

SOLVENT RECYCLERS
SR30-30V & SR60-60V



INSTALLATION GUIDE

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GENERAL SAFETY

Before operating the ISTpure Solvent Recycler, read this Instruction Manual completely. ISTpure products are engineered and manufactured to the highest performance standards and have been subjected to detail testing before shipment from the factory.

DANGER AND WARNING LABELS



1. Presence of flammable vapors and solvents
2. No smoking or metal grinding nearby
3. Keep away from open flames
4. Wear breathing mask
5. Observe warnings at all times.
6. Read the Instruction Manual carefully.
7. Wear solvent-proof rubber gloves.
8. Wear protective eyewear before use.

TOOLS REQUIRED FOR INSTALLATION OF VACUUM

Hex 5/16 Screw Driver



Flat 1/8" screw driver



Flat Screw Driver or Snips for removal of Staples



Teflon Tape



Adjustable Wrench



UNPACKING UNITS

TOOLS REQUIRED

Phillips Screw Driver for all Screws on The Unit Flat Screw Driver or Snips for Removal of Staples Robertson Square Screw Driver for Pallet Screws Teflon Tape Adjustable Wrench.

PARTS REQUIRED

- Hose and Fittings for connection to Regulator
- Disconnect per classification area (See General Arrangement Drawings)
 - 220 Volt 1 Phase Power
 - 5 - 6 Ft from units at least
 - 18" above the ground

UNPACKAGING THE UNIT

Step 1 : Carefully inspect the shipping carton for any signs of transport damage.

Step 2 : Begin by removing the staples attaching the box to the skid (A Flat Screw Driver or Snips will do the job).

Step 3 : Carefully remove your solvent recycler from the shipping carton. Remove the four screws from the bottom of the solvent recycler screwed to the pallette.

Step 4 : Remove the unit from the pallette and place it in the general area for installation.

Option vacuum : unpack the unit and assemble it on its support with the provided bolts.

You are ready to begin with the installation of the solvent recycler.



Vacuums

SR30 & 60 INSTALLATION



ELECTRICAL CONNECTION

Step 5 : Now we are ready to have the electrician wire the solvent recycler for model **SR30** connect to **220 volts / 1 phase** power to the electrical junction box **1** that is provided in the back of the unit. **The 7.5 gallons recycler requires 15 Amp service.**

for model **SR60** connect to **220 volts / 1 phase** power to the electrical junction box that is provided in the back of the unit. **The 15 gallons recycler requires 30 Amp service.**

Then connect a **ground wire 2** to the back of the unit and use the ground wire with a clip to ground the 55 gallons drum.

