

EN



Single Stage Air Compressor

Operating Instructions and Parts Manual



Model: FCT05C30V6X-A2X1XX



Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described.

Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

REMINDER: Keep your dated proof of purchase for warranty purposes! Attach it to this manual or file it for safekeeping.

For parts, product & service information
visit www.fscurtis.com

FS-CURTIS, CURTIS-TOLEDO, INC.
1905 Kienlen Avenue, St Louis, Missouri 63133
Tech Support: 1-800-925-5431, option 2
Email: info@curtistoledo.com

Model #: _____

Serial #: _____

Purchase Date: _____

**REGISTER YOUR PRODUCT ONLINE NOW! <http://us.fscurtis.com/support/warranty/register>
READ AND FOLLOW ALL INSTRUCTIONS • SAVE THESE INSTRUCTIONS • DO NOT DISCARD**

BEFORE YOU BEGIN

Introduction

Air compressor units are intended to provide compressed air to power pneumatic tools, operate spray guns and supply air for pneumatic valves and actuators. The pumps supplied with these units have oil lubricated bearings. A small amount of oil carryover is present in the compressed air stream. Applications requiring air free of oil vapor should have the appropriate filters installed. The air compressor units are to be mounted per the instructions provided on a solid floor. Any other use of these units will void the warranty and the manufacturer will not be responsible for problems or damages resulting from such misuse.

QUICK REFERENCE
Recommended Oil (2 Options)
FSC-1000A ISO-100 Premium Reciprocating Compressor Lubricant
12 quart case part number FSC-1000A-12
1 quart part number FSC-1000A-1
For generic option use 10W30
Oil Capacity
Approximately 40 oz.

UNPACKING

⚠ CAUTION *Do not lift or move unit without appropriately rated equipment. Be sure the unit is securely attached to lifting device used. Do not lift unit by holding onto tubes or coolers. Do not use unit to lift other attached equipment.*

After unpacking the unit, inspect carefully for any damage that may have occurred during transit. Check for loose, missing or damaged parts. Check to be sure all supplied accessories are enclosed with the unit. In case of questions, damaged or missing parts, please visit www.fscurtis.com for customer assistance.

⚠ WARNING *Do not operate unit if damaged during shipping, handling or use. Damage may result in bursting and cause injury or property damage.*

Required Items - Not Included

- Oil

GENERAL SAFETY INSTRUCTIONS

Safety Guidelines

This manual contains information that is very important to know and understand. This information is provided for SAFETY and to PREVENT EQUIPMENT PROBLEMS. To help recognize this information, observe the following symbols.



DANGER

Danger indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.



WARNING

Warning indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.



CAUTION

Caution indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.



NOTICE

Notice indicates important information, that if not followed, may cause damage to equipment.

IMPORTANT: Information that requires special attention.

Safety Symbols

The following Safety Symbols appear throughout this manual to alert you to important safety hazards and precautions.



Wear Eye and Mask Protection



Read Manual First



Risk of Fire



Risk of Moving Parts



Risk of Hot Parts



Risk of Explosion



Risk of Fumes



Risk of Pressure



Risk of Shock

California Proposition 65



WARNING

This product or its power cord may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.



WARNING

You can create dust when you cut, sand, drill or grind materials such as wood, paint, metal, concrete, cement, or other masonry. This dust often contains chemicals known to cause cancer, birth defects, or other reproductive harm. Wear protective gear.

Important Safety Information

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

This manual contains important safety, operational and maintenance information. If you have any questions, please visit www.fscurtis.com for customer assistance.

Since the air compressor and other components (material pump, spray guns, filters, lubricators, hoses, etc.) used make up a high pressure pumping system, the following safety precautions must be observed at all times:

Important Safety Information (Continued)

▲ DANGER

BREATHABLE AIR WARNING

This compressor/pump is not equipped and should not be used “as is” to supply breathing quality air. For any application of air for human consumption, the air compressor/pump will need to be fitted with suitable in-line safety and alarm equipment. This additional equipment is necessary to properly filter and purify the air to meet minimal specifications for Grade D breathing as described in Compressed Gas Association Commodity Specification G 7.1, OSHA 29 CFR 1910. 134, and/or Canadian Standards Associations (CSA).

DISCLAIMER OF WARRANTIES

In the event the compressor is used for the purpose of breathing air application and proper in-line safety and alarm equipment is not simultaneously used, existing warranties shall be voided, and Campbell Hausfeld disclaims any liability whatsoever for any loss, personal injury or damage.



General Safety

- Read all manuals included with this product carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
- Follow all local electrical and safety codes as well as the United States National Electrical Codes (NEC) and Occupational Safety and Health Act (OSHA).
- Only persons well acquainted with these rules of safe operation should be allowed to use the compressor.
- Keep visitors away and NEVER allow children in the work area.
- Wear safety glasses and use hearing protection when operating the unit.
- Do not stand on or use the unit as a handhold.
- Before each use, inspect compressed air system and electrical components for signs of damage, deterioration, weakness or leakage. Repair or replace defective items before using.
- Check all fasteners at frequent intervals for proper tightness.



▲ WARNING *Motors, electrical equipment and controls can cause electrical arcs that will ignite a flammable gas or vapor. Never operate or repair in or near a flammable gas or vapor. Never store flammable liquids or gases in the vicinity of the compressor.*



▲ WARNING *Never operate compressor without a beltguard. This unit can start automatically without warning. Personal injury or property damage could occur from contact with moving parts.*

- Do not wear loose clothing or jewelry that will get caught in the moving parts of the unit.



▲ CAUTION *Compressor parts may be hot even if the unit is stopped.*

- Keep fingers away from a running compressor; fast moving and hot parts will cause injury and/or burns.
- If the equipment should start to vibrate abnormally, STOP the engine/motor and check immediately for the cause. Vibration is generally an indication of trouble.
- To reduce fire hazard, keep engine/motor exterior free of oil, solvent, or excessive grease.

▲ WARNING *An ASME code safety relief valve with a setting no higher than the Maximum Allowable Working Pressure (MAWP) of the tank MUST be installed in the air lines or in the tank for this compressor. The ASME safety valve must have sufficient flow and pressure ratings to protect the pressurized components from bursting. The flow rating can be found in the parts manual. The safety valve in the intercooler does not provide system protection.*

▲ WARNING *Maximum operating pressure is 140 psi for single stage compressors. Do not operate with pressure switch or pilot valves set higher than 140 psi (single stage).*

- Never attempt to adjust ASME safety valve. Keep safety valve free from paint and other accumulations.

Important Safety Information (Continued)**⚠ WARNING**

Never attempt to repair or modify a tank! Welding, drilling or any other modification will weaken the tank resulting in damage from rupture or explosion. Always replace worn, cracked or damaged tanks.

