

# 2009 POWER GUIDE



It's been an interesting 12 months for manufacturers of marine diesel engines. In the U.S. market, the recession has helped slow the pace of vessel construction and reduced engine backlogs. Two years ago, manufacturers of 1,000-hp engines had delivery backlogs of two years. Last year, the backlogs were about 18 months. This year, in most cases, it's less than half that.

"We've seen some cancellations," said Jeff Sherman, MTU's marine sales manager. "We don't have a lot of backlog. We build when we get the order. Our delivery process can be three to six months. This is August. I've just accepted a couple of deliveries for November."

While the commercial market has declined, engine manufacturers have been bolstered by the military market. There are a number of military contracts that have deliveries lasting for years. Engines for these vessels are still being manufactured, sold, and delivered.

MTU is supplying 20V1163, 9,724-hp engines for the U.S. Coast Guard's new 412' National Security Cutters. The first, the *Bertholf*, began its initial 90-day patrol in June.

There are currently two more NSCs under construction in Pascagoula, Miss.

The NSCs are fitted with engines that are larger than would normally be found on most smaller commercial workboats. The bigger engines are the targets of the U.S. Environmental Protection Agency's proposed rulemaking for Category 3 marine diesel engines. Military vessels are not exempt from the EPA's tougher engine and fuel standards. For a list of the new standards, go to <http://www.epa.gov/otag/oceanvessels.htm>.

Meanwhile companies are always looking to improve their products. **John Deere Power Systems (JDPS)** recently began production of three new marine engines. The PowerTech 6068AFM75, 6090SFM75 and 6135SFM75 marine engines are the newest additions to the John Deere lineup with horsepower ranges of 186 hp to 750 hp. The new John Deere marine engines are due out in early 2010.

Other noteworthy news is the closing of **Deutz Corp.**'s operations in Atlanta. The office was responsible for all Deutz marine sales to North and Central America.

