
APPENDIX C

TABLE OF THE TRNSYS DIRECT-FIRED DOUBLE-EFFECT ABSORPTION CHILLER MODEL CURVE FIT COEFFICIENTS AND R² VALUES

$T_{chw,s}$ (F)	$\frac{\dot{m}_c}{\dot{m}_{c,nom}}$	T_{ci} (F)	M_0	M_1	M_2	M_3	M_4	R^2
42	1.25	90	0.27514	2.5496	-3.8730	2.8300	-0.82682	0.99996
		85	0.33385	2.5804	-3.9868	2.9326	-0.85728	0.99996
		80	0.39760	2.6397	-4.1910	3.1310	-0.92352	0.99996
		75	0.47982	2.6674	-4.3938	3.3731	-1.01780	0.99992
		70	0.59702	2.5375	-4.2410	3.2520	-0.97787	0.99982
		65	0.72932	2.4218	-4.1988	3.2836	-1.00340	0.99976
	1.00	90	0.23742	2.7998	-4.6359	3.7380	-1.21080	0.99998
		85	0.33613	2.5192	-3.8947	2.8444	-0.82444	0.99994
		80	0.41238	2.4890	-3.8985	2.8558	-0.82811	0.99992
		75	0.47609	2.6225	-4.3304	3.3095	-0.99390	0.99992
		70	0.58041	2.5814	-4.4058	3.4263	-1.04060	0.99988
		65	0.72800	2.3627	-4.1283	3.2220	-0.97966	0.99972
	0.75	90	0.21933	2.8886	-5.0466	4.3139	-1.49180	0.99998
		85	0.30695	2.6655	-4.4181	3.4897	-1.10240	0.99994
		80	0.38661	2.5746	-4.1998	3.1863	-0.95492	0.99996
		75	0.47313	2.5511	-4.2762	3.2934	-0.99786	0.99988
		70	0.58178	2.4613	-4.2172	3.2498	-0.97592	0.99984
		65	0.72801	2.2463	-3.9697	3.0913	-0.93631	0.99958
	0.50	90	0.20996	2.8619	-5.3410	4.9490	-1.90870	1.00000
		85	0.28622	2.7012	-4.8331	4.1537	-1.45310	0.99998
		80	0.36649	2.5589	-4.3887	3.4693	-1.08870	0.99998
		75	0.47188	2.3766	-4.0588	3.1185	-0.94258	0.99974
		70	0.57782	2.2804	-3.9869	3.0642	-0.91486	0.99976
		65	0.70364	2.1769	-4.0209	3.2048	-0.98877	0.99954
44	1.25	90	0.29616	2.5684	-3.9170	2.8527	-0.82668	0.99994
		85	0.34865	2.6756	-4.2542	3.2172	-0.96481	0.99992
		80	0.44205	2.5524	-4.0122	2.9497	-0.85727	0.99996
		75	0.52998	2.5690	-4.1826	3.1369	-0.92165	0.99990
		70	0.64975	2.4748	-4.1680	3.1961	-0.96004	0.99982
		65	0.79269	2.3416	-4.1221	3.2358	-0.98724	0.99962
	1.00	90	0.28433	2.6091	-4.0854	3.0501	-0.90620	0.99996
		85	0.34843	2.6170	-4.1482	3.1026	-0.92021	0.99992
		80	0.42283	2.6327	-4.2790	3.2431	-0.96891	0.99998
		75	0.51785	2.6017	-4.3613	3.3723	1.02490	0.99978
		70	0.62994	2.5425	-4.3983	3.4417	-1.05010	0.99994
		65	0.79494	2.2486	-3.9667	3.0914	0.93651	0.99954
	0.75	90	0.27934	2.5947	-4.2053	3.2564	-1.01400	0.99998
		85	0.33689	2.6313	-4.3208	3.3437	-1.02910	0.99994

		80	0.42391	2.5359	-4.1505	3.1428	-0.93940	0.99992
		75	0.51415	2.5229	-4.2725	3.3021	-1.00120	0.99980
		70	0.62981	2.4287	-4.2341	3.3017	-1.00340	0.99976
		65	0.78960	2.1560	-3.8462	2.9810	-0.89488	0.99938
	0.50	90	0.17621	3.3699	-6.9925	7.2123	-3.03040	0.99998
		85	0.27908	2.9578	-5.5675	5.0148	-1.81820	0.99998
		80	0.40237	2.5362	-4.4187	3.5461	-1.12980	0.99990
		75	0.49603	2.4492	-4.2845	3.3492	-1.02110	0.99972
		70	0.61807	2.2989	-4.1538	3.2963	-1.01790	0.99934
		65	0.76642	2.0848	-3.9288	3.1523	0.97600	0.99950
48	1.25	90	0.34332	2.6144	-4.0916	3.0517	-0.90599	0.99994
		85	0.41385	2.6468	-4.2528	3.2206	-0.96481	0.99992
		80	0.50384	2.6152	-4.2700	3.2288	-0.95823	0.99990
		75	0.61461	2.5629	-4.3413	3.3627	-1.01930	0.99990
		70	0.75581	2.4182	-4.2560	3.3569	-1.02840	0.99964
		65	0.93965	2.0806	-3.7501	2.9453	-0.89690	0.99924
	1.00	90	0.34471	2.5522	-3.9835	2.9336	-0.85713	0.99998
		85	0.42134	2.5292	-4.0017	2.9524	-0.86081	0.99986
		80	0.50650	2.5409	-4.1640	3.1425	-0.93118	0.99994
		75	0.61868	2.4632	-4.1600	3.1825	-0.95073	0.99982
		70	0.75104	2.3737	-4.2200	3.3411	-1.02820	1.00000
		65	0.92901	2.0757	-3.8129	3.0190	-0.92208	0.99934
	0.75	90	0.32488	2.6359	-4.3618	3.4352	-1.08460	0.99994
		85	0.41366	2.4971	-4.0253	2.9944	-0.87683	0.99998
		80	0.50392	2.4672	-4.1035	3.1162	-0.92917	0.99988
		75	0.59763	2.5107	-4.4113	3.4894	-1.07570	0.99986
		70	0.74359	2.2961	-4.1290	3.2563	-0.99439	0.99914
		65	0.92905	1.9459	-3.6329	2.8780	-0.88044	0.99962
	0.50	90	0.26916	2.9460	-5.5669	5.0868	-1.88780	0.99998
		85	0.35641	2.7825	-5.1060	4.3920	-1.50710	1.00000
		80	0.49613	2.3352	-4.0005	3.0772	-0.92940	0.99978
		75	0.60309	2.2468	-3.9577	3.0602	-0.92150	0.99972
		70	0.73437	2.1223	-3.9392	3.1342	-0.96508	0.99954
		65	0.91618	1.7698	-3.4199	2.6967	-0.81411	0.99978