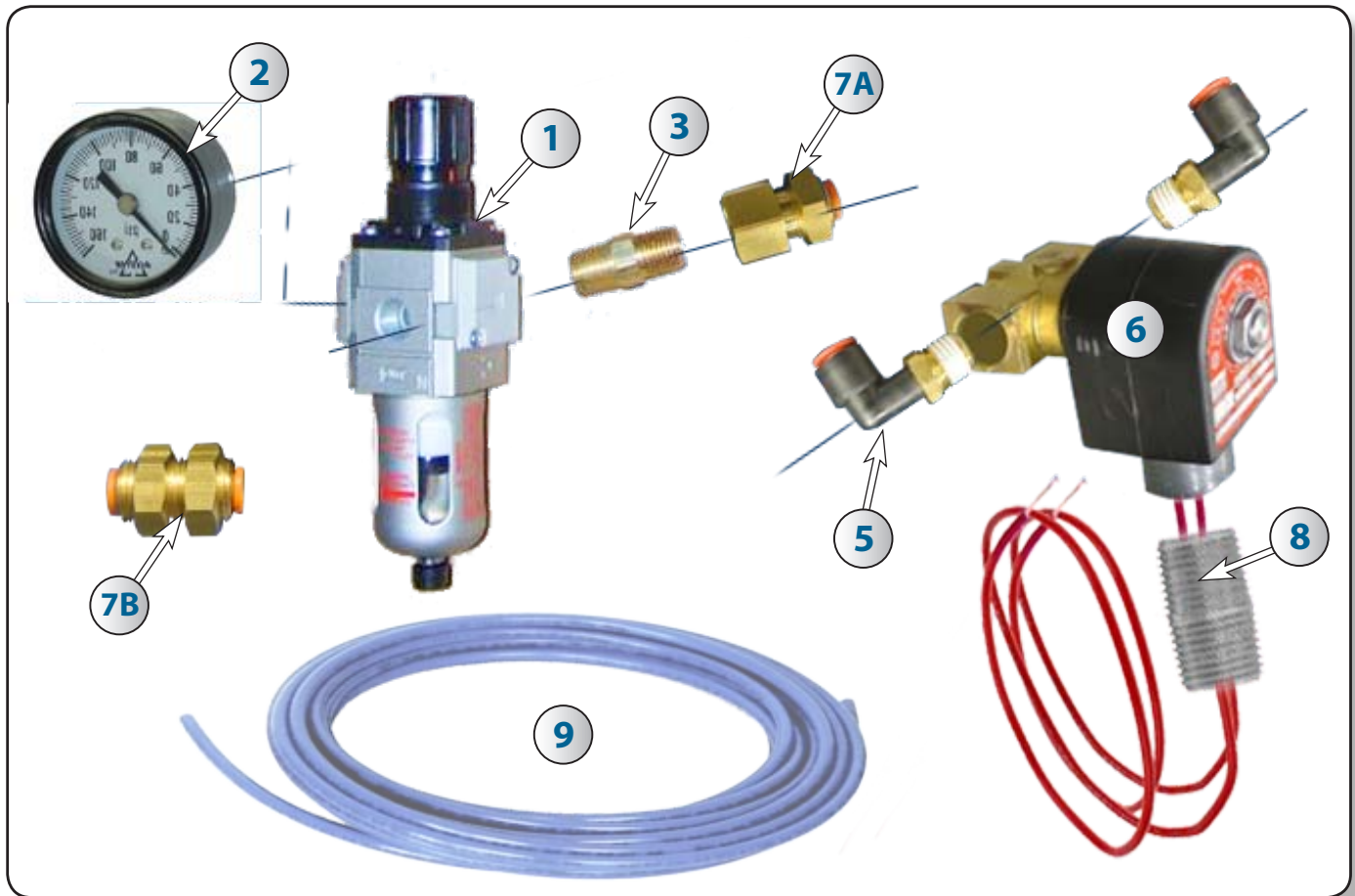
For units that come with the optional used solvent fill pump you will need to connect with an **1/2 air line** to the pump and suggest to put a filter regulator before the air inlet of the pump and then adjust the air pressure on the regulator to **80 PSI.**

Note : Please Review the “General Arrangement” Drawing.

MAKE SURE ALL CODE REQUIREMENTS ARE FOLLOWED.

You are now ready to follow the Start-up Process. Please follow the ISTpure Start-up

