


# HEAT REJECTION 3

<b>HEAT REJECTION AND OPERATING DATA MODEL L5790G — NATURAL GAS 10:1 CR</b>								
	BMEP	ENGINE SPEED — RPM						
		600	700	800	900	1000	1100	1200
<b>HORSEPOWER</b>	110	482	563	634	723	804	881	965
	100	439	512	585	658	731	804	877
	90	395	461	527	592	658	724	790
	80	351	409	468	526	585	643	702
	70	307	358	410	461	512	563	615
	60	263	307	351	395	439	483	526
	50	220	256	293	329	366	402	437
	40	175	205	234	263	292	322	351
<b>FUEL CONSUMPTION (BTU/MIN)</b>	110	59,876	68,479	76,748	87,232	97,244	107,322	117,752
	100	55,570	63,471	71,881	80,608	89,853	99,207	108,392
	90	51,210	58,364	66,025	73,977	82,331	90,647	99,188
	80	46,952	53,406	60,331	67,444	75,018	82,586	90,184
	70	42,907	48,582	54,865	61,257	67,981	74,708	81,515
	60	38,750	43,882	49,343	54,994	60,765	66,762	72,605
	50	34,807	39,167	43,864	48,773	53,979	59,001	64,105
	40	30,590	34,477	38,414	42,692	47,043	51,533	55,951
<b>HEAT REJECTION TO JACKET WATER (BTU/MIN)</b>	110	19,328	22,576	25,423	28,993	32,240	35,328	38,696
	100	17,955	20,940	23,926	26,912	29,897	32,883	35,869
	90	16,511	19,269	22,028	24,745	27,504	30,263	33,022
	80	15,093	17,587	20,124	22,618	25,155	27,649	30,186
	70	13,815	16,110	18,450	20,745	23,040	25,335	27,675
	60	12,413	14,490	16,567	18,644	20,720	22,797	24,827
	50	11,110	12,928	14,796	16,614	18,483	20,301	22,068
	40	9,625	11,275	12,870	14,465	16,060	17,710	19,305
<b>HEAT REJECTION TO EXHAUST (BTU/MIN)</b>	110	13,393	14,848	16,872	19,455	22,312	25,587	28,595
	100	12,425	13,800	15,613	17,884	20,603	23,431	26,213
	90	11,563	12,745	14,433	16,503	18,883	21,244	23,793
	80	10,656	11,756	13,235	14,995	17,123	19,365	21,590
	70	9,905	10,744	12,097	13,655	15,545	17,436	19,313
	60	9,143	9,974	11,134	12,483	13,955	15,623	17,290
	50	8,445	9,157	10,050	11,284	12,711	14,058	15,589
	40	7,694	8,352	9,118	10,244	11,448	12,681	13,891
<b>HEAT REJECTION TO OIL (BTU/MIN)</b>	110	2,819	3,293	3,708	4,229	4,703	5,153	5,645
	100	2,677	3,123	3,568	4,013	4,459	4,904	5,266
	90	2,488	2,904	3,320	3,729	4,145	4,561	4,977
	80	2,421	2,822	3,229	3,629	4,036	4,436	4,843
	70	2,271	2,649	3,034	3,411	3,788	4,166	4,551
	60	2,143	2,502	2,860	3,219	3,577	3,963	4,286
	50	2,024	2,355	2,695	3,026	3,367	3,698	4,020
	40	1,951	2,258	2,609	2,932	3,255	3,590	3,973


	<b>HEAT REJECTION AND OPERATING DATA MODEL L5790G NATURAL GAS 10:1 CR</b>	<b>DR: OFM DATE: 1/76 APP'D. GERARD</b>	<b>Ref. S 6124-4</b>
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HEAT REJECTION AND OPERATING DATA MODEL L5790G — NATURAL GAS 10:1 CR								
	BMEP	ENGINE SPEED — RPM						
		600	700	800	900	1000	1100	1200
<b>EXHAUST TEMPERATURE (°F)</b>	110	890	922	957	987	1,015	1,039	1,056
	100	875	910	946	977	1,006	1,030	1,048
	90	860	896	933	966	995	1018	1037
	80	840	879	917	951	980	1005	1025
	70	818	858	897	933	962	987	1007
	60	793	835	875	912	941	967	989
	50	765	806	847	886	916	942	965
	40	730	775	815	856	886	914	937
<b>EXHAUST FLOW (CFM)</b>	110	2,288	2,500	2,799	3,190	3,620	4,115	4,572
	100	2,138	2,336	2,602	2,944	3,354	3,781	4,203
	90	1,973	2,171	2,429	2,728	3,068	3,443	3,829
	80	1,865	2,019	2,234	2,494	2,815	3,153	3,490
	70	1,754	1,864	2,060	2,298	2,573	2,859	3,142
	60	1,641	1,750	1,915	2,111	2,331	2,582	2,833
	50	1,541	1,632	1,753	1,931	2,146	2,347	2,578
	40	1,436	1,515	1,671	1,779	1,959	2,122	2,324
<b>INDUCTION AIR REQUIREMENT (CFM)</b>	110	815	891	978	1,086	1,217	1,347	1,489
	100	777	836	913	1,016	1,130	1,280	1,380
	90	728	788	858	956	1,054	1,152	1,260
	80	690	739	804	885	980	1,065	1,157
	70	657	695	750	826	902	978	1,054
	60	619	663	706	771	836	902	967
	50	581	625	673	711	771	830	891
	40	559	586	630	673	717	766	815

**NOTES:**

1. 12 Cylinder 8-1/2" bore x 8-1/2" stroke, 5788 cu. in. displacement, water cooled exhaust manifolds.
2. LB/MIN EXH. = CFM x 0.0745 x  $\frac{520}{\text{EXH.TEMP.} + 460}$

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