QUANTUS MAX HEAVY DUTY

Commercial Glass Lined Electric Water Heater

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Features

- **FLEXIBLE DESIGN TO MEET DIFFERENT REQUIREMENTS**– Wide range of voltages and wattages from 13.5kW to 54kW.
- **DRY-FIRE PROTECTION & REDUCED LIME ACCUMULATION** – Screw in, INCOLOY, low wattage density to ensure more efficient operation and longer element life.
- **INDIVIDUAL FULLY AUTOMATIC SURFACE THERMOSTAT FOR EACH HEATING ELEMENT** for variable temperature control/staging; fully adjustable to 180°F.
- **FACTORY INSTALLED FUSE BOX** to protect the heating elements and thermostats.
- **FACTORY PRE-WIRED CONTROL BOX**
- **FULL SIZE HAND-HOLE CLEANOUT** for easy tank inspection & easy removal of sediment.
- **FULL FLOW BRASS DRAIN VALVE** factory provided & installed, allows easy and quick drainage.
- **TEMPERATURE AND PRESSURE RELIEF VALVE** factory provided & installed.

Performance

- **HFO FOAM INSULATED** – 3 inch-thick, environmentally-friendly insulation foam saves energy, reduces operating cost by maximizing heat retention, and contributes to overall energy efficiency.
- **MEETS OR EXCEEDS SAFETY AND EFFICIENCY REQUIREMENTS** – All models are UL listed and CSA certified to meet NSF/ANSI 5 standards. These water heaters meet or exceed ASHRAE 90.1B-1992 standards and are listed with the California Energy Commission.

Quality

- **HEAVY GAUGE STEEL TANK** for extra years of trouble-free service.
- **GLASS-LINED TANK** with Dura-Glas™ and fired at 1600°F for optimum protection from the effects of corrosion.
- **MULTIPLE MAGNESIUM ANODE RODS** to prolong tank life.
- **PRESSURE TESTED AT THE FACTORY** – All tanks are hydrostatically tested and certified at 300 PSI test pressure and at 150 PSI working pressure.
- **4-YEAR LIMITED TANK WARRANTY** – and 1-year limited parts warranty.



52, 80 & 120 Gallon Capacities

208 to 480 V Single or Three-Phase

13,500 to 54,000 Watts Power

SPECIFICATIONS AND APPLICATION DATA

DIMENSIONS IN INCHES

MODEL NUMBER	NOMINAL CAPACITY (GAL)	JACKET DIAM (IN) A	FLOOR TO COLD WATER INLET (IN) B	FLOOR TO TOP OF CONTROL BOX (IN) C	FLOOR TO T&P VALVE (IN) D	FLOOR TO HEIGHT TO TOP OF HEATER (IN) E	FLOOR TO HOT WATER OUTLET (IN) F	FRONT CONTROL ACCESS DEPTH (IN)	WATER CONNECTION SIZE (IN)	APPROX. SHIP WEIGHT (LBS)
ESHD52	52	24 ¾	6 ¼	50 ½	43 ¾	52	54	4 ½	1 ½	271
ESHD80	80	28 ¼	6 ¼	49	48 ¼	56 ¾	59	4 ½	1 ½	366
ESHD120	119	30 ¼	6 ¼	50	58 ½	67 ½	70	4 ½	1 ½	483