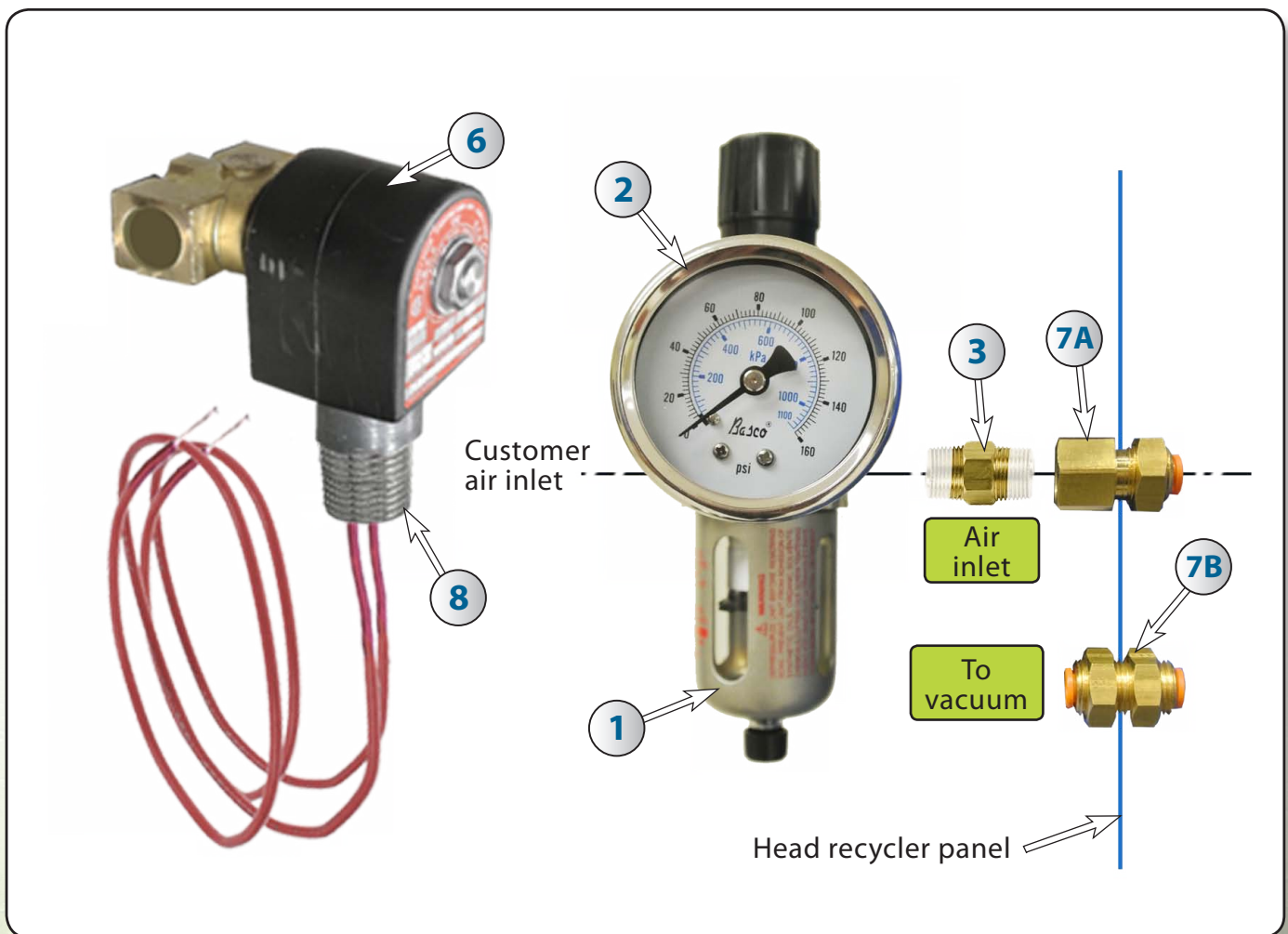
OPTION VACCUM : LIST OF PARTS INCLUDED IN THE KIT



| # | STOCK | DESCRIPTION | QUANTITY |
|----|--------|---|----------|
| 1 | 324562 | FILTER & REGULATOR | 1 |
| 2 | 911021 | AIR GAUGE: 0 – 160 psi | 1 |
| 3 | 632202 | CLOSE NIPPLE 1/4" | 1 |
| 5 | 324560 | 90° PUSH IN FITTING | 2 |
| 6 | 324003 | SOLENOID VALVE | 1 |
| 7A | 324503 | BRASS BULK HEAD FITTING 1/4" T x 1/4" FTP | 1 |
| 7B | 324502 | BRASS BULK HEAD FITTING UNION 1/4" | 1 |
| 8 | 323135 | ALUMINUM 1/2" CLOSE NIPPLE | 1 |
| 9 | 324571 | POLYURETHANE BLUE TUBING | 5' |

