

## Standard Specifications

Description	MODELS		SDF3	SDF4	SDF5	SDF6	SDF7	SDF8	SDF9	SDF10	SDF15	SDF20	SDF25	SDF30	SDF35	SDF40	SDF45	SDF50	SDF60	SDF80	SDF100
	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS
Chilled Water	Nominal Capacity	TR	31	41	52	61	70	81	92	105	151	202	249	289	330	379	423	473	589	749	962
	Flow Rate	GPM	75	99	125	147	168	195	221	252	363	485	598	694	792	910	1016	1136	1414	1798	2309
	Pressure drop Ft water	Ft.W	8	7.6	7.6	8	7	7.6	8	9	9	12	14	19	25	25	25	25	20	45	45
Heating Water	Nozzel Size	inch	3	3	3	4	4	5	5	5	5	5	6	6	6	6	8	8	8	8	10
	Capacity	Kcal/hr	135391	180455	225550	270689	315770	360880	405990	515110	676650	902200	1127750	1355300	1578850	1804400	2029950	2255500	2706600	3608800	4511000
	Flow Rate	GPM	53.7	71.6	89.5	107.4	125.3	143.2	161	204.4	268.5	358	447.5	537	626.5	716	805.5	895	1074	1432	1790
Cooling Water	Pressure drop Ft water	Ft.W	6	6	6	6	6	6	6	6	8	8	8	8	8	8	8	8	10	14	16
	Flow Rate	GPM	110	145	184	216	248	286	325	371	535	715	880	1023	1165	1338	1494	1670	2080	2644	3396
	Pressure drop Ft water	Ft.W	12	12	12	12	12	12	12	17	25	20	24	25	33	33	33	33	30	50	50
Domestic Hot Water	Nozzel Size	inch	4	4	4	5	5	5	6	6	6	6	8	8	8	8	10	10	10	10	12
	Capacity	Kcal/hr	27000	36000	45000	50000	60000	70000	80000	86000	100000	150000	200000	250000	270000	300000	350000	400000	468750	562500	625000
	Flow Rate	GPM	10.71	14.3	17.8	19.8	23.8	27.7	31.7	34.1	39.7	59.5	79.3	99.2	107	119	139	159	186	223	248
Electrical Supply	Conection Size	inch	1	1	1	1 1/4	1 1/4	1 1/2	1 1/2	2	2	2 1/2	3	3	3	3 1/2	3 1/2	4	4	4	4
	Solution Pump	kw	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.2	2.2	3.7	3.7	3.7	5.5	5.5	5.5	5.5	7.5	11	15
	Refrigerant Pump	kw	0.75	0.75	0.75	0.75	0.75	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2	2.2	3.7	3.7	3.7	5.5	5.5
	Vacuum Pump	kw	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.5	0.5	0.75
	Hot Water Pump	kw	1	1	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.2	3	3	7.5	7.5	7.5	9	11	15	15
Burner	kw	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1	1	1.5	1.5	1.5	2	2	2.2

(54°F) → 44°F  
 (85°F) → 100°F  
 (138°F) → 158°F  
 (138°F) → 158°F

Table:1

The data in the above table are based on:

- 1- Chilled water temperature in/out:
- 2- Cooling water temperature in/out:
- 3- Heating water temperature in/out:
- 4- Domestic Hot water temperature in/out:

### Notes:

- 1- For nominal and actual capacities, refer to table2.
- 2- Lowest heating value of city gas is 9500 kcal/m<sup>3</sup>.
- 3- Concerning the heating function during the winter time, the operating temperature should be limited to (167°F)
- 4- Specifications subject to change without prior notice.