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm

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3056	6	365	3.94x5.0	—	42.05	30.6	31.5	1,312	—	—	125 @ 2,600	—	—	—
											185 @ 2,100	—	—	—
											205 @ 2,500	—	—	—
C7	7.24	442	4.33x5.0	—	48.1	36.2	36.1	1,760	370 @ 2,600	—	275 @ 2,400	250 @ 2,400	—	—
											315 @ 2,400	—	—	—
C7 (ACERT)	7.24	442	4.33x5.0	—	48.1	36.2	36.1	1,760	455 @ 2,800	—	—	—	—	—
C9 (ACERT)	8.80	538	4.41x5.87	—	47.2	38.3	38.7	2,086	503 @ 2,500	—	—	—	—	—
											567 @ 2,500	—	—	—
C12	12	732	5.1x5.9	—	62	38.1	39.5	2,588	570 @ 2,300	—	385 @ 1,800	320 @ 1,800	—	—
											600 @ 2,300	454 @ 2,100	—	—
											—	490 @ 2,300	—	—
C12 (ACERT)	12	732	5.1x5.9	—	62	38.1	39.5	2,588	660 @ 2,300	—	—	—	—	—
											705 @ 2,300	—	—	—
C18	18.10	1,106	5.7x7.2	—	61.3	41.6	46.4	3,788	873 @ 2,200	—	479 @ 1,800	454 @ 1,800	—	—
											1,001 @ 2,300	553 @ 2,100	587 @ 1,800	—
											—	600 @ 1,800	—	—
											—	671 @ 2,100	—	—
											—	715 @ 2,100	—	—
C18 (ACERT)	18.10	1,106	5.7x7.2	—	59.2	42.1	45	3,394	873 @ 2,200	—	715 @ 2,100	454 @ 1,800	—	—
											1,001 @ 2,300	—	479 @ 1,800	—
											1,136 @ 2,300	—	600 @ 1,800	—
											1,550 @ 2,300	—	553 @ 2,100	—
											—	—	670 @ 2,100	—
C32	32.10	1,959	5.7x6.4	—	78.9	55.6	54.3	5,803	1,550 @ 2,300	—	—	—	—	—
											1,652 @ 2,300	—	—	—
C32 (ACERT)	32.20	1,959	5.71x6.38	—	77.8	55.4	54.4	7,100	1,800 @ 2,300	1,300 @ 1,800	660 @ 1,800 **	—	—	—
											1,700 @ 2,300	1,450 @ 2,300 **	750 @ 1,800 **	—
											(***)	1,600 @ 2,300 **	850 @ 1,800 **	—
											—	—	950 @ 1,600 **	—
											—	—	1,000 @ 1,800	—
											—	—	(**)	—
											—	—	1,300 @ 2,100	—
3508	34.50	2,105	6.7x7.5	—	81.8	67.1	71	11,499	1,150 @ 1,800	805 @ 1,300	705 @ 1,200	—	—	—
											—	905 @ 1,600	855 @ 1,600	—
											—	960 @ 1,800	855 @ 1,800	—
											—	820 @ 1,300	—	—
											—	1,000 @ 1,800	—	—
3508B	34.50	2,105	6.7x7.5	—	90.9	67.1	71	11,499	1,400 @ 1,880 *	850 @ 1,200 *	775 @ 1,200 *	—	—	—
											1,500 @ 1,925 *	960 @ 1,600	855 @ 1,600	—
											—	960 @ 1,800	855 @ 1,800	—
											—	1,050 @ 1,600	1,000 @ 1,600	—
											—	1,050 @ 1,800	1,000 @ 1,800	—
											—	900 @ 1,200	—	—
											—	1,000 @ 1,600	—	—
											—	1,100 @ 1,600	—	—
											—	1,100 @ 1,800	—	—
											—	1,200 @ 1,785 *	—	—
											—	1,300 @ 1,835 *	—	—
3508C	34.50	2,105	6.7x7.5	—	83.4	67	72	10,935	—	900 @ 1,200	—	—	—	—
											—	1,100 @ 1,600	—	—
3512	51.80	3,158	6.7x7.5	—	107	67.1	80.8	14,411	1,750 @ 1,800	1,301 @ 1,200	1,207 @ 1,200	—	—	—
											—	1,360 @ 1,600	1,280 @ 1,600	—
											—	1,445 @ 1,800	1,280 @ 1,800	—
											—	1,408 @ 1,200	—	—
											—	1,410 @ 1,600	—	—
											—	1,500 @ 1,800	—	—
3512B	51.80	3,158	6.7x7.5	—	121	70.2	82.3	14,441	2,100 @ 1,880 *	1,155 @ 1,200	1,100 @ 1,200	—	—	—
											2,250 @ 1,925 *	1,260 @ 1,200	1,280 @ 1,600	—
											—	—	1,300 @ 1,200	—
											—	1,350 @ 1,200	1,500 @ 1,600	—
											—	1,360 @ 1,600	1,500 @ 1,800	—
											—	1,360 @ 1,800	(***)	—
											—	1,575 @ 1,600	—	—
											—	1,575 @ 1,800	—	—
											—	1,210 @ 1,200	—	—
											—	1,300 @ 1,200	—	—
											—	1,410 @ 1,600	—	—
											—	1,410 @ 1,800	—	—
											—	1,475 @ 1,200	—	—
											—	1,650 @ 1,600	—	—
											—	1,650 @ 1,800	—	—
											—	1,800 @ 1,785 *	—	—
											—	1,950 @ 1,835 *	—	—
3512B	58.60	3,576	6.7x8.5	—	120	78.3	81.7	14,441	—	1,750 @ 1,600 **	1,500 @ 1,200	—	—	—
											2,100 @ 1,880 *	1,850 @ 1,600 **	(**)	—
											2,250 @ 1,925 *	1,911 @ 1,600	1,500 @ 1,800	—
											—	(***)	(***)	—
											—	1,750 @ 1,600	1,675 @ 1,600	—
											—	(**)	(**)	—
											—	1,911 @ 1,600	1,810 @ 1,600	—
											—	(**)	(**)	—
3512C	58.60	3,574	6.69x8.46	—	105.1	87.9	88.3	16,338	2,541 @ 1,800	1,650 @ 1,800	1,500 @ 1,200	—	—	—