NOTICE

Drain liquid from tank daily.

- Tanks rust from moisture build-up, which weakens the tank. Make sure to drain tank regularly and inspect periodically for unsafe conditions such as rust formation and corrosion.
- Fast moving air will stir up dust and debris which may be harmful. Release air slowly when draining moisture or depressurizing the compressor system.

Spraying Precautions**⚠ WARNING**

Do not spray flammable materials in vicinity of open flame or near ignition sources including the compressor unit.

- Do not smoke when spraying paint, insecticides, or other flammable substances.
- Use a face mask/respirator when spraying and spray in a well ventilated area to prevent health and fire hazards.
- Do not direct paint or other sprayed material at the compressor. Locate compressor as far away from the spraying area as possible to minimize overspray accumulation on the compressor.
- When spraying or cleaning with solvents or toxic chemicals, follow the instructions provided by the chemical manufacturer.



Save These Instructions
Do Not Discard

The **DANGER, WARNING, CAUTION, and NOTICE** notifications and instructions in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that caution is a factor which cannot be built into this product, but must be supplied by the operator.

Getting To Know Your Compressor

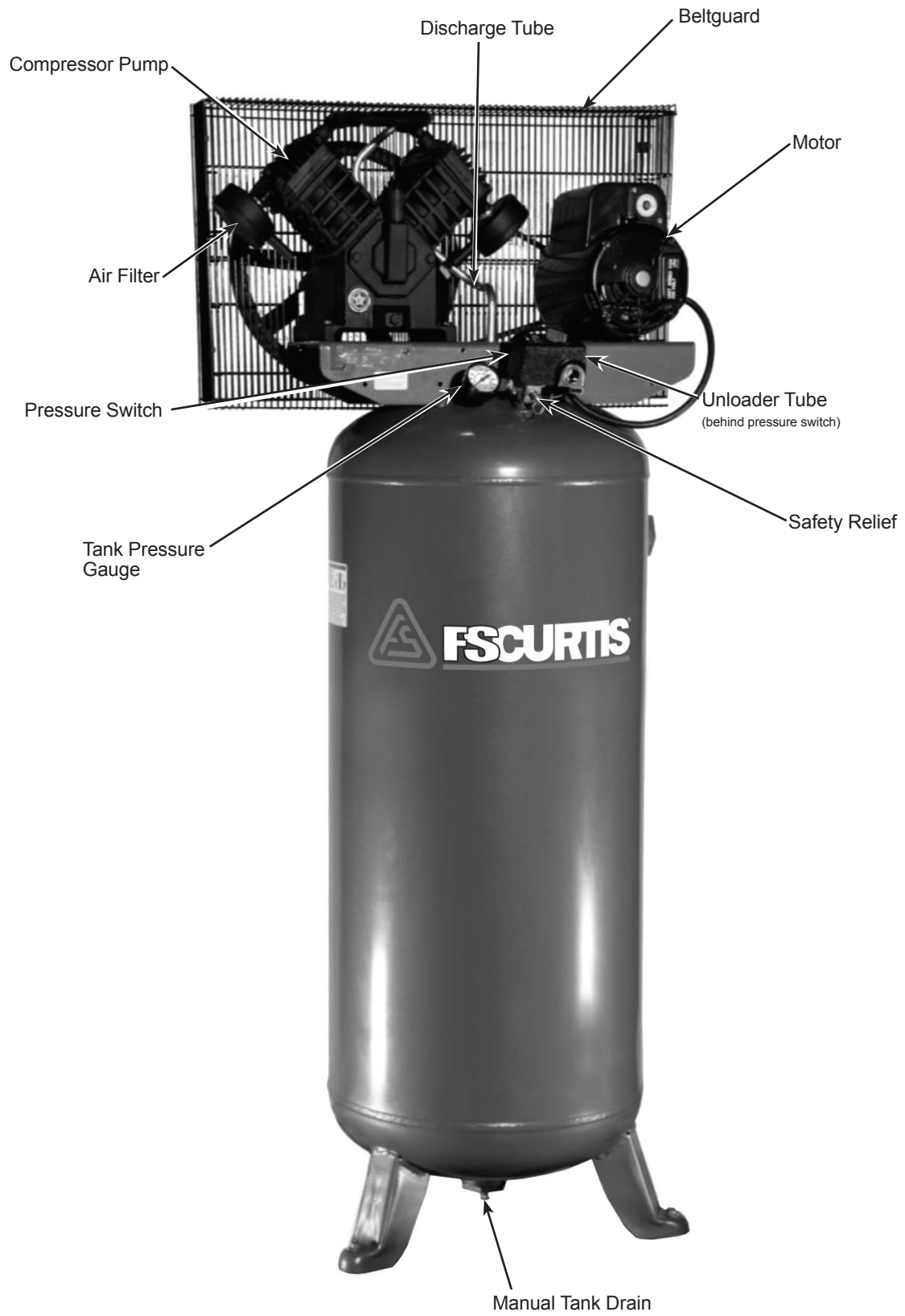


Figure 1 - Vertical Unit Identification

SPECIFICATIONS

FCT05C30V6X-A2X1XX	
Motor HP	5
Power	208-230V
Phase	1
Displacement CFM	26.24
Air Delivery CFM @ 90 PSI	17.3
Air Delivery CFM @ 140 PSI	14.2
Max PSI	135
Pump RPM	950
Tank Capacity	60 gallons
Unit Weight	410 lbs
Amp Draw	21.0
Max Duty Cycle	80/20
Tank Outlet	3/4 inch (F) NPT

DIMENSIONS

FCT05C30V6X-A2X1XX	
Length	23 inches
Width	31 inches
Height	71 inches

INSTALLATION INSTRUCTIONS



⚠ WARNING *Disconnect, tag and lock out power source then release all pressure from the system before attempting to install, service, relocate or perform any maintenance.*

⚠ CAUTION *Do not lift or move unit without appropriately rated equipment. Be sure the unit is securely attached to lifting device used. Do not lift unit by holding onto tubes or coolers. Do not use unit to lift other attached equipment.*

⚠ CAUTION *Never use the wood shipping skids for mounting the compressor.*

Picking the Location

Install and operate unit at least 18 inches from any obstructions in a clean, well ventilated area. The surrounding air temperature should not exceed 100° F. This will ensure an unobstructed flow of air to cool compressor and allow adequate space for maintenance.

⚠ CAUTION *Do not locate the compressor air inlet near steam, paint spray, sandblast areas or any other source of contamination.*

NOTE: If compressor operates in a hot, moist environment, supply compressor pump with clean, dry outside air. Supply air should be piped in from external sources.

Tank Mounting

The tank should be bolted into a flat, even, concrete floor or on a separate concrete foundation. Vibration isolators should be used between the tank leg and the floor. Part number FVF134A isolator pads are recommended for units.

