



SOLVENT RECYCLERS

INSTALLATION GUIDE

SR30-30V & SR60-60V

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GENERAL SAFETY

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



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



Adjustable Wrench



Teflon Tape



Snips for removal of Staples

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 pallet.

Step 4: Remove the unit from the pallet 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.



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**.

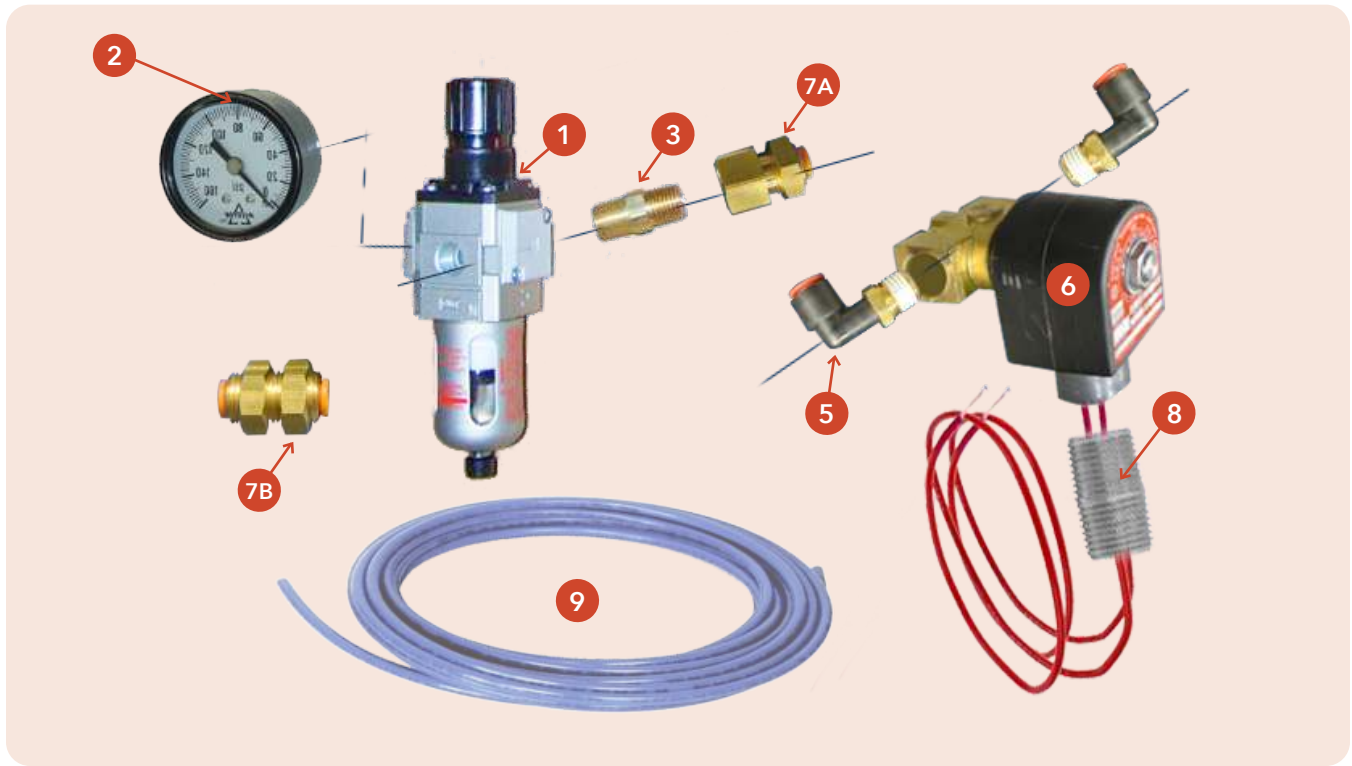


Note: Please Review the "General Arrangement" Drawing.
MAKE SURE ALL CODE REQUIREMENTS ARE FOLLOWED.

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

OPTION VACCUM:

