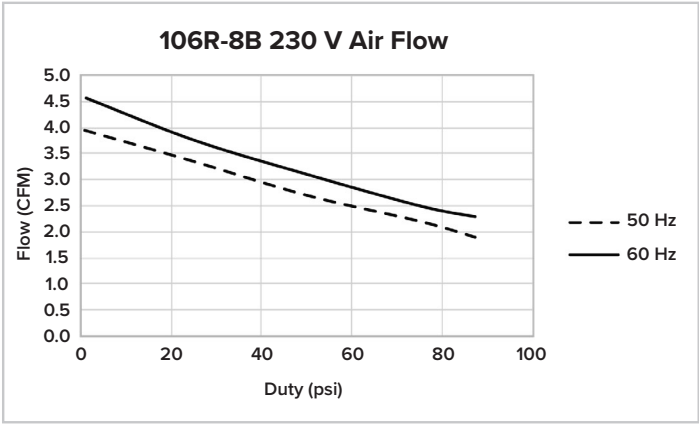
Technical modifications reserved.

¹ Air flow is reduced by approximately 18-20% on units with dryer during purge cycle.

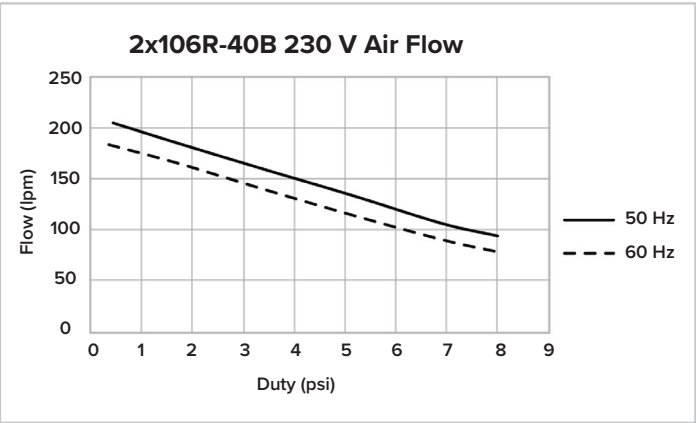
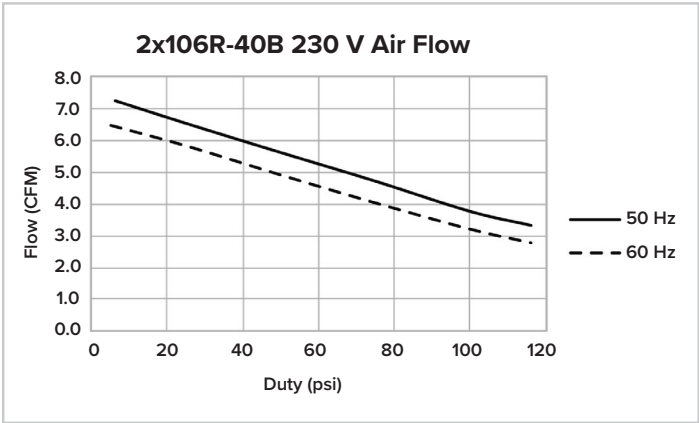
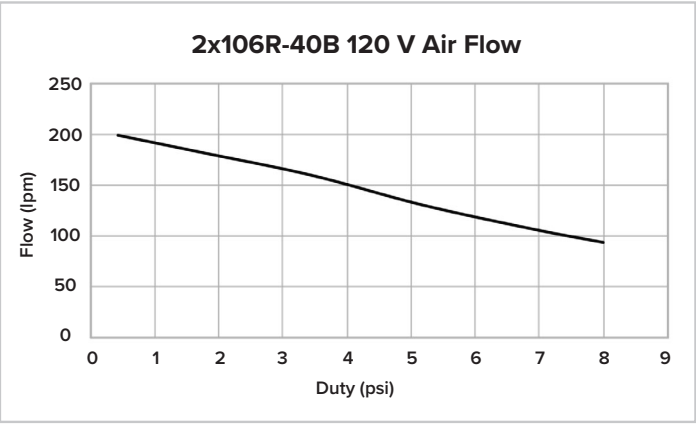
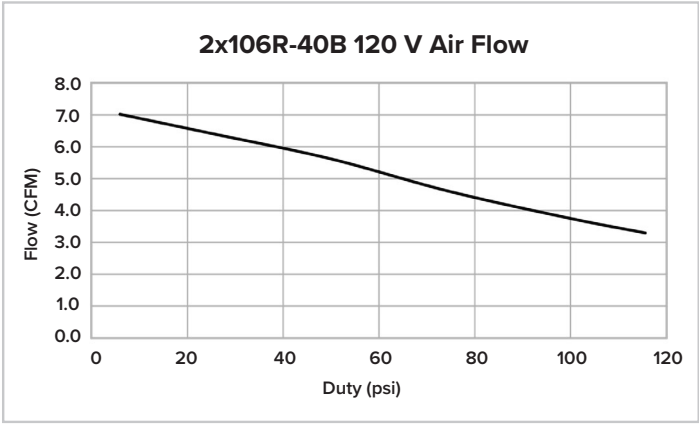
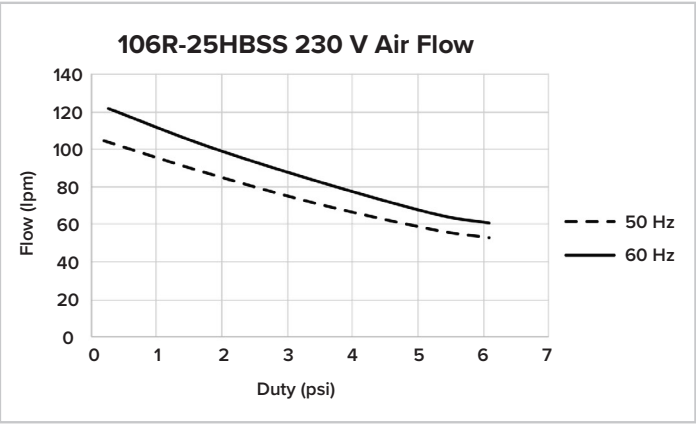
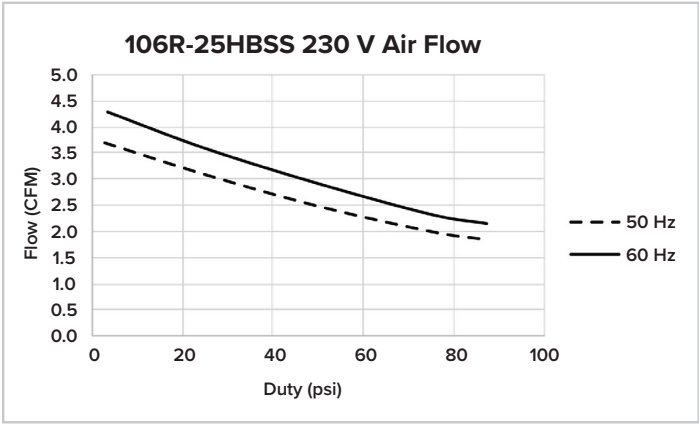
² Maximum pressure not to exceed 10 bar/145 psi for 6 to 8 bar systems. Please note unit is certified at factory cut-in and cut-out pressure of 6 to 8 bar.

³ At operating temperature.