When using isolator pads, **do not draw bolts tight**. Allow the pads to absorb vibrations. When isolators are used, a flexible hose or coupling should be installed between the tank and service piping.

⚠ WARNING *Failure to properly install the tank can lead to cracks at the welded joints and possible bursting.*



Piping

⚠ WARNING *Never use plastic (PVC) pipe for compressed air. Serious injury or death could result.*

Any tube, pipe or hose connected to the unit must be able to withstand the temperature generated and retain the pressure. All pressurized components of the air system must have a pressure rating of 200 psi or higher. Incorrect selection and installation of any tube, pipe or hose could result in bursting and injury. Connect piping system to tank using the same size fitting as the discharge port.

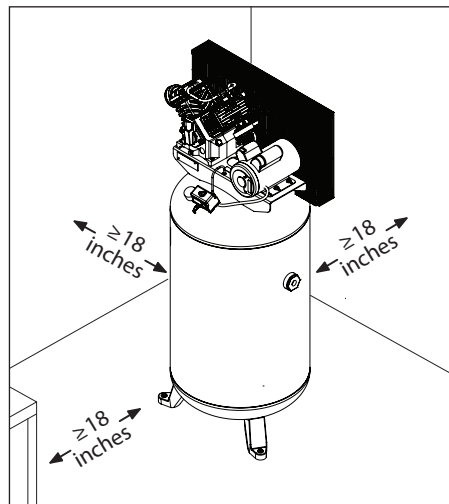


Figure 2 - Location

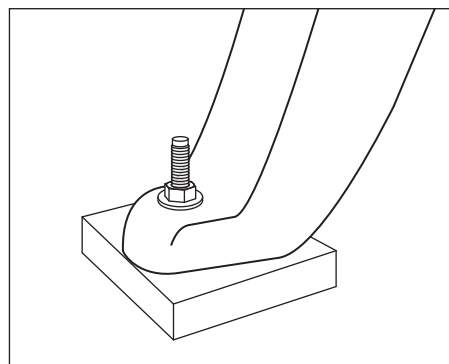


Figure 3 - Isolator Pad

Minimum Pipe Size For Compressed Air Line

CFM	LENGTH OF PIPING SYSTEM			
	25 FEET	50 FEET	100 FEET	250 FEET
10	1/2 inch	1/2 inch	3/4 inch	3/4 inch
20	3/4 inch	3/4 inch	3/4 inch	1 inch
40	3/4 inch	1 inch	1 inch	1 inch
60	3/4 inch	1 inch	1 inch	1 inch
100	1 inch	1 inch	1 inch	1-1/4 inch

INSTALLATION INSTRUCTIONS (CONTINUED)

Installing A Shut-Off Valve

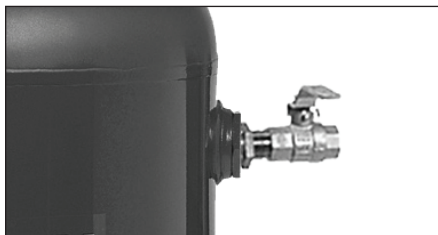


Figure 4 - Shut-off Valve

A shut-off valve should be installed on the discharge port of the tank to control the air flow out of the tank. The valve should be located between the tank and the piping system.

⚠ WARNING

Never install a shut-off valve between the compressor pump and the tank. Personal injury and/or equipment damage may occur. Never use reducers in discharge piping.

When creating a permanently installed system to distribute compressed air, find the total length of the system and select pipe size from the chart on page 7. Bury underground lines below the frost line and avoid pockets where condensation can gather and freeze.

Apply air pressure to the piping installation and make sure all joints are free from leaks BEFORE underground lines are covered. Before putting the compressor into service, find and repair all leaks in the piping, fittings and connections.

Wiring

⚠ WARNING

All wiring and electrical connections must be performed by a qualified electrician familiar with induction motor controls. Installations must be in accordance with local and national codes.

⚠ WARNING

Overheating, short circuiting and fire damage will result from inadequate wiring.

Wiring must be installed in accordance with National Electrical Code and local codes and standards that have been set up covering electrical apparatus and wiring. These should be consulted and local ordinances observed. Be certain that adequate wire sizes are used, and that:

1. Service is of adequate ampere rating.
2. The supply line has the same electrical characteristics (voltage, cycles and phase) as the motor. Refer to motor name plate for electrical ratings and specifications.
3. The line wire is the proper size and that no other equipment is operated from the same line. The chart gives minimum recommended wire sizes for compressor installations.

Minimum Wire Size (Use 75°C Copper Wire)

Make sure voltage is correct with the motor wiring.

NOTE: If using 208 volts single phase, make sure the motor name plate states it is rated for 208 volts single phase. 230 volt single phase motors do not work on 208 volts unless they have the 208 volt rating.

HP	AMPS	SINGLE PHASE
		230V
1-4 HP	UP TO 22.0	10 AWG
5.0		8 AWG

Recommended wire sizes may be larger than the minimum set up by local ordinances. If so, the larger size wire should be used to prevent excessive line voltage drop. The additional wire cost is very small compared with the cost of repairing or replacing a motor electrically "starved" by the use of supply wires which are too small.

INSTALLATION INSTRUCTIONS (CONTINUED)

Grounding



⚠ WARNING

Improperly grounded electrical components are shock hazards. Make sure all the components are properly grounded to prevent death or serious injury.

This product **must** be grounded. Grounding reduces the risk of electrical shock by providing an escape wire for the electric current if short circuit occurs. This product must be installed and operated with a power cord or cable that has a grounding wire.

Breakers and Fuses

The entire electrical system should be checked by a certified electrician. Time delay breakers and fuses are required for this compressor. A tripped breaker or blown fuses may indicate a direct short to ground, high current draw, improper wiring, incorrect fuse or breaker size and/or type. This needs to be evaluated by a certified electrician.