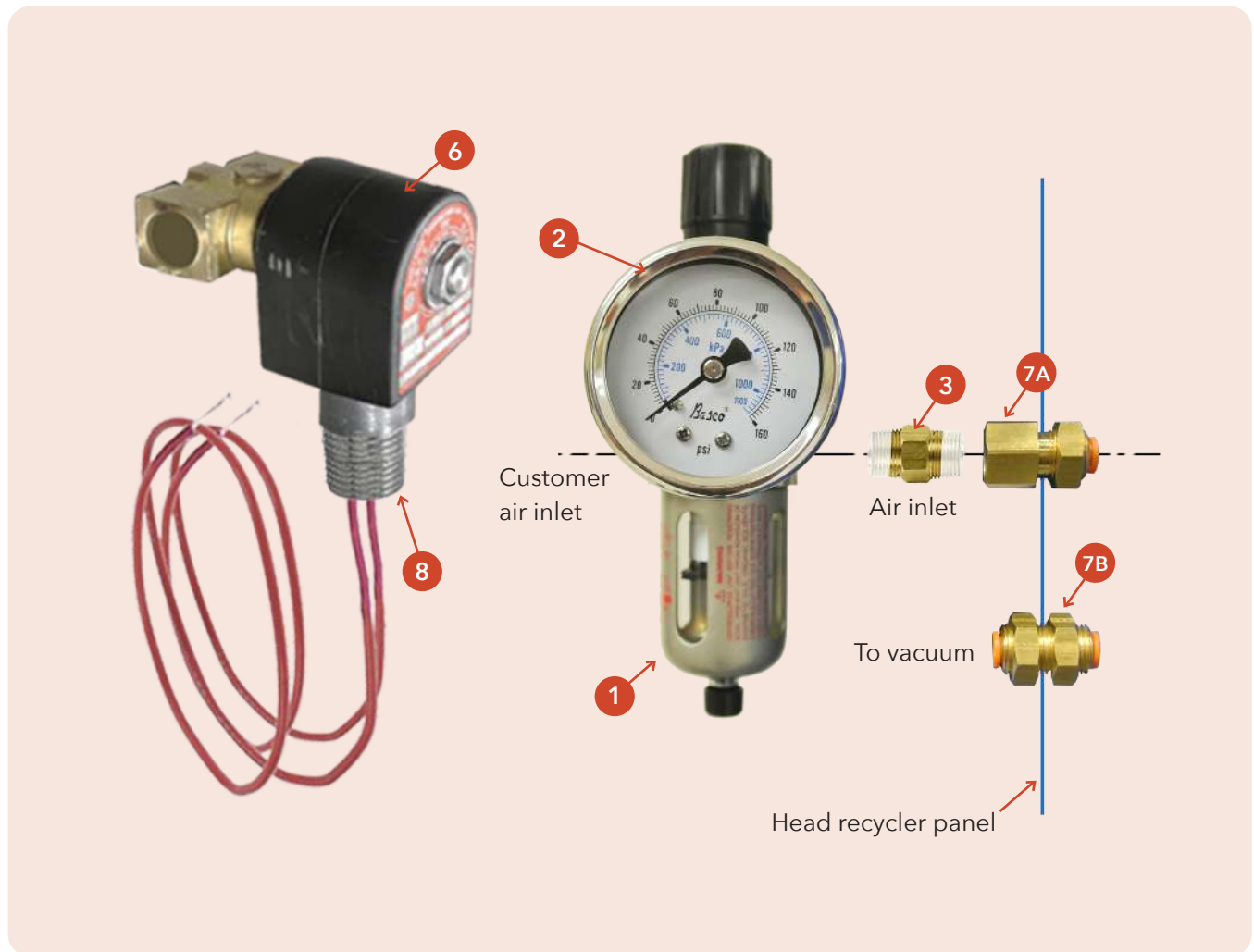
LIST OF PARTS INCLUDED IN THE KIT



#	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 $\frac{1}{4}$ " **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**

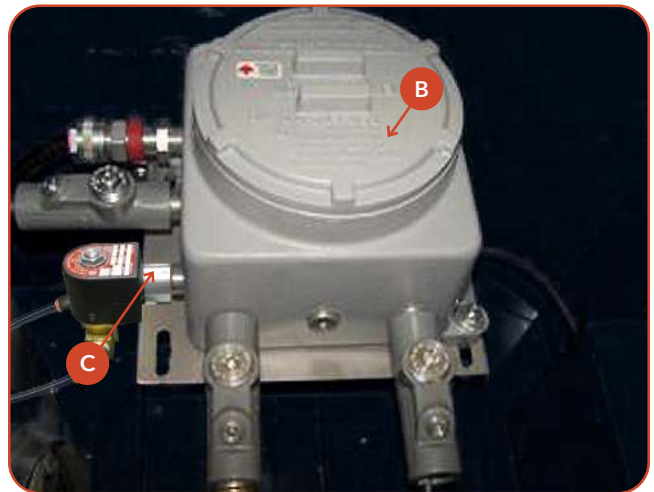


OPTION VACCUM: INSTALLATION OF SOLENOID VALVE

1. Remove screws for top cover **A**.
2. Open top cover.



3. Open cover **B** from ex proof box.
4. Remove the 1/2 plug **C** on the box.



5. Install the solenoid valve **D**.



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

1. Install the 2 push in fittings E on the solenoid valve E.



Then install the 2 bulk head F and G fittings.

