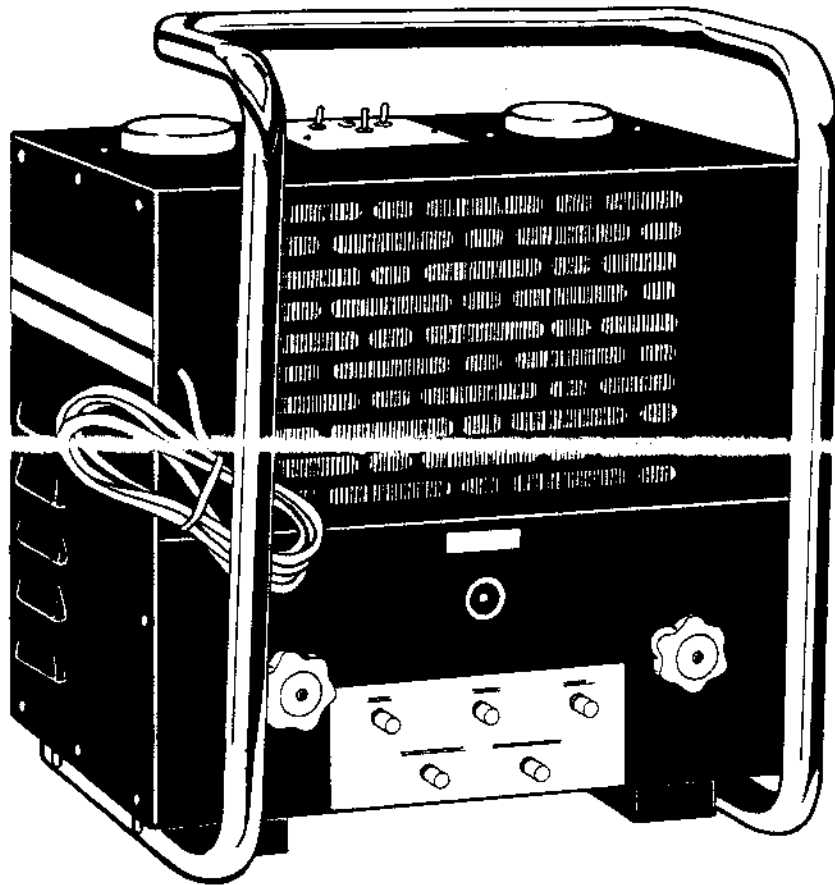


MODEL 7500 EXTRACTOR

REFRIGERANT RECOVERY CENTER



OPERATING INSTRUCTIONS

FOR USE WITH "P" SERIES RECOVERY UNITS

Thermal
ENGINEERING COMPANY

2022 ADAMS STREET • TOLEDO, OHIO 43624

MODEL 7500 EXTRACTOR

REFRIGERANT RECOVERY CENTER

READ INSTRUCTIONS CAREFULLY BEFORE USING

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NOTE: This instruction manual is for units with serial numbers beginning with the letter "P".

MODEL 7500 EXTRACTOR REFRIGERANT RECOVERY CENTER

OPERATING INSTRUCTIONS

Model 7500 Refrigerant Extractor was designed for removing refrigerants R-12, R-22, R-500, and R-502 in either liquid or gas form. This unit will remove refrigerant from a system and put it into an external storage tank. It does not reclaim or recycle refrigerant. The Refrigerant Extractor has no internal storage capacity.

SPECIFICATIONS

VOLTAGE:	115 VAC 60Hz	REMOVAL RATE:	3/4 lb/min
CURRENT:	6 A	CIRCUIT BREAKER:	10 A
COMPRESSOR:	1/2 HP Cap Start	FILTER AREA:	10 cubic inches
SIZE:	12"L x 16"W x 17"H	WEIGHT:	73 lbs.

REFRIGERANTS: R-12, R-22, R-500 AND R-502

DESIGN PRESSURE: HIGH 310 PSIG, LOW 225 PSIG

This unit should be operated by qualified air conditioning and refrigeration service technician only. Improper use of this unit can cause personal injury. Read instructions carefully before using. Use only approved refillable storage cylinders. Do not overfill any storage cylinder beyond its rated capacity. Do not use disposable cylinders. Use only R-12, R-22, R-500, or R-502 for the 7500. Never mix different refrigerants.

Take proper safety precautions when using the Model 7500. Wear safety glasses and protect skin from flash freezing. Hoses may contain liquid refrigerant under pressure. Use extreme caution when working with refrigerants.

This equipment should be used in locations with mechanical ventilation that provides at least four air changes per hour or the equipment should be located at least 18 inches (457mm) above the floor. Do not operate in the vicinity of spilled or open container of gasoline.

CAUTION: HIGH VOLTAGE ELECTRICITY INSIDE COVER. RISK OF ELECTRIC SHOCK. DISCONNECT POWER BEFORE SERVICING UNIT. MOVING PARTS. HOT PARTS. DO NOT OPERATE WITH COVER REMOVED.

WARNING: TO REDUCE THE RISK OF FIRE, avoid the use of an extension cord because the extension cord may overheat. If an extension cord must be used, the cord should be 14 AWG minimum and as short as possible.

Compressor Motor Thermally Protected.

