

BECCA®

SOLVENT SAVER™ **RECYCLER**



"Innovation for Waste Minimization"



BECCA®

2010 Cobb International Blvd, Suite H Kennesaw, GA 30152
Phone 800.655.5649 Fax 800.655.5684 Internet: www.beccainc.com

Professionals that Approved & Use



Industrial



Automotive



Automotive Refinish



Paint Company



Defense



Military



And many more!

The Professionals Choice, Quality, Technology, Support

Phone 1-800-655-5649 Fax 1-800-655-5684 www.beccainc.com

"Innovation for Waste Minimization"



Is the Solvent Recycler Listed? Why is that Important?

The Facts

- ✓ Recyclers must be Listed. There are several Listing Agencies:

- Intertek ETL SEMKO
800-967-5352



- CSA
877-854-3577



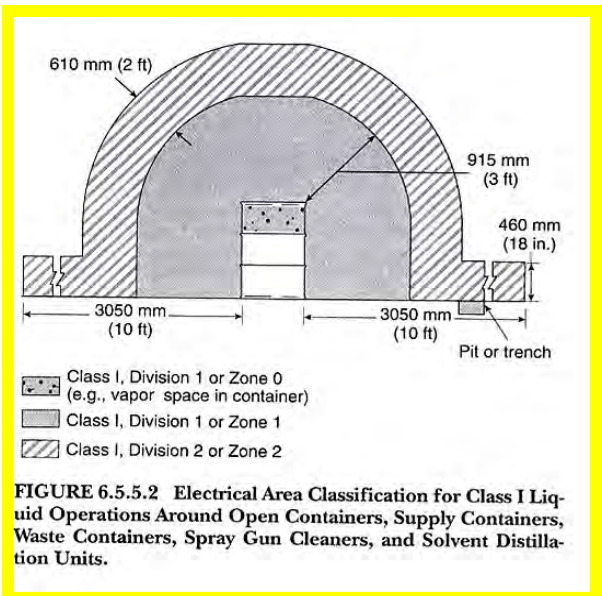
- UL Underwriters Laboratories
866-797-4272

- Others



What does this mean to a Customer?

- ✓ If a Recycler is claimed to be Listed, a customer should ask for a copy of their Listing Certificate Report. BECCA provides a copy in our Instruction Manual.
- ✓ Make sure the Certificate Report shows they are Listed to:
 - UL 2208 Std for Solvent Recyclers &
 - Class I Div1 Requirements – This is important to be in compliance with NEC 500, 501 & 516, NFPA 33 & IFC (see figure from NFPA 33 Standard – the same is in the NEC)



- ✓ Insurance companies want their insured to have a Listed Solvent Recycler
- ✓ Local Authorities Having Jurisdiction want Shops in their area to have Listed Solvent Recyclers



SOLVENT SAVERTM RECYCLER

Solvent Recycler
HC (6 Gal) & SC (3 Gal)

*The
Professionals
Choice*

SOLVENT SAVERTM

Benefits

- Reduces your Solvent Purchases
- Reduces Your Hazardous Waste Generation
- Able to process Conventional, Alternative & Waterborne Solvents
- Listed Class I Division 1 Requirements
- CSA Listed to UL2208
- Fully Automated Cycle
- 2 Year Warranty—Longest in the Industry
- **BECCA CareTM** - Local sales, installation, training and service



Ask us about
our FREE test
of your waste
solvent for
evaluation



CSA Listed per UL2208 Std for Solvent
Distillation Units &
for Class I Div 1 Requirements

"Innovation for Waste Minimization"



It's all about improving
your productivity, finishing
quality, & saving money.

In today's environment, operations know
the meaning of efficiency, reduced cycle
time and variable cost reduction.
BECCA continues to redefine what a
Solvent Recycler supplier should do for its
customers:

Help Customers Succeed

Deliver Quality Products

Bring the Latest in Technology

Provide the Best Service

**Caution! - Do not use with products
containing Nitrocellulose**

Product Specifications

Boiler Capacity: HC—6 Gal (27l) / SC-3 Gal (13 l)

Working Temp: 104—393°F (40—200°C)

Heating : Indirect - Thermic Oil

Cooling : Air—Fan

Recovery Rate: 95—100%

Electrical: 220 Volt 1 Phase

Amperage: HC—10 Amp / SC—5 Amp

Dimensions: 43"H x 33"W x 26" D

Construction: Class I Div 1 Explosion Proof,
Stainless Steel Tank & Lid, Ultra Powder
Coat Finish, One Touch Controls

Operating Time: 3-6 Hours

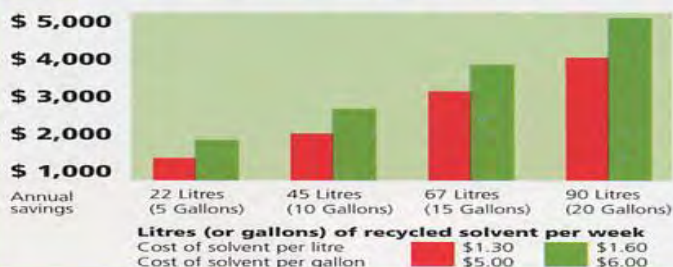
Weight: 260 lbs.

Shipping: Freight



**Generate substantial savings and less
waste hazardous to the environment!**

Savings generated from solvent recovery (95% rate)



Available Options

Recycler Bags – These bags are specially designed for performance. The Bag liner contains the left-behind residues, is easily and cleanly removed.

Protect™ Film – This is a maintenance film that makes clean-up simple and easy...just peel away the film and apply a new coating

Transfer Kit – Drum to Recycler – Pump Kit designed to allow transfer of solvent from a 55 Gallon Drum to the BECCA Solvent Saver Recycler. Includes St/St Braided lines with wand for long durable use

Accel-Cool™ System – This add on system uses compressed air through a Transvector to accelerate the cool down . This would mean less than 1-2 hour to the next process.

Vacuum Assist System— Lowers atmospheric pressure in the boiler for:

- Increase the differential between the Auto Ignition Temperature and the boiling point of a solvent., reducing the hazard.
- Increases the capability of the Recycler to handle solvents with high boiling points.
- Improves the speed of the Recycler from 10 – 30%.

Stainless Steel Condenser – This upgrades the condenser from Copper to Stainless Steel – necessary for some applications

"Anti-Foaming" Grill – This is perforated metal designed to break up bubble formation from certain waste solvent combinations

"Anti-Foaming" Additive - This additive will assist breaking up bubble formation from certain waste solvent combinations



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Suite H
Kennesaw, GA 30152
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F 800. 655. 5684
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sales@beccainc.com

**For More Information go
to www.beccainc.com**



SOLVENT SAVERTM RECYCLER

Solvent Recycler SS17.5 (17.5 Gal)

*The
Professionals
Choice*

SOLVENT SAVERTM

Benefits

- Reduces your Solvent Purchases up to 95%
- Reduces Your Hazardous Waste Generation up to 95%

Features

- Listed to Class I Division 1 Requirements
- Listed to UL2208 at the Highest Level
- Able to process Conventional, Alternative & Waterborne Solvents
- Fully Automated Cycle
- 1 Year Warranty
- **BECCA CareTM** - Local sales, installation, training and service



Ask us about our FREE test of your waste solvent for evaluation!



CSA Listed per UL2208 Std for Solvent Distillation Units & for Class I Div 1 Requirements

"Innovation for Waste Minimization"



It's all about improving
your productivity, finishing
quality, & saving money.

In today's environment, industrial
operations know the meaning of
efficiency, reduced cycle time and
variable cost reduction.

