

EN



Single Stage Wheelbarrow Air Compressor

Operating Instructions and Parts Manual



Model: FCT02C48H9X-A1X1XX



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 8.5 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 135 psi for single stage compressors. Do not operate with pressure switch or pilot valves set higher than 135 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.
- Do not tamper with governor setting on engine. Overspeeding the unit severely shortens engine life and may also be very hazardous.



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

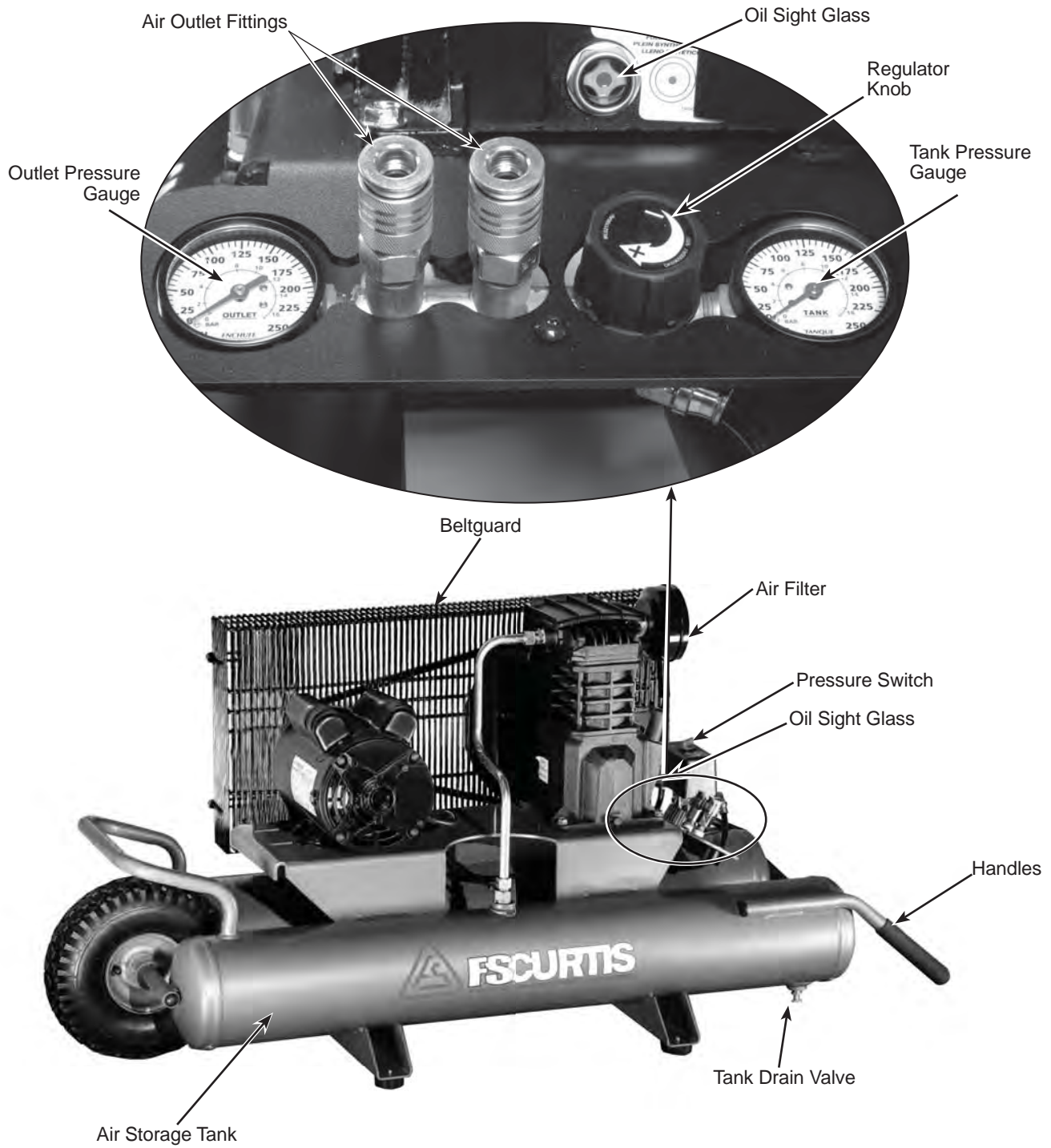


Figure 1 - Unit Identification

SPECIFICATIONS

FCT02C48H9X-A1X1XX

Motor HP	2
Power	120V/240V
Phase	1 (single)
Displacement CFM	7.2
Air Delivery CFM @ 90 PSI	5.5
Air Delivery CFM @ 135 PSI	4.9
Max PSI	135
Pump RPM	1020
Amp Draw	15A / 7.5A
Unit Weight	159 lbs.
Max Duty Cycle	75%
Tank Outlet	1/4in. NPT
Tank Size	9 Gallon

DIMENSIONS

FCT02C48H9X-A1X1XX

Length	48 inches
Width	26 inches
Height	19 inches

INSTALLATION INSTRUCTIONS

GROUNDING

This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances. Do not use grounding adapter.

This product is for use on a nominal 120 volt circuit and has a grounding plug similar to the plug illustrated in Figure 2. If the listed conditions cannot be met or if nuisance tripping of the current protection device occurs, it may be possible to operate the compressor from a 120 volt 20 amp circuit.

Check motor data plate for 240 volt compatibility. A 240 volt unit must be operated on a 240 volt circuit. The cord must only plug into a 240 volt grounded outlet and may require a new cord and plug. See Figure 3.

Use only a 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that accepts the plug on the product. Make sure your extension cord is not damaged. When using an extension cord, be sure to use one heavy enough to carry the current your product draws. For lengths less than 25 ft. 16-3 AWG extension cords shall be used. An undersized cord results in a drop in the voltage and loss of power and overheating. (NOTICE: Table below shows the correct size to use depending on cord length. When in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.)

