

DOUBLE 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	1.060	1.338	1.708	2.332	3.116	3.287	4.354	5.382
Exchanger Flow Rate (60-80)	3010	3010	3010	3010	3010	3010	3010	3010
30 min Δt_{44} (l)	342.1727296	787.2174980	1015.2376970	1406.7057550	1858.8037480	1991.9352540	2707.8166400	3359.1375750
60 min Δt_{44} (l)	937.5134080	1192.7543560	1515.2810820	2068.6866250	2776.3276400	2929.3186910	3868.3114240	4798.7690910
90 min Δt_{44} (l)	#####	1610.2183800	2060.7807370	2834.1004730	3828.5808540	4042.4592480	5376.9526080	6718.2751510
120 min Δt_{44} (l)	#####	2034.5867140	2615.9112680	3627.6481320	4938.8686060	5255.1959610	6990.3709760	8733.0335620
In Continuous Operation (l)	675.0082976	877.8662263	1124.3376280	1510.1404240	2053.7419670	2167.6954070	2862.5495040	3551.0881810
Heating Time (min)	8	10	10	11	13	16	16	16
30 min Δt_{50} (l)	386.654778	889.554210	1147.218371	1589.576370	2100.447019	2250.886777	3059.831616	3795.824121
60 min Δt_{50} (l)	1059.389812	1349.003443	1716.812657	2337.614397	3136.119607	3310.129575	4409.874752	5420.637679
90 min Δt_{50} (l)	1419.580822	1822.766031	2761.445281	3202.532459	4364.581478	4567.977934	6092.086272	7591.650211
120 min Δt_{50} (l)	1776.045783	2303.150428	4975.542169	4099.240816	5580.921056	5990.923335	7899.118304	7591.650211
In Continuous Operation (l)	730.978716	944.300904	1218.935434	1659.705410	2258.005561	2383.292506	3174.912000	3901.812405
Heating Time (min)	9	12	11	13	13	15	18	18
30 min Δt_{55} (l)	427.715912	984.020460	1269.046686	1758.380925	2323.503816	2489.919068	3824.788672	4198.921969
60 min Δt_{55} (l)	1171.891760	1490.942944	1892.339820	2585.858281	3469.159549	3661.648364	4835.389280	5998.461363
90 min Δt_{55} (l)	1419.580822	2781.634539	2575.975049	3542.624322	4785.726067	6568.994951	6660.134336	8397.843939
120 min Δt_{55} (l)	1962.916155	2543.232451	3269.888213	4534.559742	6173.584455	65683.839410	8737.963296	10916.290970
In Continuous Operation (l)	808.605314	1028.749690	1305.714476	1810.100797	2195.283378	2350.191832	3131.011040	3929.962219
Heating Time (min)	10.00	13	13	14	14	17	20	21
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)	39.00	41	46	57	95	121	138	171
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.