BECCA continues to redefine what a
Solvent Recycler supplier should do for
its customers:

Help Customers Succeed

Deliver Quality Products

Bring the Latest in Technology

Provide the Best Service

**Caution! - Do not use with products
containing Nitrocellulose**

Product Specifications

Boiler Capacity: 17.5 Gal (66 liters)
Working Temp: 104–450°F (40–232°C)
Heating : Direct
Cooling : Air–Fan
Recovery Rate: 95–100%
Electrical: 220–240 Volt 1 Phase
Amperage: 13.5 Amps
Dimensions: 62"H x 24"W x 37" D
Construction: Class I Div 1 Explosion Proof,
Teflon Coated Aluminum Tank & Lid,
Ultra Powder Coat Finish, One Touch Controls
Operating Time: 3 – 7 Hours
Weight: 400 lbs.
Shipping: Freight



Available Options

Recycler Bags – These bags are specially designed for performance. The Bag liner contains the left-behind residues, is easily and cleanly removed.

Protect™ Film – This is a maintenance film that makes clean-up simple and easy...just peel away the film and apply a new coating

Transfer Kit – Drum to Recycler – Pump Kit designed to allow transfer of solvent from a 55 Gallon Drum to the BECCA Solvent Saver Recycler. Includes St/St Braided lines with wand for long durable use

Accel-Cool™ System – This add on system uses compressed air through a Transvector to accelerate the cool down . This would mean less than 1-2 hour to the next process.

Vacuum Assist System— Lowers atmospheric pressure in the boiler for:

- Increase the differential between the Auto Ignition Temperature and the boiling point of a solvent., reducing the hazard.
- Increases the capability of the Recycler to handle solvents with high boiling points.
- Improves the speed of the Recycler from 10 – 30%.

Stainless Steel Condenser – This upgrades the condenser from Copper to Stainless Steel – necessary for some applications

"Anti-Foaming" Grill – This is perforated metal designed to break up bubble formation from certain waste solvent combinations

"Anti-Foaming" Additive – This additive will assist breaking up bubble formation from certain waste solvent combinations



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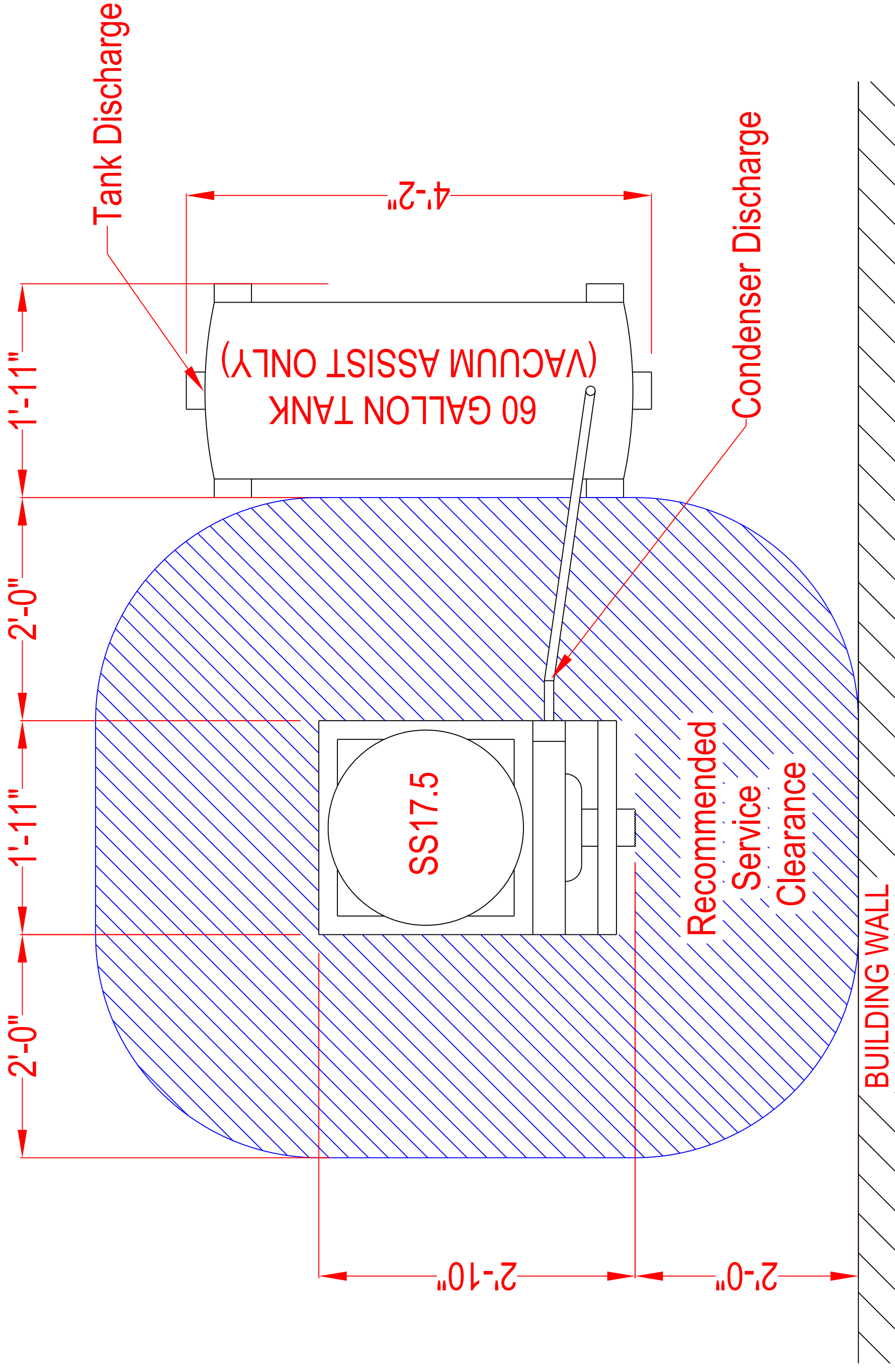
NAME OF PROJECT:						REV: _____		DATE: _____		REVISION DESCRIPTION:		BY / NO:	
17.5 Gal Recycler													
DRAWN BY:		CHECKED BY:		DATE:		SCALE:							
C. Balthewood				01/04/2013									

NAME OF PROJECT	17.5	DRAWN BY:	C. Bythewood
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DESCRIPTION OF DRAWING:	
Equipment Layout	
DRAWING NO:	REV:
SS17.5	1

All Dimensions are approximate and subject to change. Customer must check equipment size, location in building and all clearances to building and contents.





SOLVENT SAVERTM RECYCLER

Solvent Recycler SS55 (55 Gal)

*The
Professionals
Choice*

SOLVENT SAVERTM

Benefits

- Reduces your Solvent Purchases up to 95%
- Reduces Your Hazardous Waste Generation up to 95%

Features

- Listed to Class I Division 1 Requirements
- Listed to UL2208 at the Highest Level
- Able to process Conventional, Alternative & Waterborne Solvents
- Fully Automated Cycle
- 1 Year Warranty
- **BECCA CareTM** - Local sales, installation, training and service



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Distillation Units &
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Deliver Quality Products

Bring the Latest in Technology

Provide the Best Service

Caution! - Do not use with products
containing Nitrocellulose

Product Specifications

Boiler Capacity: 55 Gal (208l)

Working Temp: 104–450°F (40–232°C)

Heating : Direct

Cooling : Air–Fan

Recovery Rate: 95–100%

Electrical: 220 Volt 1 Phase

Amperage: 50 Amps

Dimensions: 90"H x 42"W x 60" D
(Note: 112" H w/ Winch System)

Construction: Class I Div 1 Explosion Proof,
Teflon Coated Aluminum Tank & Lid,
Ultra Powder Coat Finish, One Touch Controls

Operating Time: 6 – 8 Hours

Weight: 1115 lbs.

Shipping: Freight



Available Options

Recycler Bags – These bags are specially designed for performance. The Bag liner contains the left-behind residues, is easily and cleanly removed.

Protect™ Film – This is a maintenance film that makes clean-up simple and easy...just peel away the film and apply a new coating

Transfer Kit – Drum to Recycler – Pump Kit designed to allow transfer of solvent from a 55 Gallon Drum to the BECCA Solvent Saver Recycler. Includes St/St Braided lines with wand for long durable use

Accel-Cool™ System – This add on system uses compressed air through a Transvector to accelerate the cool down . This would mean less than 1-2 hour to the next process.