CONTROL PANEL AND CABINET LAYOUT

POWER SWITCH: Controls power to the Extractor. When the switch is in the ON position, the condenser fan will run and the compressor can be started.

COMPRESSOR SWITCH: Engages the power relay and starts the Extractor compressor. If the compressor shuts down due to low or high pressure cutout, tripped circuit breaker or power outage, it will not restart until the power relay is reset with this switch. This prevents the compressor from short cycling and trying to start against load if pressure in the unit has not been equalized.

COMPRESSOR LAMP (AMBER): Indicates that the compressor is running.

MODE SWITCH: Controls internal solenoid valves. See GENERAL NOTES.

CIRCUIT BREAKER (10A): Push to reset.

LOW PRESSURE GAUGE: Indicates pressure in suction line of the Extractor's compressor.

HIGH PRESSURE GAUGE: Indicates pressure in the liquid outlet line.

MOISTURE INDICATOR: Shows condition of refrigerant before entering the storage tank. See SIGHT GLASS AND MOISTURE INDICATOR section.

INLET VALVE and FITTING: Controls refrigerant flow into the Extractor valve.

OUTLET VALVE and FITTING: Controls refrigerant flow out of the Extractor. An internal check valve prevents refrigerant flow into the OUTLET valve.

EQUALIZATION SWITCH: Equalizes high and low side pressures within the Extractor. Pressures must be within 25 PSI for the unit to start properly.

VACUUM FITTING: Provides a connection for the vacuum pump and allows evacuation of hoses and the Extractor. Isolation valve must be connected between the vacuum fitting and the vacuum pump.

COMPRESSOR CRANKCASE SIGHT GLASS: Located in the rear of the Extractor. Allows the compressor oil level to be monitored.

TANK CUTOFF SOCKET: Located on top of unit near high pressure gauge. Connection for storage tanks with float switch.

CRANKCASE OIL OUTLET FITTING: Allows the compressor oil to be changed. This fitting should always be capped when not being used.

OIL TRAP OUTLET FITTING: Allows the oil trap to be drained. This fitting should always be capped when not being used.

GENERAL NOTES AND PRECAUTIONS

Refrigerant should be removed from systems as a liquid whenever possible. When refrigerant is removed as a gas, the removal process will take much longer. Boiling the liquid refrigerant into a gas reduces its pressure and temperature thus slowing the recovery process.

This unit uses two internal in-line filters to protect the compressor. These filters will not clean refrigerant sufficiently for reuse. Refrigerant removed with the Extractor must be recycled before reusing. When recovering refrigerant from a system that is a burnout or a suspected burnout, a large filter should be used at the inlet to protect the Extractor from contamination. The Model 75PKS Prefilter Kit is recommended and provides a 48 cu. in. replaceable filter core.

The MODE switch controls two internal solenoid valves. In the WARM UP position, the outlet is connected to the inlet to allow refrigerant to circulate and the unit to warm up. The RECOVERY position is used for liquid or vapor recovery. The refrigerant being recovered passes through the expansion valve which limits the compressor suction pressure to a safe level. The BYPASS position is used to bypass the expansion valve when the pressure is below 30 PSI. This improves flow rate at lower vapor pressures.

MODE SWITCH USE: CAUTION - The MODE switch must be in the RECOVERY position during gas or liquid refrigerant recovery. The BYPASS position is used only when the low side gauge falls below 30 PSI. Use of the BYPASS position at pressures above 30 PSI can damage this unit.

INLET (RIV) and OUTLET (ROV) valves should always remain closed and flare caps in place until the Extractor is used.

Good sealing brass flare caps should always be used on this unit. The flare caps seal is especially important during evacuation as the valve cores will not hold a vacuum.

This unit has a processing rate of up to 3/4 lb/min when removing liquid. The rate will be considerably slower when recovering gas. The removal rate of the Extractor will vary for field applications. The type of refrigerant, ambient temperatures, and system connections will all have an effect on flow rate.

During normal operation the Extractor will shut down automatically when all refrigerant is removed from a system. The low side gauge will read 0 PSI to 10 inches vacuum.

The Extractor must not be used on systems known to have water mixed in with the refrigerant. The Extractor cannot process refrigerant containing liquid water as, for example, on a system with a water cooled condenser that has a ruptured tube.

The Model 7500 is supplied with two valves: An isolation valve to isolate a vacuum pump from the vacuum fitting and a valve core depressor for draining oil from the oil outlet fittings.

Use only refrigerant hoses that have a good sealing gasket in the quick couplers. The outer jackets of the charging hoses must also be in good condition.

Two refrigeration hoses are supplied with Model 7500. These hoses have a shut off fitting on one end of each hose. The fitting will close whenever the hoses are disconnected. Shut off hoses have snap rings that hold the shut off valve together, if these valves are tightened too much these snap rings may come out of the groove that holds the valve assembly together.

SIGHT GLASS AND MOISTURE INDICATOR

Liquid refrigerant can be viewed in the sight glass just before it enters the storage tank. This shows the condition of the refrigerant after it has passed through the oil trap and both filters. The moisture content of the refrigerant at this point is determined by the condition of the filter-driers and the initial condition of the refrigerant before removal.

The moisture indicator color indicates moisture content: Dark green for dry, chartreuse for caution, yellow for wet.