PERFORMANCE CURVES

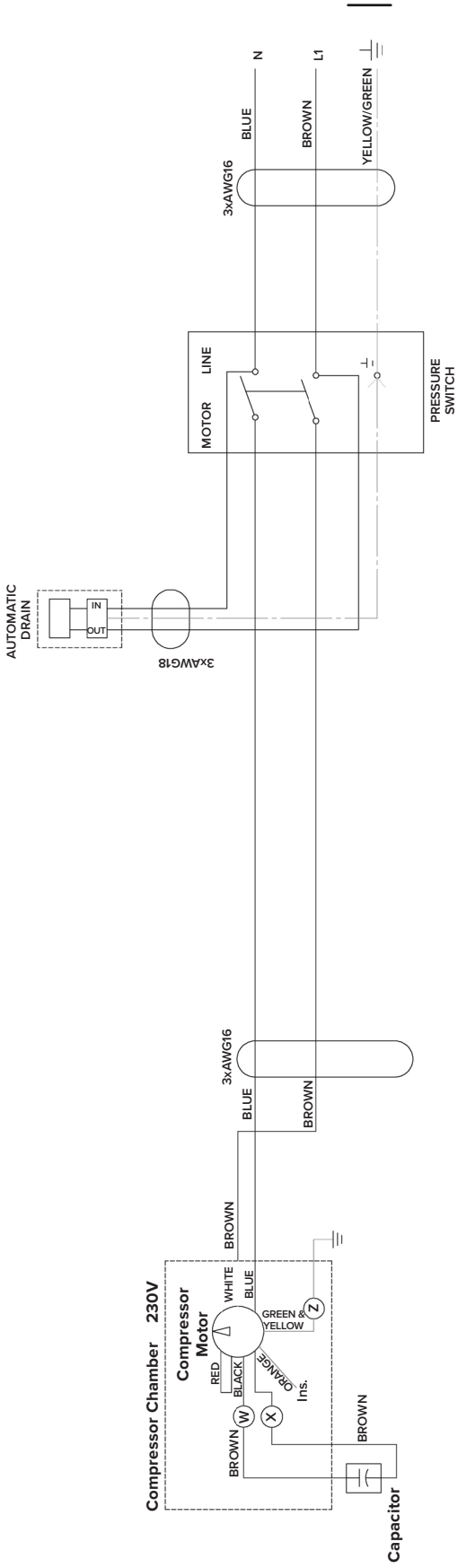


PERFORMANCE CURVES



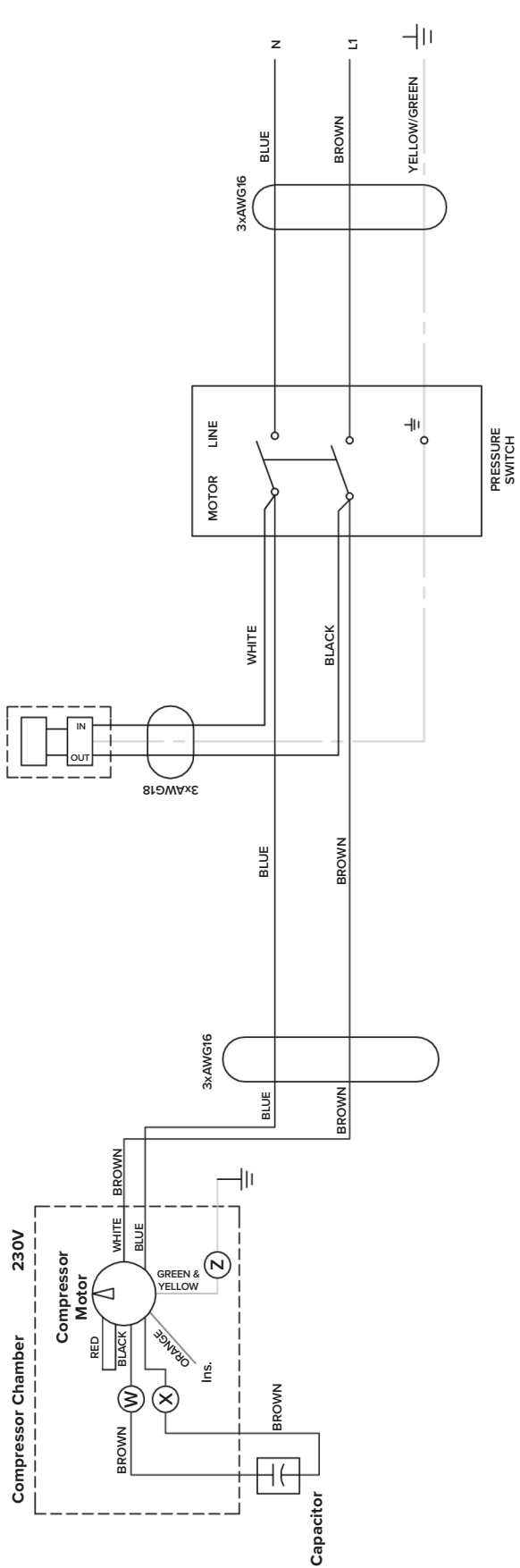
ELECTRICAL DRAWINGS

Model 106R-8B



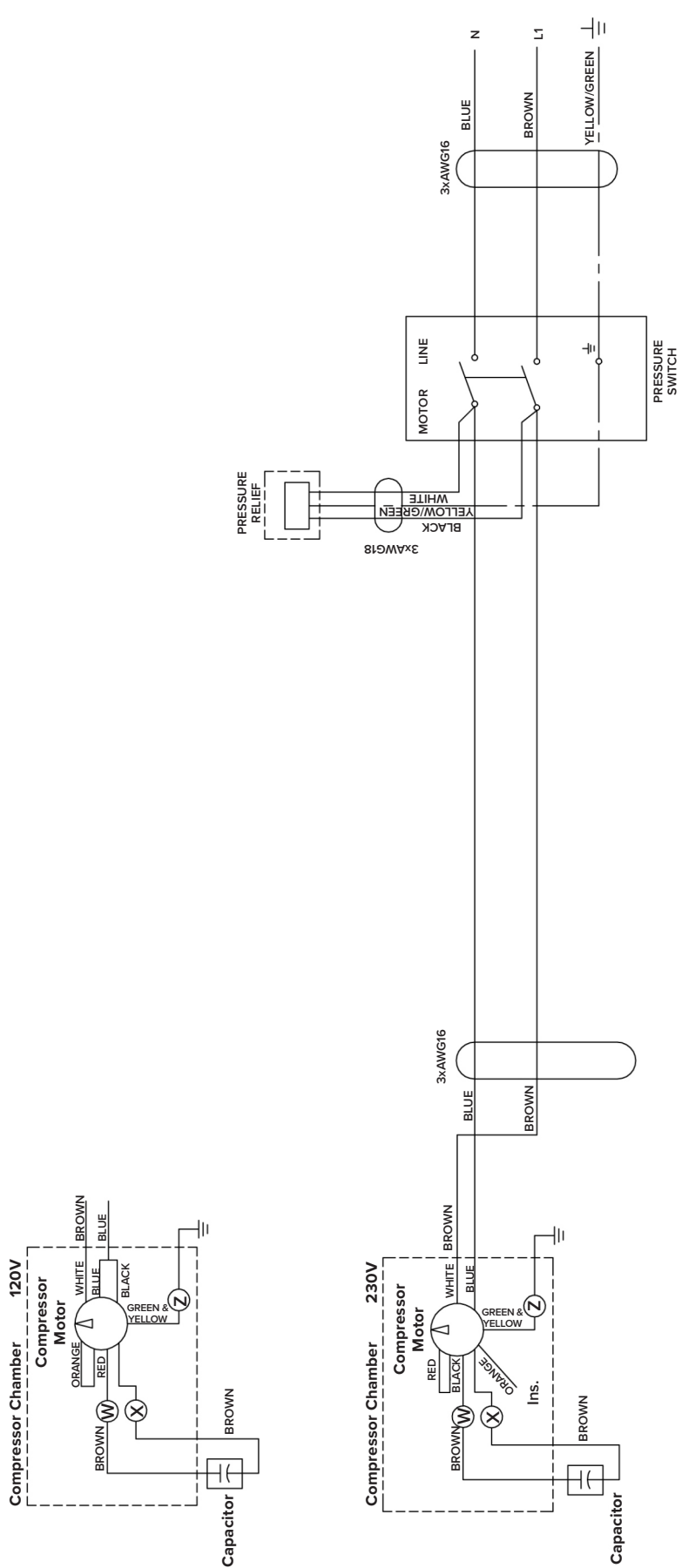
ELECTRICAL DRAWINGS

Model 106R-25HBSS

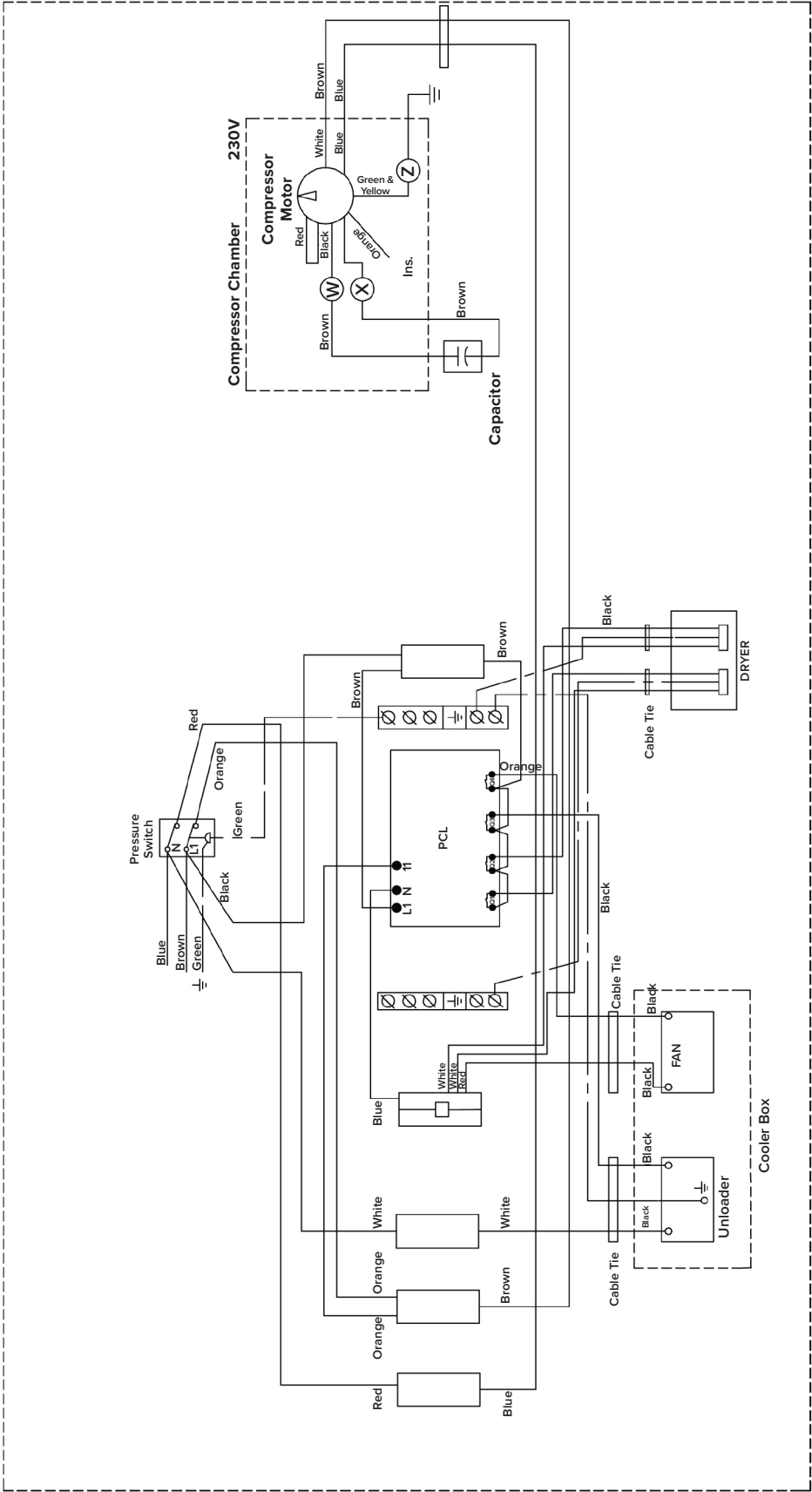


ELECTRICAL DRAWINGS

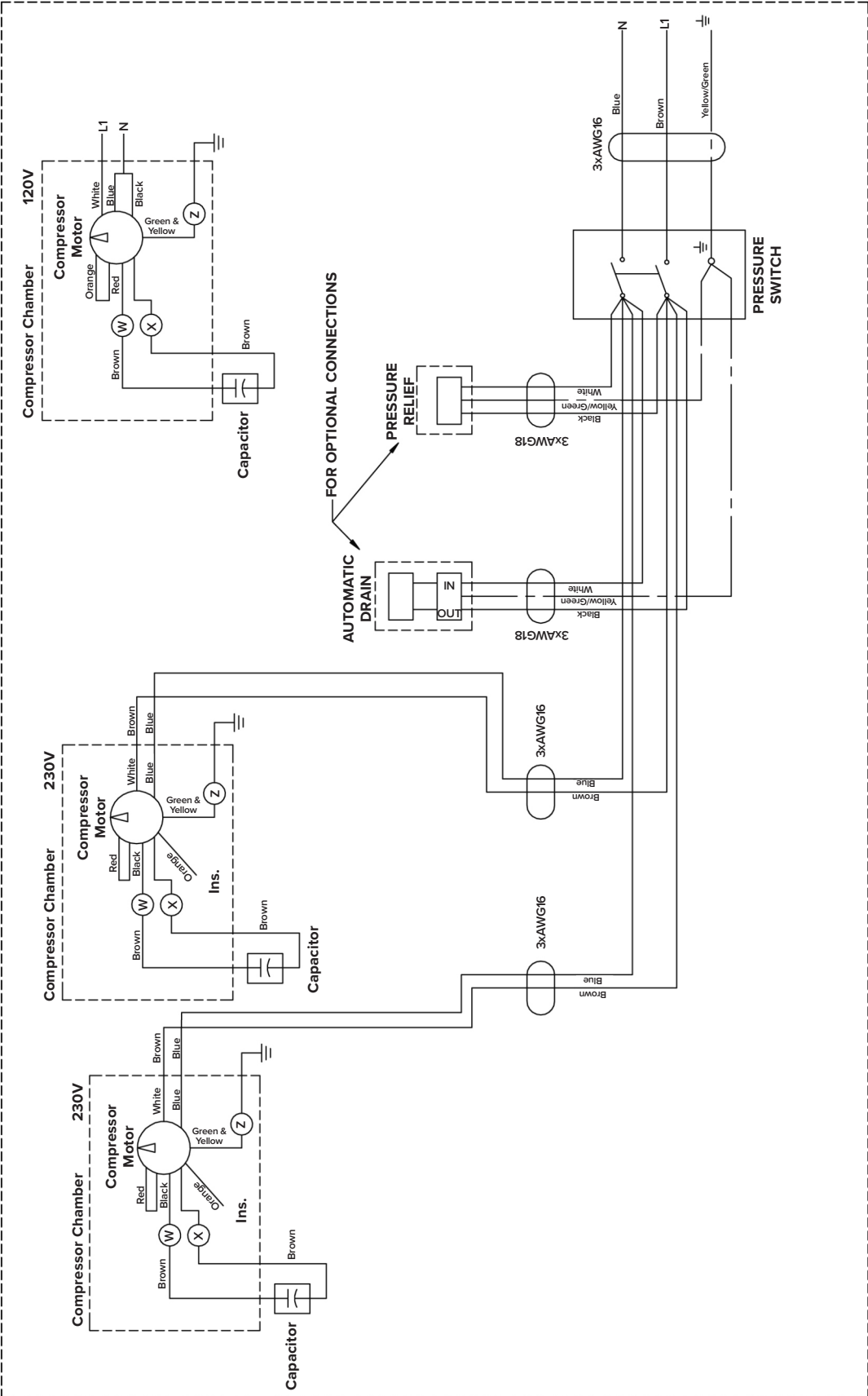
Model 106R-25B



Model 106R-25BQ2