Vacuum Assist System— Lowers atmospheric pressure in the boiler for:

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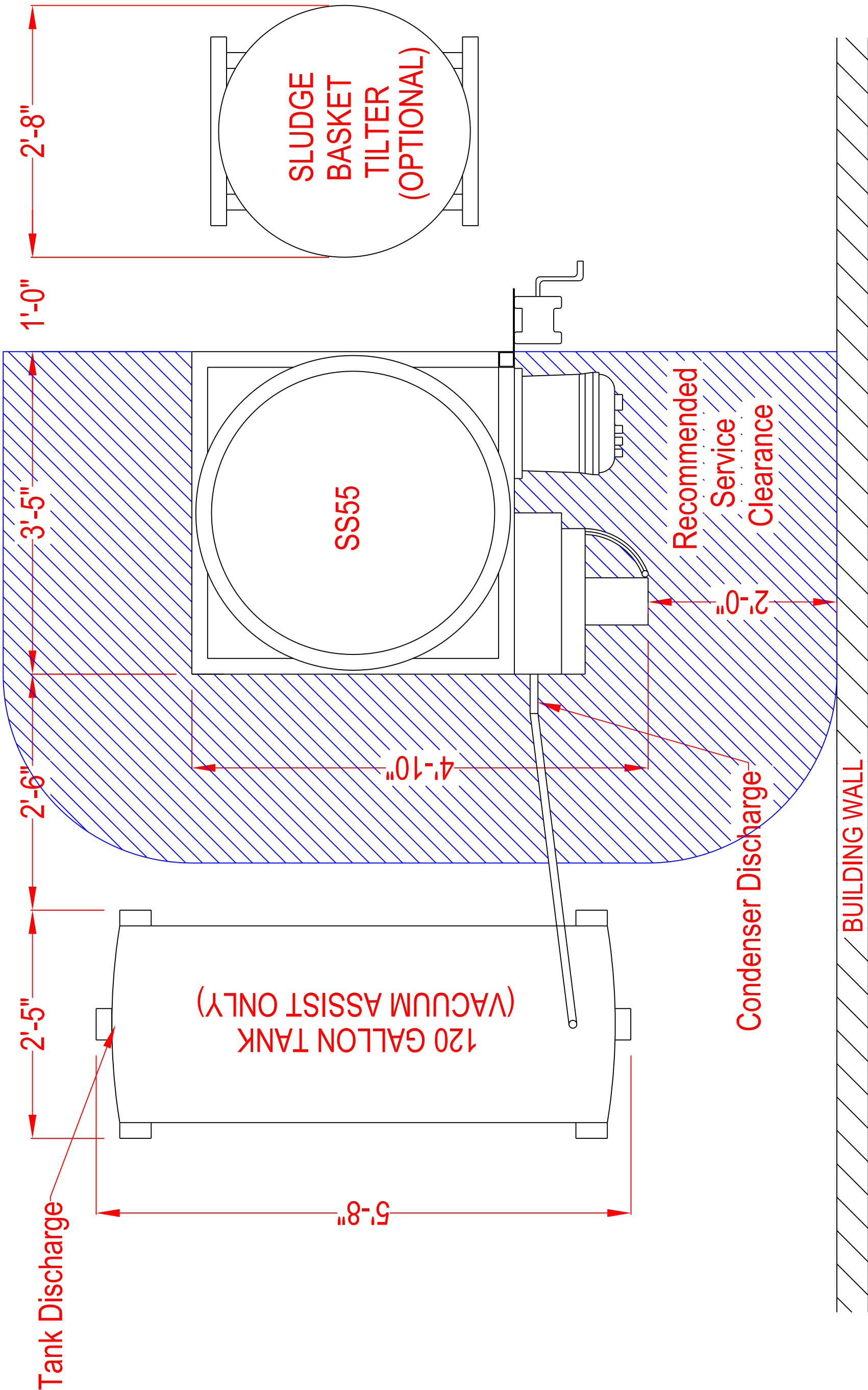
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to www.beccainc.com

NAME OF PROJECT:		REV:	DATE:	REVISION DESCRIPTION:	BY / NO:
55 Gal Recycler					
DRAWN BY:		CHECKED BY:	DATE:	SCALE:	
C. Bythwood			01/04/2013		



DESCRIPTION OF DRAWING:	
Equipment Layout	
DRAWING NO:	SHEET NO:
SS55	1

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SOLVENT SAVER™ RECYCLER

Options & Accessories

The Professionals Choice

VACUUM ASSIST SYSTEM

For All SOLVENT SAVER™ Models.

The Vacuum Assist system was designed to reduce the atmospheric pressure in the boiler upto 25" Hg. Vacuum Assist helps the following::

- Increase the differential between the Auto Ignition Temperature and the boiling point of a solvent. This reduces the potential hazard for some solvents during the distillation process.
- Increase the capability of the Recycler to handle solvents with higher boiling points or solvents with high surface tension.
- Improve performance (speed) of the Recycling Process from 10–30%



HC Recycler



SS17.5 Recycler

Vacuum Assist can be used on any Recycler package. Note: Some systems will require a pump transfer kit to move the solvent from the Vacuum Assist tank to another container such as a drum or another clean solvent tank. Contact BECCA for the selection requirements for your system

BECCA Protect™ Film

For all SOLVENT SAVER™ Models



Before Removal

New Application of BECCA Protect™



Recycler/Dual Spray Gun Cleaner Valve Kit

For SOLVENT SAVER™ SC & HC Models

This system provides the capability for a Recycler to handle **two** Spray Gun Cleaners. The function is quite simple. The valve package allows an operator to select between an “A” or “B” Spray Gun Cleaner to unload the “Used” solvent to the recycler.



Any of BECCA's Spray Gun Cleaners can be utilized for the Recycler/Dual Spray Gun Cleaner Valve Kit.

5 Gallon Cans or 10 Gallon Tanks

For SC & HC SOLVENT SAVER™ Models

The **5 gal Cans** are standard solvent containers and come equipped with a pour spout.



SC & HC SOLVENT SAVER™ Models

The **10 gal Tanks** are designed for the most demanding operations. Performance features:

- Stainless Steel Construction
- Sight Glass
- Direct Connection



Tank Transfer Pump Kit

For ALL SOLVENT SAVER™ RECYCLER Models

Some Recycler Systems require the transfer of solvents to and from the unit. We have Transfer Kits available to handle any situation:

- **Pump Transfer Kit - Drum to Recycler** — provides a pump and valve system to control the loading of the Recycler.
- **Pump Transfer Kit - Recycler to Drum** (Only on HC & SC Models) — provides a pump and valve system to control the unloading of the Recycler to another container.



The picture shows a “Clean” solvent pump system on the back of a HC recycler ready to move solvent to another container.



