

ASSOCIATED TRANSFORMERS PRIVATE LIMITED

Radiator Technical Data

SECTION WIDTH - 226 MM									
Center to Center (MM)	Cooling Surface Section M ²	35° C WATTS SEC	40° C WATTS M	45° C WATTS M	50° C WATTS M	55° C WATTS M	60° C WATTS M	Oil Contents per section including header pipe (litres)	Weight per section including header pipe (kgs)
500	0.249	73	87	95	109	123	136	1.25	2.55
600	0.296	83	100	110	126	142	158	1.40	3.00
700	0.343	97	113	126	143	161	179	1.55	3.45
800	0.390	109	124	141	160	179	199	1.70	3.90
900	0.437	120	137	155	175	196	219	1.85	4.35
1000	0.484	130	150	170	191	214	239	2.00	4.80
1100	0.531	141	163	184	207	232	258	2.15	5.25
1200	0.578	150	174	197	220	249	276	2.30	5.70
1300	0.625	160	185	210	234	266	294	2.45	6.15
1400	0.672	169	196	222	248	281	311	2.60	6.60
1500	0.718	179	207	234	261	296	327	2.75	7.05
1600	0.766	188	217	245	274	310	343	2.90	7.50
1700	0.813	197	227	256	287	323	358	3.05	7.95
1800	0.860	206	237	267	300	337	373	3.20	8.40
1900	0.907	214	247	278	311	350	389	3.35	8.85
2000	0.954	223	257	289	323	364	402	3.50	9.30
2100	1.001	230	266	299	335	377	416	3.65	9.75
2200	1.048	238	276	309	346	389	429	3.80	10.20
2300	1.095	245	285	319	358	401	442	3.95	10.65
2400	1.142	254	293	330	368	413	455	4.10	11.10
2500	1.189	262	302	340	380	424	468	4.25	11.55

HEAT TRANSMISSION TABLE FOR 'ON' COOLING									
Section Width - 300 MM									
Heat Dissipated for Oil Excess Temperature of									
Center to Center (MM)	Cooling Surface Section M ²	35° C WATTS SEC	40° C WATTS M	45° C WATTS M	50° C WATTS M	55° C WATTS M	60° C WATTS M	Oil Contents per section including header pipe (litres)	Weight per section including header pipe (kgs)
500	0.315	94	110	120	138	155	546	1.55	3.25
600	0.378	109	126	139	159	179	528	1.75	3.85
700	0.441	123	143	159	181	203	513	1.95	4.45
800	0.504	138	157	178	202	226	499	2.15	5.05
900	0.567	152	173	196	221	248	488	2.35	5.65
1000	0.630	164	190	215	241	270	479	2.55	6.25
1100	0.693	178	206	232	262	293	470	2.75	6.85
1200	0.756	190	220	249	274	315	461	2.95	7.45
1300	0.819	202	234	265	296	336	454	3.15	8.05
1400	0.882	214	248	281	313	355	446	3.35	8.65
1500	0.945	226	262	296	330	371	437	3.55	9.25
1600	1.008	238	274	310	346	392	430	3.75	9.85
1700	1.071	249	287	323	363	408	422	3.95	10.45
1800	1.134	260	299	337	379	426	416	4.15	11.05
1900	1.197	270	312	351	393	442	411	4.35	11.65
2000	1.260	282	325	365	408	460	403	4.55	12.25
2100	1.323	291	336	378	423	476	397	4.75	12.85
2200	1.386	301	349	390	437	492	391	4.95	13.45
2300	1.449	310	360	403	452	507	385	5.15	14.05
2400	1.512	321	370	417	465	522	380	5.35	14.65
2500	1.575	331	382	430	480	536	375	5.55	15.25

HEAT TRANSMISSION TABLE FOR 'ON' COOLING

Section Width - 520 MM									
Heat Dissipated for Oil Excess Temperature of									
Center to Center (MM)	Cooling Surface Section M ²	35° C WATTS SEC	40° C WATTS M	45° C WATTS M	50° C WATTS M	55° C WATTS M	60° C WATTS M	Oil Contents per section including header pipe (litres)	Weight per section including header pipe (kgs)
500	0.532	171	201	219	251	284	314	2.12	5.52
600	0.637	198	231	254	291	328	364	2.52	6.52
700	0.742	224	261	291	330	371	413	2.92	7.52
800	0.847	251	286	325	369	413	459	3.32	8.52
900	0.952	277	316	358	404	452	505	3.72	9.52
1000	1.057	300	346	392	441	494	551	4.12	10.52
1100	1.162	325	376	424	477	535	595	4.52	11.52
1200	1.267	346	401	454	507	574	637	4.92	12.52
1300	1.372	396	427	484	540	614	678	5.32	13.52
1400	1.477	390	452	525	572	648	717	5.72	14.52
1500	1.582	413	477	540	602	683	754	6.12	15.52
1600	1.687	434	501	585	632	715	791	6.52	16.52
1700	1.792	454	524	591	662	745	826	7.32	18.52
1800	1.897	475	547	616	692	777	860	7.72	19.52
1900	2.002	494	570	641	717	807	897	7.72	19.52
2000	2.107	514	593	667	745	840	927	8.12	20.52
2100	2.212	531	614	690	773	870	960	8.52	21.52
2200	2.317	549	637	718	798	897	990	8.92	22.52
2300	2.422	565	657	736	826	925	1020	9.32	23.52
2400	2.527	586	676	761	849	950	1050	9.72	24.52
2500	2.632	604	697	784	877	978	1080	10.20	25.52

To obtain Radiator weight multiply this figure by the number of sections plus the wight of flanges, straps, sockets, plugs and any other accessory.