

SINGLE COILED INDIRECT WATER HEATER TECHNICAL DATA SHEET

Type	100	160	200	300	400	500	800	1000
Heat Exchanger Outlet (kW)	70	70	70	70	70	70	70	70
Heat Exchanger Surface Area	0.650	0.840	1.110	1.556	2.027	2.414	4.104	4.610
Exchanger Flow Rate (60-80)	3010	3010	3010	3010	3010	3010	3010	3010
30 min Δt_{44} (l)	209.9219200	494.4835300	660.1025340	909.0559110	1210.1586900	1463.5821120	2964.5540000	2878.4383680
60 min Δt_{44} (l)	576.1618000	749.2175600	988.3282720	1362.9657640	1806.2529020	2155.2228080	3643.8640000	4132.0567760
90 min Δt_{44} (l)	770.7159200	1011.4473060	1334.9094520	1891.9228790	2492.6586000	2970.2125260	5072.5968000	5756.8767360
120 min Δt_{44} (l)	963.3946400	1279.8006730	1700.8625580	2421.6609690	3215.4029490	3861.2755040	6594.6896000	7483.3192480
In Continuous Operation (l)	414.1155200	551.4235090	731.0387700	1008.1044220	1337.0715930	1592.7225620	2700.5184000	3042.9204640
Heating Time (min)	13	16	16	17	17	18	17	19
30 min Δt_{50} (l)	237.211520	558.765207	745.916716	1061.132423	1367.478529	1653.544742	2986.633600	3252.634208
60 min Δt_{50} (l)	649.932400	847.369972	1116.263106	1560.490252	2041.744536	2432.130474	4160.289200	4644.933744
90 min Δt_{50} (l)	870.908480	1144.963637	1795.478075	2137.872143	2841.624400	3396.396908	5747.231200	6508.270104
120 min Δt_{50} (l)	1089.598640	1446.702530	3235.072932	2736.475845	3633.412146	4401.854030	7451.998400	6505.270104
In Continuous Operation (l)	448.483200	593.153834	792.845796	1107.947637	1479.058704	1761.133362	2995.200000	3344.145536
Heating Time (min)	15	18	18	21	22	23	21	24
30 min Δt_{55} (l)	262.402400	618.103304	825.127884	1173.819042	1512.697797	1829.477640	3608.291200	3598.047960
60 min Δt_{55} (l)	718.985200	936.652195	1230.239000	1726.207130	2258.567415	2690.410260	4561.688000	5146.099972
90 min Δt_{55} (l)	870.908480	1747.257876	1674.862480	2364.902752	3119.707075	4826.594380	6283.145600	7196.095920
120 min Δt_{55} (l)	1204.243040	1597.507821	2125.055158	3027.910929	4019.260713	4826.145438	8243.161600	9354.148215
In Continuous Operation (l)	496.076880	646.199554	848.969100	1208.344991	1429.220949	1722.812614	2953.784000	3367.576880
Heating Time (min)	17	21	20	22	22	23	21	24
Magnesium Anode Connection Size	1"	1"	1"	1"	1"	1.1/2"	1.1/2"	1.1/2"
Volume (lt)	100	160	200	300	400	500	800	1000
Electric Heater Connection	2"	2"	2"	2"	2"	2"	2"	2"
Cleaning and Control Flange*	5"	5"	5"	5"	5"	5"	6"	6"
Domestic Hot and Cold Water Inlet and Outlet	1"	1"	1"	1"	1"	1"	1"	1"
Circulation Return	1"	1"	1"	1"	1"	1"	1"	1"
Heat Exchanger Inlet/Outlet	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Heat Exchanger Capacity (kW)	32	26	41	50	80	105	124	154
Hot Water Capacity (lt)	572.22	654.316	899.717	898.938	1022.177	1227	1090.857	1158.656

* Cleaning and Control Flange is optional, SMART series 100-160-200 lt indirect water heaters don't contain a cleaning flange.