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Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
									2,551 @ 1,800 **	2,012 @ 1,600 **				(**) 1,810 @ 1,600
									—	2,365 @ 1,800 **				(**) —
									—	1,911 @ 1,600 **				—
									—	2,250 @ 1,800 **				—
									—	1,600 @ 1,200 **				—
									—	1,700 @ 1,200 **				—
3512C	51.80	3,161	6.69x7.48	—	105.1	87.9	88.3	16,338	—	1,575 @ 1,800				1,500 @ 1,800
									—	1,400 @ 1,200				1,300 @ 1,200
									—	1,500 @ 1,600				1,400 @ 1,600
									—	1,500 @ 1,200				—
									—	1,600 @ 1,600				—
3516	69	4,210	6.7x7.5	—	145.3	67.1	80.8	17,699	2,200 @ 1,800	1,676 @ 1,200				1,603 @ 1,200
									—	1,810 @ 1,600				1,710 @ 1,600
									—	1,920 @ 1,800				1,710 @ 1,800
									—	1,750 @ 1,200				—
									—	2,000 @ 1,800				—
3516B	69	4,210	6.7x7.5	—	125.5	84.4	81.9	17,699	2,800 @ 1,880 *	2,600 @ 1,835				2,682 @ 1,925 *
									3,000 @ 1,925 *	—				—
3516B	69	4,210	6.7x7.5	—	126.8	80.8	82.3	17,699	—	1,750 @ 1,200				1,650 @ 1,200
									—	2,100 @ 1,600				1,875 @ 1,200
									—	2,100 @ 1,800				2,000 @ 1,600
									—	2,375 @ 1,600 **				2,000 @ 1,800
									—	2,575 @ 1,600 **				2,000 @ 1,800
									—	—				(***) —
									—	1,850 @ 1,200				—
									—	2,200 @ 1,600				—
									—	2,200 @ 1,800				—
									—	2,400 @ 1,785 *				—
									—	2,600 @ 1,835 *				—
3516B	78	4,766	6.7x8.5	—	126.8	80.8	82.3	17,699	—	2,375 @ 1,600 **				1,875 @ 1,200



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Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
														**
											2,575 @ 1,600	**	2,260 @ 1,600	
														**
											2,500 @ 1,600	**	2,447 @ 1,600	
														(**)
3516C	78	4,765	6.69x8.46	—	125.4	84.3	84.6	19,025	3,386 @ 1,800	**	2,682 @ 1,600	**	2,448 @ 1,600	
3516C	69	4,211	6.69x7.48	—	125.4	84.3	84.6	19,025	—		2,682 @ 1,600	**	—	
											2,200 @ 1,600		1,650 @ 1,200	
											1,850 @ 1,200		2,000 @ 1,600	
											2,100 @ 1,600		—	
											1,750 @ 1,200		—	
C280-6	111	6,773	11.0x11.8	—	158	71	108	34,496	—		2,548 @ 900		2,320 @ 900	
											2,722 @ 1,000		2,481 @ 1,000	
C-280-8	148	9,031	11.0x11.8	—	195	71	104	41,800	—		3,393 @ 900		3,084 @ 900	
											3,634 @ 1,000		3,299 @ 1,000	
C280-12	222	13,546	11.0x11.8	—	182	80	134	57,276	—		5,096 @ 900		4,640 @ 900	
											5,444 @ 1,000		4,962 @ 1,000	
C280-16	296	18,062	11.0x11.8	—	224	80	134	62,832	—		6,785 @ 900		6,169 @ 900	
											7,268 @ 1,000		6,598 @ 1,000	

\* = fuel consumption tolerance +5 percent. Reflects European standards

\*\* = high displacement engine (HD)

\*\*\* = Wide operating speed range

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MaK 6 M 20 C 6/57	3,478	7.9x11.8	—	159.4	61.4	107.4	23,589	—	—	—	1,390 @ 900
											1,550 @ 1,000

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Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
MaK 6 M 25 C 6/123		7,506	10x15.8	—	210.4	88.2	148.5	46,297	—	—	—	—	2,450 @ 720	
									—	—	—	—	2,585 @ 720	
									—	—	—	—	2,520 @ 750	
									—	—	—	—	2,690 @ 750	
									—	—	—	—	2,720 @ 750	
Mak 6 M 32 C 6/232		14,158	12.6x18.9	—	234	93.3	169.8	85,980	—	—	—	—	3,915 @ 600	
									—	—	—	—	4,080 @ 600	
MaK 8 M 20 C 8/75		4,577	7.9x11.8	—	190.9	66.7	113	30,865	—	—	—	—	1,850 @ 900	
									—	—	—	—	2,070 @ 1,000	
MaK 8 M 25 C 8/163		9,947	10x15.7	—	247.6	90.4	154.2	61,729	—	—	—	—	3,155 @ 720	
									—	—	—	—	3,455 @ 720	
									—	—	—	—	3,265 @ 750	
									—	—	—	—	3,620 @ 750	
MaK 8 M 32 C 8/309		18,856	12.6x18.9	—	281.5	85.8	172.1	105,822	—	—	—	—	5,220 @ 600	
									—	—	—	—	5,440 @ 600	
MaK 9 M 20 C 9/85		5,187	7.9x11.8	—	203.9	66.7	113	33,069	—	—	—	—	2,080 @ 900	
									—	—	—	—	2,325 @ 1,000	
MaK 9 M 25 C 9/184		11,228	10x15.7	—	210.4	90.4	154.2	65,257	—	—	—	—	3,550 @ 720	
									—	—	—	—	3,875 @ 720	
									—	—	—	—	3,670 @ 750	
									—	—	—	—	4,080 @ 750	
MaK 9 M 32 C 9/347		21,175	12.6x18.9	—	308.7	85.8	179.8	112,436	—	—	—	—	6,120 @ 600	
									—	—	—	—	5,875 @ 600	
MaK 12 M 32 C 12/ 405		24,715	12.6x16.5	—	available		on request	142,198	—	—	—	—	7,835 @ 720	
									—	—	—	—	8,160 @ 750	
MaK 16 M 32 C 16/ 541		33,014	12.6x16.5	—	339.4	114.8	191.5	179,897	—	—	—	—	10,445 @ 720	
									—	—	—	—	10,880 @ 750	

