

Gold Xi Series

Commercial Electric Water Heaters

DVE-52, 80, 120

Storage Capacity
190, 300, 450 Litres

Range of Input
6 Kw - 54 Kw



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

FEATURES

Meets or exceeds the requirements of ASHRAE 90.1b-1992 and ASHRAE/IESNA 90.1-2004

ADVANCED ELECTRONIC CONTROL	Plain English text and animated icons display detailed operational and diagnostic information. Fault or Alert messages appear if an operational issue occurs. Immersion temperature control adjustable through a range of 32°C to 88°C.
ECONOMY MODE OPERATION	Control system automatically lowers the Operating Set Point by a programmed value during user-defined time periods. Helps reduce operating costs during unoccupied or off - peak demand periods.
LINEAR SEQUENCING	Banks of heating elements (3 elements per bank) are energized according to adjustable (1 to 20°) differential set points for each bank. First bank on is the last bank off. Helps reduce current surge and provides accurate water temperature control.
GOLDENROD ELEMENTS	All DVE models ship standard with patented Goldenrod 24K gold plated elements. Goldenrod elements provide long life with superior scaling resistance. [Goldenrod Elements not available with 220V & 415V]
GLASS-LINED TANK	Three sizes; 190, 300 and 450 litres capacity. Tank interior is coated with glass specially developed by A. O. Smith for water heater use. Tanks rated at 10.34 Bar working pressure; tested at 21 Bar. Foam insulation reduces costly heat loss. ASME (optional) maximum working pressure is 10.34 Bar.
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	220, 240 V single-phase and 415 V in three-phase delta. Convertible from three-phase to single-phase (in field) and vice versa. Also available in international voltages.
TERMINAL BLOCK	Factory installed. Allows for easy service connection to block.
MAGNETIC CONTACTORS	Heavy duty; UL rated 100,000 cycles.
THREE YEAR LIMITED TANK WARRANTY	For complete warranty information, consult written warranty or contact A. O. Smith.
OTHER STANDARD FEATURES	Immersion style thermostats • 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 • CSA / ASME temperature and pressure relief valve.
OPTIONS	
MANIFOLD KITS WITH ISOLATION VALVES	Available for multiple installations. Two heaters - part # 9003429205, three heaters - part # 9003430205 and four heaters - part # 9003431205
INTERNATIONAL VOLTAGES	380, 400, 480, 575 and 600 volts three-phase available with Y connected elements. See Technical Data section in your A&E for service wiring and fuse selection.



ASME/ CRN
(OPTIONAL)