SS17.5 Recycler



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SOLVENT SAVERTM RECYCLER

Accel-CoolTM

Accelerated Cooling System
for Increased Productivity

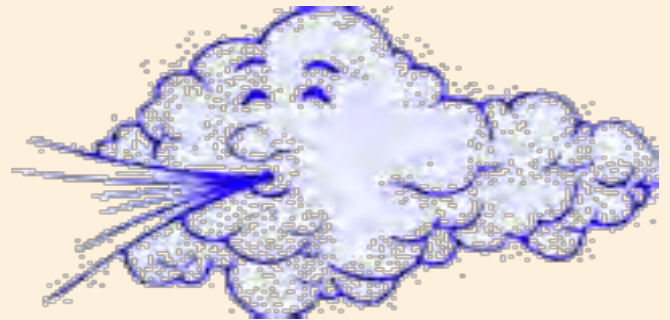
*The
Professionals
Choice*

Accel-CoolTM

(3, 6, 17.5 & 55 Gal Recyclers)

Benefits

- Reduces Recycler Cooling Time
- Only requires Compressed Air—NO WATER!
- Low CFM Consumption w/ Air Amplifier
- Complies or Exceeds International Safety Standards
- Fully Automated Cycle
- 1 Year Warranty—Longest in the Industry
- **BECCA CareTM** - Local sales,



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Deliver Quality Products

Bring the Latest in Technology

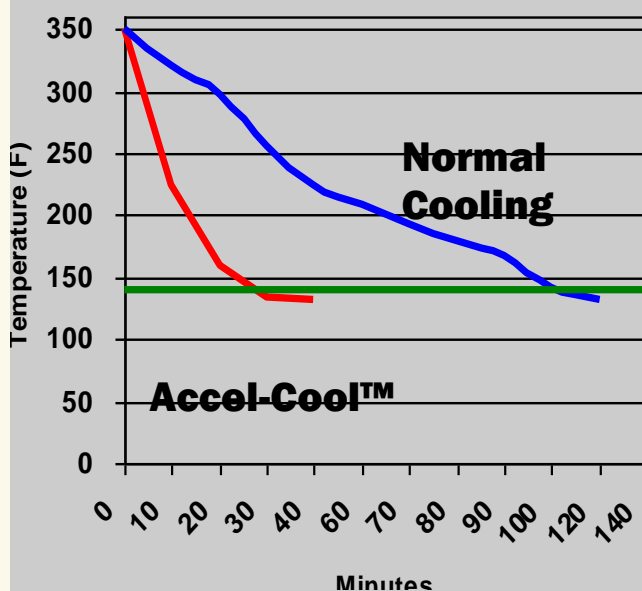
Provide the Best Service

Let us show you the **BECCA Care™** way!

Air Consumption

20 PSI	40 PSI	60 PSI	80 PSI	100 PSI
7 SCFM	12 SCFM	16.5 SCFM	21.5 SCFM	26 SCFM

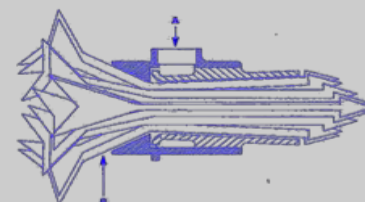
Cooling Time



BECCA Accel - Cool™

BECCA has created the finest system for reducing your solvent purchases and your Hazardous Waste generation! The BECCA Solvent Saver™ is simply the most practical, cleanest and most cost effective solution for your solvent recovery needs.

Now BECCA has designed **Accel-Cool** to reduce the time it takes to cool the recycler and get it ready for the next process. Results will vary depending on the amount of solids in your particular waste. Testing and actual use have shown a reduction of up to 75% in cooling time.



(Test conducted w/ 17.5 Gal Recycler)



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SOLVENT SAVER™ **RECYCLER**

Recycler Bags

*The
Professionals
Choice*

SOLVENT SAVER™

Recycler Bags

Our Solvent Recovery Bags are known for their superior design in:

- **Wide Range of Chemical Resistance**
- **Tensile Strength**
- **Thermal Resistance**
- **Abrasion and Puncture Resistance**
- **Recyclable**
- **Heat Resistant 493°F (204° C)**



"Innovation for Waste Minimization"



BECCA offers a full range of Solvent Recovery Bags for all BECCA Solvent Recovery and BECCA Recycling equipment. Our Solvent Recovery Bags are also compatible with most of our competitors' equipment.

- Uniram
- Sidewinder
- Etc



BECCA has an abundant amount of High Quality Solvent Recovery Bags coming in a variety of different quantities.

- 25 Pack - 25 Bags
- 50 Pack - 50 Bags
- 100 Pack - 100 Bags (Best Pricing)

Part #

Bag Size

630003 - 25 (19"W x 19"L)

630003 - 50

630003 - 100

660006 - 25 (24"W x 24"L)

660006 - 50

660006 - 100

617017 - 25 (30"W x 33"L)

617017 - 50

617017 - 100

655055 - 25 (47"W x 54"L)

655055 - 50

655055 - 100



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BECCA PRICING

**3 & 6 Gal.
Recyclers**

Phone: 770.419.5913 or 800.655.5649 Fax: 770.419.9438 or 800.655.5684
Website: www.beccainc.com Email orders to sales@beccainc.com

All prices are in USD. Prices Effective January 1, 2021. Prices Subject to Change without Notice. A 2.5% Fee will be Added to all Credit Card Orders over \$3,000.00. Lift Gates are an Extra Charge. All Parts Carry a 90 Day Warranty - Labor Not Included.

SC	Solvent Saver Standard Capacity (3-Gallon) Recycler	\$5,290.60	\$7,558
Part #	Options - SC Only	Cost	List
630003-50	Recycler Bags for SC 3-Gal (Package of 50) add	\$133.70	\$191
630003-100	Recycler Bags for SC 3-Gal (Package of 100) add	\$219.10	\$313
824021	Foam Breaker Grill for SC 3-Gal	\$288.40	\$412
831004APSC	"BECCA Protect Film" applied to unit add	\$203.00	\$290

HC	Solvent Saver High Capacity (6-Gallon) Recycler	\$6,328.00	\$9,040
Part #	Options - HC Only	Cost	List
660006-50	Recycler Bags for HC 6-Gal (Package of 50) add	\$174.30	\$249
660006-100	Recycler Bags for HC 6-Gal (Package of 50) add	\$308.00	\$440
824022	Foam Breaker Grill for HC 6-Gal	\$329.70	\$471
831004APHC	"BECCA Protect Film" applied to unit add	\$203.00	\$290

Options - Common between SC and HC Recyclers		Cost	List
825075-HC	Accel-Cool for 3&6 Gal Recyclers-Reduces cool down to 1hr	\$3,801.70	\$5,431
805003	Stainless Steel Condenser add	\$2,663.50	\$3,805
823200B	5 Gallon Solvent Can add	\$25.90	\$37
830107K	10 Gallon Stainless Steel Tank add	\$737.10	\$1,053
825156K	Vacuum Assist Sys (Includes Vac Assist & Transfer Pump Recycler to Drum) add	\$2,683.10	\$3,833
824542K	3-Way Valve Kit for Dual Gun Cleaners add	\$166.60	\$238
825045K	BECCA Water Separator System add	\$4,668.30	\$6,669
835001K	Oil Fill Accelerator Unit	\$236.60	\$338
Pump Transfer Kits - Std Recyclers (To move Solvent to Recycler and from Recycler)			
825066K	"Transfer Kit - Drum to Recycler" add	\$757.40	\$1,082
825067K	"Transfer Kit - Recycler to Drum" add	\$757.40	\$1,082



BECCA PRICING

**17.5 & 55
Recyclers**

Phone: 770.419.5913 or 800.655.5649 Fax: 770.419.9438 or 800.655.5684
Website: www.beccainc.com Email orders to sales@beccainc.com

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SS17.5	Super Capacity Solvent Saver (17.5-Gallon) Recycler	\$19,564.30	\$27,949
Part #	Options - 17.5 Gallon Only	Cost	List
617017-50	Recycler Bags 17.5 Gal (Package of 50) add	\$344.40	\$492
617017-100	Recycler Bags 17.5 Gal (Package of 100) add	\$503.40	\$839
825075-17.5	BECCA Accel-Cool™ System (Speeds Cooling reducing time between cycles) add	\$4,692.10	\$7,705
170460	Vacuum Assist (Includes 60 Gal Tank & Stand) add	\$6,223.00	\$8,890
170541	Auto Fill System (Includes PLC, Level Switch, Auto Fill Lid, Pump & Vacuum Control) add	\$8,713.60	\$12,448
179054	Stainless Steel Boiler (Must be installed at factory)	Call	Call
179066	Stainless Steel Condenser (Factory Installed)	\$2,734.90	\$3,907
824017	Foam Breaker Grill for 17.5 Gal	\$402.50	\$575
831004AP17	"Becca Protect Film" applied to unit add	\$280.70	\$401