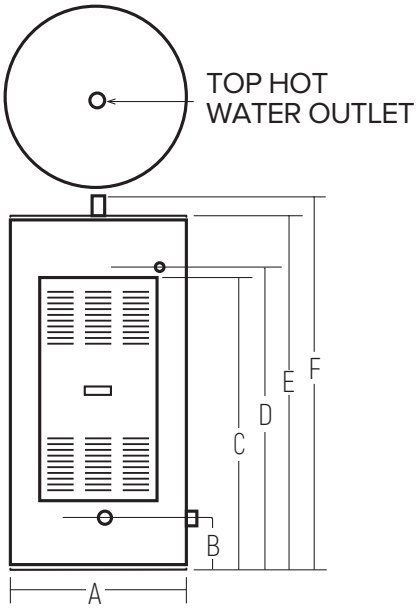
ELECTRICAL CHARACTERISTICS

Kw INPUT	NUMBER OF ELEMENTS (FUSED MODELS)* 208V PHASE 1	208V PHASE 3	240V PHASE 1	240V PHASE 3	277V PHASE 1	277V PHASE 3	480V PHASE 1	480V PHASE 3	FULL LOAD CURRENT AMPERAGES 208V PHASE 1	208V PHASE 3	240V PHASE 1	240V PHASE 3	277V PHASE 1	277V PHASE 3	480V PHASE 1	480V PHASE 3
13.5	3	3	3	3	3	N/A	3	3	64.9	37.5	56.3	32.5	48.7	N/A	28.1	16.2
15	3	3	3	3	3	N/A	3	3	72.1	41.6	62.5	36.1	51.4	N/A	31.2	18.0
18	3	3	3	3	3	N/A	3	3	86.5	50.0	75.0	43.4	64.0	N/A	37.5	21.6
24	6	6	6	6	6	N/A	6	6	115.4	66.7	100.0	57.8	86.6	N/A	50.0	28.9
27	6	6	6	6	6	N/A	6	6	129.8	75.0	112.5	65.0	97.4	N/A	56.2	32.5
30	6	6	6	6	6	N/A	6	6	144.2	83.3	125.0	72.2	108.3	N/A	62.5	36.1
36	6	6	6	6	6	N/A	6	6	173.0	100.0	150.0	86.7	129.9	N/A	75.0	43.3
45	9	9	9	9	9	N/A	9	9	216.3	125.0	187.5	108.3	162.4	N/A	93.7	54.1
54	9	9	9	9	9	N/A	9	9	259.6	150.0	225.0	130.0	194.6	N/A	112.5	65.0

* Units with amperage draw of 48 amps or more require factory installed fusing.
** If the number of elements on nonfused models is different, it is indicated in parentheses() following the AMP draw.
Thermostat settings range from 140°F to 180°F. Optional 90°F to 150°F.

GPH RECOVERY AT VARIOUS TEMPERATURE RISES (°F)

Kw INPUT	40°	50°	60°	70°	80°	90°	100°	120°	140°
13.5	137	109	91	78	68	61	55	50	46
15	155	124	103	89	78	69	62	52	44
18	186	149	124	106	93	83	74	62	53
24	248	199	164	142	124	110	99	83	71
27	279	223	186	160	140	124	112	93	80
30	310	248	207	177	155	138	124	103	89
36	372	298	248	213	186	165	149	124	106
45	465	372	310	266	233	207	186	155	133
54	558	447	372	319	279	248	223	186	160



LEAD FREE
Safe Drinking Water Act
SDWA
Section 1417

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SAMPLE SPECIFICATION

Commercial Electric Water Heaters shall be ARISTON model _____ having a storage capacity of _____ gallons, a rated input of KW _____ at _____ Volts, single phase 60 Cycle AC and a recovery rate of _____ gallons per hour at _____ °F temperature rise. Water heater tank interior shall be glass lined with Dura-Glas™, furnished with multiple anode rods and insulation shall be non-CFC foam. Water heater shall be tested and listed to Underwriters Laboratories standard UL 1453. Tanks shall have 150 PSI working pressure and be equipped with more than one Magnesium anode. All internal surfaces of the heater(s) exposed to water shall be glasslined with Dura-Glas™ and fired at 1600°F. Electric heating elements shall be low watt density. Each element shall be controlled by an individually mounted thermostat and high temperature cut-off switch. All internal circuits shall be fused. Heater tank shall have a four – year limited warranty as outlined in the written warranty. Manufacturer shall supply ASME rated temperature and pressure relief valve. Meets standby loss requirements of the U. S. Department of Energy and ASHRAE 90.1B.

