



## MURIATIC ACID SHOCK TREATMENT

### Acid shock treatment for treatment of inorganics in Sand Media Filters

**Safety Note:** Always wear eye protection, gloves and protective clothing whenever handling any chemicals. A safety water rinse station should also be available to rinse off any chemicals which may come in contact with service personnel.

**Do not mix chemicals** in this procedure and always induce chemicals into a water filled tank.

1. Remove manway lids and fill each tank with water up to the top of the weld seam. It is not necessary to remove the sand. Make sure the field valve is closed so water will be held in the filter tank.
2. Add 31.4% pool acid in the amount indicated in the table at right. Replace manway lid covers during acidification process, but do not bolt down tight. Place a sign on the tanks indicating a warning of chemical treatment in process.
3. Allow to stand for 5 hours. **BEWARE OF ACID FUMES!**
4. After the acidification period, secure manway lids, open field valve and initiate a backflush cycle. Flush each vessel for approximately 3 minutes and repeat flush sequence several times to remove loosened contaminant. Run system to flush out and dissipate any residual chemical.

**Note:** One or two treatments will usually be enough to unplug an underdrain that is contaminated with inorganics. Consult manufacturer if a high pressure differential persists.

Tank Diameter	Liquid Pool Muriatic Acid Required		
	Gallons	Cups	Fluid Oz.
14"		1	8
18"		1.5	13
24"		2.5	21
30"		4.5	37
36"		7	55
44"		11.5	92
48"	1	16	128

**Caution:**

1. **Never mix acid and chlorine!** Severe, dangerous chemical reaction occurs.
2. Acid shock recommended for carbonate fouling as an alternative for organic fouling.
3. Acid shock for 5 hours or less.
4. Quantities based on 31.4% muriatic acid (pool acid) as acid.
5. Never pour water into acid. Always pour acid into water.

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## CHLORINE SHOCK TREATMENT

### Chlorine shock treatment for treatment of organics in Sand Media Filters

**Safety Note:** Always wear eye protection, gloves and protective clothing whenever handling any chemicals. A safety water rinse station should also be available to rinse off any chemicals which may come in contact with service personnel.

**Do not mix chemicals** in this procedure and always induce chemicals into a water filled tank.

1. Remove manway lids and fill each tank with water up to the top of the weld seam. It is not necessary to remove the sand. Make sure the field valve is closed so water will be held in the filter tank.
2. Add 12% pool chlorine in the amount indicated in the table at right. Replace manway lid covers during acidification process, but do not bolt down tight. Place a sign on the tanks indicating a warning of chemical treatment in process.
3. Allow to stand for 24 hours. **BEWARE OF CHLORINE FUMES!**
4. After the chlorination period, secure manway lids, open field valve and initiate a backflush cycle. Flush each vessel for approximately 3 minutes and repeat flush sequence several times to remove loosened contaminant. Run system to flush out and dissipate any residual chemical.

**Note:** One or two treatments will usually be enough to unplug an underdrain that is contaminated with organics. Consult manufacturer if a high pressure differential persists.

Tank Diameter	Liquid Pool Chlorine Required		
	Gallons	Cups	Fluid Oz.
14"		2	16
18"		3	26
24"		5	42
30"		9	74
36"	0.85	14	110
44"	1.5	23	184
48"	2	32	256

**Caution:**

1. **Never mix chlorine and acid!** Severe, dangerous chemical reaction occurs.
2. Chlorine shock recommended for organic fouling only.
3. Chlorine shock for 24 hours.
4. Quantities based on 12% sodium hypochlorite (pool chlorine). Double treatment volumes if using 6% household bleach.

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