NOTE: The moisture indicator may show caution (chartreuse) or wet (yellow) when the Extractor is not in use. When this happens the filters need to be replaced.

resulting in a light yellow or white color. This type of damage is permanent. The indicator material will no longer change color.

The sight glass color element is replaceable.

STORAGE TANKS

The Model 7500 must be used with a Thermal refillable storage tank equipped with a float switch to prevent overfilling of the tank. The attachment cord plugs into the front of the Extractor and to the top of the float switch on the tank. The Extractor will not operate unless the tank is plugged in. The unit cannot be operated with storage tanks that do not have the float switch.

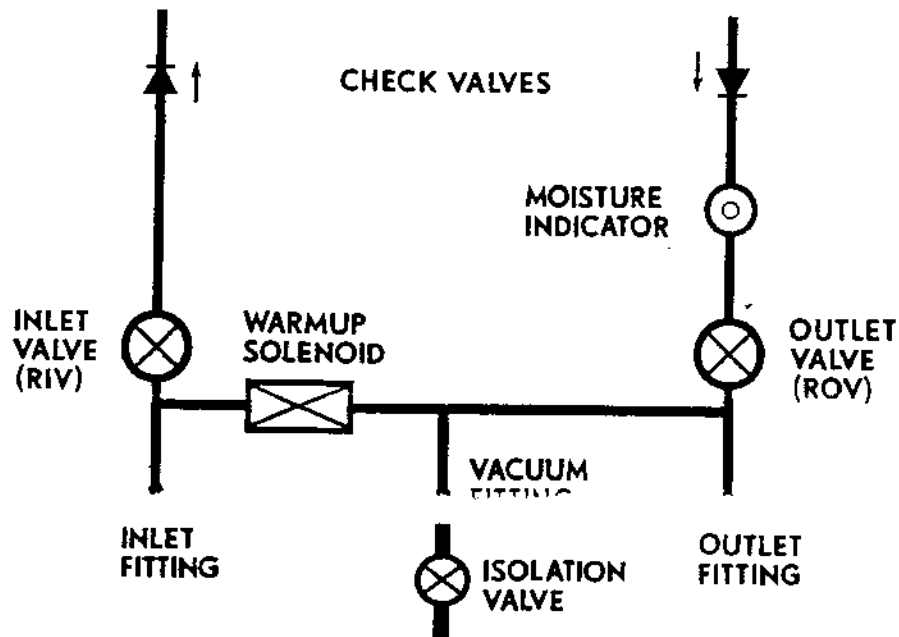
The storage tank float switch will shut down the Extractor when the tank becomes full. The unit will not operate until the full storage tank is replaced with a tank that is not full.

Use only Thermal DOT approved refillable storage tanks. DO NOT USE disposable refrigerant tanks. Disposable tanks could explode and cause injury.

Thermal refillable tanks have both liquid and vapor valves. Use the vapor valve for recovery. Using the liquid valve will cause the Extractor outlet pressure to rise. This will slow the recovery process and may cause the high pressure safety switch to engage, shutting down the Extractor.

Under certain conditions such as high ambient temperatures, it may be necessary or advisable to use ice or cold water to cool down the storage tank to facilitate refrigerant removal. If the high pressure safety switch shuts down the Extractor before the storage tank is full, the tank should be cooled to reduce the tank pressure.

Empty storage tanks should be evacuated and charged before each use. Charge the empty tank using the same type of refrigerant that is to be recovered until the tank is at ambient pressure. If an empty tank under vacuum is used, the initial surge of refrigerant into the Extractor could cause liquid to slug the compressor.



MODEL 7500 VALVE PIPING DIAGRAM

INITIAL STARTUP PROCEDURE

NOTE: This unit has been factory charged with nitrogen which must be removed before using the extractor.

1. Connect the Extractor to power, plug in the storage tank and turn the POWER switch ON. Put the MODE switch into the BYPASS position. The storage tank with the float switch should not have any refrigeration hoses connected to it at this time.
2. Remove the flare cap from the refrigerant OUTLET fitting and open the refrigerant OUTLET valve to remove the nitrogen.
3. When the nitrogen has been removed, put the flare cap back on the OUTLET fitting. The cap should be snug.
4. Connect the ISOLATION valve to the VACUUM fitting and a vacuum pump to the valve.

5. Connect a cylinder containing the type of refrigerant to be charged with to the refrigerant INLET fitting. Use the vapor valve of the cylinder. The cylinder valve should be closed.
6. Open the INLET valve. The OUTLET valve should remain open.
7. Turn on the vacuum pump and open the ISOLATION valve. Evacuate the Extractor to 300 microns.
8. Close the ISOLATION valve. The Extractor should hold approximately 500 microns or lower for five minutes. If the unit does not hold a vacuum, check hose and flare connections.
9. Open the refrigerant cylinder valve and allow gas to enter the Extractor. Hold the EQUALIZE switch in the EQUALIZE position until the pressures equalize and the gas stops flowing into the EXTRACTOR.
10. Close the refrigerant cylinder valve.
11. Set the MODE switch to WARMUP.
12. Hold the START switch in the START position. When the compressor starts, release the switch. Allow the unit to run for five minutes.
13. Close the OUTLET valve. The Extractor will pull in the refrigerant gas left in the hose and will shut down under low pressure.
14. Turn the MODE switch to OFF, disconnect hoses and cap the flare fittings.

