

# MineralPURE<sup>®</sup>

*The Healthy Alternative to Chlorine*

*Residential Pool Ionization System & Electronic Descaler System  
Model # RC-50*



*Premium Model - Handles up to 50,000 gallons*

**SPECIFICATION SHEET**

# RC-50 IONIZER SPECIFICATION SHEET

## Water Specifications

**POOL SIZE:** up to 50,000 U.S. gallons

**IONIZATION METHOD:** electrolysis of copper or copper/silver alloy electrodes

**ELECTRODE CHAMBER:** 2" black tee with bushings for 2" or 1 1/2" PVC pipe

**ELECTRODE:** one set 3" long, comprised of copper (CLE-11)  
or optionally available copper/silver alloy (CLE-42 or CLE-44)

<b>HEAD LOSS:</b>	<b><u>Flow Rate</u></b>	<b><u>Total Head Loss (psi)</u></b>
	25 gpm	0.06 psi
	50 gpm	0.21 psi

**Hydrostatic Pressure:** Maximum Recommended Pressure: 50PSI

**Ion Production:** With the output set to: 300mA this ionizer produces 215mg of copper ions per hour  
600mA this ionizer produces 430mg of copper ions per hour

These measurements were made with the following conditions:

Electrode Used: CLE-11

Water Temperature: 72.7 °F

Total Chlorine: 0

pH: 7.45

TDS: 347 mg/L

Hardness: 215 mg/L

Total Alkalinity: 85 mg/L

## Electrical Specifications

**INPUT VOLTAGE:** 90 to 264 VAC, at 47 to 63 HZ, auto switching

**INPUT CURRENT:** 300 mA rms at 120VAC  
150 mA rms at 240VAC

**INPUT POWER:** up to 20 Watts

**OUTPUT VOLTAGE:** 2VDC to 20VDC, Auto Ranging

**OUTPUT CURRENT:** Adjustable in 5mA increments, 0 TO 600mA DC

**CIRCUIT PROTECTION:** internal fuse and input line surge protection to IEC 61000-4-5, level 3

**FUSES:** 1 ea 2A Slo Acting, Cartridge Style, 250VAC, 5x20mm  
1 ea 4A Slo Acting, Cartridge Style, 250VAC, 5x20mm

## Mechanical Specifications

**ENCLOSURE:** weather resistant NEMA 4 rated high impact corrosion resistant thermoplastic with hinged polycarbonate cover, includes mounting brackets

**ENCLOSURE DIMENSIONS:** 8.44" x 8.44" x 4.88"

**SHIPPING WEIGHT:** 12 lbs

**CARTON DIMENSIONS:** 22 1/4" x 11 1/4" x 6 5/16"

## Other Specifications

**CERTIFICATIONS:** UL Listed File Number E354947,  
NSF tested to NSF/ANSI Standard 50-2011

**OPERATING TEMPERATURE RANGE:** 32 to 110 degrees Fahrenheit

**WARRANTY:** 5 years, parts and labor - excluding electrodes