Use of an extension cord may cause excess heat to motor. This could lead to tripped breaker (at electrical panel) or tripped thermal overload (on compressor motor). If this occurs, eliminate extension cord and plug compressor directly into electrical outlet. Avoid using extension cords; use longer air hose(s) instead.

⚠ WARNING *When converting to an alternate voltage, be sure the green ground wire of the cord connects to the ground pin of the plug and to the metal body of the pressure switch.*

Check with a qualified electrician or serviceman when the grounding instructions are not completely understood, or when in doubt as to whether the product is properly grounded. Do not modify the plug provided; if it does not fit the outlet, have the proper outlet installed by a qualified electrician. Only connect the product to an outlet having the same configuration as the plug. Do not use an adapter with this product.

The 120 volt, 15 amp units can be operated on a 120 volt 15 amp circuit under the following conditions:

1. No other electrical appliances or lights are connected to the same branch circuit.
2. Voltage is 120 volts.
3. Circuit is equipped with a 15 amp circuit breaker or a 15 amp slow blow fuse type T (for Canada use Type D).
4. The length of copper wire between the outlet and circuit breaker is not longer than 40 feet of 14 AWG or 70 feet of 12 AWG.

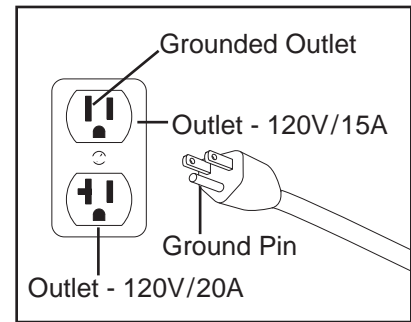


Figure 2 - 120V

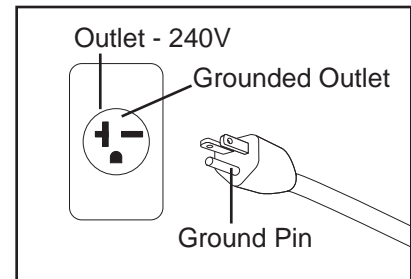


Figure 3 - 240V

Amp Rating Range	Voltage		Cord Length in Feet								
	120V	240V	25 ft.	50 ft.	100 ft.	150 ft.	200 ft.	250 ft.	300 ft.	400 ft.	500 ft.
			50 ft.	100 ft.	200 ft.	300 ft.	400 ft.	500 ft.	600 ft.	800 ft.	1000 ft.
8 - 10			14	10	8	8	6	6	4	4	2
10 - 12			12	10	8	6	6	4	4	2	2
12 - 14			12	8	8	6	6	4	4	2	0
14-16			12	8	8	6	4	4	2	2	0