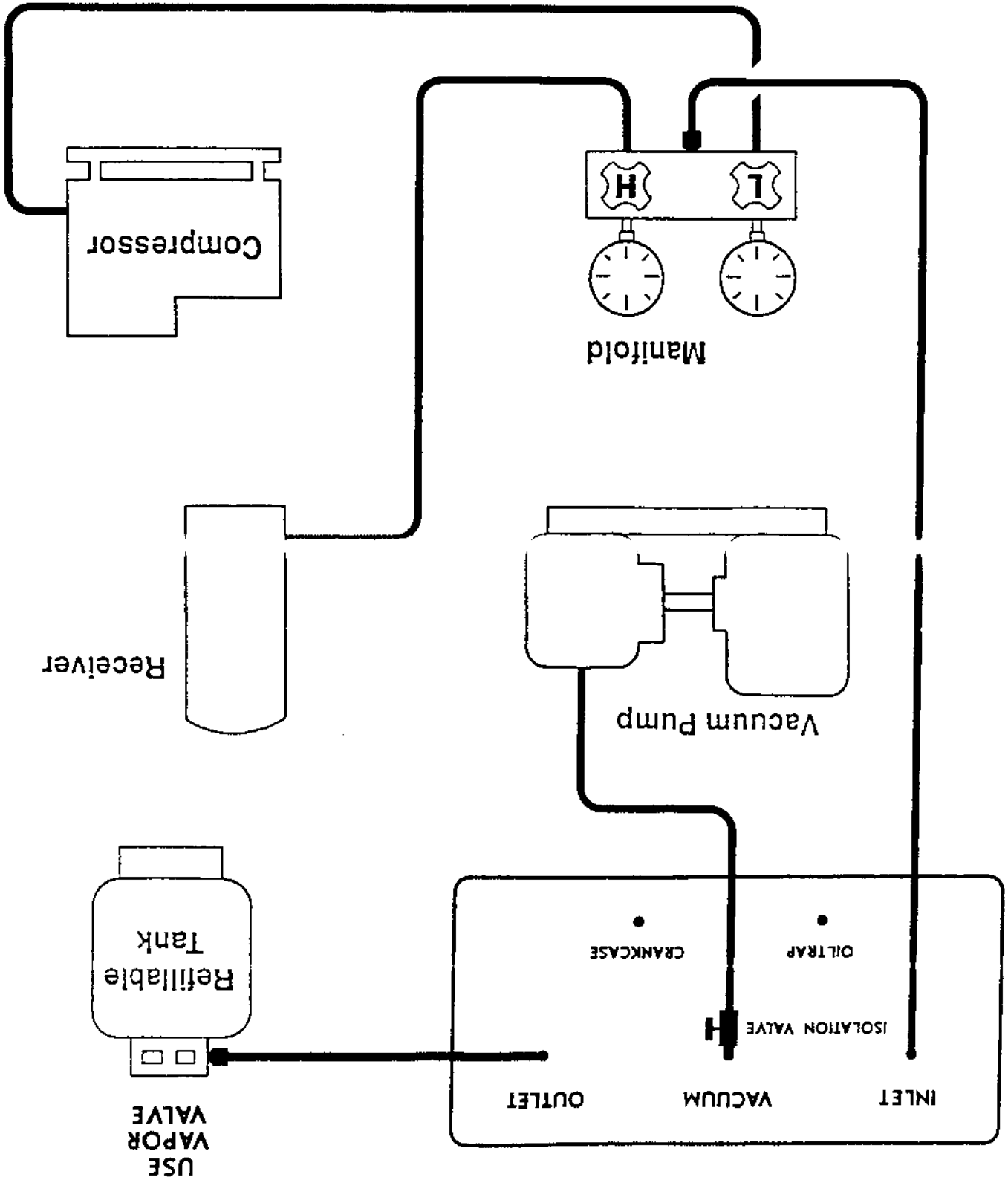
When recovering the same refrigerant, it is not necessary to evacuate and charge the Extractor each time. The unit will contain enough refrigerant for proper warm up from the previous use. However, if the unit was used on a system with an electrical burnout, it is advisable to evacuate and charge before the next use. When removing a different refrigerant, follow the Initial Startup Procedure. The Extractor must be evacuated and charged with the refrigerant that is to be recovered.

RECOVERY PROCEDURE

The system from which refrigerant is being removed must be OFF. Do not remove refrigerant while the system is operating.

1. The Extractor INLET and OUTLET valves should always remain closed until used.
- 2A. To remove liquid, connect the high side hose of the service manifold to the liquid receiver or access fitting on liquid line.
- 2B. To remove gas, connect to the compressor discharge service valve.
3. Connect the low side hose of the manifold to the suction line service valve of the compressor.
4. Purge the air from the hoses and close both manifold valves.