SS55	Ultra Capacity Solvent Saver (55-Gallon) Recycler	\$41,797.00	\$59,710
Part #	Options - 55 GAL Only	Cost	List
655055-50	Recycler Bags 55 Gal (Package of 50) add	\$577.50	\$825
655055-100	Recycler Bags 55 Gal (Package of 100) add	\$865.80	\$1,443
825075-55	BECCA Accel-Cool™ System (Speeds Cooling reducing time between cycles) add	\$5,393.50	\$7,705
550462	Vacuum Assist (Includes 120 Gal Tank & Stand)	\$6,731.90	\$9,617
550542	Auto Fill System (Includes PLC, Level Switch, Auto Fill Lid, Pump & Vacuum Control) add	\$7,581.00	\$10,830
551026	Sludge Basket Tilter add	\$3,828.30	\$5,469
559055	Stainless Steel Boiler (Factory installed)	Call	Call
559066	Stainless Steel Condenser (Factory Installed) add	\$3,696.00	\$5,280
550055	Foam Breaker Grill for 55 Gal	\$460.60	\$658
831004AP55	"Becca Protect Film" applied to unit add	\$308.70	\$441

Options - Common between 17.5 & 55 Gal Recyclers		Cost	List
178102	For "Transfer Kit" (To move Solvent from a Container to the Recycler) add	\$2,668.40	\$3,812
825045K	BECCA H2O Separator™ System add	\$4,060.70	\$5,801

FREE SOLVENT WASTE TEST !

**Evaluate your Solvent Waste Prior
to Purchase to Assure Results**

FREE!

FREE!



=



+



**Waste Solvent
You Send
Us This**

Clean Solvent

Waste Residues

We Supply Results

- Collect a 5 gallon sample of your typical solvent waste and send to BECCA (via approved Haz. Waste Shipper)
- BECCA will process your waste solvent in a Solvent Saver™ Recycler
- BECCA will provide to you:
 - Written Report based on test parameters
 - Recycled "Clean" Solvent Sample for your analysis
 - Remaining Waste Sample for your analysis



**3 & 6
Gallon
Recyclers**



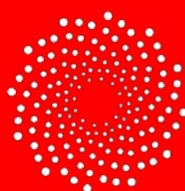
17.5 Gallon Recycler



55 Gallon Recycler

NOTE: Lab analysis is left to the customer for detailed information (if required)

Solvent Recyclers &
Spray Gun Cleaners
www.beccainc.com



BECCA®

1-800-655-5649

BECCA Inc
2010 Cobb Intl Blvd
Ste H
Kennesaw, GA 30152
Attn: Barry Thomas

CUSTOMER NAME

&



Recycler Return on Investment Program

Your Operation Input Data	
Description	Inputs
Operational Weeks/Yr	50
Solvent Purch/Wk (Gal)	8.0

Your Material Cost \$ Input Data	
Description	Inputs
Cost of Solvent / Gal	\$ 7.70
Cost of Disposal / Gal	\$ 2.50

Performance Factors	
Description	Inputs
% of Solvent Evaporated from Use	10%
% of Solids in Waste Solvent	10%

Solvent Purchase and Disposal Cost Current System		
Description		Actual \$ Calc
Solvent Purchased / Wk (Gallons)		8.0
Cost of Solvent / Wk		\$ 61.60
% of Solvent Evaporated from Use / Wk		\$ 6.16
% of Solids in Waste Solvent / Wk		\$ 6.16
Cost of Disposal / Wk		\$ 19.50
Total Cost / Wk		\$ 93.42
Annual Purch/Disposal \$ w/o Recycling		\$ 4,671

Annual Purch/Disposal \$ w/Recycling	\$ 2,779
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Unit Type & Purchase Cost Input Data		
Qty	Description	Input Unit \$
1	SC 3 Gal Solvent Saver Recycler	\$ 5,949

Unit Operation & Maintenance Cost	
Description	Operating \$
Annual Ops & Maint \$ (Bags, Oil, Seals, Maint)	\$ 1,496
Additional Solvent Due to Cleaning Evaporation	\$ 308

Your Benefits	
1) With your Use Per Week @	8

Gal Your Payback will be in

1.87 Years

- 2) Reduce your Cost \$\$\$ and put more to the Bottom Line \$\$\$!
- 3) Reduce your Environmental Exposure! (Possibly reduce your status from Large to a Small Quantity Generator; or a Small to a Conditionally Exempt Quantity Generator-See EPA Environmental Guidelines)
- 4) Reduce your Paperwork and Possible Inspections for Compliance!

Estimated Savings in5 Years

\$ 3,512

.....10 Years

\$ 12,974

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BECCA Inc.

CUSTOMER NAME

&



Recycler Return on Investment Program

Leasing Calculation Input Data	
Description	Input
Lease Time Frame	5 Years
Leasing Factor	0.0204

Leasing Program Analysis		
Description	Actual \$	
Your Monthly Lease Cost	\$	121
Your Monthly Solvent Purch/Dispos,Ops & Maint Cost	\$	232
Total Monthly Lease & Operating \$ with Recycling is	\$	353

Your Monthly Cost with Current System is	\$	389
--	----	-----

Your Leasing Benefits	
1) With your Use Per Week @	8

Gal of Solvent & utilizing a Lease for your purchase

of the BECCA	SC 3 Gal Solvent Saver Recycler	Your Savings is	\$	36.33	Per Month
(Based on Monthly Average)					

- 2) Reduce your Cost \$\$\$ and put more to the Bottom Line \$\$\$!
- 3) Reduce your Environmental Exposure! (Possibly reduce your status from Large to a Small Quantity Generator; or a Small to a Conditionally Exempt Quantity Generator-See EPA Environmental Guidelines)
- 4) Reduce your Paperwork and Possible Inspections for Compliance!

Estimated Savings During	5	Year of Lease Period is.....	\$	2,180
Estimated Savings in.....7 Years			\$	4,072
	10 Years	\$	27,427