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QSK19-M	6	1,150	6.25x6.25	—	79	38	74	4,825	—	—	—	—	500 @ 1,800
									—	—	—	—	600 @ 1,800
									—	—	—	—	660 @ 1,800
									750 @ 1,800	—	—	—	—
									(Heavy Duty)	—	—	—	—
									760 @ 2,100	—	—	—	—
									(Heavy Duty)	—	—	—	—
									—	—	—	—	800 @ 2,100
									—	—	—	—	(Medium Continuous)
K38-M	12	2,300	6.25x6.25	—	84	58	82	9,300	—	—	—	—	850 @ 1,800
(Tier 2)									—	—	—	—	1,000 @ 1,800
QSK38-M	12	2,300	6.25x6.25	—	106	65	83	10,230	—	—	—	—	1,200 @ 1,800
									—	—	—	—	1,300 @ 1,800
									—	1,350 @ 1,900	—	—	—
									—	(Heavy Duty)	—	—	—
									—	1,400 @ 1,800	—	—	—
									—	(Heavy Duty)	—	—	—
QSK50-M	16	3,068	6.25x6.25	—	125	65	83	14,584	—	1,800 @ 1,800	1,600 @ 1,800	—	1,600 @ 1,800
									—	(Heavy Duty)	1,700 @ 1,800	—	1,700 @ 1,800
									—	1,800 @ 1,900	—	—	—
									—	(Heavy Duty)	—	—	—
QSK60-M	16	3,672	6.25x7.48	—	130	69	95	19,300	—	—	—	—	2,000 @ 1,600
									—	—	—	—	2,000 @ 1,800
									—	—	—	—	2,200 @ 1,800
									—	2,300 @ 1,900	—	—	—
									—	(Heavy Duty)	—	—	—
									—	—	—	—	2,500 @ 1,900
									—	—	—	—	(Medium Continuous Duty)
QSK19-DM	6	1,150	6.25x6.25	—	79	38	74	4,825	—	—	—	—	755 @ 1,800
QSK38-DM	12	2,300	6.25x6.25	—	106	65	79	10,230	—	—	—	—	1,320 @ 1,500
									—	—	—	—	1,400 @ 1,800
QSK50-DM	16	3,068	6.25x6.25	—	125	65	83	14,584	—	—	—	—	1,630 @ 1,500
									—	—	—	—	1,800 @ 1,800
QSK60-DM	16	3,672	6.25x7.48	—	130	69	95	19,300	—	—	—	—	2,095 @ 1,500
									—	—	—	—	2,547 @ 1,800

\* All engines are Tier 2 compliant.

\* QSK19-DM, QSK38-DM, and QSK50-DM listings are Prime Power

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Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm

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QSB5.9-330	6	359	4.02x4.73	w/o	40.8	32.9	34.9	1,350	330 @ 2,600	—	—	—	—
QSL9-405	6	542	4.49x5.71	w/o	46.2	33.2	42.9	2,000	—	405 @ 2,100	—	—	—
QSL9-330	6	542	4.49x5.71	w/o	46.2	33.2	42.9	2,000	—	330 @ 1,800	—	—	—
QSL9-285	6	542	4.49x5.71	w/o	46.2	33.2	42.9	2,000	—	—	—	285 @ 1,800	—
QSB5.9-425	6	359	4.02x4.72	w/o	40.8	32.9	34.8	1,350	425 @ 3,000	—	—	—	—
QSB5.9-380	6	359	4.02x4.72	w/o	40.8	32.9	34.8	1,350	380 @ 3,000	—	—	—	—
QSB5.9-355	6	359	4.02x4.72	w/o	40.8	32.9	34.8	1,350	—	355 @ 2,800	—	—	—
QSB5.9-305	6	359	4.02x4.72	w/o	40.8	32.9	34.8	1,350	—	305 @ 2,600	—	—	—
QSB5.9-230	6	359	4.02x4.72	w/o	40.8	32.9	34.8	1,350	—	230 @ 2,600	—	—	—
QSB5.9-440	6	359	4.02x4.72	w/o	40.8	32.9	34.8	1,350	440 @ 3,400	—	—	—	—
QSB5.9-440	6	359	4.02x4.72	w/o	40.8	32.9	34.8	1,350	480 @ 3,400	—	—	—	—
QSC8.3-500	6	505	4.49x5.31	w/o	46.2	33	38.7	1,975	500 @ 2,600	—	—	—	—
QSC8.3-550	6	505	4.49x5.32	w/o	46.2	33.2	42.9	1,975	550 @ 3,000	—	—	—	—
QSC8.3-600	6	505	4.49x5.32	w/o	46.2	33	38.8	1,975	600 @ 3,000	—	—	—	—
QSM11-715	6	661	4.92x5.79	w/o	53.5	42.7	39.7	2,620	715 @ 2,500	—	—	—	—
QSM11-670	6	661	4.92x5.79	w/o	53.5	42.7	39.7	2,620	670 @ 2,300	—	—	—	—
QSM11-645	6	661	4.92x5.79	w/o	53.5	42.7	39.7	2,620	—	645 @ 2,300	—	—	—
QSM11-610	6	661	4.92x5.79	w/o	53.5	42.7	39.7	2,620	—	610 @ 2,300	—	—	—
QSM11-455	6	661	4.92x5.79	w/o	52.3	42.5	40.9	2,605	—	455 @ 2,100	—	—	—
QSM11-405	6	661	4.92x5.79	w/o	52.3	42.5	40.9	2,605	—	405 @ 2,100	—	—	—
QSM11-355	6	661	4.92x5.79	w/o	52.3	42.5	40.9	2,605	—	—	—	355 @ 1,800	—
QSM11-300	6	661	4.92x5.79	w/o	52.3	42.5	40.9	2,605	—	—	—	300 @ 1,800	—

## JOHN DEERE POWER SYSTEMS

Ph: 800-JDENGINE • Fax: 319-292-5075  
 3801 W. Ridgeway Ave. • Waterloo, IA 50704  
 www.JohnDeere.com/marine

4045DFM50	4	276	4.2x5.0	w/o	36.3	29.8	35.5	961	—	85 @ 2,500	75 @ 2,400	—	—
4045DFM70	4	276	4.2x5.0	w/o	36.3	29.8	35.5	963	—	80 @ 2,500	—	—	—
4045TFM50	4	276	4.19x5.0	w/o	41.6	32.6	35.9	1,017	150 @ 2,600	135 @ 2,500	105 @ 2,300	—	—
4045TFM75	4	276	4.19x5.0	w/o	41.6	32.6	35.9	1,019	—	135 @ 2,600	107 @ 2,400	—	—
6068SFM50	6	414	4.19x5.0	w/o	54.3	32.6	34.7	1,748	300 @ 2,600	236 @ 2,400	—	—	—
6068SFM75	6	414	4.2x5.0	w/o	54.3	32.6	34.7	1,962	400 @ 2,800	236 @ 2,400	249 @ 2,400	—	—
6068AFM75	6	414	4.19x5.0	w/o	53	33.6	36.9	1,790	330 @ 2,600	300 @ 2,300	230 @ 2,300	—	—
6068TFM50	6	414	4.19x5.0	w/o	51.7	32.6	34.7	1,298	225 @ 2,600	200 @ 2,500	154 @ 2,300	—	—
6068TFM75	6	414	4.56x5.06	w/o	51.7	32.6	34.7	1,962	—	201 @ 2,600	158 @ 2,400	—	—
6081AFM75	6	497	4.6x5.10	w/o	59.7	35.7	39.9	1,881	375 @ 2,400	330 @ 2,300	235 @ 2,100	—	—
6090SFM75	6	548	4.65x5.0	w/o	67.5	38.3	38.5	2,350	500 @ 2,400	425 @ 2,300	325 @ 2,100	—	—
6125AFM75	6	766	5.0x6.50	w/o	67.6	33.5	45.3	3,025	526 @ 2,100	455 @ 2,000	341 @ 1,800	—	—
6125SFM75	6	766	5.0x6.5	w/o	70.9	40.6	48.3	3,252	610 @ 2,100	526 @ 2,000	380 @ 1,800	—	—
6135SFM75	6	824	5.2x6.5	w/o	71.6	40.2	47	3,362	750 @ 2,100	650 @ 2,100	410 @ 1,800	—	—