MATERIAL CODES

MATERIAL CODE	DESCRIPTION
4030137	ESHD52-3E-13.5-FC 208V 1PH 13.5KW
4030091	ESHD52-3E-13.5-FC 208V 3PH 13.5KW
4030138	ESHD52-3E-13.5-FC 240V 1PH 13.5KW
4030139	ESHD52-3E-13.5-FC 240V 3PH 13.5KW
4030140	ESHD52-3E-13.5-FC 277V 1PH 13.5KW
4030141	ESHD52-3E-13.5-FC 480V 1PH 13.5KW
4030142	ESHD52-3E-13.5-FC 480V 3PH 13.5KW
4030092	ESHD52-3E-15-FC 208V 1PH 15KW
4030093	ESHD52-3E-15-FC 208V 3PH 15KW
4030094	ESHD52-3E-15-FC 240V 1PH 15KW
4030095	ESHD52-3E-15-FC 240V 3PH 15KW
4030143	ESHD52-3E-15-FC 277V 1PH 15KW
4030096	ESHD52-3E-15-FC 480V 1PH 15KW
4030097	ESHD52-3E-15-FC 480V 3PH 15KW
4030060	ESHD52-3E-18-FC 240V 1PH 18KW
4024036	ESHD52-3E-18-FC 240V 3PH 18KW
4030061	ESHD52-3E-18-FC 277V 1PH 18KW
4030062	ESHD52-3E-18-FC 480V 1PH 18KW
4024037	ESHD52-3E-18-FC 480V 3PH 18KW
4030063	ESHD52-6E-18-FC 208V 1PH 18KW
4030090	ESHD52-6E-18-FC 208V 3PH 18KW
4030098	ESHD52-6E-24-FC 208V 1PH 24KW
4030099	ESHD52-6E-24-FC 208V 3PH 24KW
4030100	ESHD52-6E-24-FC 240V 1PH 24KW
4030101	ESHD52-6E-24-FC 240V 3PH 24KW
4030144	ESHD52-6E-24-FC 277V 1PH 24KW
4030145	ESHD52-6E-24-FC 480V 1PH 24KW
4030146	ESHD52-6E-24-FC 480V 3PH 24KW
4030147	ESHD52-6E-27-FC 208V 1PH 27KW
4030148	ESHD52-6E-27-FC 208V 3PH 27KW
4030149	ESHD52-6E-27-FC 240V 1PH 27KW
4030150	ESHD52-6E-27-FC 240V 3PH 27KW
4030151	ESHD52-6E-27-FC 277V 1PH 27KW
4030152	ESHD52-6E-27-FC 480V 1PH 27KW
4030153	ESHD52-6E-27-FC 480V 3PH 27KW
4030154	ESHD52-6E-30-FC 208V 1PH 30KW
4030155	ESHD52-6E-30-FC 208V 3PH 30KW
4030156	ESHD52-6E-30-FC 240V 1PH 30KW
4030157	ESHD52-6E-30-FC 240V 3PH 30KW
4030158	ESHD52-6E-30-FC 277V 1PH 30KW
4030159	ESHD52-6E-30-FC 480V 1PH 30KW
4030160	ESHD52-6E-30-FC 480V 3PH 30KW
4030162	ESHD52-6E-36-FC 240V 1PH 36KW
4030163	ESHD52-6E-36-FC 240V 3PH 36KW
4030164	ESHD52-6E-36-FC 277V 1PH 36KW
4030165	ESHD52-6E-36-FC 480V 1PH 36KW
4030166	ESHD52-6E-36-FC 480V 3PH 36KW
4030161	ESHD52-9E-36-FC 208V 1PH 36KW
4030089	ESHD52-9E-36-FC 208V 3PH 36KW
4030167	ESHD52-9E-45-FC 208V 1PH 45KW
4030168	ESHD52-9E-45-FC 208V 3PH 45KW
4030169	ESHD52-9E-45-FC 240V 1PH 45KW

