

## **CES-3900E SERIES WATER CONDITIONER**

System Part Numbers:

CES-3900E-300-HWBP: EV9980-32 (Single Use) CES-3900E-450-HWBP: EV9980-33 (Single Use) CES-3900E-300-NHWB: EV9980-76 (Parallel Only) CES-3900E-450-NHWB: EV9980-77 (Parallel Only)



## APPLICATIONS

- Retail superstores
- Whole facility applications
- Boiler scale control
- Laundry linen & uniform
- Water heater scale protection/reduction
- General housekeeping
- Cooling towers
- Hotels/hospitality institutions

## SYSTEM DESCRIPTION

Water conditioning for commercial and light industrial applications available in single tank system with 3" porting.

## **FEATURES • BENEFITS**

- Hardness removal of 300,000 to 450,000 grains at flow rates up to 100 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 polyethlene shell that is wound continuously with fiberglass woving and sealed with epoxy resin. This process results in corrosion-resistant, leak-free vessel

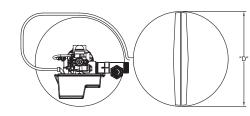
- NXT2 fully adjustable 5-cycle control delivers controlled upflow backwash, downflow brining and slow rinse, rapid rinse timed brine refill and downflow service
- No hard water bypass (NHWB) versions use on-board communication cables to link multiple commercial valves via CAT 5 cable

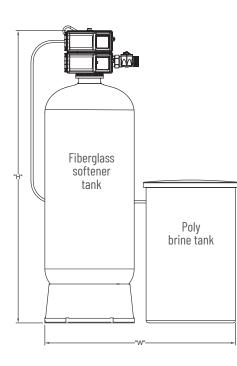
## **INSTALLATION TIPS**

- 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-3900E SERIES WATER CONDITIONER**

## EV9980-32 • EV9980-33 • EV9980-76 • EV9980-77





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

\*Brine tank to be not more than 15 linear feet from furthest softener tank.

## PENTAIR

### **SPECIFICATIONS**

## System

Connections Inlet Connection: 3" MNPT Outlet Connection: 3" FNPT

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

Overall Dimensions	
CES-3900E-300-HWBP	93" H x 59" W x 30" D (236 x 150 x 76 cm)
CES-3900E-450-HWBP	97" H x 64" W x 30" D (246 x 163 x 76 cm)
CES-3900E-300-NHWB	93" H x 59" W x 30" D (236 x 150 x 76 cm)
CES-3900E-450-NHWB	97" H x 64" W x 30" D (246 x 163 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			
Model	Minimum Flow	@ 15 psi (1.0 bar) ∆P	@ 25 psi (1.7 bar) ∆P
CES-3900E-300-HWBP	12 gpm (45 Lpm)	74 gpm (280 Lpm)	96 gpm (363 Lpm)
CES-3900E-450-HWBP	20 gpm (76 Lpm)	100 gpm (379 Lpm)	129 gpm (488 Lpm)
CES-3900E-300-NHWB (Duplex)*	12 gpm (45 Lpm)	148 gpm (560 Lpm)	192 gpm (727 Lpm)
CES-3900E-450-NHWB (Duplex)*	20 gpm (76 Lpm)	200 gpm (758 Lpm)	258 gpm (977 Lpm)
CES-3900E-300-NHWB (Triplex)*	12 gpm (45 Lpm)	222 gpm (840 Lpm)	288 gpm (1090 Lpm)
CES-3900E-450-NHWB (Triplex)*	20 gpm (76 Lpm)	300 gpm (1136 Lpm)	387 gpm (1465 Lpm)
CES-3900E-300-NHWB (Quadplex)*	12 gpm (45 Lpm)	296 gpm (1120 Lpm)	384 gpm (1454 Lpm)
CES-3900E-450-NHWB (Quadplex)*	20 gpm (76 Lpm)	400 gpm (1515 Lpm)	516 gpm (1953 Lpm)

Capacity			
Model	Rated Capacity	Salt Storage Capacity	
CES-3900E-300-HWBP	250,000 grains @ 90 lbs(41 kg)salt	1,200 lbs (544 kgs)	
CES-3900E-450-HWBP	375,000 grains @ 135 lbs (61 kg) salt	1,200 lbs (544 kgs)	
CES-3900E-300-NHWB	250,000 grains @ 90 lbs(41 kg)salt	1,200 lbs (544 kgs)	
CES-3900E-450-NHWB	375,000 grains @ 135 lbs (61 kg) salt	1.200 lbs (544 kas)	

#### Weight

weight		
Model	Operating Weight	Shipping Weight
CES-3900E-300-HWBP	3,330 lbs(1510 kg)	970 lbs(440 kg)
CES-3900E-450-HWBP	4,378 lbs(1986 kg)	1,458 lbs (661 kg)
CES-3900E-300-NHWB	3,330 lbs(1510 kg)	970 lbs(440 kg)
CES-3900E-450-NHWB	4,378 lbs(1986 kg)	1,458 lbs (661 kg)

\*Purchasing Requirements Duplex: 2 units Triplex: 3 units Quadplex: 4 units

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