

Box	Box Contains		
Metering tip	Mounting		
kit	hardware, template		
	& key set		
665 series	Instruction sheet		
dispenser			
4 SafeLink cap assemblies OR			
Bulk tubing, 4 ceramic weights			
and foot valves			

Suggested Tools		
Hammer	Phillips	
	screwdriver	
Drill w/ 3/16"	Tape measure	
& 9/32" bits	-	
Pencil	Level	

Overview

The Extreme 4 makes users more efficient, filling bottles and buckets with ease and quickness. Some of the great design features include:

- A single dial for 8 different dilution points
- Multi-point locking system for Extreme security
- Integrated ASSE approved backflow prevention
- Large sight window to identify product and level
- Branding panels to meet the 'look n' feel' need
- One-handed bottle and optional remote bucket fill

Warnings



All installations must conform to local plumbing codes and use approved backflow prevention devices. A pressure indicating tee is to be installed with existing faucets

according to local plumbing codes in the state of Wisconsin and any other state that requires the use of a pressure indicating tee



ALWAYS WEAR PROTECTIVE CLOTHING AND EYEWEAR WHEN WORKING WITH CHEMICAL PRODUCTS

Instruction Sheet Contents

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Operational Requirements

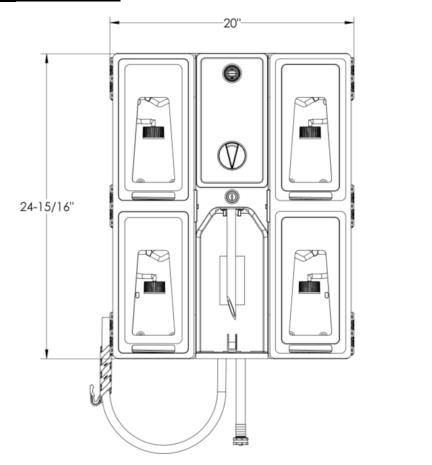
Water Supply Requirements

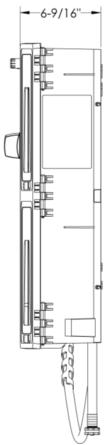
	Minimum	Maximum
Water Pressure	20 psi (1.38 bar)	125 psi (8.62 bar)**
Water Temperature	-	150°F (65.5°C)

** Recommended water pressure is between 20 psi (1.38 bar) and 70 psi. (5.52 bar). If pressure exceeds 70 psi, it is recommended that a water pressure regulator is used.



Overall Dimensions





Installation & Preparation

1. Identify desired location of dispenser. Remove cardboard mounting template from packaging, place against wall and mark hole locations using the template as a guide.

[For accuracy, use level with template to ensure the dispenser is level on the wall]

- 2. Install all four supplied anchors into marked hole locations from step 1. Using supplied screws, install top two screws and hang dispenser from them. Install bottom two screws through dispenser holes into the anchors.
- 3. Tighten screws against dispenser to assure a secure fit.
- 4. Install Drip Tray by sliding into place against tab in back of drip tray holder. [Optional: Drill 3/16" hole into drip tray barb and attach 1/4" ID hose (not supplied) for draining chemical from drip tray (Figure 1)

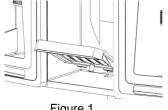


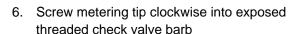
Figure 1



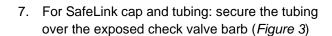
Installation & Preparation Cont'd

Steps 5 through 7 explain how to install metering tips. Metering tips will be installed at the two check valves located in each compartment. Check valves to bucket fill have a plastic ring, and check valves for bottle fill do not.

 To install metering tips, locate the correct check valve in each compartment. Identify desired metering tip based on color and dilution rate on the tip chart for bottle and bucket filling (Figure 2)



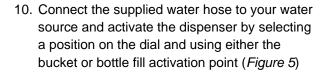
Note: A blank tip can be used to prevent a product from dispensing at bottle or bucket fill



For Open container: Measure bulk tubing needed and cut to length. Install ceramic weight and foot valve at base of tubing. Secure top of tubing over the exposed check valve barb

Note: Softening the tube with hot water will allow the tube to fit over the barb with ease

- 8. Position chemical container into each compartment in desired position and connect SafeLink cap or install tubing w foot valve and ceramic weight into open container (*Figure 4*)
- 9. Close and lock the cabinet doors



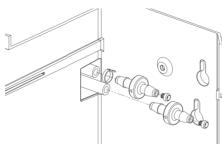


Figure 2

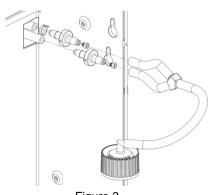


Figure 3

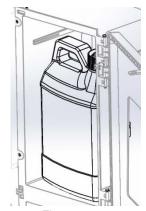


Figure 4

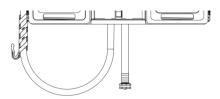


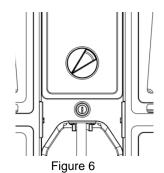
Figure 5



Operation

Chemical Selector Dial (Figure 6)