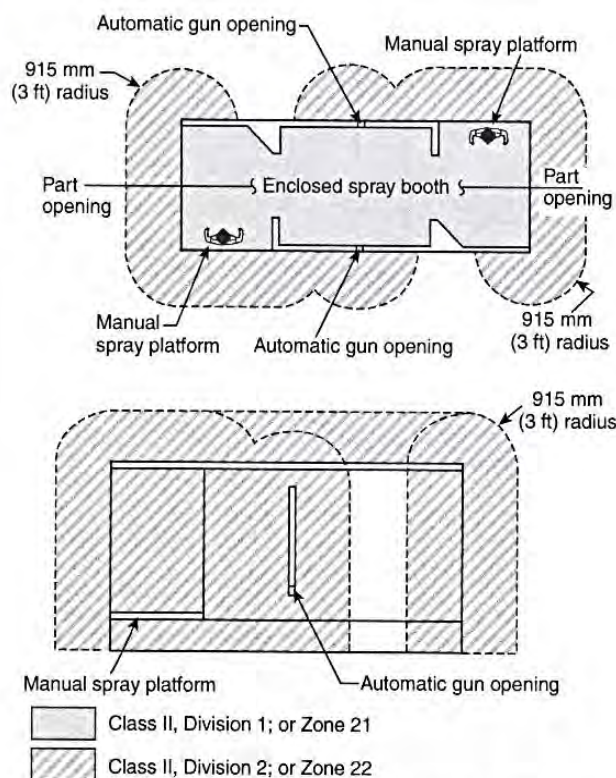
NFPA®

33

**Standard for
Spray Application
Using Flammable or
Combustible Materials**

2018





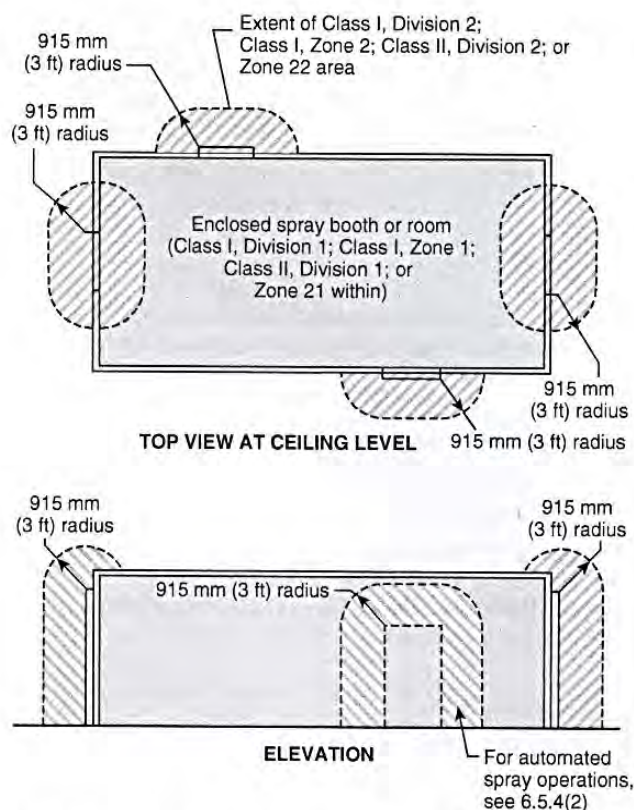
Δ FIGURE 6.5.2(b) Class II, Division 1; or Zone 21 Locations Inside Powder Coating Booth and On the Manual Spray Platforms. Class II, Division 2; or Zone 22 Locations Adjacent to Automatic Gun Openings and Outer Edge of the Manual Spray Platform for Powder Coating Booth.

- (2)* Where automated spray application equipment is used, the area outside the access doors shall be unclassified provided the door interlock prevents the spray application operations when the door is open.
- (3) Where exhaust air is recirculated and all requirements of Section 7.5 are met, both of the following shall apply:
 - (a) The interior of any recirculation path downstream of the recirculation particulate filter up to and including the air supply plenum shall be classified as Class I, Division 2; Class I, Zone 2; Class II, Division 2; or Zone 22 locations, whichever is applicable.
 - (b) The interior of fresh air supply ducts shall be unclassified.
- (4) Where exhaust air is not recirculated, the interior of fresh air supply ducts and fresh air supply plenums shall be unclassified.

6.5.5* Open containers, supply containers, waste containers, spray gun cleaners, and solvent distillation units that contain Class I liquids shall be located in areas ventilated in accordance with applicable requirements of Chapter 7.

6.5.5.1 Electrical area classification shall be as follows:

- (1) The area within 915 mm (3 ft) in all directions from any such container or equipment and extending to the floor



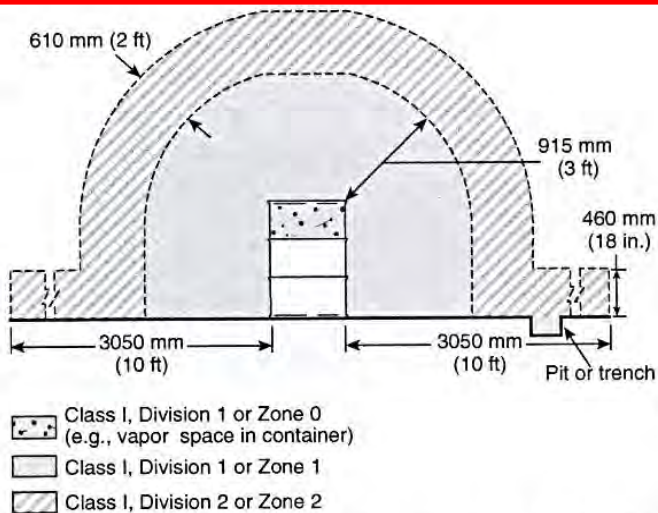
Δ FIGURE 6.5.4 Class I, Division 2; Class I, Zone 2; Class II, Division 2; or Zone 22 Locations Adjacent to an Enclosed Spray Booth or Spray Room.

- or grade level shall be classified as Class I, Division 1 or Class I, Zone 1, whichever is applicable.
- 2) The area extending 610 mm (2 ft) beyond the Division 1 or Zone 1 location shall be classified as Class I, Division 2 or Class I, Zone 2, whichever is applicable.
- 3) The area extending 1525 mm (5 ft) horizontally beyond the area described in 6.5.5.1(2) up to a height of 460 mm (18 in.) above the floor or grade level shall be classified as Class I, Division 2 or Class I, Zone 2, whichever is applicable.
- 4) The area inside any tank or container shall be classified as Class I, Division 1 or Class I, Zone 0, whichever is applicable.

6.5.5.2 Electrical wiring and utilization equipment installed in these areas shall be suitable for the location, as shown in Figure 6.5.5.2.

6.6 Illumination.

6.6.1 Luminaires, like that shown in Figure 6.6.1, that are attached to the walls or ceiling of a spray area but that are outside any classified area and are separated from the spray area by glass panels that meet the requirements of Section 5.6 shall be suitable for use in unclassified locations. Such fixtures shall be serviced from outside the spray area.



Δ FIGURE 6.5.5.2 Electrical Area Classification for Class I Liquid Operations Around Open Containers, Supply Containers, Waste Containers, Spray Gun Cleaners, and Solvent Distillation Units.

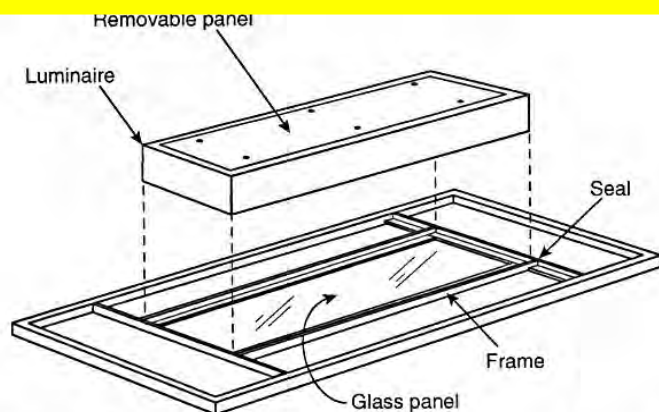


FIGURE 6.6.1 Example of a Luminaire Mounted Outside the Spray Area and Serviced from Outside the Spray Area.

6.6.2 Luminaires, like that shown in Figure 6.6.1, that are attached to the walls or ceiling of a spray area; that are separated from the spray area by glass panels that meet the requirements of Section 5.6; and that are located within a Class I, Division 2; a Class I, Zone 2; a Class II, Division 2; or a Zone 22 location shall be suitable for such location. Such fixtures shall be serviced from outside the spray area.

6.6.3 Luminaires, like that shown in Figure 6.6.3, that are an integral part of the walls or ceiling of a spray area shall be permitted to be separated from the spray area by glass panels that are an integral part of the fixture. Such fixtures shall be listed for use in Class I, Division 2; Class I, Zone 2; Class II, Division 2; or Zone 22 locations, whichever is applicable, and also shall be listed for accumulations of deposits of combustible residues. Such fixtures shall be permitted to be serviced from inside the spray area.

6.6.4 Luminaires that are located inside the spray area shall meet the requirements of Section 6.4 and Section 6.7.

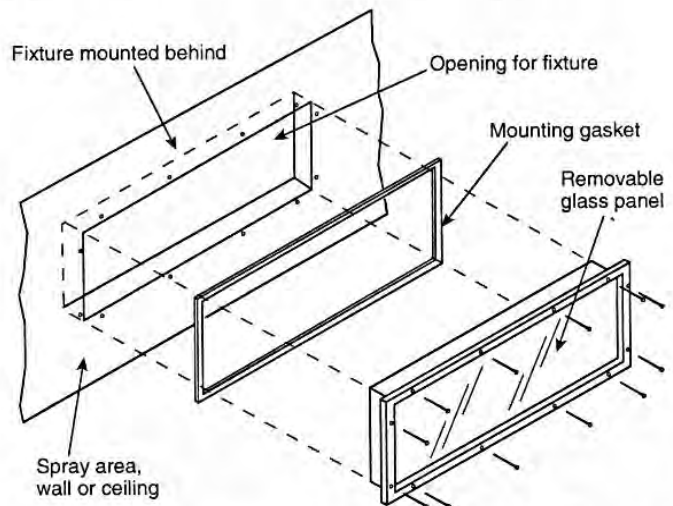
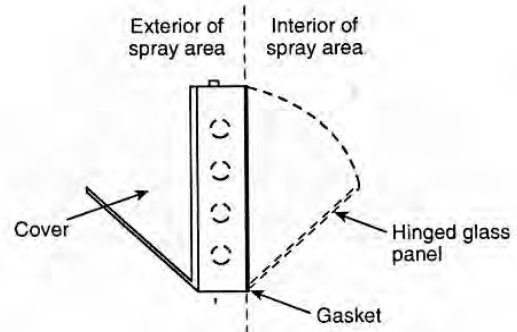


FIGURE 6.6.3 Examples of Luminaires That Are Integral Parts of the Spray Area and That Are Serviced from Inside the Spray Area.