MODEL 7500 CONNECTIONS



MODEL 7500

5. Connect the manifold center hose to the INLET fitting. The shut off fitting connects to the manifold center fitting.
6. Connect the OUTLET fitting to the vapor valve of the Thermal storage tank being used. The Shut off fitting connects to the tank. Plug in float switch cable into both the Thermal storage tank and the Extractor. The tank should be upright.
7. Connect the ISOLATION valve to the EVACUATION fitting and a vacuum pump to the valve.
8. Connect the Extractor to power and turn the POWER switch ON. Put the MODE switch into the WARM UP position.
9. Turn on the vacuum pump and open the ISOLATION valve to evacuate the hoses to the manifold and storage tank.
10. The storage tank can be evacuated by opening the vapor valve on the tank. The vapor valve should remain closed if the tank contains refrigerant or has been previously evacuated.
11. Close the ISOLATION valve and turn off the vacuum pump. If the storage tank contains refrigerant skip to step 13.
12. If the storage tank has been evacuated and is empty, open the manifold valves to allow refrigerant from the system to pressurize the storage tank. After the pressures equalize, close the manifold and storage tank valves.
13. Open the INLET and OUTLET valves on the Extractor.
14. Hold the EQUALIZE switch in the EQUALIZE position until the pressures in the Extractor equalize. Release switch.
15. The MODE switch should still be set to WARM UP. Hold the START switch in the START position. When the compressor starts, release the switch. Allow the unit to run for five minutes.
- 16A. Recovering Liquid: Set the MODE switch to RECOVERY. Open the storage tank vapor valve and the manifold high side valve. When the Extractor's low side gauge drops steadily, open the manifold low side valve. Once the Extractor's low side gauge drops below 30 PSI set the MODE switch to BYPASS.

CAUTION: Recovering liquid refrigerant with the MODE switch in the BYPASS position can slug the compressor with liquid refrigerant and damage the unit.

- 16B. Recovering Gas: Set the MODE switch to RECOVERY. Open the storage tank vapor valve and the manifold low and high side valves. Once the Extractor's low side gauge drops below 30 PSI set the MODE switch to BYPASS.

CAUTION: If the MODE switch is in the BYPASS position when the low side pressure exceeds 30 PSI, the Extractor may shut down on compressor overload or high pressure cutoff.

17. Low side pressure will drop until the Extractor shuts down automatically.
18. Close storage tank and manifold valves.
19. Equalize the pressure in the Extractor using the EQUALIZE switch.
20. Set the MODE switch to WARM UP and restart the Extractor.
21. Allow the Extractor to run for one minute. Close the OUTLET valve. The unit will remove the refrigerant trapped in the hoses.
22. When the Extractor shuts down, close the INLET valve and turn the POWER switch OFF. The system is now ready to be serviced.

DRAINING OIL TRAP

The Oil Trap removes contaminated oil from the refrigerant being recovered. The Extractor should be drained after every use. Use the valve core depressor to push in the valve core in the OIL TRAP OUTLET fitting. The refrigerant pressure in the Extractor will push the oil through the outlet fitting. Use caution when draining the oil. Measure the oil drained to determine the approximate amount of oil removed from the system. Add new refrigeration oil to the system to replace the contaminated oil removed.

NOTE: Failure to drain the OIL TRAP can allow the contaminated oil to

HIGH PRESSURE SAFETY SWITCH

The Extractor has a built-in high pressure switch that will shut down the unit when the refrigerant outlet pressure exceeds 350 PSI. This is a safety feature only and should not be used on a regular basis for filling storage tanks. It will not prevent overfilling of the storage tank. The overfilling of any storage tank beyond its rated capacity can cause the tank to explode or burst.

If the Extractor shuts down, check the storage tank. If the tank is full, replace with an empty tank. If storage tank is not full, determine the cause of high pressure shutdown. If the OUTLET fitting was connected to the liquid valve of a two valve storage tank, reconnect to the vapor valve. If high ambient temperatures caused the shutdown, the tank will need to be cooled to continue recovery.

CRANKCASE SIGHT GLASS AND OIL OUTLET

The compressor is equipped with a crankcase sight glass. The sight glass should be approximately one third full to one half full (measured from the bottom) when the Extractor is recovering refrigerant. The sight glass reading can be used when the unit is off after high and low side pressures have equalized. **NOTE:** Do not use the sight glass reading for the compressor while the Extractor is under a vacuum. The sight glass may indicate a high oil level.

If the oil level drops to the bottom of the sight glass, add oil to the compressor. If the oil level starts to rise steadily, the Oil Trap may be full and system oil may be entering the compressor. If this has occurred, drain the Oil Trap and change the compressor crankcase oil. Oil acid tests should be performed periodically on the compressor crankcase oil to determine the condition of the oil. If the oil tests marginal or bad, it should be changed. **NOTE: COMPRESSORS THAT FAIL DUE TO LACK OF OIL WILL NOT BE WARRANTED.**

To Drain the Compressor Crankcase: Use the supplied valve core depressor to push in the valve core in the CRANKCASE OIL OUTLET fitting. This fitting is located below the OUTLET fitting. The refrigerant pressure in the Extractor will push the oil through the CRANKCASE OIL OUTLET fitting. Use caution when draining the oil. Replace with 150 viscosity Refrigeration Oil.