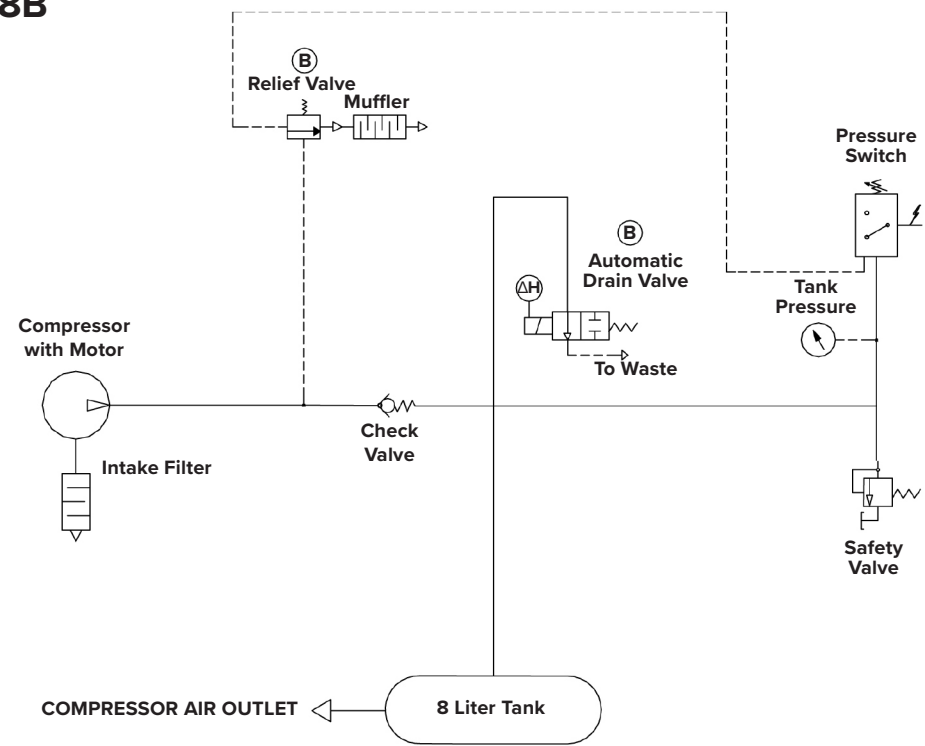


Model 2x106R-40B

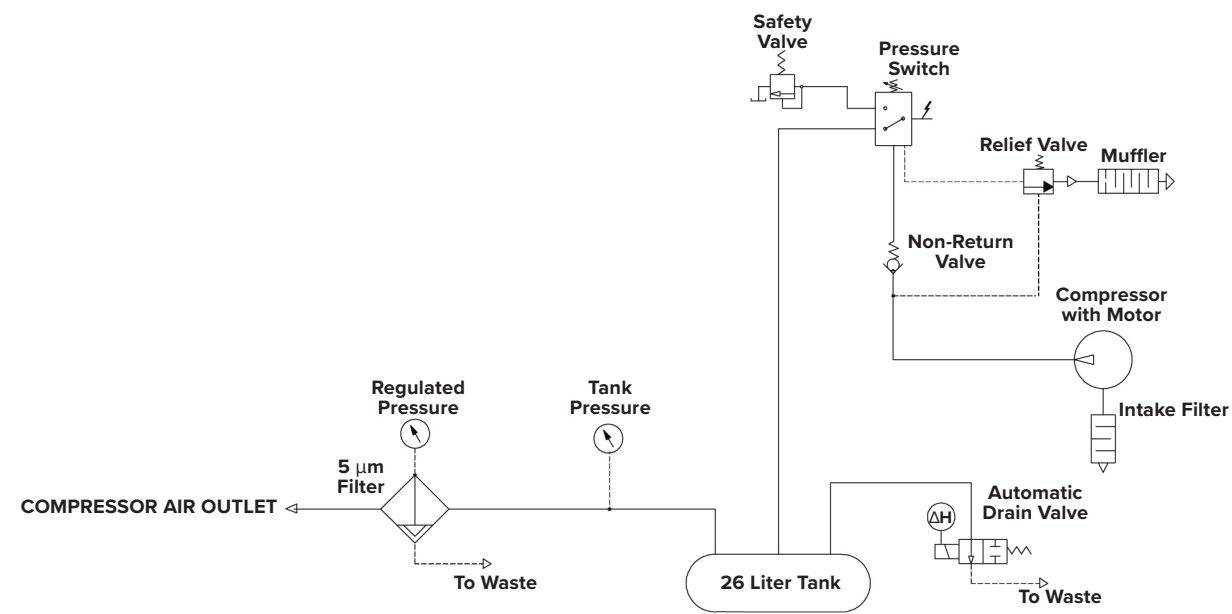


PNEUMATIC DIAGRAMS

Model 106R-8B

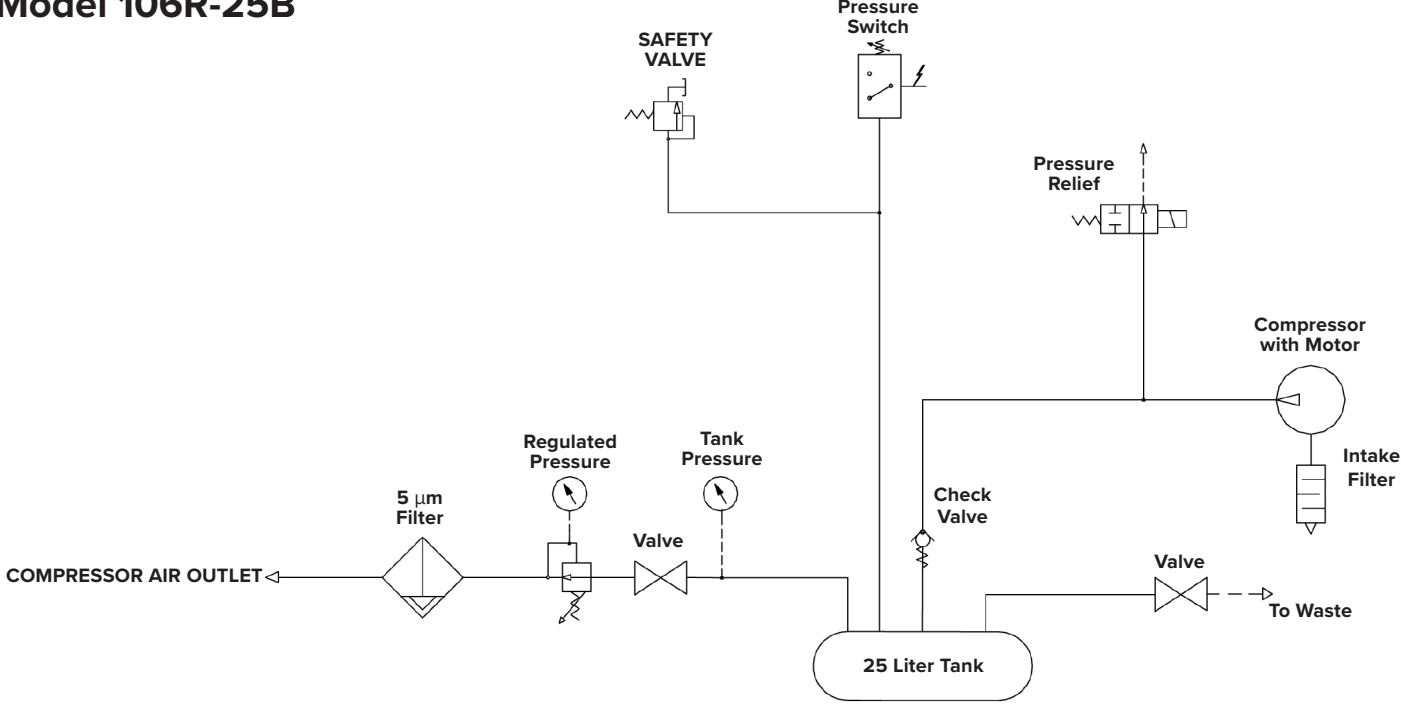


Model 106R-25HBSS

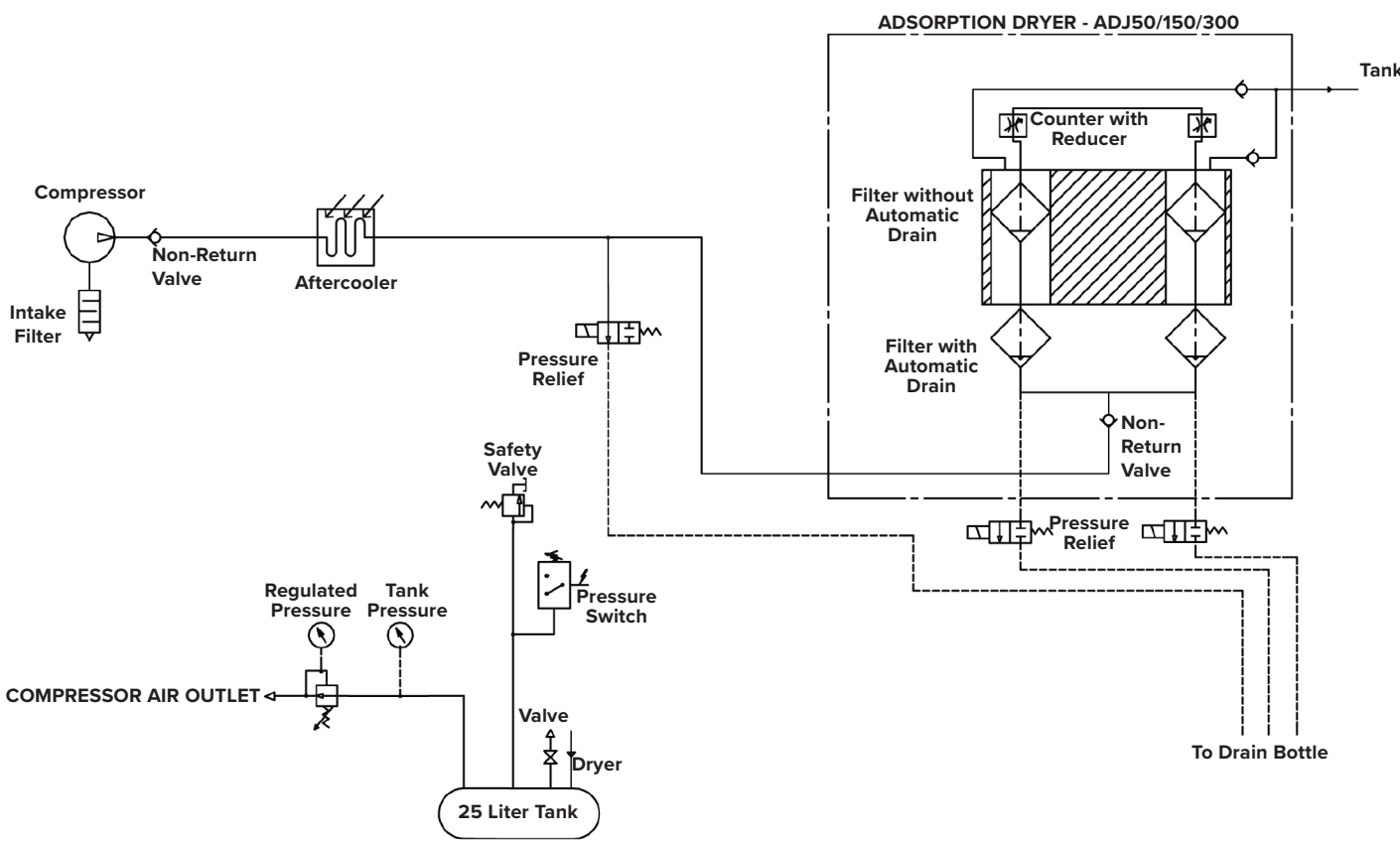


PNEUMATIC DIAGRAMS

Model 106R-25B

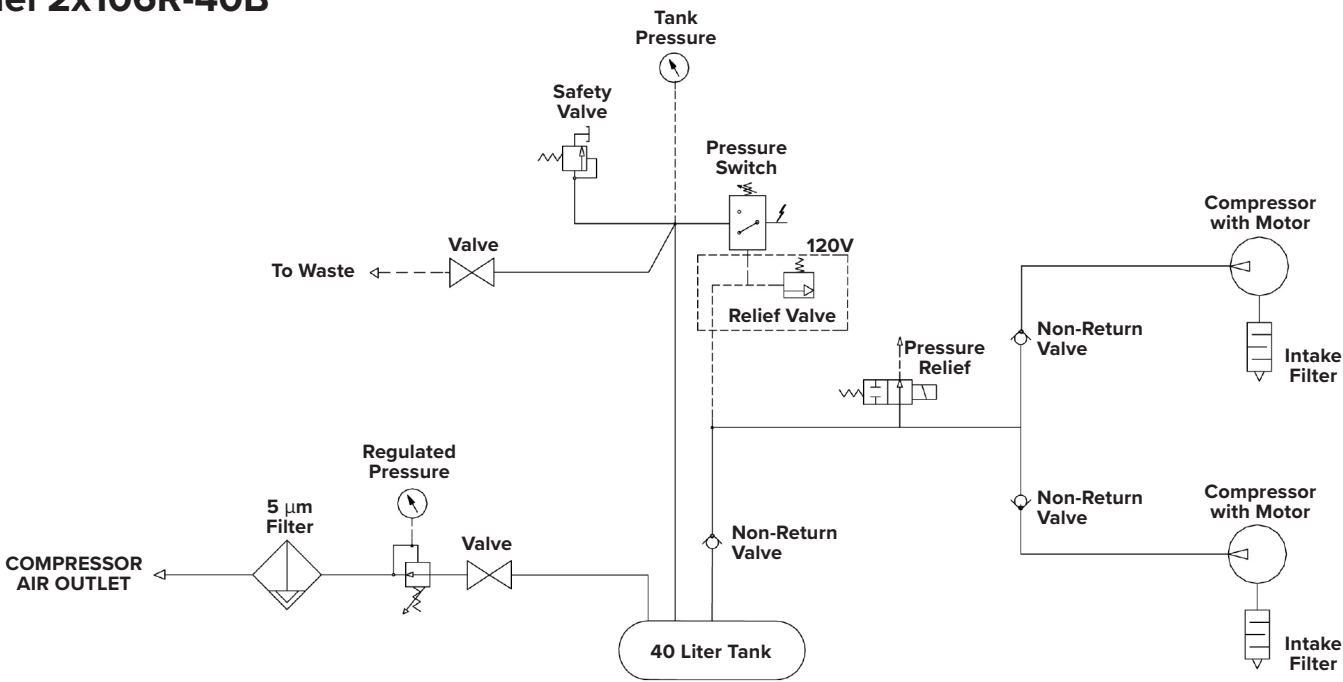


Model 106R-25BQ2



PNEUMATIC DIAGRAMS

Model 2x106R-40B