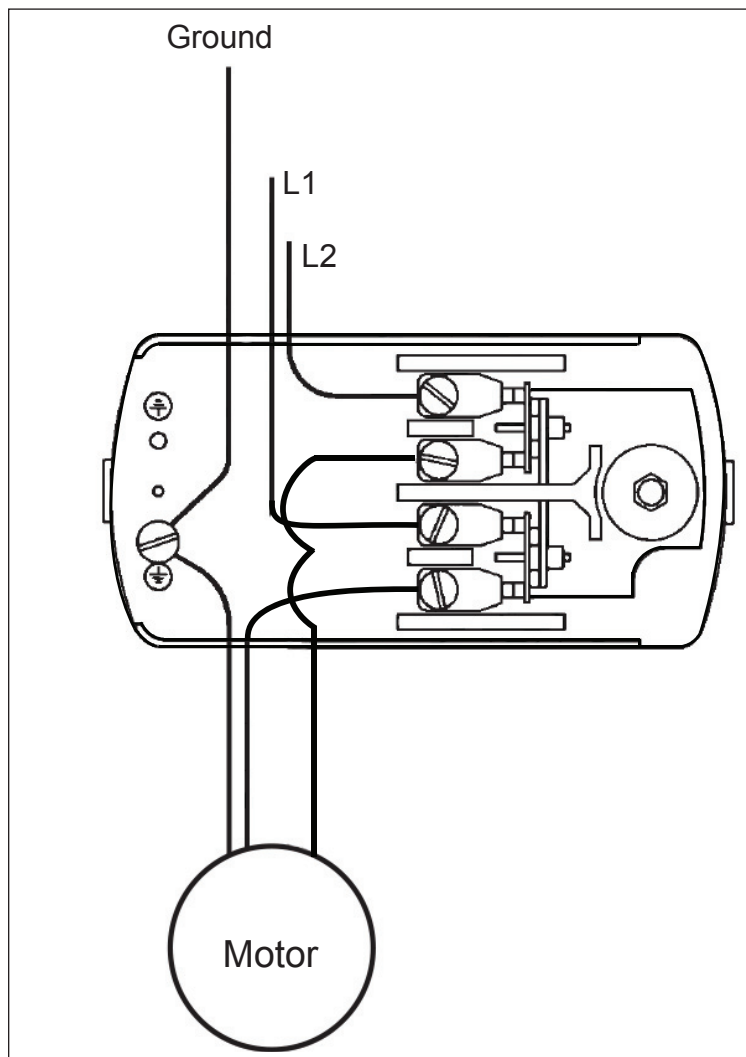


Figure 5 - Wiring Diagram

INSTALLATION INSTRUCTIONS (CONTINUED)

Lubrication

⚠ CAUTION *This unit contains no oil. Before operating compressor, fill to the center of the sight gauge (see Figure 6).*

⚠ CAUTION *Using any other type of oil may shorten pump life and damage valves.*

QUICK REFERENCE

Recommended Oil (2 Options)

FSC-1000A ISO-100 Premium Reciprocating Compressor Lubricant

12 quart case part number FSC-1000A-12

1 quart part number FSC-1000A-1

For generic option use 10W30

Oil Capacity

Approximately 40 oz.

Fill the pump with oil to the center of the sight gauge using oil fill opening (see Figure 6). **Do NOT fill the pump through the breather cap opening as this may cause oil to leak and spray out during operation.**

NOTE: Some residual oil may still be in the pump from factory testing leaving a thin coat on the sight gauge; however, there is not enough oil to operate the unit.

OPERATING INSTRUCTIONS

IMPORTANT: Check motor rotation before operating the compressor.

All lubricated compressor pumps discharge some condensed water and oil with the compressed air. Install appropriate water/oil removal equipment and controls as necessary for the intended application.

NOTICE *Failure to install appropriate water/oil removal equipment may result in damage to machinery or workpiece.*

Guarding

⚠ WARNING *The belt guard provided must be installed before operating the unit.*

All moving parts must be guarded. All electrical covers must be installed before turning on the power.

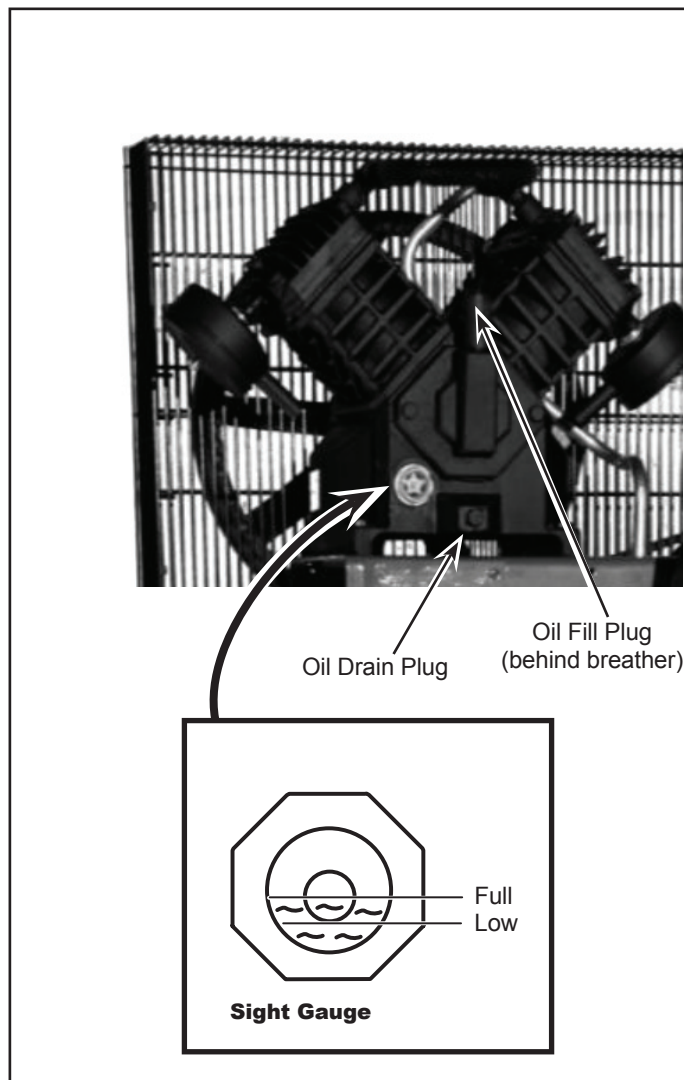


Figure 6 - Lubrication

OPERATING INSTRUCTIONS (CONTINUED)

Recommended Break-In Period

The compressor should be run continuously at 90 PSI or lower for one hour to allow proper seating of the piston rings.

1. Open drain cock completely and run the compressor for 60 minutes.
2. Turn off the compressor and close drain cock. The compressor is now ready for use.

If the compressor is run under humid conditions for short periods of time, the humidity will condense in the crankcase and cause the oil to look creamy. Oil contaminated by condensed water will not provide adequate lubrication and must be changed immediately. Using contaminated oil will damage bearings, pistons, cylinders and rings and is not covered under warranty. To avoid water condensation in the oil, periodically run the compressor with tank pressure near 120 psi for single stage compressors by opening the drain valve or an air valve connected to the tank or hose. Run the pump for an hour at a time at least once a week or more often if the condensation reoccurs.

IMPORTANT: Change oil after first 50 hours of operation and every 200 hours afterwards.