## ELECTRO-MOTIVE DIESEL INC.

Ph: 708-387-5853 • Fax: 708-387-5845  
 9301 W. 55th St. • La Grange, IL 60525  
 www.emdiesels.com • robert.e.spicer@emdiesels.com

ME8G7BT2	8	710	9-1/16x11	—	143	68	68	26,000	2,200 @ 900	—	—	2,000 @ 900	—
ME12G7BT2	12	710	9-1/16x12	—	181	68	68	33,000	3,300 @ 900	—	—	3,000 @ 900	—
ME16G7BT2	16	710	9-1/16x13	—	222	68	68	40,200	4,400 @ 900	—	—	4,000 @ 900	—
ME20G7BT2	20	710	9-1/16x14	—	255	68	68	46,600	5,500 @ 900	—	—	5,000 @ 900	—

\* All engines are available in EPA Tier 2 configuration at the same ratings.

## FIAT POWERTRAIN TECHNOLOGIES (FORMERLY IVECO OF NORTH AMERICA)

Ph: 630-260-4226 • Fax: 630-260-4267  
 245 E. North Ave. • Carol Stream, IL  
 www.fptpowertrain.com • colleen.phelps@fptpowertrain.com

N45 MNA M10 4L-NA	274.5	4.09x5.20	—	33	27	32.6	992	100 @ 2,800 (A1)	89 @ 2,800 (C)	84 @ 2,800 (D)	—	—	—
N67 MNA M15 6L-NA	409	4.09x5.20	—	42.2	30.7	34.2	1,168	150 @ 2,800 (A1)	125 @ 2,800 (C)	125 @ 2,800 (D)	—	—	—
N40 ENT M25 4L-TAA	237.9	4.02x4.72	—	39	31	31	1,080	250 @ 2,800 (A1)	170 @ 2,800 (C)	—	—	—	—
N67 MNT M28 6L-TAA	408.7	4.09x5.20	—	49	31	31	1,334	260 @ 2,800 (A1)	230 @ 2,800 (C)	180 @ 2,500 (D)	—	—	—
N60 ENT M40 6L-TAA	359.9	4.02x4.72	—	53.1	33.1	31	1,309	400 @ 3,000 (A1)	270 @ 3,000 (C)	—	—	—	—
C78 ENT M30 6L-TAA	475.8	4.53x4.92	—	69.7	36.8	40.7	1,984	—	330 @ 2,000	300 @ 2,000	—	—	—

## 2009 Power Guide

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
C78 ENT M50 6L-TAA		475.8	4.53x4.92	—	69.7	39.4	42.4	2,006	550 @ 2,600	(C)	400 @ 2,600	(D)	—	
									(A1)	(C)	—	—		
C13 ENT M50 6L-TAA		785.68	5.31x5.91	—	73.6	39	40.9	2,965	—	(C)	520 @ 2,000	(D)	500 @ 2,000	
									(A2)	(C)	—	—		
C13 ENT M8256L-TAA		785.68	5.31x5.91	—	79.3	41.9	40.9	3,086	825 @ 2,400	(A1)	600 @ 2,400	(C)	—	
									(A2)	(C)	—	—		

A1 - High performance crafts : Full throttle operation restricted within 10% of total use period. Cruising speed at engine RPM less than 90% of rated speed setting - Maximum usage 300 hours per year.  
A2 - Pleasure/Commercial vessels : Full throttle operation restricted within 10% of total use period. Cruising speed at engine RPM less than 90% of rated speed setting - Maximum usage 1000 hours per year.  
B - Light duty : Full throttle operation restricted within 10% of total use period. Cruising speed at engine RPM less than 90% of rated speed setting - maximum usage 1500 hours per year.  
C - Medium duty : Full throttle operation less than 25% of use period. Cruising speed at engine RPM less than 90% of rated speed setting - Maximum usage 3000 hours per year.  
D - Heavy duty : Maximum rating utilization up to 100% of use period, for unlimited hours per year.