Plug and Cord Gauges for 120V Operation		
AMPS	CORD	NEMA PLUG
NO MORE THAN 15	3 WIRE 14 GAUGE	125V, 15 AMP
OVER 15 - 18	3 WIRE 14 GAUGE	125V, 20 AMP
OVER 18 - 20	3 WIRE 12 GAUGE	125V, 20 AMP
OVER 20 - 25	3 WIRE 12 GAUGE	125V, 30 AMP

INSTALLATION INSTRUCTIONS (CONTINUED)

Lubrication

CAUTION Before operating compressor, ensure oil is filled to the center of the sight gauge (see figure 4)

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

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 8.5 oz.

Remove cap from oil fill opening. Install breather (found in parts bag with this manual). Check oil level. See specification label on compressor pump for the proper oil capacity and oil type. 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.

Do not use regular automotive oil. Additives in regular motor oil can cause valve deposits and reduce pump life. For maximum pump life, drain and replace oil after 50 hours of use.

OPERATING INSTRUCTIONS

All lubricated compressor pumps discharge some condensed water and oil with the compressed air. Install appropriate water/oil removal

NOTICE equipment and controls as necessary for the intended application.

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

Start-up/Break-in Procedure

WARNING

Risk of Personal Injury. Do not attach air tools to open end of the hose until starting up is completed and the unit checks okay.

WARNING

Risk of Personal Injury. Never disconnect threaded joints with pressure in tank!

1. Check oil level per the Lubrication Section of this manual.
2. Open the bottom tank drain valve (See Figure 5) Turn outlet valve to open air flow.
3. Plug unit in.
4. Move pressure switch lever or knob to the **AUTO** position to run the unit. (See Figure 6)
5. Run the unit for 30 minutes at zero (0) psi (under no load) to break in pump parts.
6. Move the pressure switch lever or knob to **OFF** and turn tank drain valve to shut off air flow. The compressor is now ready for use.
7. Change oil after first fifty (50) hours of operation. Then perform oil changes every three (3) months.

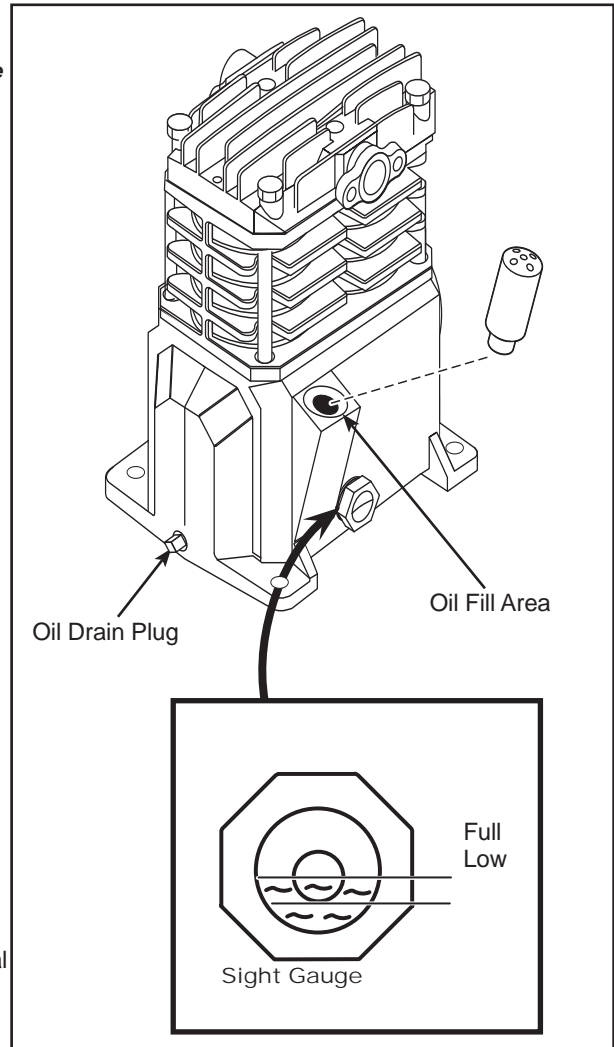


Figure 4 - Lubrication

OPERATING INSTRUCTIONS (CONTINUED)