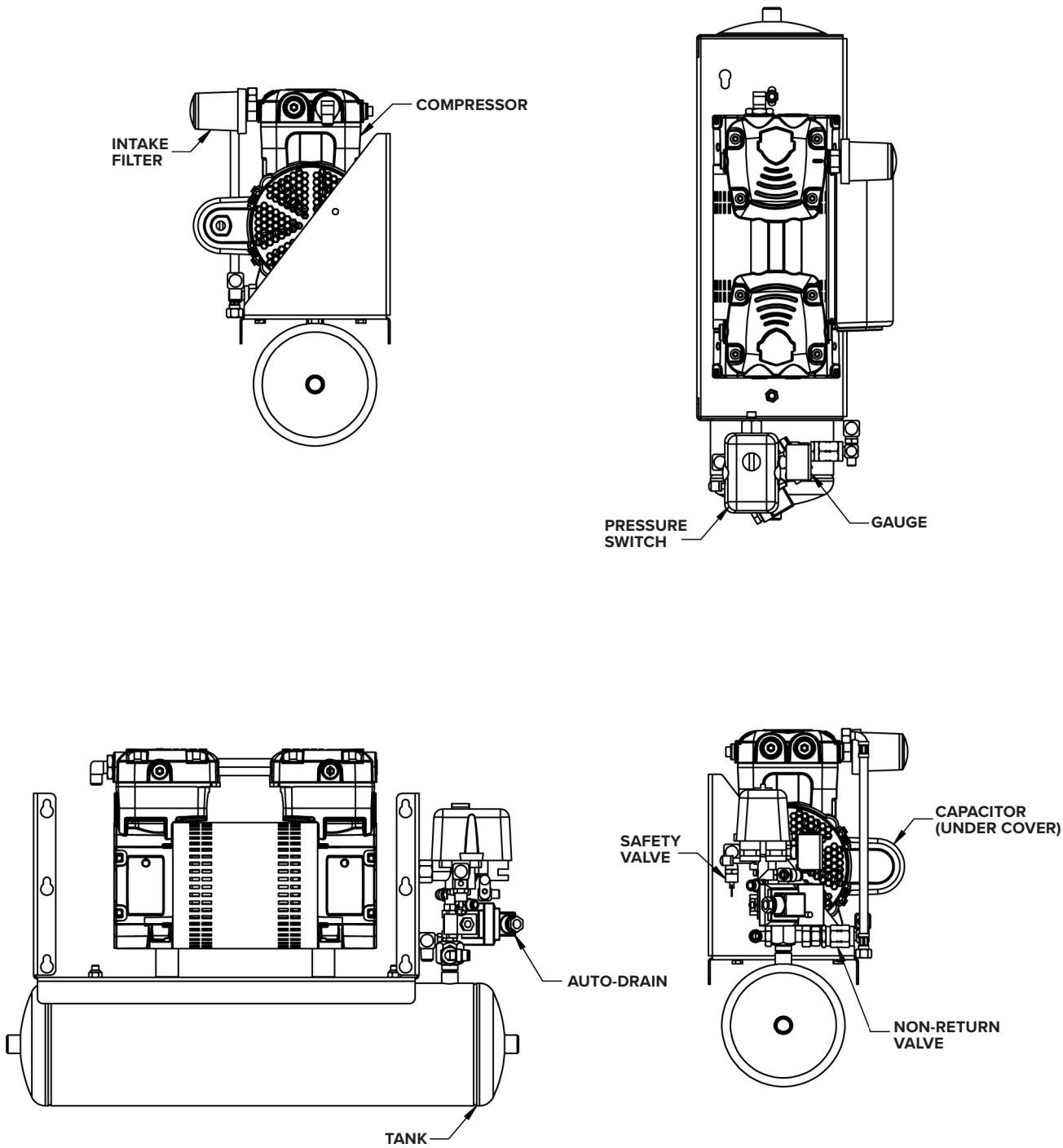


SYSTEM KITS

Description	Kit Number	Service Interval
106R Preventative Maintenance Kit	K1038	2,000 hours or one year
106R6 Service Kit - Low Pressure	K1039	6,000 hours or five years
106R5 Service Kit - High Pressure	K1040	6,000 hours or five years
106R Capacitor Replacement Kit	K1041	Five years
106R Capacitor Cover	K1042	As needed
106R Spare Parts	K1043	As needed
106R Retrofit Parts for OF302/OF312	K1044	As needed
Basic B System Outlet Hose Kit	K1048	As needed
Basic BQ System Outlet Hose Kit	K1049	As needed
Regulator Filter Kit	4071311	2,000 hours or one year
Regulator Filter Bowl Manual Drain Kit	4071330	As needed
Regulator Filter Bowl Automatic Drain Kit	4071340	As needed
4071321 PARKER Reg Kit	4071321	As needed