MATERIAL CODE	DESCRIPTION
4030170	ESHD52-9E-45-FC 240V 3PH 45KW
4030171	ESHD52-9E-45-FC 277V 1PH 45KW
4030172	ESHD52-9E-45-FC 480V 1PH 45KW
4030173	ESHD52-9E-45-FC 480V 3PH 45KW
4030174	ESHD52-9E-54-FC 208V 3PH 54KW
4030175	ESHD52-9E-54-FC 240V 1PH 54KW
4030176	ESHD52-9E-54-FC 240V 3PH 54KW
4030177	ESHD52-9E-54-FC 277V 1PH 54KW
4030178	ESHD52-9E-54-FC 480V 1PH 54KW
4030179	ESHD52-9E-54-FC 480V 3PH 54KW
4030180	ESHD80-3E-13.5-FC 208V 1PH 13.5KW
4030088	ESHD80-3E-13.5-FC 208V 3PH 13.5KW
4030181	ESHD80-3E-13.5-FC 240V 1PH 13.5KW
4030182	ESHD80-3E-13.5-FC 240V 3PH 13.5KW
4030183	ESHD80-3E-13.5-FC 277V 1PH 13.5KW
4030184	ESHD80-3E-13.5-FC 480V 1PH 13.5KW
4030185	ESHD80-3E-13.5-FC 480V 3PH 13.5KW
4030102	ESHD80-3E-15-FC 208V 1PH 15KW
4030103	ESHD80-3E-15-FC 208V 3PH 15KW
4030104	ESHD80-3E-15-FC 240V 1PH 15KW
4030105	ESHD80-3E-15-FC 240V 3PH 15KW
4030186	ESHD80-3E-15-FC 277V 1PH 15KW
4030106	ESHD80-3E-15-FC 480V 1PH 15KW
4030107	ESHD80-3E-15-FC 480V 3PH 15KW
4030064	ESHD80-3E-18-FC 240V 1PH 18KW
4030065	ESHD80-3E-18-FC 240V 3PH 18KW
4030108	ESHD80-3E-18-FC 277V 1PH 18KW
4030066	ESHD80-3E-18-FC 480V 1PH 18KW
4030067	ESHD80-3E-18-FC 480V 3PH 18KW
4030068	ESHD80-6E-18-FC 208V 1PH 18KW
4030069	ESHD80-6E-18-FC 208V 3PH 18KW
4030109	ESHD80-6E-24-FC 208V 1PH 24KW
4030110	ESHD80-6E-24-FC 208V 3PH 24KW
4030111	ESHD80-6E-24-FC 240V 1PH 24KW
4030112	ESHD80-6E-24-FC 240V 3PH 24KW
4030187	ESHD80-6E-24-FC 277V 1PH 24KW
4030188	ESHD80-6E-24-FC 480V 1PH 24KW
4030189	ESHD80-6E-24-FC 480V 3PH 24KW
4030190	ESHD80-6E-27-FC 208V 1PH 27KW
4030191	ESHD80-6E-27-FC 208V 3PH 27KW
4030192	ESHD80-6E-27-FC 240V 1PH 27KW
4030193	ESHD80-6E-27-FC 240V 3PH 27KW
4030194	ESHD80-6E-27-FC 277V 1PH 27KW
4030195	ESHD80-6E-27-FC 480V 1PH 27KW
4030196	ESHD80-6E-27-FC 480V 3PH 27KW
4030197	ESHD80-6E-30-FC 208V 1PH 30KW
4030198	ESHD80-6E-30-FC 208V 3PH 30KW
4030199	ESHD80-6E-30-FC 240V 1PH 30KW
4030200	ESHD80-6E-30-FC 240V 3PH 30KW
4030201	ESHD80-6E-30-FC 277V 1PH 30KW
4030202	ESHD80-6E-30-FC 480V 1PH 30KW
4030203	ESHD80-6E-30-FC 480V 3PH 30KW

MATERIAL CODES

MATERIAL CODE	DESCRIPTION
4030070	ESHD80-6E-36-FC 240V 1PH 36KW
4030071	ESHD80-6E-36-FC 240V 3PH 36KW
4030072	ESHD80-6E-36-FC 277V 1PH 36KW
4030073	ESHD80-6E-36-FC 480V 1PH 36KW
4030074	ESHD80-6E-36-FC 480V 3PH 36KW
4030075	ESHD80-9E-36-FC 208V 1PH 36KW
4030076	ESHD80-9E-36-FC 208V 3PH 36KW
4030113	ESHD80-9E-45-FC 208V 1PH 45KW
4030114	ESHD80-9E-45-FC 208V 3PH 45KW
4030204	ESHD80-9E-45-FC 240V 1PH 45KW
4030205	ESHD80-9E-45-FC 240V 3PH 45KW
4030206	ESHD80-9E-45-FC 277V 1PH 45KW
4030207	ESHD80-9E-45-FC 480V 1PH 45KW
4030208	ESHD80-9E-45-FC 480V 3PH 45KW
4030209	ESHD80-9E-54-FC 208V 3PH 54KW
4030115	ESHD80-9E-54-FC 240V 1PH 54KW
4030116	ESHD80-9E-54-FC 240V 3PH 54KW
4030210	ESHD80-9E-54-FC 277V 1PH 54KW
4030077	ESHD80-9E-54-FC 480V 1PH 54KW
4030078	ESHD80-9E-54-FC 480V 3PH 54KW
4030211	ESHD120-3E-13.5-FC 208V 1PH 13.5KW
4030079	ESHD120-3E-13.5-FC 208V 3PH 13.5KW
4030212	ESHD120-3E-13.5-FC 240V 1PH 13.5KW
4030213	ESHD120-3E-13.5-FC 240V 3PH 13.5KW
4030214	ESHD120-3E-13.5-FC 277V 1PH 13.5KW
4030215	ESHD120-3E-13.5-FC 480V 1PH 13.5KW
4030216	ESHD120-3E-13.5-FC 480V 3PH 13.5KW
4030117	ESHD120-3E-15-FC 208V 1PH 15KW
4030118	ESHD120-3E-15-FC 208V 3PH 15KW
4030119	ESHD120-3E-15-FC 240V 1PH 15KW
4030120	ESHD120-3E-15-FC 240V 3PH 15KW
4030217	ESHD120-3E-15-FC 277V 1PH 15KW
4030121	ESHD120-3E-15-FC 480V 1PH 15KW
4030122	ESHD120-3E-15-FC 480V 3PH 15KW
4030080	ESHD120-3E-18-FC 240V 1PH 18KW
4030081	ESHD120-3E-18-FC 240V 3PH 18KW
4030082	ESHD120-3E-18-FC 277V 1PH 18KW
4030083	ESHD120-3E-18-FC 480V 1PH 18KW
4030084	ESHD120-3E-18-FC 480V 3PH 18KW
4030085	ESHD120-6E-18-FC 208V 1PH 18KW
4030086	ESHD120-6E-18-FC 208V 3PH 18KW
4030123	ESHD120-6E-24-FC 208V 1PH 24KW
4030124	ESHD120-6E-24-FC 208V 3PH 24KW
4030125	ESHD120-6E-24-FC 240V 1PH 24KW
4030126	ESHD120-6E-24-FC 240V 3PH 24KW
4030218	ESHD120-6E-24-FC 277V 1PH 24KW