Compressor Use

It is extremely important to operate the compressor in a clean, well-ventilated area where the surrounding air temperature will not be more than 100 degrees F. Do not locate the compressor air inlet near steam, paint spray, sandblast areas or any other source of contamination.

On/Off Cycling of Compressor

Risk of Bursting. Drain tank every day to prevent corrosion and possible injury due to tank damage. Do not operate drain with more than 40 psi in tank or drain valve may be damaged. Drain tank of moisture daily using the drain valve in the bottom of the tank.

Unit care and maintenance. Drain liquid from tank daily.

In the **AUTO** position, the compressor pumps, the compressor pumps air into the tank. When a shut-off (preset "cut-out") pressure is reached, the compressor automatically shuts off.

If the compressor is left in the AUTO position and air is depleted from the tank by use of a tire check, tool, etc., the compressor will restart automatically at its preset "cut-in" pressure. When a tool is being used continuously, the compressor will cycle on and off automatically.

In the OFF position, the compressor will not operate.

Drain tank. Disconnect, tag, unplug and lock out power source; release pressure.

Drain moisture from tank by opening drain valve underneath tank. (Figure 5)



Figure 5 - Tank Drain



Figure 6 - Pressure Switch

MOISTURE IN COMPRESSED AIR

Moisture in compressed air will form into droplets as it comes from an air compressor pump. When humidity is high or when a compressor is in continuous use for an extended period of time, this moisture will collect in the tank. When using a paint spray or sandblast gun, this water will be carried from the tank through the hose, and out of the gun as droplets mixed with the spray material.

IMPORTANT: This condensation will cause water spots in a paint job, especially when spraying other than water based paints. If sandblasting, it will cause the sand to cake and clog the gun, rendering it ineffective.

A filter or air dryer in the air line, located as near to the gun as possible, will help eliminate moisture.

TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION	
Low discharge pressure	1. Air leaks	1. Listen for escaping air. Apply soap solution to all fittings and connections. Bubbles will appear at points of leakage. Tighten or replace leaking fittings or connections.	
	2. Leaking valves	2. Remove head and inspect for valve breakage, weak valves, scored valve seats, etc. Replace defective parts and reassemble.	
	<div style="border: 1px solid black; padding: 2px; display: inline-block;">CAUTION</div> <i>Be sure that the old head gasket is replaced with a new one each time the head is removed.</i>	3. Restricted air intake	3. Clean the air filter element.
		4. Slipping belts	4. Loosen motor clamping bolts and move the motor in a direction away from the compressor, being sure that the motor pulley is perfectly aligned with the flywheel. Tighten motor clamping bolts. The belt should deflect about 1/2 inch under 5-lbs of pressure. Do not "roll" belts over pulleys
		5. Blown gaskets	5. Replace any gaskets proven faulty on inspection.
		6. Low compression	6. Low pressure can be due to worn rings and cylinder walls. Correction is made by replacing the rings, cylinders, and pistons as required.
Overheating	1. Poor ventilation	1. Relocate the compressor to an area where an ample supply of cool, clean, dry and well-circulated air is available.	
	2. Dirty cooling surfaces	2. Clean the cooling surfaces of pump and motor-engine.	
Excessive belt wear	1. Pulley out of alignment	1. Realign engine pulley with compressor pulley	
	2. Belt too loose or too tight	2. Adjust tension (See Drive Belt Section).	
	3. Belt slipping	3. Adjust tension or replace belt (See Drive Belt Section).	
	4. Pulley wobbles	4. Check for worn crankshaft, keyway or pulley bore resulting from running the compressor or motor with loose pulleys. Check for bent pulleys or bent crankshaft.	
Unit stalls NOTE: Electric models are equipped with a pressure switch that automatically turns the motor OFF when the tank pressure reaches a preset level. After air is used from the tank and drops to a preset low level, the pressure switch automatically turn the motor back on.	1. Overloaded motor	1. Increase idle, refer to engine manual for details	
	2. Improper lubrication	2. See Lubrication section of manual.	
	3. Low oil level	3. Check oil level. Fill if necessary	
	4. Defective check valve	4. Replace	
Excessive noise (knocking)	1. Loose engine or compressor pulley	1. Tighten pulley clamp bolts and set-screws.	
	2. Lack of oil in crankcase	2. Check for proper oil level; if low, check for possible damage to bearings. Dirty oil can cause excessive wear.	
	3. Worn connecting rod	3. Replace connecting rod.	
	4. Worn piston pin bushing	4. Remove piston assemblies from the compressor and inspect for excess wear. Replace excessively worn piston pin or pistons, as required.	
	5. Worn bearings	5. Replace worn bearings and change oil.	

