

# CES-2900E-TP SERIES WATER CONDITIONER

## System Part Numbers:

CES-2900E-120-TP: EV9980-67

CES-2900E-150-TP: EV9980-68

CES-2900E-210-TP: EV9980-69

CES-2900E-300-TP: EV9980-70



## APPLICATIONS

- ◆ Laundry - linen & uniform
- ◆ Water heater scale production/reduction
- ◆ General housekeeping
- ◆ Boiler scale control
- ◆ Cooling towers
- ◆ Hospitality & grocery

## SYSTEM DESCRIPTION

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

## FEATURES • BENEFITS

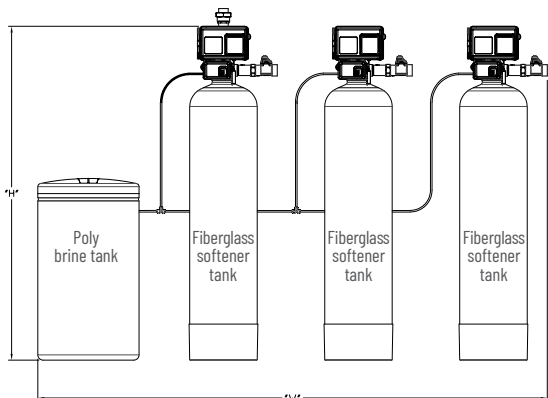
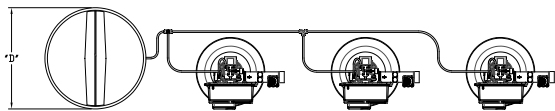
- ◆ Hardness removal of 120,000 to 300,000 grains per tank at flow rates up to 185 gallons per minute continuous
- ◆ Utilizes NXT2 programmable controllers that use on-board communication cables to link multiple commercial valves via CAT 5 cable
- ◆ Advanced user-friendly controls incorporates time-tested hydraulically balanced pistons to independently pilot service flow and regeneration
- ◆ Large capacity brine tank maximizes time between refills
- ◆ Triplex parallel tank configuration for continuous soft water supply and higher service flow rates
- ◆ Electronic meter initiated regeneration minimizes salt and water usage
- ◆ Pressure vessels are manufactured with a polyethylene shell that is wound continuously with fiberglass weaving and sealed with epoxy resin. This process results in corrosion-resistant, leak-free vessel

## 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).

# CES-2900E-TP SERIES WATER CONDITIONER

EV9980-67 • EV9980-68 • EV9980-69 • EV9980-70



## SPECIFICATIONS

### System

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

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

### Performance

**Water Temperature**  
 40 - 100°F (4.4 - 37.8°C)

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

### Overall Dimensions

CES-2900E-120-TP	79" H x 113" W x 24" D (201 cm x 287 cm x 61 cm)
CES-2900E-150-TP	82" H x 122" W x 24" D (208 cm x 310 cm x 61 cm)
CES-2900E-210-TP	82" H x 134" W x 30" D (208 cm x 340 cm x 76 cm)
CES-2900E-300-TP	89" H x 146" W x 30" D (226 cm x 371 cm x 76 cm)

### Service Flow Rate

Model	Minimum Flow	@ 15 psi (1.0 bar) ΔP	@ 25 psi (1.7 bar) ΔP
CES-2900E-120-TP	3 gpm (11 Lpm)	141 gpm (534 Lpm)	181 gpm (685 Lpm)
CES-2900E-150-TP	4 gpm (15 Lpm)	159 gpm (602 Lpm)	206 gpm (780 Lpm)
CES-2900E-210-TP	5 gpm (19 Lpm)	171 gpm (648 Lpm)	222 gpm (840 Lpm)
CES-2900E-300-TP	6 gpm (23 Lpm)	185 gpm (700 Lpm)	239 gpm (905 Lpm)

### Capacity

Model	Rated Capacity	Salt Storage Capacity
CES-2900E-120-TP	100,000 grains @ 36 lbs (16 kg) salt	1,200 lbs (544 kgs)
CES-2900E-150-TP	125,000 grains @ 45 lbs (20 kg) salt	1,200 lbs (544 kgs)
CES-2900E-210-TP	175,000 grains @ 63 lbs (29 kg) salt	2,200 lbs (998 kgs)
CES-2900E-300-TP	250,000 grains @ 90 lbs (41 kg) salt	2,200 lbs (998 kgs)

### Weight

Model	Operating Weight	Shipping Weight
CES-2900E-120-TP	2,380 lbs (1080 kgs)	794 lbs (360 kg)
CES-2900E-150-TP	3,390 lbs (1538 kgs)	1,314 lbs (596 kg)
CES-2900E-210-TP	4,730 lbs (2146 kgs)	1,814 lbs (823 kg)
CES-2900E-300-TP	6,270 lbs (2844 kgs)	2,644 lbs (1199 kg)

For Pentair Everpure Product Warranties visit:  
<http://pentair.com/assets/foodservice-warranty>



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