To Add Oil to the Compressor Crankcase: New oil can be pumped directly into the compressor crankcase by using a refrigeration oil pump that can pump against pressure such as the Model 1702 Charge-Oil Pump. Purge the connecting hose from the oil pump with oil to remove air. Connect the hose to the core depressor valve on the CRANKCASE OIL OUTLET fitting and depress the valve core. Oil can now be pumped into the compressor. Add oil until the compressor sight glass is approximately one third to one half full (Usually requires 8 to 10 ounces of oil, if the compressor has been completely drained). If the oil level appears low while recovering a large quantity of refrigerant, oil can be added while the Extractor is operating.

To Add Oil to the Compressor Crankcase: The vacuum in the Extractor can be used to pull new oil into the compressor. Connect a short hose to the core depressor valve. Place the remaining end of the hose into the container of oil. Depress the valve core in the CRANKCASE OIL OUTLET fitting until 8 ounces of oil is drawn into the compressor. **NOTE:** Do not use the sight glass reading while the Model 7500 is under a vacuum. The sight glass may indicate a high oil level.

CHANGING REFRIGERANT TYPE AND FILTERS

Refrigerant must be removed from the Extractor before changing refrigerant types or the internal filters. Refrigerant can be removed from the Extractor using a second Extractor or recovery unit. Remove the refrigerant through the OUTLET fitting with the POWER switch ON, the MODE switch in the BYPASS position and the OUTLET valve open. If another unit is not available, refrigerant release to the atmosphere can be minimized by following the procedure below.

1. Connect the Extractor to power, plug in the storage tank and turn the POWER switch ON. Put the MODE switch into the WARMUP position. Both ROV & RIV valves remain closed. The colder the storage tank, the more refrigerant will be removed.
2. The storage tank must contain the same type of refrigerant that is in the Extractor. Connect the tank to the OUTLET fitting. The shut off end of the hose connects to the vapor valve of the tank. The cylinder valve must be closed. Place a flare cap on the INLET fitting.

3. Connect the ISOLATION valve to the VACUUM fitting and a vacuum pump to the valve.
4. Turn on the vacuum pump and open the ISOLATION valve. Evacuate the hose. Close ISOLATION valve.
5. Open the ROV valve and allow gas to enter the hose. Open the RIV valve. Hold the EQUALIZE switch in the EQUALIZE position until the pressures equalize.
6. Set the MODE switch to WARMUP.
7. Hold the START switch in the START position. When the compressor starts, release the switch. Allow the unit to run for five minutes.
8. Set the MODE switch to the RECOVERY position. Open the valve on the storage tank. When the Extractor shuts down on low pressure, close the valve on the storage tank.
9. Repeat steps 6-8 several times until the Extractor will not push any more refrigerant into the storage tank. Do not equalize the unit after the last run. Close the RIV valve. The pressure on the high side gauge will drop with each run. When the pressure does not drop, no more refrigerant can be pushed into the storage tank.
11. Replace the storage tank with one that is empty and evacuated, (refrigerant will not escape from the Shut off hose) and open the valve on the storage tank. The more refrigerant the unit has, the larger the evacuated tank, the more refrigerant will be removed.
12. Allow the remaining refrigerant to flow from the Extractor into the evacuated storage tank. When all refrigerant flow stops, close the valve on the storage tank and purge any remaining refrigerant left in the Model 7500.
13. Whenever changing the filters, disconnect the unit from power before removing the cabinet cover. See SAFETY WARNING, page 1.
14. To change filters, remove the louvered cabinet cover. The filters are near the compressor. Use two wrenches to remove the old filters, one on the filter and one on the flare nut. Replace with Part No. 7552 filters, carefully tighten flare nuts using two wrenches and reattach the cabinet cover. Dispose of the used filters properly.
15. When changing refrigerant types or after changing filters, follow INITIAL STARTUP PROCEDURE, page 5.

CHANGING STORAGE TANKS DURING RECOVERY

When the storage tank becomes full, the Extractor will shut down and will not operate until the tank has been replaced. The replacement tank can contain refrigerant (Do Not Mix Refrigerants) but must not be full.

1. Close storage tank valve and manifold valves. Set Mode Switch to warmup and equalize the Extractor, equalizing will minimize the amount of gas that may be released when replacing tanks. Disconnect the Shut off end of the hose from the tank. Care must be taken when removing the refrigeration hose, some liquid refrigerant may be released from the hose even with the shut off fitting.
2. Unplug the float switch cable from the full tank and plug back into the next tank. This tank needs to be evacuated and precharged with the same refrigerant.
3. Connect the shut off end of the hose from the Extractor's refrigerant OUTLET fitting to the vapor valve of the next tank.
4. Follow steps 15 through 22 of the RECOVERY PROCEDURE.

MAINTENANCE

The Extractor contains two replaceable internal filter driers. The filters should be replaced if the flow rate of the unit is significantly reduced or a high acid level is indicated in the compressor oil. Refrigerant must be removed from the Extractor before changing the filters. See CHANGING REFRIGERANT TYPE AND FILTERS. The compressor oil should be changed whenever changing filters. Replace filters with Part No. 7552 replacement filters, Sporlan C-052-HH or equivalent.

Oil the fan motor every six to twelve months.

