



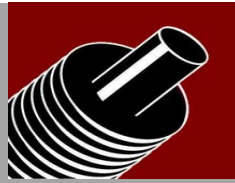
ENERGY TRANSFER-MDE

Finned Tube Surface Area

AVERAGE OUTSIDE SURFACE AREA (Sq. Ft. per Lineal Foot of Tube)

Tube O.D. Chart

TUBE O.D.	FIN HEIGHT	FIN O.D.	Number of Fins per Inch of Length									
			4	5	6	7	8	9	10	11	12	14
3/8"	0.125	0.625	0.233	0.267	0.3	0.334	0.369	0.403	0.437	0.471	0.505	0.573
	0.25	0.875	0.433	0.517	0.6	0.684	0.768	0.853	0.937	1.021	1.105	1.273
	0.312	1	0.557	0.673	0.788	0.902	1.017	1.132	1.247	1.362	1.477	
1/2"	0.125	0.75	0.298	0.34	0.382	0.424	0.466	0.508	0.55	0.592	0.634	0.718
	0.25	1	0.531	0.632	0.731	0.834	0.935	1.036	1.137	1.238	1.339	1.514
	0.312	1.125	0.672	0.808	0.943	1.08	1.216	1.352	1.488	1.624	1.76	2.032
	0.375	1.25	0.83	1.005	1.179	1.335	1.53	1.705	1.88	2.005	2.23	
5/8"	0.25	1.125	0.63	0.746	0.862	0.978	1.094	1.21	1.326	1.442	1.558	1.79
	0.312	1.25	0.787	0.943	1.099	1.255	1.411	1.567	1.723	1.879	2.035	2.347
	0.375	1.375	0.961	1.16	1.359	1.558	1.757	1.956	2.155	2.354	2.553	2.951
	0.438	1.5	1.151	1.398	1.645	1.892	2.139	2.386	2.633	2.88	3.127	
3/4"	0.25	1.25	0.728	0.861	0.993	1.127	1.26	1.393	1.526	1.659	1.792	2.058
	0.312	1.375	0.902	1.078	1.254	1.43	1.606	1.782	1.958	2.134	2.31	2.662
	0.375	1.5	1.092	1.316	1.539	1.764	1.988	2.212	2.436	2.66	2.884	3.332
	0.438	1.625	1.298	1.574	1.849	2.126	2.402	2.678	2.954	3.23	3.506	4.058
	0.5	1.75	1.521	1.852	2.183	2.514	2.845	3.176	3.507	3.838	4.169	
7/8"	0.25	1.375	0.826	0.975	1.124	1.273	1.422	1.571	1.72	1.869	2.018	2.316
	0.312	1.5	1.016	1.213	1.41	1.661	1.876	2.091	2.306	2.521	2.736	3.166
	0.375	1.625	1.223	1.471	1.719	1.967	2.215	2.463	2.711	2.959	3.207	3.703
	0.438	1.75	1.445	1.75	2.054	2.36	2.665	2.97	3.275	3.58	3.885	
	0.5	1.875	1.685	2.049	2.412	2.777	3.141	3.505	3.869	4.233	4.597	
1"	0.25	1.5	0.924	1.09	1.255	1.422	1.588	1.754	1.92	2.086	2.252	2.584
	0.312	1.625	1.131	1.348	1.565	1.782	1.999	2.216	2.433	2.65	2.867	3.301
	0.375	1.75	1.354	1.626	1.899	2.17	2.442	2.714	2.986	3.258	3.53	4.074
	0.438	1.875	1.593	1.925	2.258	2.589	2.921	3.253	3.585	3.917	4.249	
	0.5	2	1.848	2.245	2.642	3.039	3.436	3.833	4.23	4.627	5.024	
	0.625	2.25	2.409	2.945	3.482	4.017	4.553	5.089				



ENERGY TRANSFER-MDE

Finned Tube Surface Area

AVERAGE OUTSIDE SURFACE AREA (Sq. Ft. per Lineal Foot of Tube)

Pipe Size Chart

PIPE SIZE	FIN HEIGHT	FIN O.D.	Number of Fins per Inch of Length									
			4	5	6	7	8	9	10	11	12	14
3/4"	0.25	1.55	0.968	1.141	1.315	1.49	1.663	1.863	2.009	2.182	2.355	
(1.050")	0.312	1.675	1.182	1.409	1.636	1.863	2.09	2.317	2.554	2.771	2.998	
	0.375	1.8	1.413	1.697	1.981	2.265	2.549	2.833	3.117	3.401	3.685	
	0.438	1.925	1.66	2.006	2.352	2.698	3.044	3.39	3.736	4.082	4.428	
	0.5	2.05	1.923	2.335	2.747	3.159	3.571	3.983	4.395			
	0.625	2.3	2.498	3.055	3.61	4.166	4.723	5.28				
1"	0.375	2.065	1.69	2.027	2.363	2.701	3.038	3.375	3.712	4.049	4.386	
(1.315")	0.438	2.19	1.972	2.379	2.786	3.193	3.6	4.007	4.414	4.821	5.228	
	0.5	2.315	2.27	2.752	3.232	3.716	4.198	4.68	5.162	5.644	6.126	
	0.625	2.565	2.915	3.558	4.2	4.841	5.487	6.13				
	0.75	2.815	3.626	4.446	5.266	6.086	6.906	7.726				
1-1/4"	0.5	2.66	2.722	3.293	3.865	4.435	5.006	5.577	6.148	6.719	7.29	
(1.660")	0.625	2.91	3.457	4.213	4.968	5.722	6.477	7.232				
	0.75	3.16	4.258	5.214	6.17	7.126	8.082	9.038				
1-1/2"	0.5	2.9	3.036	3.67	4.305	4.941	5.576	6.211	6.846	7.481	8.116	
(1.900")	0.625	3.15	3.834	4.668	5.502	6.336	7.17	8.004				
	0.75	3.4	4.698	5.748	6.798	7.848	8.898	9.948				
	0.875	3.65	5.627	6.909	8.192	9.473	10.755	12.037				
2"	0.5	3.375	3.658	4.417	5.176	5.935	6.698	7.453	8.212	8.971	9.73	
(2.375")	0.625	3.625	4.58	5.57	6.559	7.55	8.54	9.53				
	0.75	3.875	5.568	6.805	8.041	9.279	10.516	11.753				
	0.875	4.125	6.621	8.122	9.622	11.124	12.625	14.126				
	1	4.375	7.741	9.52	11.3	13.081	14.861					