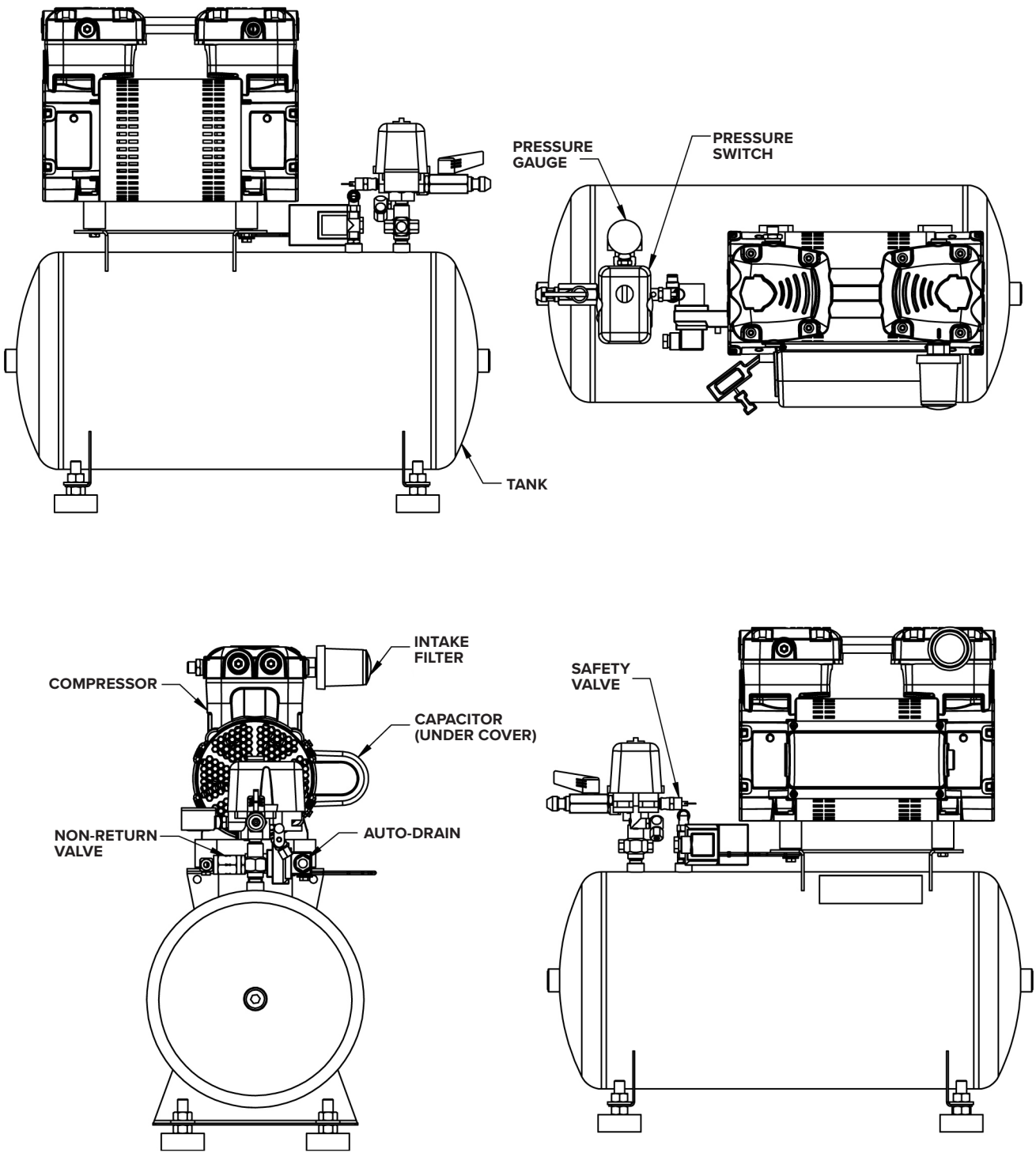
SYSTEM FEATURES

Model 106R-8B 230 V



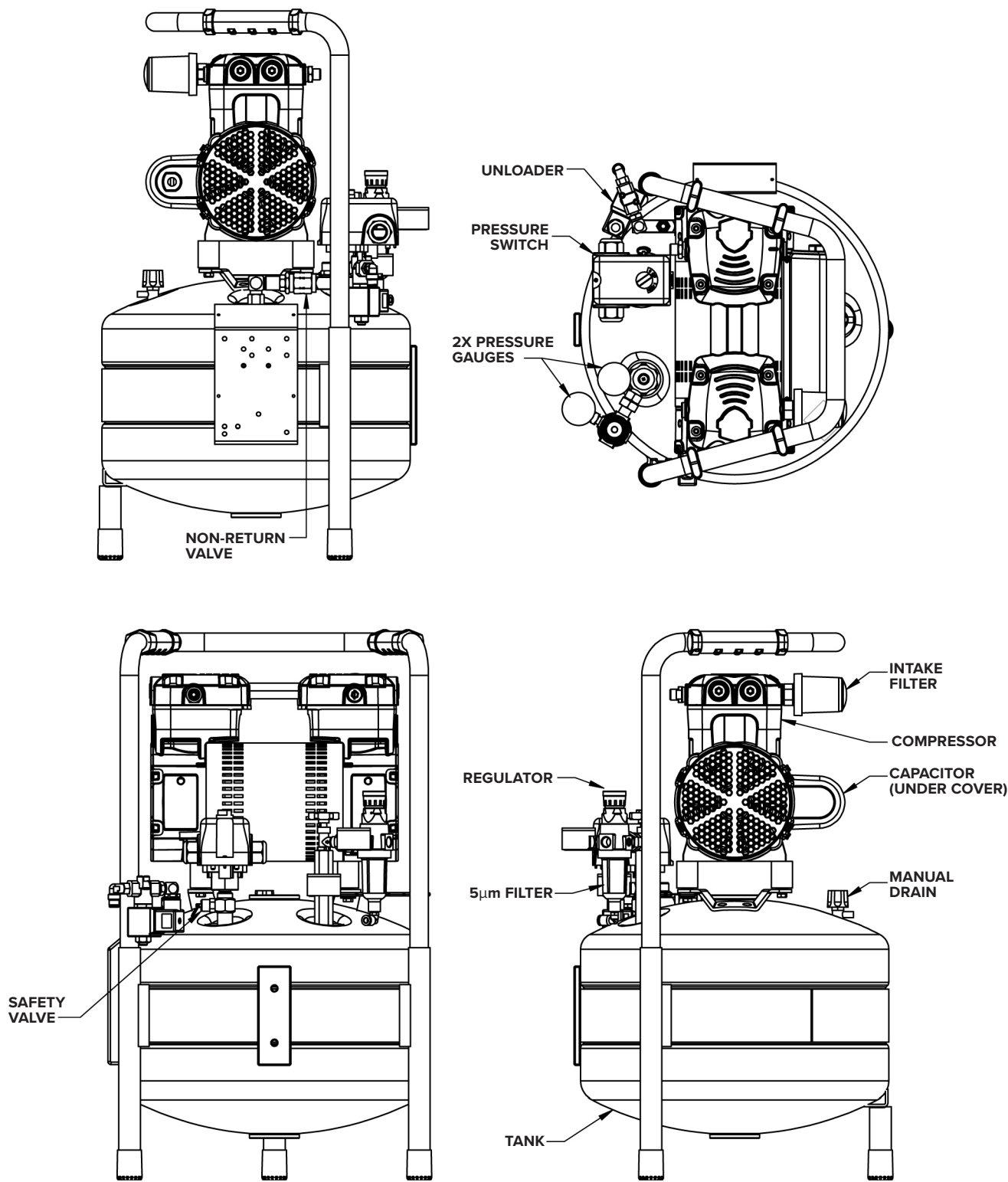
SYSTEM FEATURES

Model 106R-25HBSS 230 V



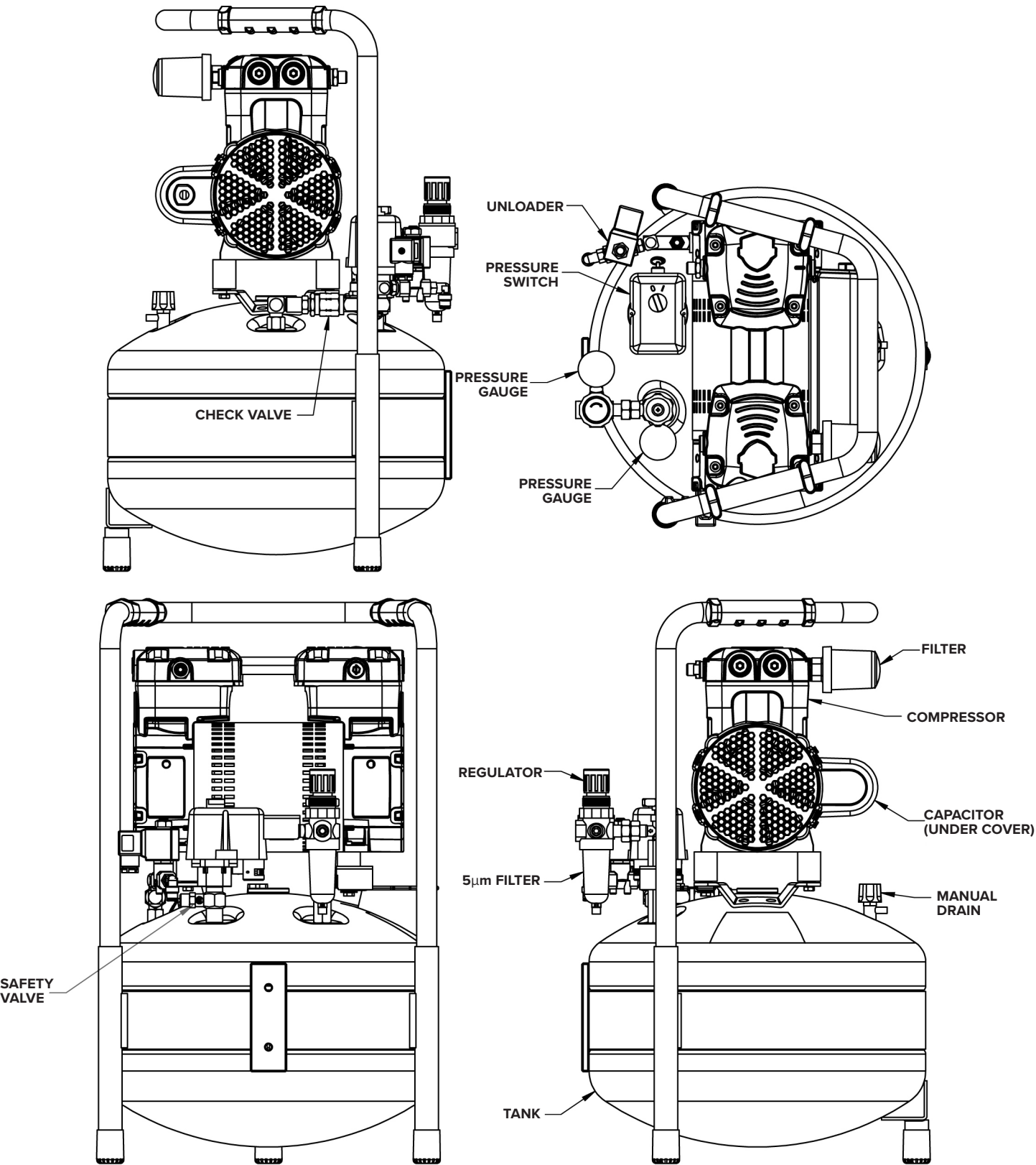
SYSTEM FEATURES

Model 106R-25B 120 V



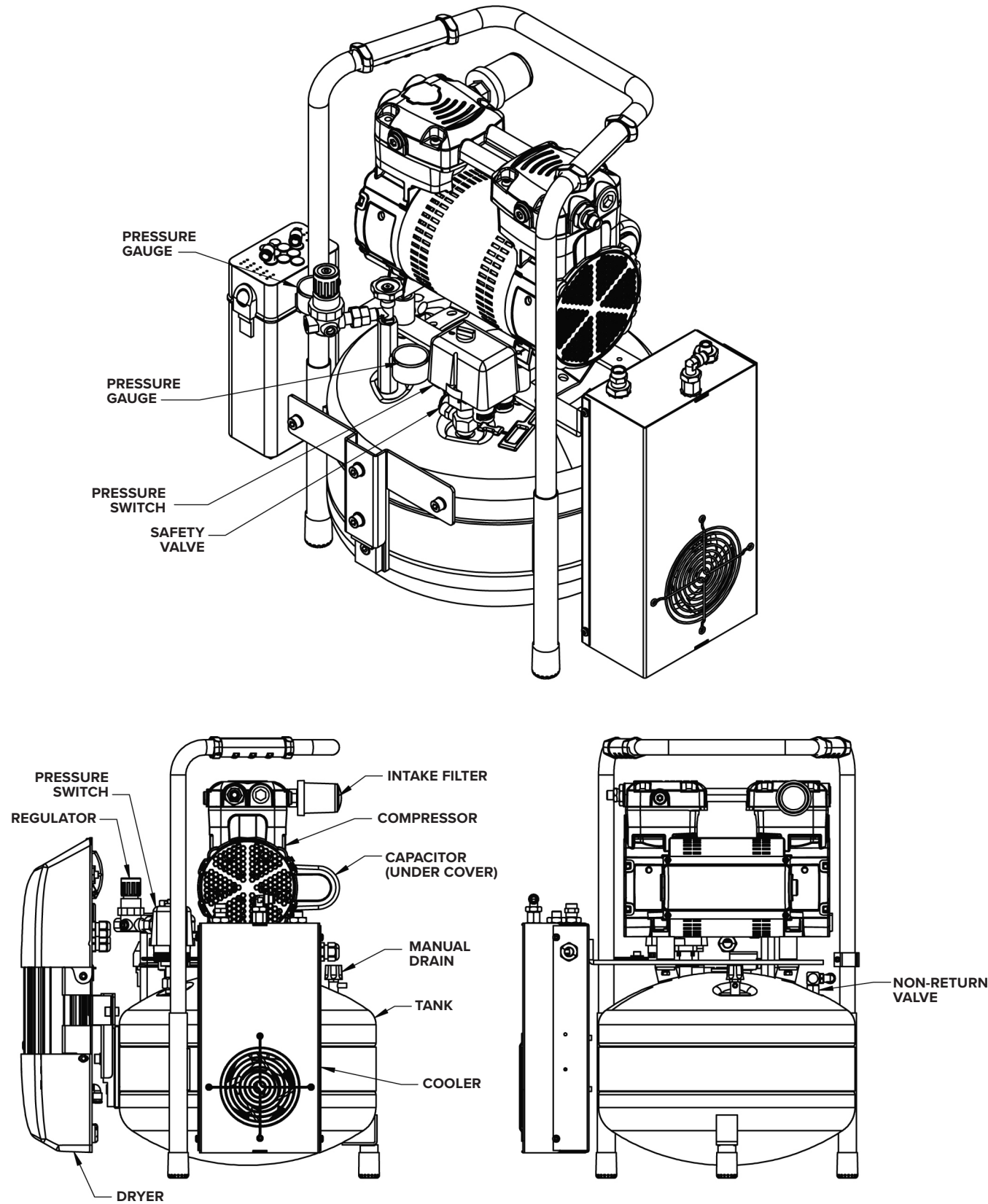
SYSTEM FEATURES

Model 106R-25B 230 V



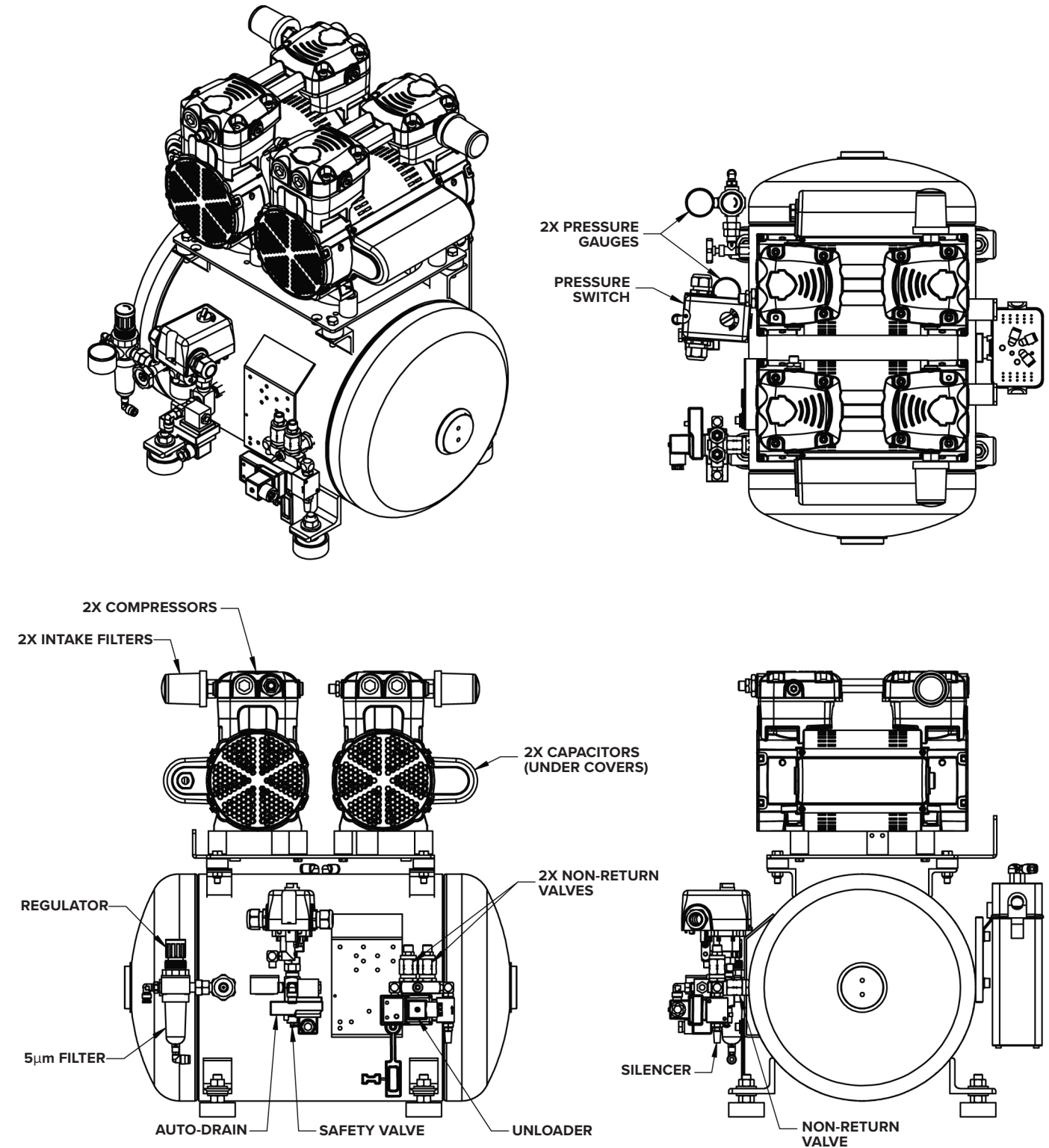
SYSTEM FEATURES

Model 106R-25BQ2



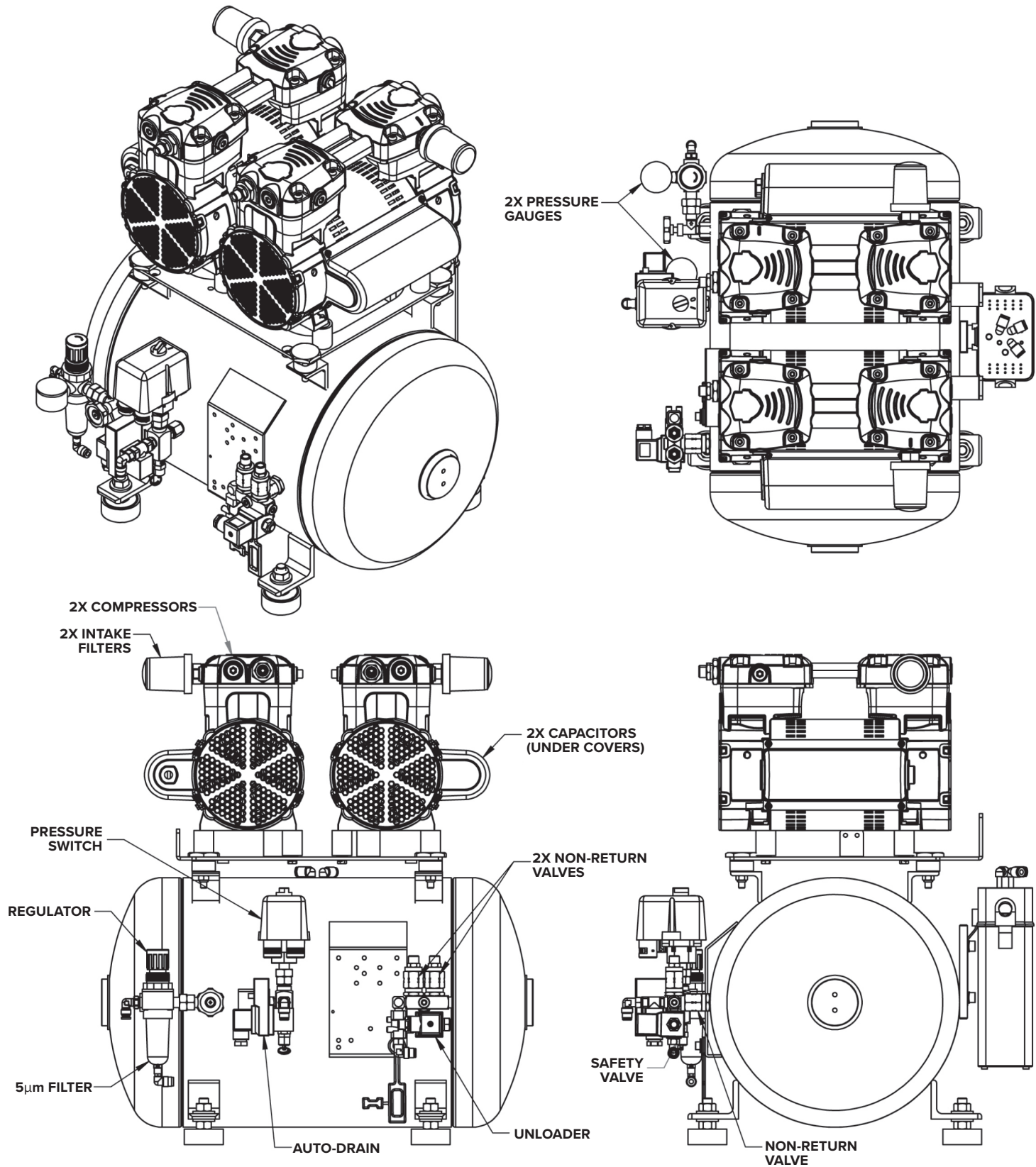
SYSTEM FEATURES

Model 2x106R-40B 120 V



SYSTEM FEATURES

Model 2x106R-40B 230 V



SYMBOLS

The symbols found on the product and packing are explained below.

Symbol	Description
	DANGER: Hazardous situation or extreme condition. Will result in serious or fatal injury if not avoided. WARNING: Hazardous situation. May result in serious injury if not avoided. CAUTION: Potentially hazardous situation/avoid unsafe practices. Could result in minor or moderate injury if not avoided.
	EQUIPMENT ALERT: Hazardous situation that could result in equipment damage if not avoided.
	WARNING: Hot surfaces. Risk of burns. Do not touch surface during operation. Do not touch the compressor head.
	CAUTION: Risk of Bursting. Do not adjust regulator to result in output pressure greater than marked maximum pressure of attachment.
	WARNING: Risk of injury. Do not direct air stream at body.
	Keep dry. Do not expose to rain.
	Transport and storage: Temperature: -25°C to 55°C / -13°F to 131°F
	Transport and storage relative humidity: Maximum 90%
	This side up.
	Fragile. Handle with care.
	Disposal in accordance with existing regulations for electric and electronic equipment.
	Read operation and maintenance manual before operating.
	A/C power
	Ground
