

# Trouble Shooting Chart

PROBLEM	CAUSES	SOLUTION	PREVENTIVE MEASURES
<b>Cloudy Water</b>	High pH	Bring your pH into the desired range of 7.4 - 7.6 ppm.	Maintain a proper pH level by using Clear Result pH Down.
	Dirty Filter	Check filtration system. Backwash if necessary.	Use Clear Result Filter Clean each spring and fall.
	Low Free Chlorine Residual	Bring free chlorine into desired range of 1 - 3 ppm. Shock if necessary.	Maintain a proper level using one of the Clear Result chlorinating products.
	High Total Alkalinity	Test total alkalinity and adjust accordingly.	Lower total alkalinity in 100 - 175 ppm range by using Clear Result pH Down.
<b>Green Water</b>	Green Algae (hazy water)	Bring pH level to ideal 7.4 - 7.6 range. Shock with chlorine shock treatment per label instructions and add Clear Result Algae Clear 50 or Clear Result Poly Clear 60.	Add Clear Result Algae Clear 50 or Clear Result Poly Clear 60 every other week at a rate of 6 oz. per 10,000 gallons.
	Copper in Fill water (clear water)	Use Clear Result Stain & Scale Remover at a rate of 6 oz. per 10,000 gallons. Let circulate overnight before adjusting chlorine or pH.	Add Clear Result Stain & Scale Remover every other week at a rate of 6 oz. per 10,000 gallons to prevent stains due to copper in the water.
<b>Reddish Brown Water</b>	Dissolved Iron or manganese in water	Adjust pH to 7.4 - 7.6 range. Use Clear Result Stain & Scale Remover Let pump run continuously until clear.	Add Clear Result Stain & Scale Remover every other week at a rate of 6 oz. per 10,000 gallons.
<b>Eye &amp; Skin Irritation</b>	Combined Chlorine (chloramines) level too high	Shock the pool using one of the Clear Result shock treatments. Let circulate overnight and then adjust free chlorine residual to 1 - 3 ppm.	Shock treat every other week, after heavy use or rain. Test for free chlorine residual daily.
	pH level too high or too low	Adjust pH by using Clear Result pH Up or Clear Result pH Down to bring pH level to ideal range of 7.4 - 7.6 ppm.	Test pH level daily and maintain pH in 7.4 - 7.6 range.
<b>Chlorine Odor</b>	Combined Chlorine (chloramine) level too high. <i>The cause is NOT too much chlorine but not enough free available chlorine.</i>	Shock the pool using chlorine based shock at 1 lb. per 10,000 gallons. Let circulate overnight and then adjust free chlorine residual to 1 - 3 ppm.	Test pH level daily and maintain pH in 7.4 - 7.6 range.
<b>Calcium Scale Formation</b>	pH too high Total Alkalinity too high	Add Clear Result pH Down to bring pH into 7.4 - 7.6 ppm range and to bring total alkalinity down to 100 - 175 ppm.	Maintain pH level in 7.4 - 7.6 range. Maintain total alkalinity level in 100 - 175 ppm
	Calcium Hardness level too high	If hardness level is too high, some water may have to be drained. Add Clear Result Stain & Scale Remover per label directions.	Add Clear Result Stain & Scale Remover every other week at a rate of 6 oz. per 10,000 gallons.
<b>Corrosion of Metal Parts</b>	pH too low Total Alkalinity too low	Add Clear Result pH Up to bring pH into 7.4 - 7.6 ppm range.	Maintain pH level in 7.4 - 7.6 range. Maintain total alkalinity level in 100 - 175 ppm.
	Calcium Hardness level too low	Add Clear Result Hardness Increaser to raise the calcium to 180 - 275 ppm.	Maintain calcium level at 180 - 275 ppm.

**Pool Capacity** Pool water capacity is the number of gallons your pool contains. If you know the capacity, you can correctly size a filter system for your pool as well as add the correct amount of chemicals to obtain balanced, clean water.

**To figure out the average depth:**  
 $\text{Deep End Depth} + \text{Shallow End Depth} = \text{Depth} \div 2 = \text{Average Depth}$

**For rectangular pools**  $\text{Length} \times \text{Width} \times \text{Average Depth} \times 7.5 = \text{Total Gallons}$

**For circular pools**  $\text{Dia.} \times \text{Dia.} \times \text{Average Depth} \times 5.9 = \text{Total Gallons}$

**For oval pools**  $\text{Long Dia.} \times \text{Short Dia.} \times \text{Average Depth} \times 5.5 = \text{Total Gallons}$

**Irregular shaped pools**  $\text{Long Dia.} \times \text{Short Dia.} \times \text{Average Depth} \times 5.5 = \text{Total Gallons} \times .85 = \text{Adjusted Total Gallons}$