TROUBLESHOOTING GUIDE (CONTINUED)

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Excessive noise (knocking) (Continued)	6. Piston hitting the valve plate	6. Remove the compressor head and valve plate and inspect for carbon deposits or other foreign matter on top of piston. Replace head and valve plate using new gasket.
	7. Noisy check valve	7. Replace.
Oil in the discharge air	1. Worn piston rings	1. Replace with new rings.
	2. Compressor air intake restricted	2. Clean filter. Check for other restrictions in the intake system.
	3. Restricted breather	3. Clean and check breather for free operation.
	4. Excessive oil in compressor	4. Drain down to full level.
	5. Wrong oil viscosity	5. Use FSC-1000A ISO-100 Premium Reciprocating Compressor Lubricant
	6. Connecting rod out of alignment	6. Replace rod.
Air leaking from unloader on pressure switch	Check valve stuck in open position	Remove and replace check valve

⚠ DANGER*Do not disassemble check valve with air in tank.*

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.

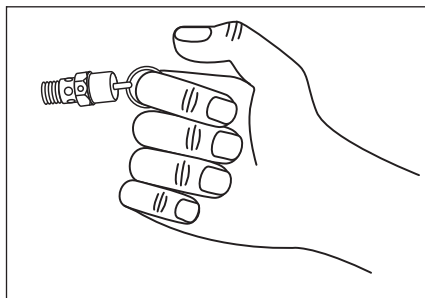


Figure 7 - Safety Valve

⚠ 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 tanks 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 8) 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.

Components

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

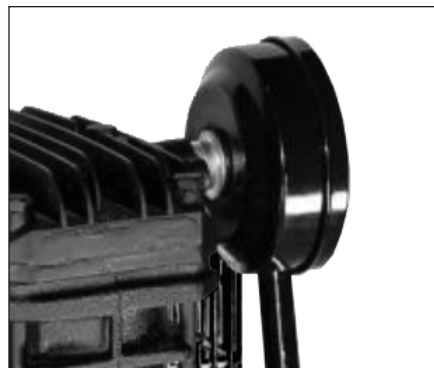


Figure 8 - Air Filter

MAINTENANCE AND INSPECTION INSTRUCTIONS (CONTINUED)

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.