	ELECTRICAL SHOCK HAZARD: Risk of electric shock present. Make sure power is disconnected before attempting this procedure.

POTENTIAL WARNING LABELS ON PRODUCT

**WARNING**

THIS MOTOR IS THERMALLY PROTECTED AND WILL AUTOMATICALLY RESTART WHEN PROTECTOR RESETS. ALWAYS DISCONNECT POWER SUPPLY BEFORE SERVICING.

**WARNING**



ELECTRIC SHOCK RISK. DISCONNECT BEFORE SERVICING.

**WARNING**



INDUSTRIAL ELECTRICAL EQUIPMENT - WITH RESPECT TO ELECTRICAL SHOCK, FIRE, MECHANICAL, AND OTHER SPECIFIED HAZARDS, ONLY IN ACCORDANCE WITH UL1450.

**CAUTION**



TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE TO RAIN. STORE INDOORS.

**CAUTION**



RISK OF BURSTING - DO NOT ADJUST REGULATOR TO RESULT IN OUTPUT PRESSURE GREATER THAN MARKED MAXIMUM PRESSURE OF ATTACHMENT.

**CAUTION**



RISK OF INJURY - DO NOT DIRECT AIR/NITROGEN STREAM AT BODY.

**WARNING**



MOVING PARTS PRESENT - CAN RESULT IN SERIOUS INJURY TO HANDS OR FINGERS. KEEP HANDS AWAY FROM MOVING PARTS. DISCONNECT AND LOCKOUT POWER BEFORE SERVICING.

**WARNING**



PLEASE READ THIS MANUAL COMPLETELY BEFORE INSTALLING AND USING THIS PRODUCT. SAVE THIS MANUAL FOR FUTURE REFERENCE AND KEEP IN THE VICINITY OF THE PRODUCT.

**WARNING**



IMPROPER INSTALLATION OF THE GROUNDING CABLE PLUG RESULTS IN A RISK OF ELECTRICAL SHOCK.

**CAUTION**



DISCONNECT POWER BEFORE OPENING.

POTENTIAL WARNING LABELS ON PRODUCT

**WARNING**



TO AVOID SERIOUS BURNS, DO NOT TOUCH SURFACE DURING OPERATION.

**WARNING**

CONNECT DRAIN BOTTLE BEFORE OPERATION. CONNECT AUTO DRAIN TO DRAIN BOTTLE WITH 6MM HOSE SUPPLIED UNATTACHED.



SERVICE KIT	PART NUMBER	SERVICE INTERVAL



Scan this code or visit gastmfg.com for more information on where to purchase genuine Jun-Air® maintenance kits.