MATERIAL CODE	DESCRIPTION
4030219	ESHD120-6E-24-FC 480V 1PH 24KW
4030220	ESHD120-6E-24-FC 480V 3PH 24KW
4030221	ESHD120-6E-27-FC 208V 1PH 27KW
4030222	ESHD120-6E-27-FC 208V 3PH 27KW
4030223	ESHD120-6E-27-FC 240V 1PH 27KW
4030224	ESHD120-6E-27-FC 240V 3PH 27KW
4030225	ESHD120-6E-27-FC 277V 1PH 27KW
4030226	ESHD120-6E-27-FC 480V 1PH 27KW
4030227	ESHD120-6E-27-FC 480V 3PH 27KW
4030228	ESHD120-6E-30-FC 208V 1PH 30KW
4030229	ESHD120-6E-30-FC 208V 3PH 30KW
4030230	ESHD120-6E-30-FC 240V 1PH 30KW
4030231	ESHD120-6E-30-FC 240V 3PH 30KW
4030232	ESHD120-6E-30-FC 277V 1PH 30KW
4030233	ESHD120-6E-30-FC 480V 1PH 30KW
4030234	ESHD120-6E-30-FC 480V 3PH 30KW
4030128	ESHD120-6E-36-FC 240V 1PH 36KW
4030129	ESHD120-6E-36-FC 240V 3PH 36KW
4030130	ESHD120-6E-36-FC 277V 1PH 36KW
4030131	ESHD120-6E-36-FC 480V 1PH 36KW
4030132	ESHD120-6E-36-FC 480V 3PH 36KW
4030127	ESHD120-9E-36-FC 208V 1PH 36KW
4030087	ESHD120-9E-36-FC 208V 3PH 36KW
4030235	ESHD120-9E-45-FC 208V 1PH 45KW
4030236	ESHD120-9E-45-FC 208V 3PH 45KW
4030237	ESHD120-9E-45-FC 240V 1PH 45KW
4030238	ESHD120-9E-45-FC 240V 3PH 45KW
4030239	ESHD120-9E-45-FC 277V 1PH 45KW
4030133	ESHD120-9E-45-FC 480V 1PH 45KW
4030134	ESHD120-9E-45-FC 480V 3PH 45KW
4030240	ESHD120-9E-54-FC 208V 3PH 54KW
4030241	ESHD120-9E-54-FC 240V 1PH 54KW
4030242	ESHD120-9E-54-FC 240V 3PH 54KW
4030243	ESHD120-9E-54-FC 277V 1PH 54KW
4030135	ESHD120-9E-54-FC 480V 1PH 54KW
4030136	ESHD120-9E-54-FC 480V 3PH 54KW