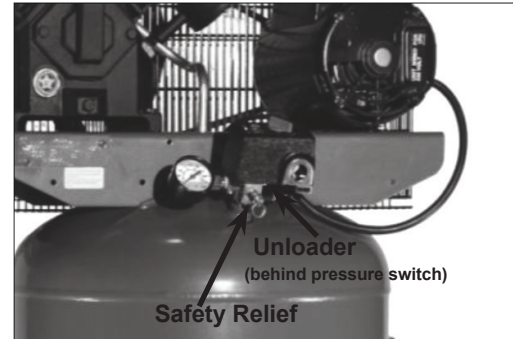


Figure 7 - Pressure Switch

Pressure Switch, Start - Stop

NOTE: Single stage compressors have a maximum operating pressure of 135 psi. Do not alter pressure settings on control components above this limit.

The compressor unit starts and stops based on preset pressure switch settings of 110 psi cut-in and 135 psi cut-out. The pressure switch contains an unloader which is a small valve that vents air to allow the motor to start easily (see Figure 7).

The unloader valve on the pressure switch should hiss for a short period of time when the compressor shuts off. This relieves the head and the exhaust tubing of any pressure and allows the compressor to start under no load. Because compressors have high starting torque the unloader is necessary for proper starting of the compressor.

The check valve is a one way valve that keeps the air in the tank when the unit shuts off. The easiest way to determine if the check valve is working properly is to make sure that the pressure switch unloader quits hissing after the compressor shuts off. The hissing should last for several seconds and then quit.

Crankcase Breather

During severe operating conditions or initial start-up, some oil may accumulate at the crankcase breather opening. This is normal and will diminish as the pump accumulates run time and the piston rings become fully seated.

Draining Tank

Condensate must be drained from the tank daily, use manual tank drain (see Figure 8).



Figure 8 - Manual Tank Drain

TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Excessive noise in operation	<ol style="list-style-type: none"> Loose pulley, flywheel, belt, belt guard, etc Lack of oil in crankcase Compressor floor mounting loose Malfunctioning check valve Unit not on vibration pads 	<ol style="list-style-type: none"> Tighten Check for damage to bearings, replenish oil Shim to level and tighten or place on isolator pads Replace check valve Install vibration pads under compressor feet
Milky oil in oil reservoir	Water condensing in crankcase due to high humidity	Pipe air intake to less humid air source. Run pump continuously for one hour
Excessive oil consumption or oil in air lines	<ol style="list-style-type: none"> Be sure there is a problem Restricted air intake Wrong oil viscosity Worn piston rings Oil leaks Scored cylinder 	<ol style="list-style-type: none"> Diagnose oil contamination problems by testing the discharge air or measuring oil consumption from the crankcase Clean or replace air filter Drain oil. Refill with oil of proper viscosity Replace rings Tighten bolts, replace gaskets or o-rings Replace cylinder
Water in discharge air	<ol style="list-style-type: none"> Excessive water in tank Hot, humid weather 	<ol style="list-style-type: none"> Drain tank Purchase dryer
Air blowing out of inlet	<ol style="list-style-type: none"> Broken first stage inlet valve (two-stage unit) Broken inlet valve (single stage unit) 	<ol style="list-style-type: none"> Replace valve assembly Replace valve assembly
Insufficient pressure	<ol style="list-style-type: none"> Air demand too high Leaks or restrictions in hoses or piping Slipping belts 	<ol style="list-style-type: none"> Limit air usage Check for leaks or restriction in hose or piping Tighten belts
Tank does not hold pressure when compressor is off and shutoff valve is closed	<ol style="list-style-type: none"> Worn check valve Check all connections and fittings for tightness Check tank for cracks or pin holes 	<ol style="list-style-type: none"> Replace check valve Tighten Replace tank. Never repair a damaged tank
Excessive belt wear. (Light dust from start is normal. Worn belts separate at layers)	<ol style="list-style-type: none"> Pulley out of alignment Belts too tight or too loose 	<ol style="list-style-type: none"> Realign motor pulley Adjust tension
Tank pressure builds slowly	<ol style="list-style-type: none"> Dirty air filter Blown cylinder head gasket Worn/broken intake/discharge valves Air leaks 	<ol style="list-style-type: none"> Clean or replace filter element Install new gasket Install new valve plate assembly Tighten joints
Tank pressure builds up quickly on compressor	Excessive water in tank	Drain tank, check speed. See Performance table
ASME safety valve pops open while compressor is running	<ol style="list-style-type: none"> Wrong pressure switch setting Malfunctioning ASME safety valve Pressure switch contacts welded 	<ol style="list-style-type: none"> Adjust to lower pressure 140 psi for single stage unit (See Operation) Replace ASME safety valve Replace pressure switch
Pressure switch continuously blows air out the unloader valve	Malfunctioning check valve	Replace the check valve if the unloader valve bleeds off constantly
Pressure switch unloader valve does not release air when the unit shuts off	Malfunctioning unloader valve on pressure switch	Replace the pressure switch if the unit does not hiss for a short period of time when the unit shuts off

⚠ DANGER Do not disassemble check valve with air in tank

TROUBLESHOOTING GUIDE (CONTINUED)

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Motor hums and runs slowly or not at all	1. Low voltage or no voltage	1. Check with voltmeter, check line voltage to unit. If overload or reset switch trips repeatedly, find and correct the cause. See next item
	2. Shorted or open motor winding	2. Replace motor
	3. Malfunctioning check valve or unloader valve	3. Replace check valve or unloader valve
	4. Malfunctioning pressure switch - contacts will not close	4. Repair or replace pressure switch
Reset mechanism cuts out repeatedly or fuses blow repeatedly	1. Pressure switch set too high	1. Adjust or replace
	2. Malfunctioning check valve	2. Clean or replace faulty valve
	3. Incorrect breaker/disconnect size	3. Be sure that breakers/disconnect are rated properly
	4. Malfunctioning motor	4. Replace motor
	5. Loose Wiring	5. Check all electrical connections

MAINTENANCE AND INSPECTION INSTRUCTIONS



⚠ WARNING

Disconnect, tag and lock out power source then release all pressure from the system before attempting to install, service, relocate or perform any maintenance.

In order to maintain efficient operation of the compressor system, check the air filter and oil level before each use. The ASME safety valve should also be checked daily (see Figure 9). Pull ring on safety valve and allow the ring to snap back to normal position. This valve automatically releases air if the tank pressure exceeds the preset maximum. If air leaks after the ring has been released, or the valve is stuck and cannot be actuated by the ring, the ASME safety valve must be replaced.

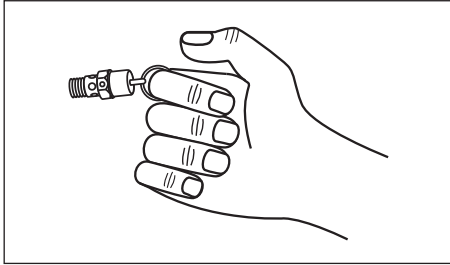


Figure 9 - ASME Safety Valve

⚠ WARNING

Do not tamper with the ASME safety valve.

