

# CES-2900E-DP SERIES WATER CONDITIONER

System Part Numbers:

CES-2900E-120-DP: EV9984-42

CES-2900E-150-DP: EV9984-43

CES-2900E-210-DP: EV9984-44

CES-2900E-300-DP: EV9984-45



## SYSTEM DESCRIPTION

Water conditioning for commercial and light industrial applications available in duplex parallel system with 2" porting.

## FEATURES • BENEFITS

- ◆ Hardness removal of 120,000 to 300,000 grains per tank at flow rates up to 123 gallons per minute continuous
- ◆ Electronic meter initiated regeneration minimizes salt and water usage
- ◆ 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
- ◆ Pressure vessels are manufactured with a polyethylene shell that is wound continuously with fiberglass woving and sealed with epoxy resin. This process results in corrosion-resistant, leak-free vessel
- ◆ Duplex parallel tank configuration for continuous soft water supply and higher service flow rates
- ◆ Utilizes NXT2 programmable controllers that use on-board communication cables to link multiple commercial valves via CAT 5 cable

## APPLICATIONS

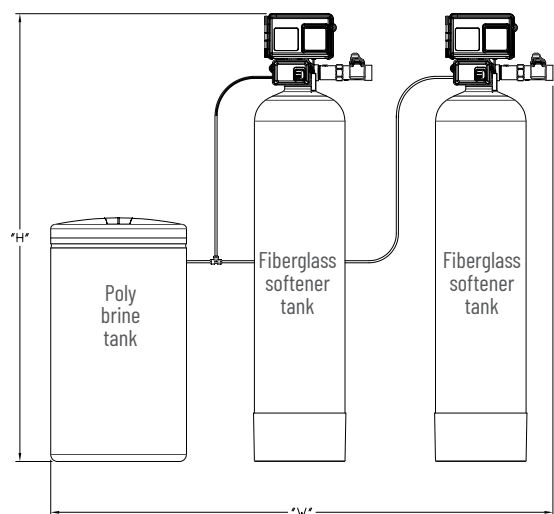
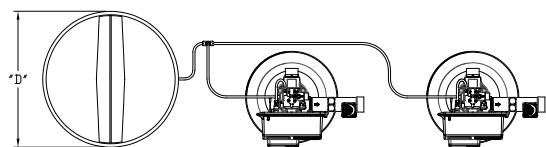
- ◆ Laundry - linen & uniform
- ◆ Boiler scale control
- ◆ Water heater scale protection/reduction
- ◆ General housekeeping
- ◆ Cooling towers
- ◆ Hospitality & grocery

## 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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<http://pentair.com/assets/foodservice-warranty>

## 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-DP	79" H x 81" W x 24" D (201 cm x 206 cm x 61 cm)
CES-2900E-150-DP	82" H x 92" W x 24" D (208 cm x 234 cm x 61 cm)
CES-2900E-210-DP	82" H x 97" W x 30" D (208 cm x 246 cm x 76 cm)
CES-2900E-300-DP	89" H x 105" W x 30" D (226 cm x 267 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-DP	3 gpm (11 Lpm)	94 gpm (356 Lpm)	121 gpm (458 Lpm)
CES-2900E-150-DP	4 gpm (15 Lpm)	106 gpm (401 Lpm)	137 gpm (519 Lpm)
CES-2900E-210-DP	5 gpm (19 Lpm)	114 gpm (432 Lpm)	148 gpm (560 Lpm)
CES-2900E-300-DP	6 gpm (23 Lpm)	123 gpm (466 Lpm)	159 gpm (602 Lpm)

## Capacity

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

## Weight

Model	Operating Weight	Shipping Weight
CES-2900E-120-DP	1,990 lbs (903 kg)	460 lbs (209 kg)
CES-2900E-150-DP	2,610 lbs (1184 kg)	880 lbs (399 kg)
CES-2900E-210-DP	3,690 lbs (1674 kg)	1,210 lbs (549 kg)
CES-2900E-300-DP	4,780 lbs (2168 kg)	1,750 lbs (794 kg)



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