



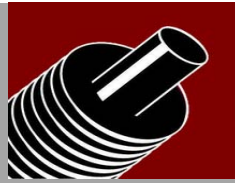
# ENERGY TRANSFER-MDE

## 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				



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## 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					