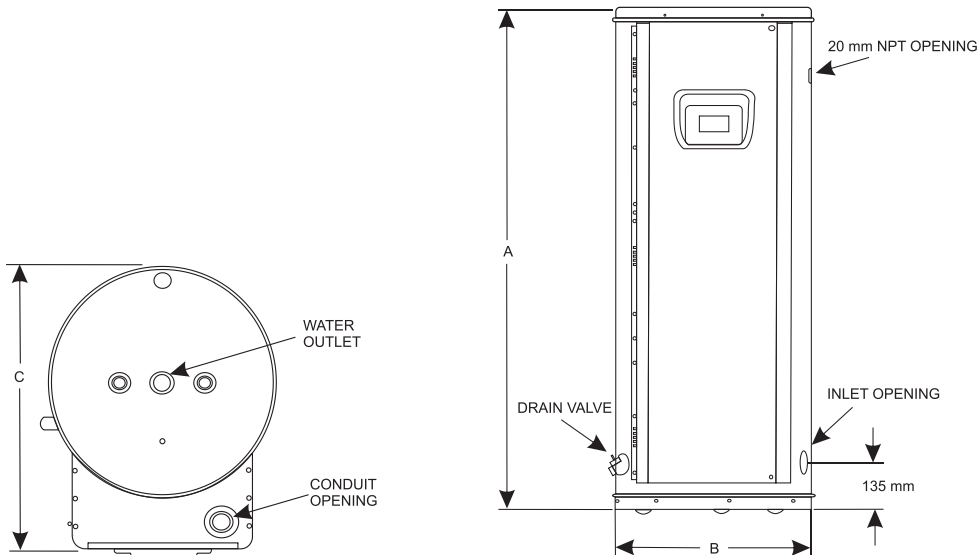
ANSI/ NSF-5

Standard kW Input	Recovery capacity In litres for temperature rise of												
	Kcal/ Hour	17°C	22°C	28°C	33°C	39°C	45°C	50°C	56°C	61°C	67°C	72°C	78°C
6	5,161	310	235	186	155	133	117	102	95	83	80	72	68
9	7,741	466	348	280	235	201	174	155	140	129	117	106	98
12	10,322	621	466	371	310	265	231	208	186	170	155	144	133
13.5	11,612	697	522	420	348	299	261	235	208	189	174	163	151
15	12,902	776	583	466	386	333	292	257	231	212	193	178	167
18	15,482	931	697	560	466	398	348	310	280	254	235	216	201
24	20,643	1242	931	746	621	530	466	413	371	341	310	288	265
27	23,224	1397	1045	837	700	598	522	466	420	382	348	322	299
30	25,804	1552	1162	931	776	666	583	519	466	424	386	360	333
36	30,965	1863	1397	1117	931	799	697	621	560	507	466	428	398
40.5	34,835	2097	1583	1257	1049	897	787	700	628	572	522	485	451
45	38,706	2328	1745	1397	1162	996	871	776	697	636	583	538	500
54	46,447	2794	2097	1677	1359	1196	1049	931	837	761	700	644	598

Figured at 1 KW=860 Kcal

KW Input	Model Numbers Tank Capacity in Litres			Number of Elements	Elements Wattage	Full Load Current in Amperes		
	190	300	450			Single Phase		Three Phase
						220V	240V	415V
6	DVE-52-6	DVE-80-6	DVE-120-6	3	2,000	27.2	25.0	8.3
9	DVE-52-9	DVE-80-9	DVE-120-9	3	3,000	40.9	37.5	12.5
12	DVE-52-12	DVE-80-12	DVE-120-12	3	4,000	54.5	50.0	16.6
13.5	DVE-52-13.5	DVE-80-13.5	DVE-120-13.5	3	4,500	61.3	56.3	18.7
15	DVE-52-15	DVE-80-15	DVE-120-15	3	5,000	68.1	62.5	20.8
18	DVE-52-18	DVE-80-18	DVE-120-18	3*	6,000	81.8	75.0	25.0
24	DVE-52-24	DVE-80-24	DVE-120-24	6	4,000	109.0	100.0	33.3
27	DVE-52-27	DVE-80-27	DVE-120-27	6	4,500	122.7	112.5	37.5
30	DVE-52-30	DVE-80-30	DVE-120-30	6	5,000	136.3	125.0	41.7
36	DVE-52-36	DVE-80-36	DVE-120-36	6*	6,000	163.6	150.0	50.0
40.5	DVE-52-40.5	DVE-80-40.5	DVE-120-40.5	9	4,500	184.0	168.8	56.3
45	DVE-52-45	DVE-80-45	DVE-120-45	9	5,000	204.5	187.5	62.5
54	DVE-52-54	DVE-80-54	DVE-120-54	9	6,000	N/A	225.0	75.0

Model Number	Tank Capacity	Dimensions			Inlet / Outlet [NPT]	Approx. Ship Wt.
		A	B	C		
	Litre	mm	mm	mm	mm	Kg.
DVE-52	190	1420	552	686	32	120
DVE-80	300	1530	648	787	32	127
DVE-120	450	1581	750	889	32	177



SUGGESTED SPECIFICATION

The heater(s) shall be Gold Xi Commercial Electric Model Number _____ as manufactured by A. O. Smith Water Products Company or equivalent. Heater(s) shall be rated at _____ kW _____ V _____ phase, 50 cycle AC listed by Underwriters' Laboratories and approved to the NSF Standard 5 by UL. Water heater shall have LCD display with built-in diagnostic and troubleshooting information. Tank(s) shall be (190, 300 or 450) litre capacity with 10.34 bar 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 760°C to 860°C. Electric heating elements shall be 24K Goldenrod medium watt density screw-in type with Incoloy sheath and ceramic terminal block. Internal power circuit fusing shall be provided. Element operation shall be linear sequencing through individual magnetic contactors. Control circuit shall be factory fused and include an immersion thermistor temperature probe with built in ECO control. 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. 32mm 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 installations, factory built manifold kits for _____ heater installation (maximum of 4 heaters) shall be provided. Meets or exceeds the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition of ASHRAE/IESNA 90.1. Water heater should incorporate the iCOMM™ system for remote monitoring, leak detection and fault alert.

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