WARRANTY

Warranty Policy

If any part of the Jun-Air® system fails under normal use and service within the warranty period described below, the original user/owner must contact an authorized Jun-Air® dealer and provide the product's sales and service records. Should the dealer not be able to complete the repair, the dealer may contact Gast Manufacturing for disposition. The product's model and serial number, the installation date and the Gast Manufacturing invoice number must be furnished. Transportation charges both ways must be paid by the dealer. If upon receipt at the factory an examination reveals faulty or defective original parts, materials, or workmanship, Gast Manufacturing will, at its sole discretion, rebuild or replace. This warranty does not cover damages caused by misuse, abuse, accident, or neglect. Unauthorized alterations or repairs made outside our factory will cancel this warranty and charges for them will not be allowed.

For more warranty information, visit gastmfg.com/warranty.

Jun-Air® Systems

All Jun-Air® systems sold and installed by authorized Jun-Air® dealers are warrantied to be free from defects in parts, workmanship, and materials for one (1) year from date of purchase.

This warranty excludes normal expected service items, including but not limited to: filters/filter kits, o-rings, and hoses. It also excludes add-on accessories that carry their own specific manufacturer's warranty.

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Jun-Air®
powered by **gast**



Additional Languages.



Declaration of Conformity.

gastmfg.com

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ISO 9001 CERTIFIED