Tank

⚠ WARNING

Never attempt to repair or modify a tank! Welding, drilling or any other modification will weaken the tank resulting in damage from rupture or explosion. Always replace worn, cracked or damaged tanks.



NOTICE

Drain liquid from tank daily.

The tank should be carefully inspected at a minimum of once a year. Look for cracks forming near the welds. If a crack is detected, remove pressure from tank immediately and replace.

Compressor Lubrication

See Installation. Add oil as required. The oil should be changed every three months or after every 200 hours of operation; whichever comes first.

If the compressor is run under humid conditions for short periods of time, the humidity will condense in the crankcase and cause the oil to look creamy. Oil contaminated by condensed water will not provide adequate lubrication and must be changed immediately. Using contaminated oil will damage bearings, pistons, cylinders and rings and is not covered under warranty. To avoid water condensation in the oil, periodically run the compressor with tank pressure near 120 psi for single stage compressors by opening the drain cock or an air valve connected to the tank or hose. Run the pump for an hour at a time at least once a week or more often if the condensation reoccurs.

IMPORTANT: Change oil after first 50 hours of operation.

Air Filter

Never run the compressor pump without an intake air filter or with a clogged intake air filter. The air filter element should be checked monthly (see Figure 10). Operating compressor with a dirty filter can cause high oil consumption and increase oil contamination in the discharge air. If the air filter is dirty it must be replaced.



Figure 10 - Air Filter Element

MAINTENANCE AND INSPECTION INSTRUCTIONS (CONTINUED)

Components

Turn off all power and clean the cylinder head, motor, fan blades, air lines, aftercooler and tank on a monthly basis.

Belts

⚠ WARNING

Lock out and tag the power then release all pressure from the tank to prevent unexpected movement of the unit.

Check belt tension every 3 months. Adjust belt tension to allow 3/8 inch to 1/2 inch deflection with normal thumb pressure. Also, align belts using a straight edge against the face of the flywheel and touching the rim on both sides of the face. The belts should be parallel to this straight edge (see Figure 11). Dimension A should be the same as B and C to ensure proper alignment of the belts.

Slots in the bed-plate allow for sliding the motor back and forth to adjust belt tension.

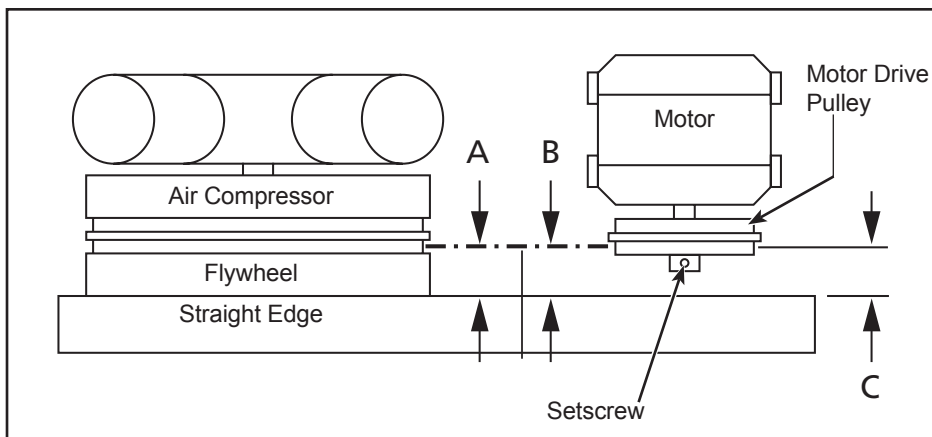


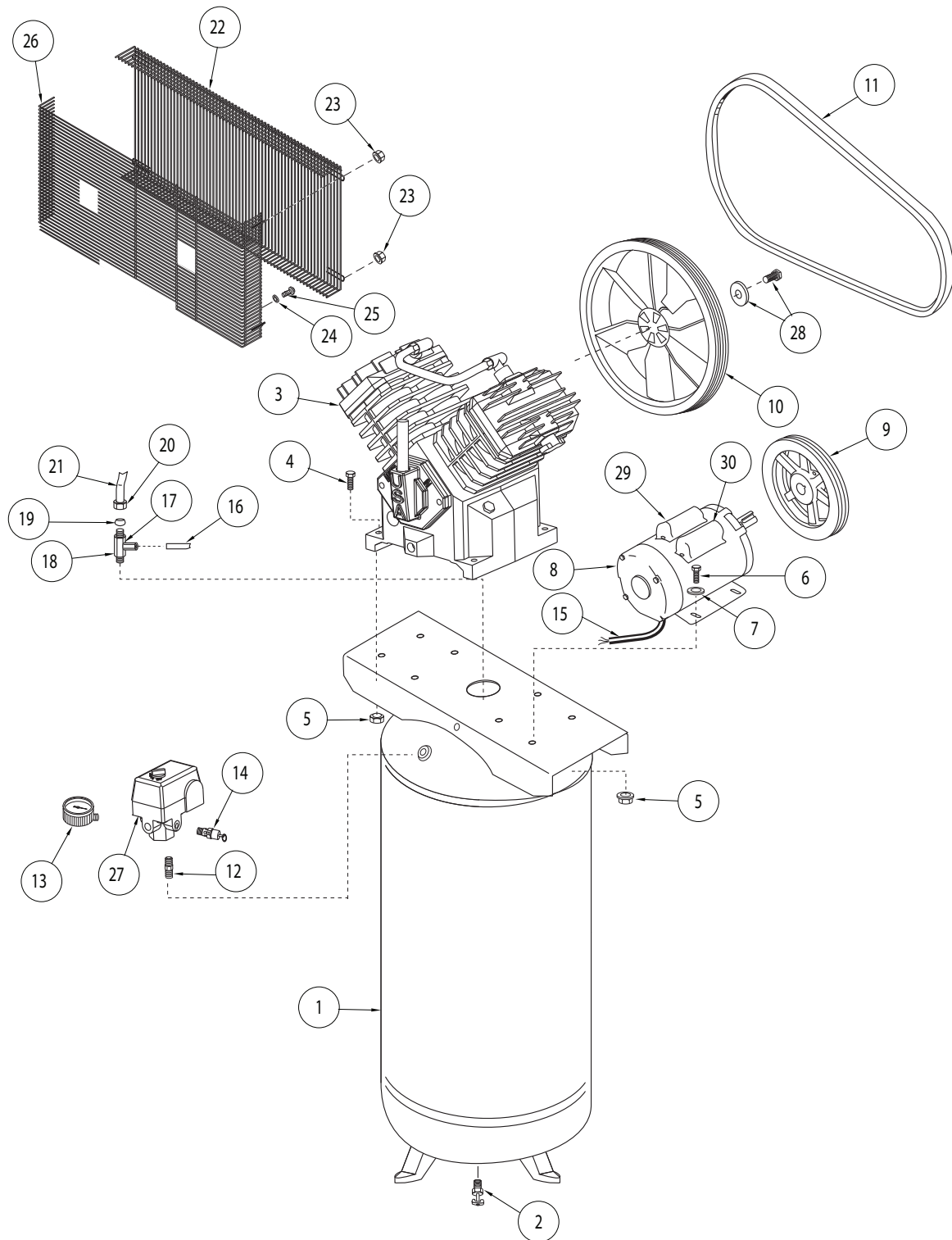
Figure 11 - Top View

Storage

If compressor is to be stored for a short period of time, make sure that it is stored in a normal position and in a cool protected area.