OPTION VACCUM : PARTS TO ASSEMBLE

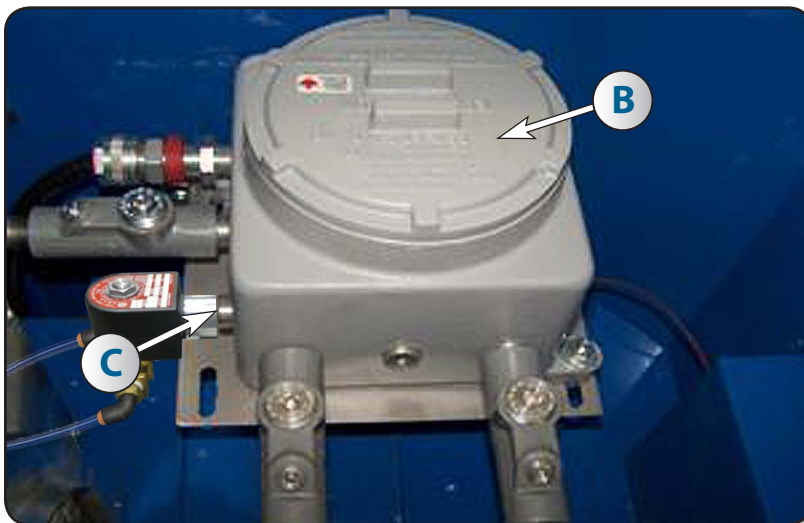
1. Air regulator assembly : put Teflon tape where required. Remove plug on the regulator (1) and screw gauge (2) on. Then put close nipple 1/4" (3) on regulator with bulkhead push in fitting (7A)
2. Install close nipple (8) on solenoid valve (6).
3. Plug the nylon white hose "to vacuum" to the bulkhead push in fitting (7B)



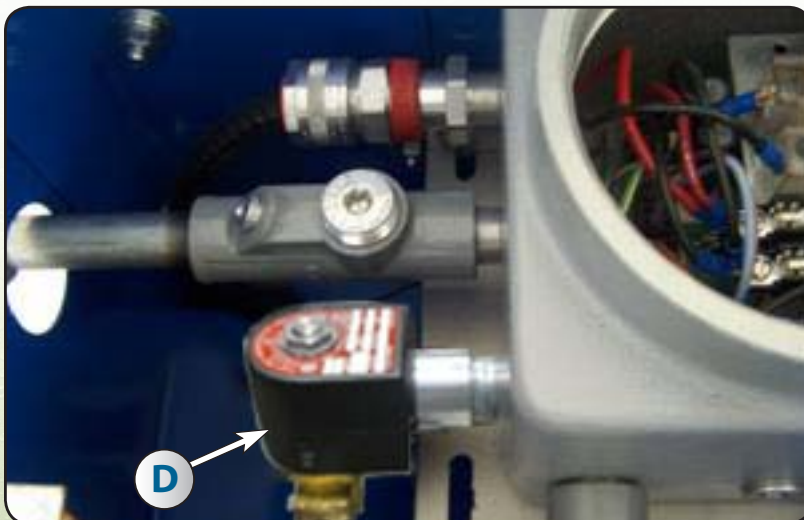
OPTION VACCUM : INSTALLATION OF SOLENOID VALVE