- Turn the chemical selector dial to the desired chemical position, indicated by the directional arrow
- Dispense chemical by either activating the bottle fill lever or bucket fill button (or remote fill trigger)
- For rinse water, point the dial straight down at the water symbol- This is not potable water, do not drink



Dispenser Activation Points - Bottle Fill (Figure 7)

- Slide the bottle tube inside the spray bottle and raise the bottle to engage the u-shaped lever of the bottle fill assembly
- 2. To stop filling, lower the bottle and the lever will disengage
- 3. Be careful when removing the spray bottle so as to not splash residual chemical

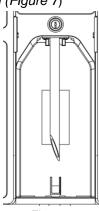


Figure 7

Dispenser Activation Points - Push Button Bucket Fill (if equipped) (Figure 8)

- To start the flow of diluted chemical, press button on unit above selector dial
- 2. For continuous flow, twist button clockwise
- 3. To disengage, release button or twist button counterclockwise



Figure 8

Dispenser Activation Points - Remote Fill (if equipped) (Figure 9)

- 1. To start the flow of diluted chemical, press trigger on handle of fill gun
- For continuous flow, while trigger is pressed, rotate the red lever downward and release trigger
- 3. To disengage, simply press the trigger again and the red lever will move out of position

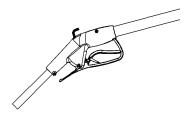


Figure 9



Metering Tip Charts

Table 1: Extreme 4 Metering Tips (Provided)						
	1 GPM Flow Rate Proportioner			4 GPM Flow Rate Proportioner		
Metering Tip Color	Oz./gal	ml/L	Ratio : 1	Oz./gal	ml/L	Ratio : 1
Tan	1.25	9.80	102	0.30	2.34	427
Orange	1.70	13.33	75	0.40	3.13	320
Turquoise	2.15	16.67	60	0.50	3.91	256
Royal Blue	2.37	18.52	54	0.56	4.39	228
Charcoal Gray	2.67	20.83	48	0.64	5.00	200
Pink	3.00	23.26	43	0.75	5.88	170
Light Blue	3.90	30.30	33	1.00	7.81	128
Brown	4.55	35.71	28	1.12	8.77	114
Red	5.80	45.45	22	1.50	11.76	85
White	7.00	55.56	18	1.75	13.70	73
Green	7.90	62.50	16	2.00	15.63	64
Blue	9.80	76.92	13	2.50	19.61	51
Yellow	14.80	111.11	9	3.75	39.41	34
Gray	31.60	250.00	4	11.50	90.91	11
No Tip	35.00	277.78	3.6	16.25	125.00	8

INDUCTION RATES BASED ON WATER THIN PRODUCTS (1 cps)
INDUCTION RATES VARY PRODUCT TO PRODUCT. FIELD TESTS ARE RECOMMENDED.

Table 2: Ultra Lean Metering Tips (Not Provided)						
	1 GPM Flow Rate Proportioner			4 GPM	Flow Rate P	roportioner
Metering Tip Color	Oz./gal ml/L Ratio : 1 Oz./gal ml/L Ratio : 1			Ratio : 1		
Copper	0.56	4.38	230	0.16	1.25	806
Pumpkin	0.73	5.70	175	0.20	1.56	625
Burgundy	0.90	7.03	143	0.26	2.03	490
Lime	1.28	10.00	100	0.34	2.66	376

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Troubleshooting: Water valve or backflow preventer is leaking

Symptom	Problem	Remedy
Leaking at water valve to	Connections are not tight, tubing is not secure	Secure tubing firmly against components,
proportioner (dispenser is on)		tighten clamps
Leaking at water valve (dispenser is	Connection to water valve is loose	Tighten fittings at water valve
off)	Water pressure is above acceptable range	Install pressure regulator
Leaking at Action Gap (if equipped)	Bucket fill tube is raised higher than	Ensure dispenser is installed at minimum
	proportioner	of 36" off floor
		Do not raise bucket fill tube higher than
		proportioner
	Backflow preventer is faulty	Replace Action Gap backflow preventer

