A 203.0

Revised June 2001

Designed for use as a recovery heater having its own storage tank or booster for supplying sanitizing rinse water for dishwashing.

FEATURES

GLASS-LINED TANK - Three sizes; 52, 80 and 119 gallon capacity. Tank interior is coated with glass specially developed by A.O. Smith Ceramic Research for water heater use. Tanks rated at 150 psi working pressure; tested at 300 psi. Foam insulation reduces costly heat loss. ASME (optional) maximum working pressure is 160 psi.

ELEMENTS - Heavy duty elements have Incoloy sheaths and ceramic terminal block for rugged commercial service. Medium watt density means lower surface temperature to minimize scale buildup and more surface to heat water. Element sizes from 2 to 6 KW. Use 3, 6 or 9 elements; maximum input 54 KW. The design assures proper placement of elements in the tank to avoid bridging the sheaths with lime or scale deposits.

POWER CIRCUIT FUSING - Protects elements and contactors from short circuits, overloading or line surges. Meets National Electric Code requirements (fusing required when current draw exceeds 48 amps).

STANDARD VOLTAGES - 208, 240 and 480V single-phase and three phase delta. Convertible from three-phase to single-phase (in field) and vice versa (except 208/54 KW). 277V single-phase also available.

TERMINAL BLOCK - Factory installed. Just bring the service to the heater and connect to block.

MAGNETIC CONTACTORS - Heavy duty; UL rated 100,000 cycles.

CONTROLS - 120V control circuit is powered by fused transformer, eliminating need for 120V service connection. Immersion temperature control adjustable through a range of 60°F to 180°F. Manual reset high temperature cutoff.

• Simplified circuitry, color coded for ease of service • Hinged control compartment door for quick, easy access • Two anode rods for maximum corrosion protection • Cabinet has bonderized undercoat with baked enamel finish • Top outlet, side inlet and relief valve openings • Nipple and brass drain valve • A.G.A./ASME temperature and pressure relief valve.

OPTIONAL

GOLDENROD ELEMENTS - All DVE models are available with the Goldenrod 24K gold plated elements (patent pending). Goldenrod elements provide long life and 6 times the scaling resistance of standard incoloy elements. Goldenrod elements carry a three-year warranty against failure due to lime scale build-up.

MANIFOLD KITS WITH STOP VALVES - Available for multiple installations.

THERMOSTATIC SEQUENCING CONTROL - Energizes three elements at a time to prevent line surges when thermostat calls for heat. Available on units 24 KW and larger.

LIMITED WARRANTY OUTLINE

If the tank should leak any time during the first three years, under the terms of the warranty, A.O. Smith will furnish a replacement heater; installation, labor, handling and local delivery extra. THIS OUTLINE IS NOT A WARRANTY.

For complete information, consult the written warranty or A.O. Smith Water Products Company.

See page C 029.0 for service wiring and fuse selection.

OPTIONAL INTERNATIONAL VOLTAGES - 380, 415, 480, 575 and 600 volts three-phase available with Y connected elements.
### SAMPLE SPECIFICATION

The heater(s) shall be Dura-Power Commercial Electric Model Number_________________as manufactured by A.O. Smith Water Products Company or equivalent. Heater(s) shall be rated at ______________KW ________V _____________phase, 60 cycle AC listed by Underwriters' Laboratories and approved by the National Sanitation Foundation. Tank(s) shall be (52, 80 or 119) gallon capacity with 150 psi working pressure and equipped with dual extruded high density anodes. All internal surfaces of the heater(s) exposed to water shall be glass-lined with an alkaline borosilicate composition that has been fused to steel by firing at a temperature range of 1400°F to 1600°F. Electric heating elements shall be medium watt density screw-in type with Incoloy sheath and ceramic terminal block. Internal power circuit fusing shall be provided. Element operation shall be___________________ (1. simultaneous; or 2. sequenced with thermostats) switched through individual magnetic contactors. Control circuit shall be factory fused and include manual reset high temperature cutoff switch and thermostat with sensing element in tin-plated well, immersed in water. Control cabinet and jacket shall be of baked enamel finish and shall provide full size control and element compartment for complete service and maintenance performance through front hinged compartment door, and enclose tank with foam insulation. 1 1/4" inlet and outlet connection shall be provided. The heater tank shall have a three year limited warranty and controls and accessories shall have a one year limited warranty as outlined in the written warranty. Fully illustrated instruction manual to be included. For multiple installation, factory built manifold kits for__________heater installation (maximum of 4 heaters) shall be provided. Meets ASHRAE 90.1b-1992.