1. Remove screws for top cover (A).
2. Open top cover.

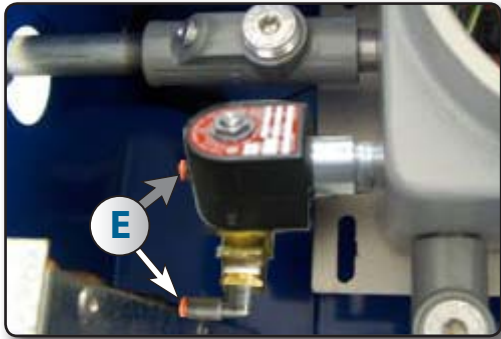


3. Open cover (B) from ex proof box.
4. Remove the ½ plug (C) on the box.

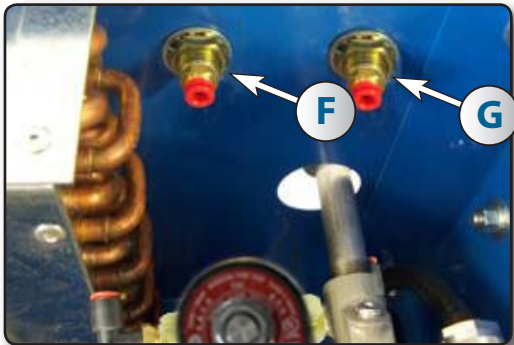


5. Install the solenoid valve (D)

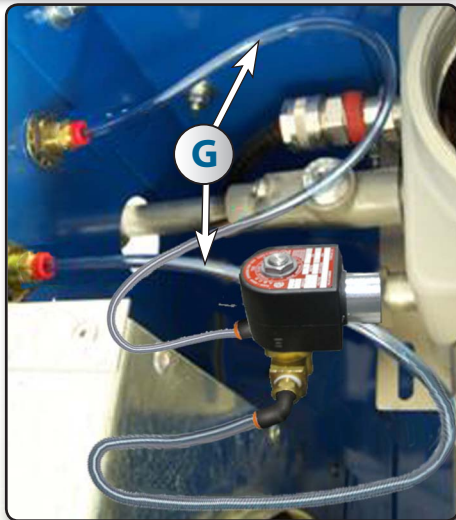
OPTION VACCUM : INSTALLATION OF SOLENOID VALVE (CONT'D)



6. Install the 2 push in fittings (E) on the solenoid valve.

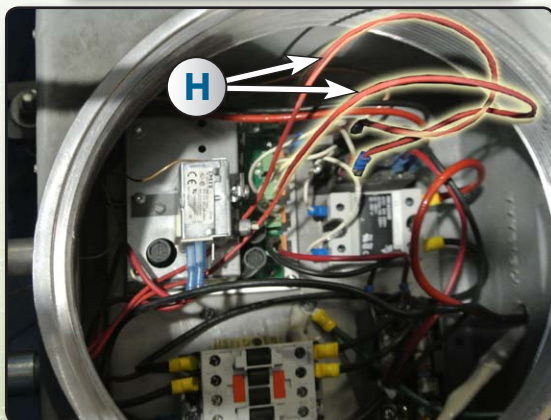


Then install the 2 bulk head (F) and (G) fittings. Note : the one with the regulator ((G)) is on the left side.



7. Install blue hose (G) from the bulk head of the pressure regulator to the air inlet of the solenoid valve then install the other hose between the outlet of the solenoid and the signal out to the vacuum tank.

8. Install the 2 red wires (H) from the solenoid valve on the relay as shown.



OPTION VACCUM : INSTALLATION OF SOLENOID VALVE (END)



9. Install the 2 push in fittings **(E)** on the solenoid valve.

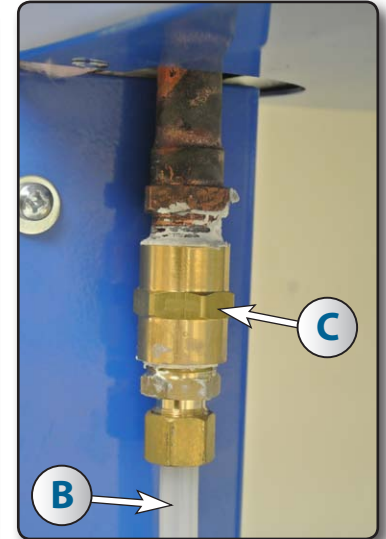
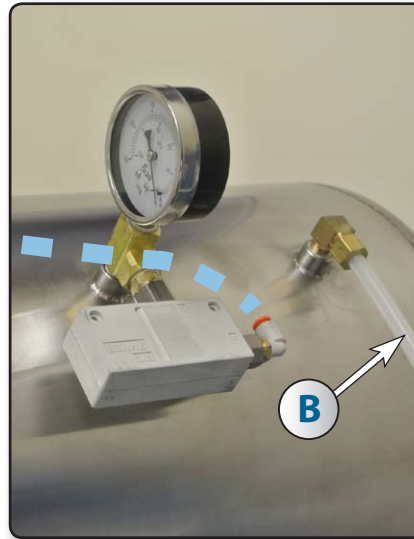
Close the cover **(I)** from the explosion proof box