ACCESSORIES

PART # DESCRIPTION:

- | | |
|-------|---|
| 7552 | Set of Two Replacement Filters for Model 7500. |
| 75PKS | Prefilter kit for Model 7500. |
| 8025 | Dual Valve 25 lb. DOT approved Refillable Storage Tank With Float Switch. |
| 8050 | Dual Valve 50 lb. DOT approved Refillable Storage Tank With Float Switch. |

LIMITED WARRANTY

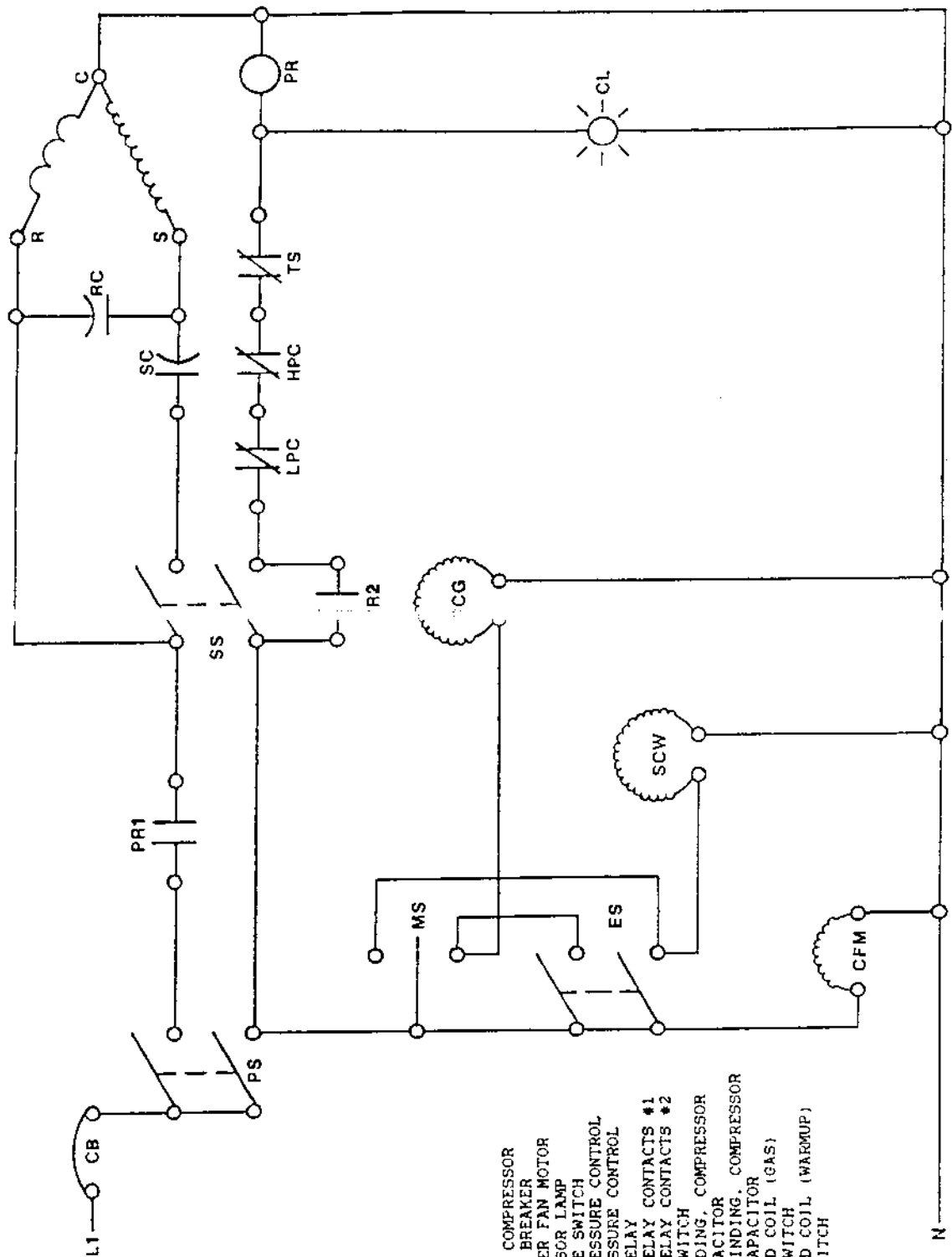
Model 7500 Extractor is warranted against defects in workmanship or materials under normal use for one year. Manufacturer assumes no liability on the actual use of this equipment. Components subject to normal wear and tear such as filter and indicator cores are specifically excluded from this warranty. Compressors that fail due to lack of oil will not be warranted. Safety responsibility lies with the user.

In return for shipping merchandise PREPAID to factory service location, Thermal Engineering Company will make a good faith effort for prompt disposition regarding any product which proves to be defective within or out of warranty. A complete description of the problem should be included. If product was damaged in transit to you, file claim with carrier.