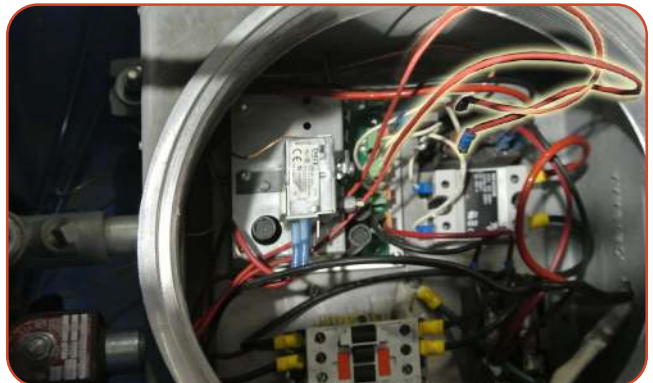
Note: The one with the regulator (G) is on the left side.



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.

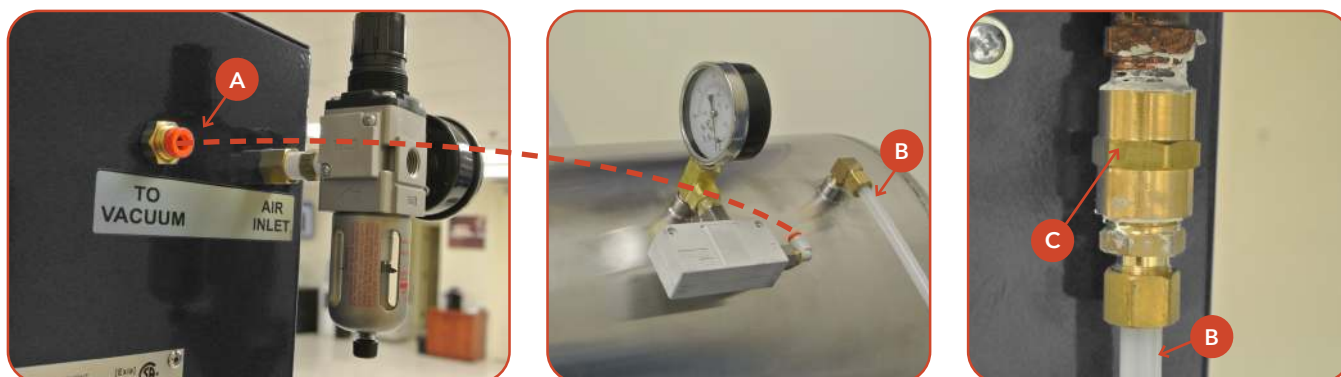


10. Put back the top cover and put back the 4 screws **J** with lock.



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 **E**.



OPERATION STEPS FOR THE SOLVENT RECYCLER

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 excess solid material.

4. 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.

5. Assure there is an empty 5 or 55 Gallon metal container with the clear tube coming from the Condenser.

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 too hot coming out. See "Instruction Manual"



2. Error Code "O Hi" – Oil Temperature is too 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	600V	Non-classified area	In mix room / classified area
SR 30	11.7	-	-	- General purpose disconnect - Min. 5 ft away from unit - Min 18" off the floor	Explosion proof disconnect required
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														
SR30 TO SR240	Please refer to your product identification plate for required oil volume. 														
	PARTS NUMBER <table><tr><th>Formats</th><th>STANDARD</th><th>HIGH-TEMPERATURE</th></tr><tr><td>1 Gal / 3.8 L</td><td>OIL-0004</td><td>OIL-0004-HT</td></tr><tr><td>2.63 Gal / 10 L</td><td>OIL-0010</td><td>OIL-0010-HT</td></tr><tr><td>5.2 Gal / 20 L</td><td>OIL-0020</td><td>OIL-0020-HT</td></tr><tr><td>55 Gal / 205 L</td><td>OIL-0205</td><td>OIL-0205-HT</td></tr></table>	Formats	STANDARD	HIGH-TEMPERATURE	1 Gal / 3.8 L	OIL-0004	OIL-0004-HT	2.63 Gal / 10 L	OIL-0010	OIL-0010-HT	5.2 Gal / 20 L	OIL-0020	OIL-0020-HT	55 Gal / 205 L	OIL-0205
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Recycler Bags

Models	2 MILS	3 MILS
SR30 / SRB7.5	BAG-SR30-2-0100	BAG-SR30-3-0100
SR60 / SRB15	BAG-SR60-2-0100	BAG-SR60-3-0100
SR120 / SRB30	BAG-SR120-2-0100	BAG-SR120-3-0100
SR180 / SRB45	BAG-SR180-2-0100	BAG-SR180-3-0100
SR240 / SRB60	BAG-SR240-2-0100	BAG-SR240-3-0100

INFORMATION CODES

Kresco 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.