10. put back the top cover and put back the 4 screws **(J)** with lock.

OPTION VACCUM : INSTALLATION FOR VACUUM GENERATOR

1. Connect the blue tube (A) between air outlet and vacuum generator on vacuum tank.
2. Then connect the clear nylon tube (B) coming from the recycler to the top of the vacuum tank.



3. Remove the plug with hole on the brass elbow and replace by the new plug (C) and connect the clear nylon tube (B)

OPERATION STEPS FOR THE SOLVENT RECYCLER

WARNING Read the Instruction Manual to become familiar with all aspects of the equipment.



1. Before filling the recycler, place a new recycler bag (A) in the tank. Make sure the ring is firmly in the groove of the tank and fold the excess bag material down over the ring.
2. Empty contents of Gun Washer "Used Solvent" container into Recycler 1" inch below Recycler Bag Ring.
3. Pour Paint waste into Recycler make sure to stir waste paint in Recycler bag to dilute the concentration.

Add no more than 128 oz. of paint waste for a 7.5 gal unit and 240 oz. for the 15 gal unit.

OPERATION STEPS FOR THE SOLVENT RECYCLER (CONT'D)

CAUTION Larger amounts of paint will reduce the capabilities of the unit. This is due to the large heat sink created by the access solid material.

- The system will initially be set a 330 °F for 4 hours. Adjustments (see Operators Manual) to the time may be required depending on the types of solvents, type of waste, the waste levels and the desired consistency of the Waste material.
- Assure there is an empty 5 or 55 Gallon metal container with the clear tube coming from the Condenser.

WARNING Make sure the ground strap is attached.



6. Push the Red button. The cycle is now initiated. The system display will show Set Time, Set Temperature, & Elapsed Time.

7. We recommend not opening the unit until it shows 200°F or 1 – 2 Hours (depends on Temperature, Time settings & the amount of waste) after the cycle has completed. This allows the unit to cool down.

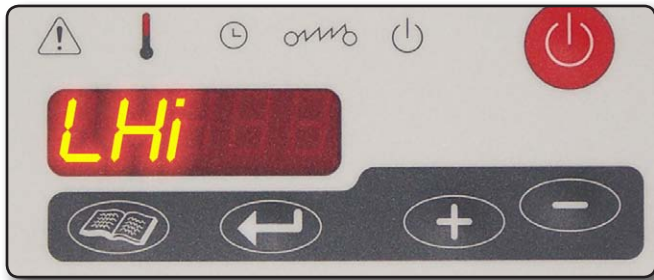


8. The resulting "Still Bottom" will range in consistency from slurry to a marshmallow. All of this is again dependant on the types of solvents, type of paint, the painter's waste levels, and Recycler settings (Time & Temperature).

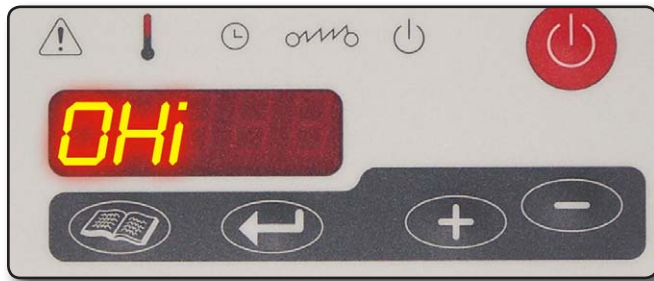


9. Dispose of the "Still Bottom" in an approved Hazardous Waste container and assure proper labeling.

SECTION 8 - TROUBLESHOOTING



1. Error Code "L Hi" – Liquid Temperature from condenser is to hot coming out. See "Instruction Manual"



2. Error Code "O Hi" – Oil Temperature is to hot. See "Instruction Manual"

3. Weak Solvent – This is from the Spray Gun Cleaning process causing evaporation of "Acetone". Add "Acetone" – typical solvent used in Gun Cleaning formulations that starts to evaporate at 80°F and Boils at 130°F