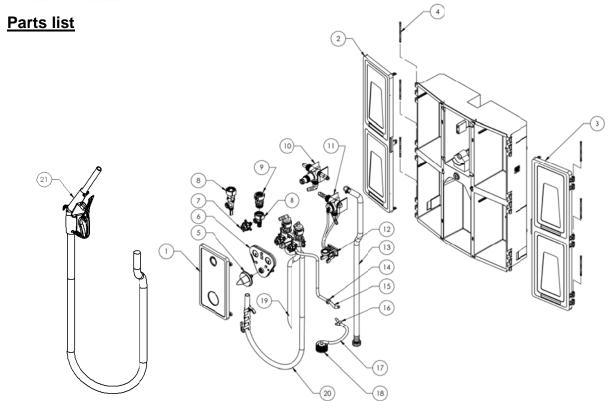
Troubleshooting: Chemical not drawing properly

	ncai not drawing property	D 1
Symptom	Problem	Remedy
Dispenser won't dispense chemical at	Screen washer on water supply hose is	Remove screen washer, clean out and
any locations	clogged	replace
	Water pressure is insufficient	Verify water pressure is minimum of
		20psi, remove screen washer, clean out
		and replace
	Mineral deposits are built up in proportioner	Soak proportioner in delimer to clean off
		mineral deposits
	Selector valve is not turning	Verify transmission aligns to selectors,
		verify transmission operates as intended
		Replace transmission
Dispenser is dispensing chemical	Transmission or selector valve not engaging	Verify transmission alignment to selector
from wrong position		valves
Chemical inlet tubing does not stay	Check valves are worn and have failed	Replace check valves
primed with chemical after use		
Dispenser does not dispense	Chemical bottle isn't drawing product	Replace bottle in question with new one
chemical from certain locations, but	Loss of vacuum is preventing chemical from	Check for vacuum at cap or foot valve, if
works at others	drawing	none, check both selector valves, if you
		have vacuum then replace check valves
		If no vacuum, remove selector and check
		for vacuum at proportioner inlet
		If you have vacuum then replace selector
		valve, If none, replace proportioner
	Selector valve is not turning	Verify transmission alignment to selector
	_	valves
		Replace selector valve(s)
		Replace selector valve(s)

Troubleshooting: Product dilution is incorrect

Symptom	Problem	Remedy
Product dilution is too weak or strong	Water flow to dispenser is fluctuating	Ideal water pressure range accurate
		chemical dilution is 30psi to 70psi max.,
		if over 70psi, install pressure regular





No.	Part No.	Description
1	14-3-3	Cover plate (Button operated)
1	1 14-3-2	Cover plate (Remote gun
ı.	14-3-2	operated)
3	14-2-3	Door – Left side
3	14-2-4	Door – Right side
4	10-47	Hinge Pin
5	66-339-1	Knob
6	63-53-15	Transmission Assembly
7	63-53-12	Selector Assembly
8	61-99-4	1 GPM Action Gap Proportioner
8	61-32-AGP	1 GPM Air Gap Proportioner
8	163CHA-NB	2.5 GPM Action Gap Proportioner
8	61-45-4	2.5 GPM Air Gap Proportioner
8	61-22-4	4 GPM Action Gap Proportioner
8	61-126AG-4	4 GPM Air Gap Proportioner
9	16-30	Action Gap Assembly
10	14-5-2	Push Button Valve Assembly
10	14-6-2	Remote Gun Valve Assembly
11	14-6-1	Bottle Fill Valve Assembly
12	98-58-1	Lever Assembly
13	44-3-6FCOS	6' Black Hose Assembly with Strainer
14	11-72-1	Check Valve (Threaded)
15	100-12-18	7/32" Tubing, 2"
16	66-500-2	Wye Adapter 1/4"
17	100-12-19	7/32" Tubing, 5"
18	C38CR4W.00	SafeLink Cap Assembly
19	66-242-1	Bottle Fill Tube – Action Gap
19	66-242-2	Bottle Fill Tube – Air Gap
20	89-30-GAP	Bucket Fill Tube – Action Gap
20	85-15-29-6	Bucket Fill Tube – Air Gap
21	40-736-3	Remote Gun Assembly

Parts Not Shown		
Part No.	Description	
66-21K	Keyset	
100-15K-EX4	Metering Tip Kit	
10-57-2	Drip Tray	
100-16V-15	Tubing & Foot Valve Assembly	
61-107-2	Ceramic Weight	
98-40-4	Screw & Anchor Kit	
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Warranty

Merchandise Returns

No merchandise will be returned for credit without DEMA's written permission. Please contact your dealer for warranty issues.

Product Warranty

DEMA's products are warranted against defective material and workmanship under normal use and service for one year from the date of manufacture. This limited warranty does not apply to any products that have a normal life shorter than one year or failure and damage caused by chemicals, corrosion, physical abuse, or misapplication. Rubber and synthetic rubber parts such as "O"-rings, diaphragms, PVC tubing, and gaskets are considered expendable and are not covered under warranty. This warranty is extended only to the original buyer of DEMA products. If products are altered or repaired without prior approval of DEMA, this warranty is void.

Defective units or parts should be returned to the factory with transportation prepaid. If inspection shows them to be defective, they will be repaired or replaced without charge, F.O.B. factory. DEMA assumes no liability for damages. Return merchandise authorization number must be granted in advance of returned units for repair or replacement (See "Merchandise Returns" above).