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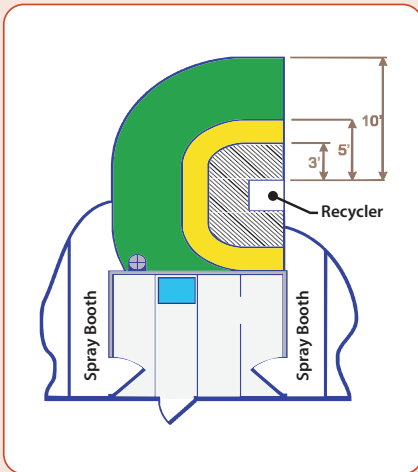
GENERAL ARRANGEMENT



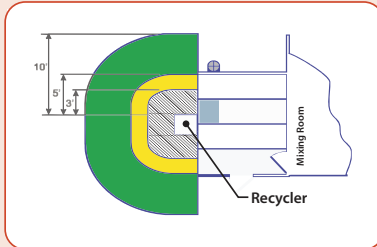
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krescosolutions.com

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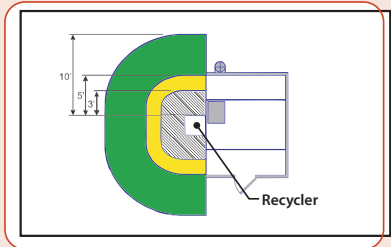
DATA & SPECIFICATIONS



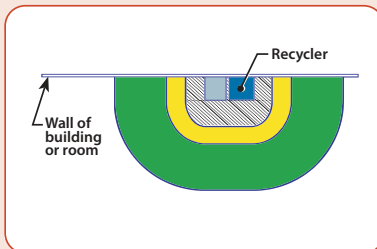
INTERMEDIATE
MIX ROOM



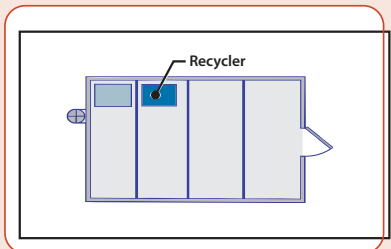
THREE SIDES
MIX ROOM



FREE STANDING
MIX ROOM



ENTIRE SYSTEM
OUTSIDE MIX ROOM



ENTIRE SYSTEM
INSIDE MIX ROOM

LEGEND



Class 1 - Div 1



Class 1 - Div 2



Class 1 - Div 2
18" Height only



Classification zones as per:

A) NFPA 33 standard for spray application using flammable and combustible materials, sections 4.3.5

B) International fire code, chapter 34 flammable and combustible liquids 3403.1.1

Zone requirements apply to both gun cleaners and recyclers together and stand alone.

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Note: the SR240 is not QPS certified

About Kresco



Kresco designs, manufactures, and supports industrial equipment for the surface treatment industries. **Kresco** has standard equipment designed for most applications and can customize equipment to meet or exceed your production expectations.

Sandblasting

- Sandblast Booths
- Sandblast Cabinets
- Automated Sandblasting Systems
- Abrasive Reclaiming Systems
- Pressurized Sandblasters
- Dust Collectors

Solvent Recovery

- Batch Solvent Distillers
- Continuous Flow Solvent Distillers
- Oil Cooling Systems

Shotblasting

- Roller Conveyor Blaster
- Rotary Table Blaster/Swing Table Blaster
- Spinner Hanger (Batch)
- Continuous Flow with Monorail
- Rubber and Steel Flight Tumbler Blasters
- Flow Thru Barrel Blasters
- Mesh Belt Continuous Blasters
- Monorail System Blasters
- Rim Blasters
- Preservation Line

Parts & Consumables

- Blast Nozzles
- Blast Hoses
- Abrasive Media
- Air Valves
- Abrasive Metering Valves
- Cartridge Filters
- Sludge Bags
- Safety Equipment & PPE

Painting

- Paint Spray Booths
- Powder Coating Booths
- Drying Ovens
- Air Make-Up Units

Services

- Turnkey Project Design
- Custom Design
- Full Installation
- Start-up Supervision
- Training
- Maintenance
- Retrofit & Upgrade

All systems are designed to build and they are manufactured with the highest quality standards in our manufacturing shop in Quebec, Canada.





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