SECTION 9 - RECYCLER MAINTENANCE

Each use

- Replace Recycler Bag. Use only ISTpure Recycler Bags to assure performance (300006 for 7.5 Gallon),(300008 for 15 gallons)
- Remove any contaminants from the bottom of the boiler.

Each day

- Wipe-down the unit with solvent. The paint and decals are solvent resistant.
- Remove any contaminants from the bottom of the Boiler .

SECTION 9 - RECYCLER MAINTENANCE (CONT'D)



Semi-Annually

- Blow off condenser (externally) to move dust and dirt
- Replace IST Protect film.
- Maintenance Coating (ECP 330104)
- Review Ground Clamp (323078)



Annually

- Replace Seal (304018 for 7.5 and 15 Gallon)
- Blow out Condenser (internally)
- Change Oil (330067)
- Review & Replace any illegible or damaged Decals
- Complete Electrical Diagnostic

GENERAL ARRANGEMENT

DATA & SPECIFICATIONS

Electrical Requirements

Amp Draw listed for entire unit — including motor and heating element

| MODEL | Full load Amp Draw | | Location |
|--------|--------------------|------|----------|
| | 220V | 480V | |
| SR 30 | 11.7 | — | — |
| SR 60 | 23.4 | — | — |
| SR 120 | — | 14.5 | 11.3 |
| SR 180 | — | 20.8 | 15.0 |
| SR 240 | — | 24.8 | 19.5 |

Air Requirements

| ITEM | Air Line Specifications | cfm | Notes |
|-------------|-------------------------|-----|--------------------------|
| SR30V-60V | 3/8" @ 100 psi | 5 | Factory set at 85-90 psi |
| SR120V-180V | 1/2" @ 100 psi | 10 | |
| SR120V-180V | 1/2" @ 100 psi | 10 | |
| SR 240 | 1/2" @ 100 psi | 10 | |

Thermal Heat Transfer Oil

| Model | Oil Capacity | Parts Number | | |
|---------------------|--|--------------|------------|----------------|
| | | Standard | High Temp. | Volume |
| SR30 TO SR240 | Please refer to your product identification plate for required oil volume. | 330066 | 330166 | 1 gal / 4L |
| | | 330067 | 330167 | 2.5 gal / 9.5L |
| | | 330068 | 330168 | 5 gal / 19L |
| | | 330069 | 330169 | 55 gal / 208L |

Recycler Bags

| MODEL | Part number |
|--------|-------------|
| SR 30 | 300006 |
| SR 60 | 300019 |
| SR 120 | 300008 |
| SR 180 | 300009 |
| SR 240 | 300010 |

INFORMATION CODES

ISTpure offers a complete line of spray gun cleaners and solvents recyclers that conform to the requirements of:

- NFPA-33 Standard for spray application using flammable and combustible materials.
- NFPA-30 flammable and combustible liquid code
- IFC : International Fire Code

The recycler has been certified and listed :

- UL 2208 standard for solvent distillation unit

The recycler has been reviewed and approved by :

- QPS for U.S. & Canada requirements report #LR1558

Conformity of all these requirements is dependent upon the manner in which the equipment is installed. The contractor will make certain that all of the electrical wiring and conduit, piping, gas supply, roof penetrations, automatic fire protection systems, and the location of the equipment within the building also conforms to the cited codes and the other references.

GENERAL ARRANGEMENT

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GENERAL ARRANGEMENT