### GE MARINE

Ph: 814-875-5048 • Fax: 814-420-1805  
2901 East Lake Road • Erie, PA 16531  
www.gettransportation.com • lori.kieklak@trans.ge.com

8V228	8	5,344	9.0x10.5	—	130	68	109	27,500	2,250 @ 1050	—	2,045 @ 1,050
									2,143 @ 1,000	—	1,948 @ 1,000
12V228	12	8,016	9.0x10.5	—	163	68	109	39,200	1,930 @ 900	—	1,753 @ 900
									3,375 @ 1,050	—	3,070 @ 1,050

## Volcanic Heaters. Ready To Take On The Country's



### Operating Components of the Hot Oil Heaters

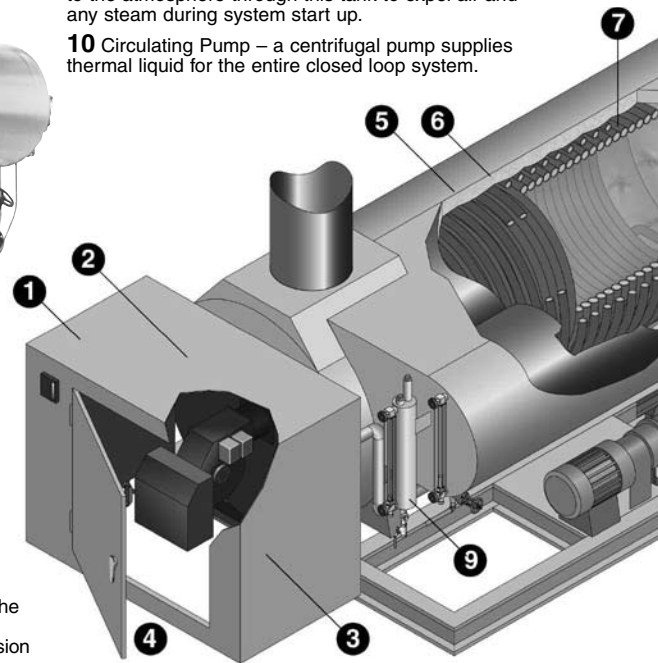
- 1 The burner and electrical control panel are protected by a waterproof housing for on deck usage. Control panel meets NEC and UL Codes.
- 2 High combustion efficiency obtained by pressure atomization of fuel oil and high pressure air. An electric pre-heater heats the residual fuel oils for proper atomization.
- 3 Electrical panel – meets all required codes and can be mounted on either side of the heater package.
- 4 Optional controls provide full modulation with low fire start and up to 6:1 turn down ratio.

Burners meet USCG requirements and ABS on request.

- 5 Extra heavy steel cylindrical shell surrounds the helical single or double wound coil made from Schedule 40/80 seamless pipe. Spacers separate the coil and shell.
- 6 The shell is covered with layers of ceramic fiber blanket insulation. A rigidizer is sprayed on the surface to protect against velocity of exiting gases.
- 7 Helical Coil – single or double wound designed by Volcanic.

- 8 Expansion Tank – as the system is brought up to operating temperature, heated thermal liquid expands into the expansion tank from the separation tank. Thermal liquids expand into the expansion tank from the separation tank. When the system is shut down and the liquid cools, liquid is withdrawn from the expansion tank to maintain a filled circulating loop.

- 9 Cold Seal Tank – the thermal liquid system is vented to the atmosphere through this tank to expel air and any steam during system start up.
- 10 Circulating Pump – a centrifugal pump supplies thermal liquid for the entire closed loop system.



**Volcanic's Hopkins Design Heaters are rugged on-deck Hot Oil Heaters ranging from 500,000 BTU/HR up to 20,000,000 BTU/HR.**