Maintenance Schedule

OPERATION	DAILY	MONTHLY	3 MONTHS
Check Safety Valve	●		
Drain Tank (see Figure 8)	●		
Check Oil Level	●		
Clean or Change Air Filter		●	
Check Intercooler		●	
Clean Unit Components		●	
Check Belt Tightness			●
Change Oil (see Figure 6)			●

REPAIR PARTS ILLUSTRATION FOR FCT05C30V6X-A2X1XX

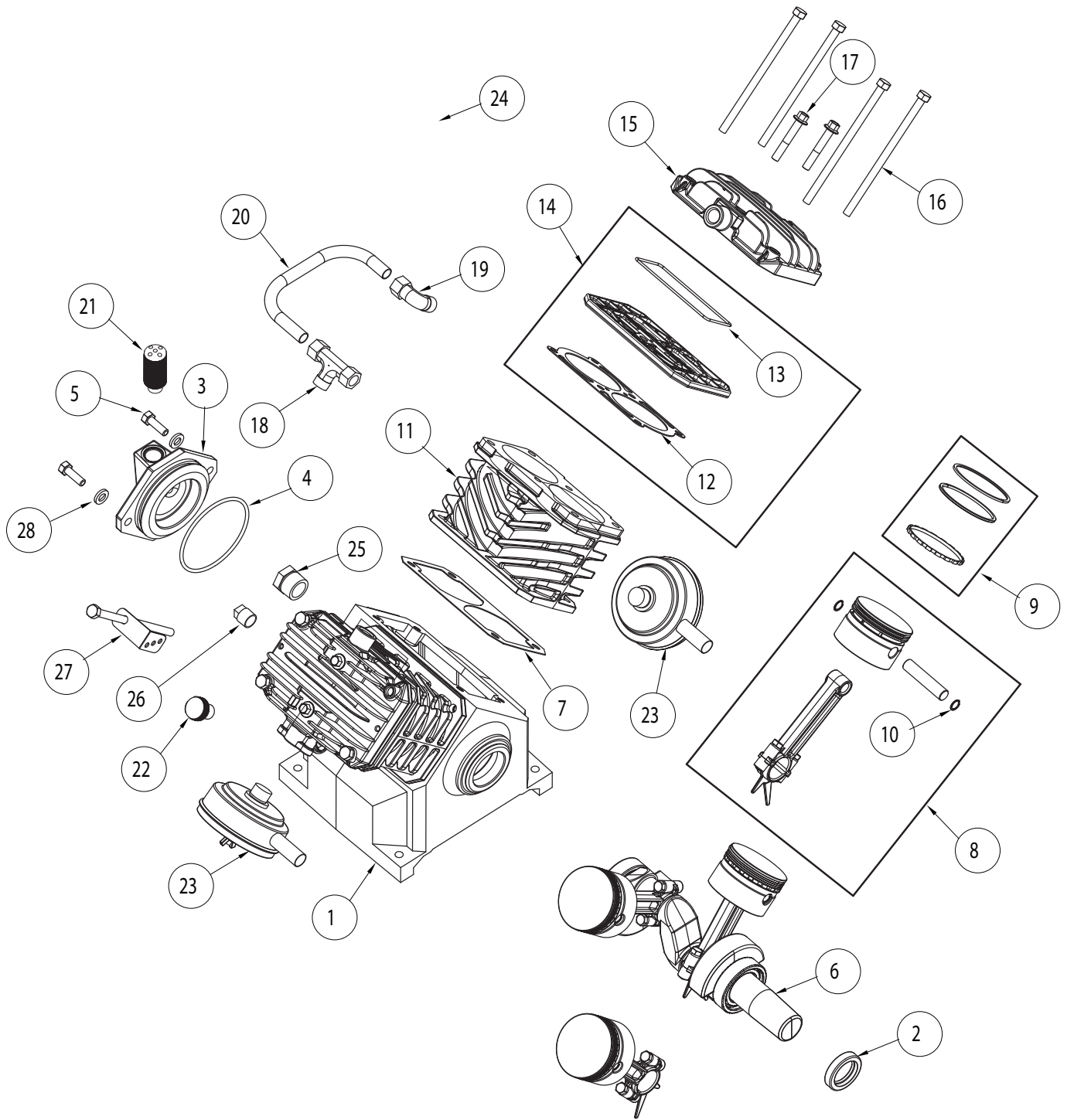
**For Repair Parts, visit www.fscurtis.com to find your local distributor
24 hours a day – 365 days a year**

Please provide following information:

- Model number
- Serial number (if any)
- Part description and number as shown in parts list

REPAIR PARTS LIST FOR FCT05C30V6X-A2X1XX

Ref No	Description	Part Number	Qty
1	AIR TANK	FTKC30V6	1
2	DRAIN VALVE	FC30V6DV	1
3	AIR COMPRESSOR PUMP WITH FLYWHEEL	FC30	1
4	5/16 INCH - 18 X 1-1/2 INCH HEX HEAD BOLT	†	4
5	5/16 IN - 18 LOCKNUT	†	8
6	5/16 INCH - 18 X 3/4 INCH HEX HEAD BOLT	†	
7	5/16 INCH WASHER	†	4
8	ELECTRIC MOTOR	FC30V6EM	1
9	MOTOR PULLEY	FC30V6PY	1
10	FLYWHEEL	FC30V6FW	1
11	BELT	FC30V6B	1
12	PIPE NIPPLE	▲	1
13	PRESSURE GAUGE	▲	1
14	SAFETY VALVE	▲	1
15	ELECTRIC CORD	FC30V6EC	1
16	UNLOADER TUBE	■	1
17	STRAIGHT PUSH CONNECT	■	1
18	CHECK VALVE	■	1
19	1/2 INCH COMPRESSION SLEEVE	■	1
20	1/2 INCH COMPRESSION NUT	■	1
21	DISCHARGE TUBE	■	1
22	FRONT BELTGUARD	▷	1
23	10 - 24 HEX-FLANGE NUT	▷	5
24	5/16 INCH WASHER	▷	2
25	5/16 INCH SELF-TAPPING SCREW	▷	4
26	BACK BELTGUARD	▷	1
27	PRESSURE SWITCH (WITH UNLOADER VALVE)	▲	1
28	FLYWHEEL FASTNER KIT	FC30V6FWK	1
29	CAPACITOR - START	FC30V6CS	1
30	CAPACITOR - RUN	FC30V6CR	1
	WARNING DECAL (NOT SHOWN)	--	1
	PRESSURE SWITCH UNLOADER VALVE (NOT SHOWN)	▲	1
	PRESSURE SWITCH COVER (NOT SHOWN)	▲	1
REPAIR PARTS KITS			
▲	MULTI-PORT PRESSURE SWITCH ASSEMBLY	FSK-C30V6EL	
■	SAFETY VALVE KIT	FSK-C30V6ULK	
▷	BELTGUARD ASSEMBLY	FSK-C30V6BG	
--	NOT AVAILABLE		
†	AVAILABLE AT LOCAL HARDWARE STORE		