For repair return to your local distributor or:

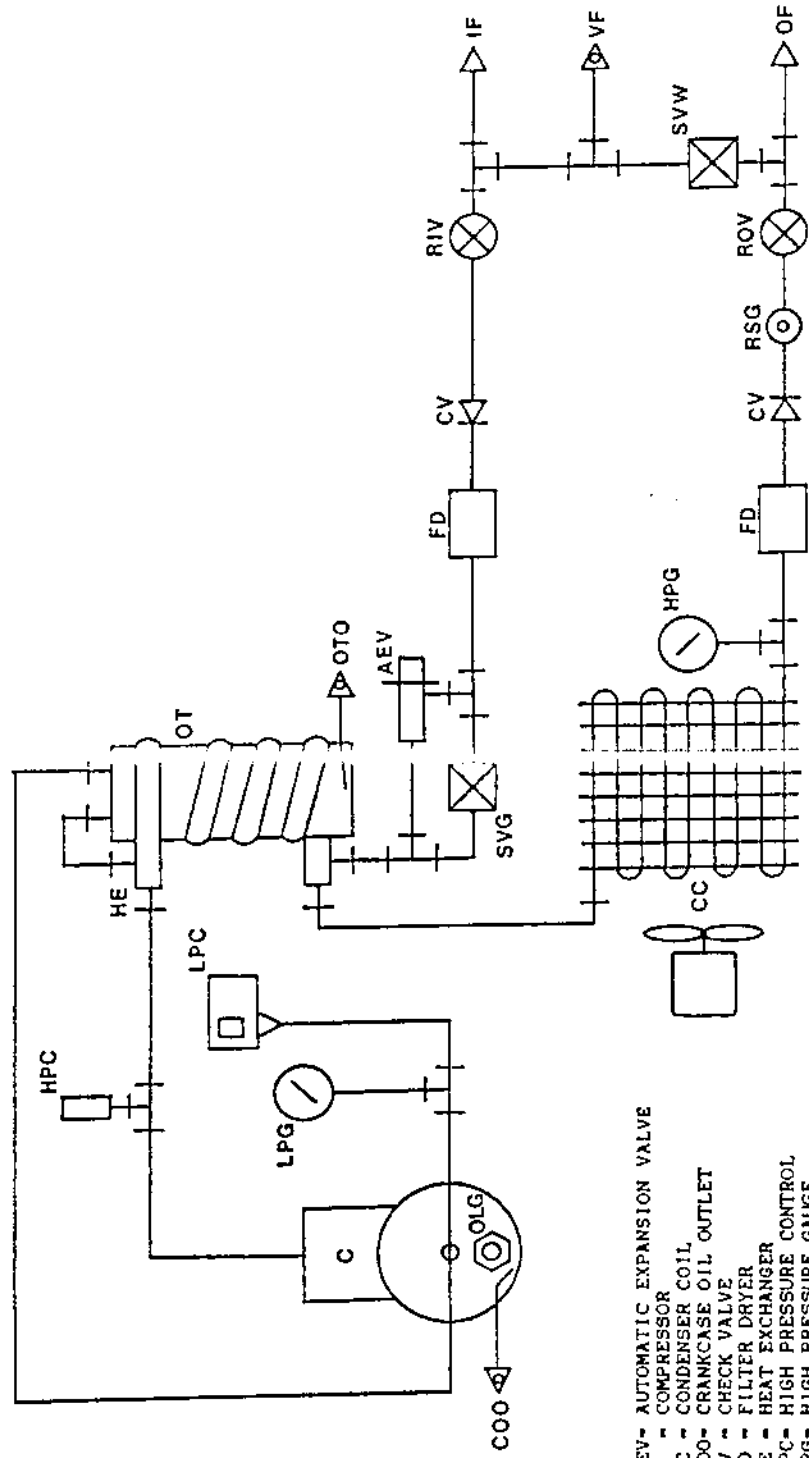
Thermal Engineering Company
2022 Adams Street
Toledo, OH, USA 43624
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FORM 7500-22



- C - COMMON, COMPRESSOR
- CB - CIRCUIT BREAKER
- CFM - CONDENSER FAN MOTOR
- CL - COMPRESSOR LAMP
- ES - EQUALIZE SWITCH
- HPS - HIGH PRESSURE CONTROL
- LPS - LOW PRESSURE CONTROL
- PR - POWER RELAY
- PR1 - POWER RELAY CONTACTS #1
- PR2 - POWER RELAY CONTACTS #2
- PS - POWER SWITCH
- R - RUN WINDING, COMPRESSOR
- SC - START WINDING, COMPRESSOR
- SCG - SOLENOID COIL (GAS)
- SS - START SWITCH
- SW - SOLENOID COIL (WARMUP)
- TS - TANK SWITCH

MODEL 7500 WIRING DIAGRAM



- AEV- AUTOMATIC EXPANSION VALVE
- C - COMPRESSOR
- CC - CONDENSER COIL
- COO- CRANKCASE OIL OUTLET
- CV - CHECK VALVE
- FD - FILTER DRYER
- HE - HEAT EXCHANGER
- HPC- HIGH PRESSURE CONTROL
- HPG- HIGH PRESSURE GAUGE
- IF - INLET FITTING
- LPC- LOW PRESSURE CONTROL
- LPG- LOW PRESSURE GAUGE
- OF - OUTLET FITTING
- OLG- OIL LEVEL GLASS
- OT - OIL TRAP
- OTO- OIL TRAP OUTLET
- RIV- REFRIGERANT INLET VALVE
- ROV- REFRIGERANT OUTLET VALVE
- RSG- REFRIGERANT SIGHT GLASS
- SVG- SOLENOID VALVE (GAS)
- SVW- SOLENOID VALVE (WARMUP)
- VF - VACUUM FITTING

MODEL 7500 PLUMBING DIAGRAM