

# **CES-2900E SERIES WATER CONDITIONER**

System Part Numbers: CES-2900E-120: EV9984-22 CES-2900E-150: EV9984-23 CES-2900E-210: EV9984-24 CES-2900E-300: EV9984-25



# **APPLICATIONS**

- Cold water fed warewashing
- Laundry linen & uniform
- Boiler scale control
- Water heater scale protection/reduction
- General housekeeping

# SYSTEM DESCRIPTION

Water conditioning for commercial and light industrial applications configured as a single tank system with 2" porting.

# **FEATURES • BENEFITS**

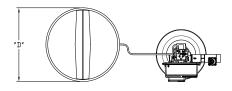
- Hardness removal of 120,000 to 300,000 grains at flow rates up to 62 gallons per minute continuous
- Electronic meter initiated regeneration minimizes salt and water usage
- Advanced user-friendly controls incorporates two time-tested hydraulically balanced pistons to independently pilot service flow and regeneration
- Large capacity brine tank maximizes time between refills
- Pressure vessels are manufactured with a polyethlene shell that is wound continuously with fiberglass woving and sealed with epoxy resin. This process results in corrosion-resistant, leak-free vessel
- Fully adjustable 5-cycle control delivers controlled upflow backwash, downflow brining and slow rinse, rapid rinse, timed brine refill and downflow service
- Utilizes NXT2 programmable controller

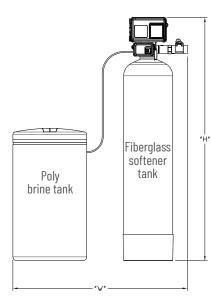
# **INSTALLATION TIPS**

- Locate equipment on a smooth, level surface.
- Maintain an air-gap at the end of the drain line.
- Secure drain line directly over floor drain or stand pipe.
- When connecting to a water heater, install a check valve on the soft water piping to prevent hot water back-up.
- When sweating/installing copper piping, protect the control valve from excessive heat.
- Check local codes for additional equipment that may be required, such as backflow prevention devices (i.e. RPZ).

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# EV9984-22 • EV9984-23 • EV9984-24 • EV9984-25





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### SPECIFICATIONS

### System

**Connections** Inlet Connection: 2" FNPT Outlet Connection: 2" FNPT

**Operating Pressure** 25 – 125 psi (1.7 – 8.6 bar) non-shock

Overall Dimensions	
CES-2900E-120	79" H x 49" W x 24" D (201 cm x 124 cm x 61 cm)
CES-2900E-150	82" H x 52" W x 24" D (208 cm x 132 cm x 61 cm)
CES-2900E-210	82" H x 60" W x 30" D (208 cm x 152 cm x 76 cm)
CES-2900E-300	89" H x 64" W x 30" D (226 cm x 163 cm x 76 cm)

Performance

Water Temperature

40 - 100°F (4.4 - 37.8°C)

**Electrical Connection** 115 VAC/60 HZ/1 Phase

### **Service Flow Rate**

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Model	Minimum Flow	@ 15 psi (1.0 bar) ∆P	@ 25 psi (1.7 bar) ∆P
CES-2900E-120	3 gpm (11 Lpm)	47 gpm (178 Lpm)	60 gpm (227 Lpm)
CES-2900E-150	4 gpm (16 Lpm)	53 gpm (201 Lpm)	69 gpm (261 Lpm)
CES-2900E-210	5 gpm (19 Lpm)	57 gpm (216 Lpm)	74 gpm (280 Lpm)
CES-2900E-300	6 gpm (23 Lpm)	62 gpm (235 Lpm)	80 gpm (303 Lpm)

### Capacity

Model	Rated Capacity	Salt Storage Capacity
CES-2900E-120	100,000 grains @ 36 lbs (16 kg) salt	750 lbs(340 kgs)
CES-2900E-150	125,000 grains @ 45 lbs(20 kg)salt	750 lbs(340 kgs)
CES-2900E-210	175,000 grains @ 63 lbs (29 kg) salt	1,200 lbs (544 kgs)
CES-2900E-300	250,000 grains @ 90 lbs (41 kg) salt	1,200 lbs (544 kgs)

#### Weight

Model	Operating Weight	Shipping Weight	
CES-2900E-120	1,600 lbs (726 kg)	360 lbs(163 kg)	
CES-2900E-150	1,830 lbs (830 kg)	460 lbs(209 kg)	
CES-2900E-210	2,650 lbs (1202 kg)	630 lbs (286 kg)	
CES-2900E-300	3,290 lbs (1492 kg)	920 lbs (417 kg)	



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