6.7* Static Electricity. All electrically conductive objects in the spray area, except those objects required by the process to be at high voltage, shall be electrically connected to ground with a resistance of not more than 10^6 ohms (1 megohm). This requirement shall apply to containers of coating material, wash cans, guards, hose connectors, brackets, and any other electrically conductive objects or devices in the area. This requirement shall also apply to any personnel who enter the spray area.

6.8 Flexible Power Cords. For automated equipment and robotic equipment, flexible power cords shall be permitted to be used in hazardous (classified) locations and shall be permitted to be connected to the fixed part of the electrical circuit, provided they meet all of the following conditions:

- (1) They are approved for extra-hard usage.
- (2) They are equipped with a grounding conductor that meets the requirements of Section 400.2 of *NFPA 70*.
- (3) They are connected to terminals or conductors in an approved manner.
- (4) They are supported by a positive mechanical clamp in such a manner that permits the cord to be readily replaced and prevents strain at the cord connections within the terminal enclosure.

Chapter 10 Operations and Maintenance

10.1* General. Maintenance procedures shall be established to ensure that all spray application apparatus and processes are operated and maintained in accordance with the manufacturers' specifications and the requirements of this standard. Maintenance shall be the responsibility of the users of the apparatus and processes.

10.1.1* Spray application operations shall not be conducted outside predetermined spray areas.

10.1.2 Inspection of extinguishing systems shall be conducted to ensure that the performance of the extinguishing system components will not be affected by overspray and residues.

10.2* Combustible Deposits.

10.2.1 All spray areas shall be kept free of excessive accumulation of deposits of combustible residues.

10.2.2 Combustible coverings (thin paper, plastic) and strippable coatings shall be permitted to be used to facilitate cleaning operations in spray areas.

10.2.2.1 Where plastic covering is used, it shall be of a static dissipative nature or shall have a maximum breakdown voltage of 4 kV to prevent accumulation of a hazardous static electric charge.

10.2.3 If residue accumulates to excess in booths, duct or duct discharge points, or other spray areas, all spraying operations shall be discontinued until conditions have been corrected.

10.3 High-Pressure Hose Lines. High-pressure hose lines that convey flammable or combustible coating material in "airless" spray application operations shall be inspected daily and shall be repaired or replaced as necessary. Hose lines and equipment shall be located so that, in the event of a leak or rupture, coating material will not be discharged into any space having a source of ignition.

10.4 Maintenance Procedures.

10.4.1 Overspray collectors shall be inspected daily and clogged filters shall be discarded and replaced. Maintenance procedures shall be established to ensure that overspray collector filters are replaced before restriction to airflow is reduced below the minimum established by Section 7.2.

10.4.2 At the close of the day's operation, all discarded overspray collector filters, residue scrapings, and debris contaminated with residue shall be removed immediately to a designated storage location, placed in a noncombustible container with a tight-fitting lid, or placed in a water-filled metal container.

10.5* Waste Containers.

10.5.1 Approved waste containers shall be provided wherever rags or waste are impregnated with sprayed material, and all such rags or waste shall be deposited therein immediately after use. The contents of waste containers shall be placed in a designated storage location.

10.5.2 Waste containers containing flammable liquids shall be located in ventilated areas that meet the requirements of Chapter 7. Such areas shall also meet the electrical area classification requirements of 6.5.5.

10.5.3* Waste containers for flammable liquids shall be constructed of conductive materials and shall be bonded and grounded.

10.5.4 Waste containers for flammable liquids shall be handled and stored in accordance with Chapter 8.

10.6 Clothing. Employees' clothing contaminated with sprayed material shall not be left on the premises overnight unless kept in metal lockers.

10.7 Cleaning Operations.

10.7.1 Scope. This section shall apply to the use of flammable or combustible liquids for the flushing and cleaning of equipment.

10.7.2 Liquids. Class I and Class II liquids used in cleaning operations shall be in original shipping containers or in listed safety containers.

10.7.3 Location. Cleaning operations using flammable or combustible liquids shall be conducted inside a spray area with ventilating equipment operating or in ventilated areas that meet the requirements of Chapter 7. Such areas shall also meet the electrical area classification requirements of 6.5.5.

10.7.4* Equipment. Equipment using flammable or combustible liquids shall meet the requirements of 6.5.5 and shall be bonded and grounded.

10.7.5 Manual Cleaning. Individual manual cleaning operations shall be limited to not more than 4 L (1 gal) of flammable or combustible liquid for each cleaning operator.

10.7.6 Liquid Storage. Flammable and combustible liquids shall be handled and stored in accordance with Chapter 8. Containers used for handling, storage, or recovery of Class I liquids shall be constructed of conductive materials and shall be bonded and grounded.

10.8 Solvent Distillation Units (Solvent Recyclers).

10.8.1 Scope.

10.8.1.1 Section 10.8 shall apply to solvent distillation units having distillation chambers or still pots that do not exceed 227 L (60 gal) nominal capacity and are used to recycle Class I, Class II, or Class IIIA liquids. [30:19.6.1.1]

10.8.1.2 This section shall not apply to research, testing, or experimental processes; to distillation processes carried out in petroleum refineries, chemical plants, or distilleries; or to distillation equipment used in dry cleaning operations. [30:19.6.1.2]

10.8.2 Equipment. Solvent distillation units shall be approved or shall be listed in accordance with ANSI/UL 2208, *Standard for Solvent Distillation Units*. [30:19.6.2]

10.8.3 Solvents. Solvent distillation units shall only be used to distill liquids for which they have been investigated and that are listed on the unit's marking or contained within the manufacturer's literature. [30:19.6.3]

10.8.3.1 Unstable or reactive liquids or materials shall not be processed unless they have been specifically listed on the system's markings or contained within the manufacturer's literature. [30:19.6.3.1]

10.8.4 Location. [30:19.6.4]

10.8.4.1 Solvent distillation units shall be located and operated in locations in accordance with their approval or listing.

10.8.4.2 Solvent distillation units shall not be used in basements.

10.8.4.3 Solvent distillation units shall be located away from potential sources of ignition, as indicated on the unit's marking.

10.8.5 Liquid Storage. Distilled liquids and liquids awaiting distillation shall be stored in accordance with Chapter 6 of NFPA 30.

10.9* Spontaneous Ignition Hazards. The same spray booth shall not be alternately used for different types of coating materials if the combination of the materials is conducive to spontaneous ignition, unless all deposits of the first-used coating material are removed from the booth and exhaust ducts prior to spraying with the second coating material.

10.10* Chlorinated Solvents. Coating materials containing chlorinated solvents shall not be used with spray application apparatus or fluid-handling equipment if the chlorinated solvent will come into contact with aluminum within a piping system, pump, enclosed container, or any enclosure that is capable of being pressurized by the potential reaction. This shall apply even if the container or system has been constructed with pressure relief devices.

10.11 Smoking. Signs stating NO SMOKING OR OPEN FLAMES in large letters on contrasting color background shall be conspicuously posted at all spray areas and paint storage rooms.