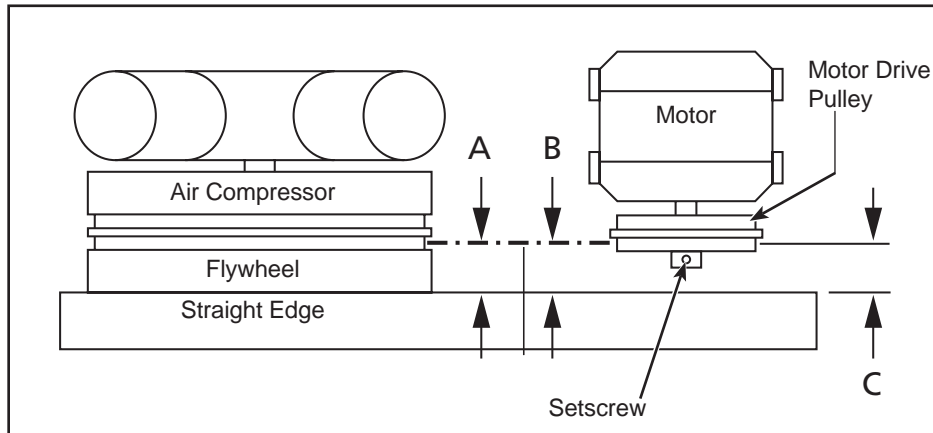


Figure 9 - Top View

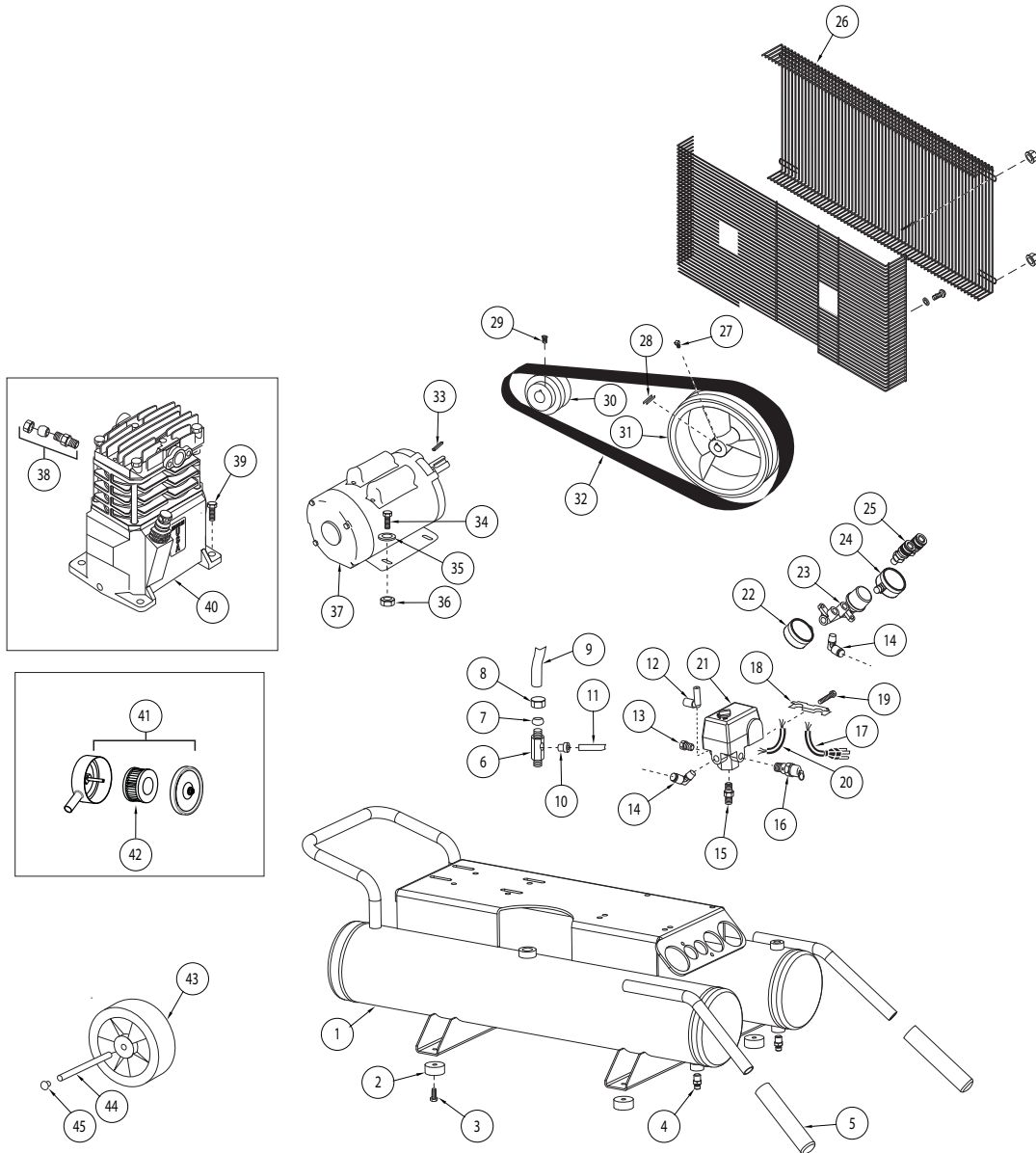
Storage

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	●		
Check Oil Level	●		
Clean or Change Air Filter		●	
Check Intercooler		●	
Clean Unit Components		●	
Check Belt Tightness			●
Change Oil			●