REPAIR PARTS ILLUSTRATION FOR FC30

**For Repair Parts, visit www.fscurtis.com to find your local distributor
24 hours a day – 365 days a year**

Please provide following information:

- Model number
- Serial number (if any)
- Part description and number as shown in parts list

REPAIR PARTS LIST FOR FC30

Ref. No.	Description	Part Number:	Qty.
1	CRANKCASE	FC30CC	1
2	OIL SEAL	--	1
3	BEARING CAP	--	1
4	O-RING	▶	1
5	HEX HEAD CAP SCREW M8 X 1-1/4 INCH X 25 MM	†	2
6	CRANKSHAFT BEARING ASSEMBLY (PISTONS NOT INCLUDED)	--	1
7	CRANKCASE GASKET	▶	2
8	CONNECTING ROD ASSEMBLY	■	4
9	PISTON RING SETS (TWO SETS)	FSK-C30V6PR ■	2
10	INTERNAL RETAINING RING	■	8
11	CYLINDER	FC30CYL	2
12	CYLINDER GASKET	▶	2
13	MOLDED O-RING	▶	2
14	VALVE PLATE KIT	FSK-C30V6VK	2
15	CYLINDER HEAD (NOT SHOWN)	--	2
16	HEX HEAD CAPSCREW M8 X 150 MM (NOT SHOWN)	--	8
17	FLANGE HEAD SCREW (NOT SHOWN)	--	4
18	EXHAUST TEE FITTING	FC30V6ETF	1
19	EXHAUST ELBOW FITTING	FC30V6EF	1
20	EXHAUST TUBE	FC30V6ET	1
21	BREATHER	FCT2-BR	1
22	OIL FILL PLUG	--	1
23	AIR FILTER WITH ELEMENT	FCT2-5AFE	2
24	AIR FILTER ELEMENT ONLY	FCT2-5AFA	2
25	SIGHT GLASS	FC30V6SG	1
26	PIPE PLUG 1/4 INCH NPT	--	1
27	BELT GUARD BRACKET	FC30V6BGB	1
28	BRASS WASHER	--	2
REPAIR PARTS KITS			
■	CONNECTING ROD/PISTON RING ASSEMBLY KIT	FSK-C30DK	
▶	GASKET KIT	FSK-C30GK	
--	NOT AVAILABLE		
†	AVAILABLE AT LOCAL HARDWARE STORE		



Reminder: *Keep your dated proof of purchase for warranty purposes! Attach it to this manual or file it for safekeeping.*

LIMITED WARRANTY

1. **DURATION:** The compressor pump and air receiver is warranted for one year from the date of purchase by the original purchaser. The balance of the compressor package is warranted for one year from the date of purchase by the original purchaser.
2. **WHO GIVES THIS WARRANTY (WARRANTOR):** FS-CURTIS, CURTIS-TOLEDO, INC. 1905 Kienlen Avenue, St Louis, Missouri 63133. Visit www.fscurtis.com
3. **WHO RECEIVES THIS WARRANTY (PURCHASER):** The original purchaser (other than for purposes of resale) of the FS-CURTIS, CURTIS-TOLEDO, INC air compressor.
4. **WHAT PRODUCTS ARE COVERED BY THIS WARRANTY:** FS-CURTIS, CURTIS-TOLEDO, INC FCT05C30V6X-A2X1XX air compressor.
5. **WHAT IS COVERED UNDER THIS WARRANTY:** Parts and Labor to remedy defects in material and/or workmanship with the exceptions noted below.
6. **WHAT IS NOT COVERED UNDER THIS WARRANTY:**
 - A. Implied warranties, including those of merchantability and FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED FROM THE DATE OF ORIGINAL PURCHASE AS STATED IN THE DURATION. Some States do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.
 - B. ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE, OR MALFUNCTION OF THE FS-CURTIS, CURTIS-TOLEDO, INC PRODUCT. Some States do not allow the exclusion or limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
 - C. Any failure due to:
 1. Accident or purchaser's abuse
 2. Improper installation
 3. Equipment that has not been operated or maintained in accordance with FS-CURTIS, CURTIS-TOLEDO, INC's instructions as detailed in the operating manual provided with the compressor.
 4. Equipment that has been repaired or modified without authorization from FS-CURTIS, CURTIS-TOLEDO, INC.
 - D. Pre-delivery service, i.e. assembly, oil or lubricants, and adjustment.
 - E. The effects of normal wear and tear.
 - F. Gasoline engines and components are expressly excluded from coverage under this limited warranty. The Purchaser must comply with the warranty given by the engine manufacturer which is supplied with the product.
 - G. Equipment that has been damaged in transit.
7. **RESPONSIBILITIES OF WARRANTOR UNDER THIS WARRANTY:** Repair or replace, at Warrantor's option, compressor or component which is defective, has malfunctioned and/or failed to conform within duration of the warranty period. Warranted repairs will be made at the Purchaser's location.
8. **RESPONSIBILITIES OF PURCHASER UNDER THIS WARRANTY:**
 - A. Provide dated proof of purchase and maintenance records.
 - B. Use reasonable care in the operation and maintenance of the products as described in the owner's manual(s).
 - C. Repairs requiring overtime, weekend rates, or anything beyond the standard manufacturer warranty repair labor reimbursement rate.
 - D. Time required for any security checks, safety training, or similar for service personnel to gain access to facility.
 - E. Location of unit must have adequate clearance for service personnel to perform repairs and easily accessible.
9. **WHEN WARRANTOR WILL PERFORM REPAIR OR REPLACEMENT UNDER THIS WARRANTY:** Repair or replacement will be scheduled and serviced according to the normal work flow at the servicing location, and depending on the availability of replacement parts.

This Limited Warranty applies in the U.S., Canada and Mexico only and gives you specific legal rights. You may also have other rights which vary from State to State or country to country.