10.12* Hot Work. Welding, cutting, and other spark-producing operations shall not be permitted in or adjacent to spray areas until a written permit authorizing such work has been issued. The permit shall be issued by a person in authority following his or her inspection of the area to ensure that precautions have been taken and will be followed until the job is completed.

Chapter 11 Automated Electrostatic Spray Equipment

11.1 Scope. This chapter shall apply to any equipment using electrostatically charged elements for the atomization, charging, or precipitation of flammable and combustible materials for coatings on articles or for other purposes in which the charging or atomizing device is attached to a mechanical support or manipulator, including robotic devices. This chapter shall not apply to devices that are held or manipulated by hand.

11.2 General.

11.2.1 The installation and use of automated electrostatic spray application apparatus shall comply with the requirements of this chapter and also shall comply with the applicable requirements of all other chapters.

11.2.2 Where robot programming procedures involve manual manipulation of the robot arm while spraying with the high-voltage components energized, the provisions of Section 12.5 also shall apply.

11.3 Automated Electrostatic Systems. All automated electrostatic equipment systems shall comply with the requirements of 11.3.1 through 11.3.11.

11.3.1 Transformers, high-voltage supplies, control apparatus, and all other electrical portions of the equipment shall be located outside the spray area, as defined in 3.3.3.3, except as provided in 11.3.1.1 or 11.3.1.2.

11.3.1.1 Equipment that meets the requirements given in Chapter 6 shall be permitted to be located in the spray area.

11.3.1.2 High-voltage grids, electrodes, electrostatic atomizing heads, integral power supplies, and their connections shall be permitted to be located in the spray area.

11.3.2 Electrodes and electrostatic atomizing heads shall be insulated from ground. Electrodes and electrostatic atomizing heads that are permanently attached to their bases, supports, reciprocators, or robots shall be deemed to comply with this requirement.

11.3.3 High-voltage cables shall be insulated and protected from mechanical damage and exposure to destructive chemicals.

11.3.4* All electrically conductive objects in the spray area, except those objects required by the process to be at high voltage, shall be electrically connected to ground with a resistance of not more than 1 megohm (10^6 ohms). This requirement shall apply to containers of coating material, wash cans, guards, hose connectors, brackets, and any other electrically conductive objects or devices in the area. This requirement shall also apply to any personnel who enter the spray area.

11.3.5 Conductive objects or material being coated shall be electrically connected to ground with a resistance of not more than 1 megohm (10^6 ohms). Areas of contact shall be sharp points or knife edges, where possible, and those areas of contact shall be protected from overspray, where practical.

11.3.6 Highly resistive objects (i.e., surface conductivity between 10^8 and 10^{11} ohms per square) that exhibit a surface voltage below 2500 volts, as measured using a nonloading kilovoltmeter and when subjected to coronal current not less than that expected in the application process, shall be considered adequately grounded.

11.3.7 Objects or material transported by a conveyor shall be maintained in electrical contact with the conveyor or other grounding contacts. Hooks and hangers shall be cleaned regularly to ensure grounding.

11.3.8* Electrostatic apparatus shall be equipped with automatic means to de-energize under any one of the following conditions:

- (1) Shutdown of ventilating fans or failure of ventilating equipment from any cause
- (2) Stopping of the conveyor carrying objects or material through the high-voltage field unless stopping is required by the spray process
- (3) De-energizing the primary voltage input to the power supply
- (4) Occurrence of excessive current leakage at any point on the high-voltage system



Recycler Cost of Operation Calculations

Formulas:

Volts (V) x Amps (A) = Watts (W)

Watts (W) x Hours (H)/1000 = Killowatt Hours (KwH)

KwH x Cost/KwH = Cost per cycle

Compressed Air Usage Formula – 4cfm = 1 Hp = .75 KwH

Calculations are based on US National Average 16 cents/KwH

Example:

1. 55 Gallon Recycler

Volts – 220V Amps – 50A Cycle Time – 6-8 hours

$$220 \times 50 = 11000 \text{ W}$$

$$11000\text{W} \times 6\text{H}/1000 = 66 \text{ KwH}$$

$$66\text{KwH} \times 16 \text{ cents/KwH} = 1056 \text{ cents or } \underline{\$10.56 \text{ per 6 Hour cycle}}$$

$$11000\text{W} \times 8\text{H}/1000 = 88 \text{ KwH}$$

$$88\text{KwH} \times 16 \text{ cents/KwH} = 1408 \text{ cents or } \underline{\$14.08 \text{ per 8 Hour cycle}}$$

2. 17.5 Gallon Recycler

Volts – 220V Amps – 13.5A Cycle Time – 3-7 hours

$$220 \times 13.5 = 2970 \text{ W}$$

$$2970\text{W} \times 3\text{H}/1000 = 8.91 \text{ KwH}$$

$$8.91\text{KwH} \times 16 \text{ cents/KwH} = 143 \text{ cents or } \underline{\$1.43 \text{ per 3 Hour cycle}}$$

$$2970\text{W} \times 7\text{H}/1000 = 20.79 \text{ KwH}$$

$$20.79\text{KwH} \times 16 \text{ cents/KwH} = 333 \text{ cents or } \underline{\$3.33 \text{ per 7 Hour cycle}}$$

3. 6 Gallon Recycler

Volts – 220V Amps – 10 A Cycle Time – 3- 5 hours

$$220 \times 10 = 2200 \text{ W}$$

$$2200\text{W} \times 3\text{H}/1000 = 6.6 \text{ KwH}$$

$$6.6\text{KwH} \times 16 \text{ cents/KwH} = 106 \text{ cents or } \underline{\$1.06 \text{ per 3 Hour cycle}}$$

$$2200\text{W} \times 5\text{H}/1000 = 11 \text{ KwH}$$

$$11\text{KwH} \times 16 \text{ cents/KwH} = 176 \text{ cents or } \underline{\$1.76 \text{ per 5 Hour cycle}}$$

4. Accel-Cool

Cycle Time – 30m - 1 hr

Air consumption of Venturi – 21.4cfm

$$21.4\text{cfm} \times .75\text{KwH}/4\text{cfm} \times .5\text{Hr} = 2 \text{ KwH}$$

$$2 \text{ KwH} \times 16 \text{ cents/KwH} = 32 \text{ cents or } \underline{\$.32 \text{ per 30 minute cycle}}$$

$$21.4\text{cfm} \times .75\text{KwH}/4\text{cfm} \times 1\text{Hr} = 4 \text{ KwH}$$

$$4 \text{ KwH} \times 16 \text{ cents/KwH} = 64 \text{ cents or } \underline{\$.64 \text{ per 1 hour cycle}}$$



Why Leasing?

Leasing is the easiest way to show a customer a very fast return on investment of the BECCA equipment. In fact, in most cases the lease payment is less than his current method of handling solvent and waste currently.

By leasing you can show a customer what they are currently spending and what a monthly payment would be with their new equipment. BECCA has found a lease company that is very aggressive and has many benefits compared to other lease company's from the past.

Why Leasing?

- ✓ Minimal Investment up front for customer.
- ✓ Conserve existing credit line.
- ✓ Lease payment usually lower than current payments for waste removal, solvent purchase and if they are renting product.
- ✓ Great Tax benefits (Customer should consult tax adviser)

Why BECCA Leasing Partners?

- ✓ All ready know and understand BECCA Products
- ✓ Easy Application
- ✓ No pre-payment penalties
- ✓ No fees of any kind.
- ✓ All leases \$ 1.00 purchase option.
- ✓ Easy Process:
 - Customer signs your quote
 - You fax to Leasing Partner
 - Leasing Partner sends docs to customer
 - Customer signs and sends first and last payment with docs
 - You receive a PO & Send PO to BECCA Inc
 - BECCA ships equipment.
 - Customer signs off on equipment
 - Leasing company sends check

BECCA Inc Leasing Partners:

- Lease Corporation of America 800-800-8098
- Navitas Lease Finance Corp 866-956-2848
- Trinity Finance 800-841-4433

Special BECCA Rates:

ASK FOR CURRENT RATES