REPAIR PARTS ILLUSTRATION FOR FCT02C48H9X-A1X1XX



Ref No	Description	Part Number	Qty
1	TANK	--	1
2	RUBBER FOOT	■	4
3	SCREW	■	4
4	DRAIN VALVE	--	2
5	HANDLE GRIP	■	2

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

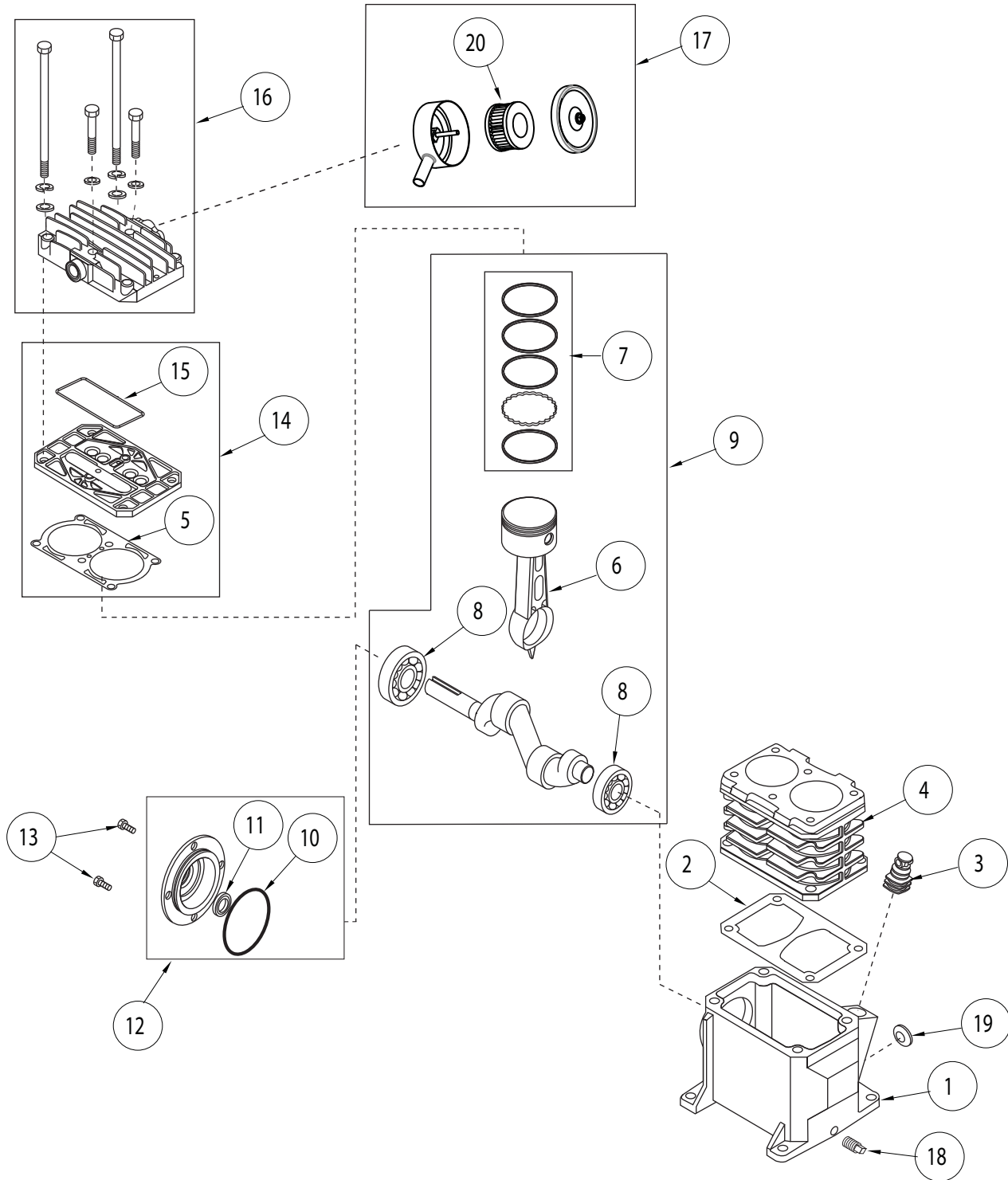
Please provide following information:

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

REPAIR PARTS LIST FOR FCT02C48H9X-A1X1XX

Ref No	Description	Part Number	Qty
6	CHECK VALVE	●	1
7	FERRULE	●	1
8	COMPRESSION NUT	●	1
9	EXHAUST TUBE	●	1
10	PUSH-IN FITTING	●	1
11	UNLOADER TUBE	●	1
12	UNLOADER	●	1
13	1/4" PLUG	●	1
14	ELBOW	●	2
15	NIPPLE	●	1
16	SAFETY VALVE	●	1
17	POWER CORD	▲	1
18	STRAIN RELIEF	●	1
19	STRAIN RELIEF SCREW	●	1
20	MOTOR CORD	●	1
21	PRESSURE SWITCH	▲	1
22	OUTLET GAUGE	▲	1
23	REGULATOR	▲	1
24	TANK GAUGE	▲	1
25	COUPLER	▲	2
26	BELT GUARD ASSEMBLY	◆	1
27	3/8" SET SCREW	◆	1
28	3/16" KEY	◆	1
29	1/4" SET SCREW	◆	1
30	PULLEY	◆	1
31	FLYWHEEL	◆	1
32	BELT	FC48H9B	1
33	KEY	--	1
34	MOTOR BOLT	--	4
35	5/16" WASHER	--	4
36	5/16" NUT	--	4
37	ELECTRIC MOTOR	FC48H9EM	1
38	COMPRESSION FITTING ASSY	FCT2-5CCA	1
39	TAPPING SCREW	--	4
40	PUMP	FC48	1
41	FILTER	FCT2-5AFA	1
42	FILTER ELEMENT	FCT2-5AFE	1
43	WHEEL	■	1
44	AXEL ROD	■	1
45	PLUG	■	2
REPAIR PARTS KITS			
■	WHEEL/HANDLE KIT	FSK-C48H9HD	
●	CHECK VALVE/UNLOADER KIT	FSK-C48H9ULK	
▲	REGULATOR/PRESSURE SWITCH KIT	FSK-C48H9EL	
◆	BELT GUARD/FLYWHEEL KIT	FSK-C48H9BG	
--	NOT AVAILABLE		
†	AVAILABLE AT LOCAL HARDWARE STORE		

REPAIR PARTS ILLUSTRATION FOR FC48



**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 FC48

Ref No	Description	Part Number	Qty
1	CRANKCASE	--	1
2	CRANKCASE GASKET	■	1
3	BREATHER	FCT2-BR	1
4	CYLINDER	--	1
5	CYLINDER GASKET	■	1
6	CONNECTING ROD AND PISTON ASSEMBLY	--	2
7	PISTON RING SET	--	2
8	BALL BEARING	--	2
9	CRANKSHAFT, BEARINGS, RODS, PISTON ASSEMBLY	FSK-C48DK	1
10	O-RING	■	1
11	OIL SEAL	--	1
12	BEARING CAP ASSEMBLY	--	1
13	M6 X 10 MM SCREW	†	4
14	VALVE PLATE ASSEMBLY	FSK-C48VK	1
15	VALVE PLATE MOLDED SEAL	■	1
16	CYLINDER HEAD AND FASTENERS	--	1
17	AIR FILTER ASSEMBLY	FCT2-5AFA	1
18	1/8 IN.-27 OIL DRAIN PLUG	--	1
19	SIGHT GLASS	FCT02SG	1
20	AIR FILTER ELEMENT	FCT2-FAFE	1
REPAIR PARTS KITS			
■	GASKET KIT	FSK-C48GK	
--	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 FCT02C48H9X-A1X1XX 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.