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.) L W H			Weight (lbs.)	High Output hp rpm	Medium Duty hp rpm	Continuous Duty hp rpm
									3,214 @ 1,000	—	2,922 @ 1,000
									2,893 @ 900	—	2,630 @ 900
16V228	16	10,688	9.0x10.5	—	196	68	119	48,800	4,500 @ 1,050	—	4,100 @ 1,050
									4,286 @ 1,000	—	3,896 @ 1,000
									3,857 @ 900	—	3,506 @ 900
12V250	12	—	9.8x12.6	—	164	67	112	44,500	4,020 @ 900	—	3,660 @ 900
									4,470 @ 1,000	—	4,060 @ 1,000
									4,690 @ 1,050	—	4,270 @ 1,050
16V250	16	—	9.8x12.6	—	196	67	115	52,000	5,360 @ 900	—	4,870 @ 900
									5,960 @ 1,000	—	5,420 @ 1,000
									6,250 @ 1,050	—	5,690 @ 1,050
6L250	6	—	9.8x12.6	—	200	80	132	35,000	2,210 @ 900	—	2,009 @ 900
									2,455 @ 1,000	—	2,232 @ 1,000
									2,578 @ 1,050	—	2,344 @ 1,050
8L250	8	—	9.8x12.6	—	235	80	132	42,000	2,947 @ 900	—	2,679 @ 900
									3,274 @ 1,000	—	2,976 @ 1,000
									3,438 @ 1,050	—	3,125 @ 1,050

## GUASCOR INC.

Ph: 504-461-3801 • Fax: 504-461-3806

143 Mallard St • Suite F • St. Rose, LA 70087

www.guascor-usa.com • guascor@guascor-usa.com

F180-SP	6	1,096	5.98x6.50	w	72.1	35.9	51.3	5,512	300 @ 2,000	260 @ 1,800	250 @ 1,800
F180T-SP	6	1,096	5.98x6.50	w	72.1	35.9	51.3	5,666	415 @ 1,900	400 @ 1,800	380 @ 1,800
F180TB-SP	6	1,096	5.98x6.50	w	72.1	35.9	51.3	5,688	450 @ 1,800	425 @ 1,800	400 @ 1,800
F180TA-SP	6	1,096	5.98x6.50	w	72.1	35.9	51.3	5,776	500 @ 2,000	480 @ 1,800	450 @ 1,800
F180TAB-SP	6	1,096	5.98x6.50	w	74.2	37.2	57.5	5,952	550 @ 1,800	520 @ 1,800	500 @ 1,800
SF180TA	6	1,096	5.98x6.50	w	74.4	37.2	57.5	5,952	648 @ 1,800	619 @ 1,800	589 @ 1,800
F240TA-SP	8	1,462	5.98x6.50	w	90.6	37.2	57.5	7,496	640 @ 1,800	620 @ 1,800	600 @ 1,800
F240TAB-SP	8	1,462	5.98x6.50	w	90.6	37.2	57.5	7,595	—	670 @ 1,800	650 @ 1,800

# Toughest Marine Cargo Heating Demands.

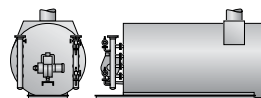
www.volcanic-heater.com

Volcanic Heaters are utilized in tank farms, barge and ship cargo heating, etc.



Small Footprint.  
Example: 8,000,000  
BTU/HR Model

157" L x 83" W x 95" H



Volcanic Heater, Inc.  
12260 Rockhill Ave. NE, Alliance, Ohio 44601  
Call 330-823-0770 Fax 330-823-0772

# VOLCANIC

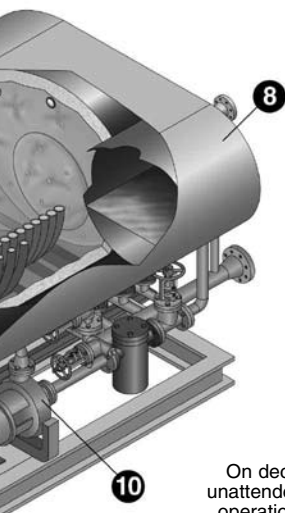
Volcanic's Alliance Heaters range from 2,400,000 to 20,000,000 BTU/HR.

The Alliance Heaters have a smaller footprint than the Hopkins style heaters. The 3-pass design offers excellent high efficiency and is available with an on-off or full modulation burner.

As with all thermal fluid (hot oil) closed loop systems, there is no rust, no corrosion, no freezing, and no high pressure as associated with steam systems.



In Houston:  
8302 Reservoir Ave., Houston, Texas 77049  
Call 281-459-2186 Fax 281-459-2856



On deck, unattended operation, temperatures up to 650°F





## 2009 Power Guide

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
SF240TA-SP	8	1,462	5.98x6.50	w	90.6	37.2	57.5	7,716	864 @ 1,800		824 @ 1,800		785 @ 1,800	
F360TA-SP	12	2,193	5.98x6.50	w	104.6	55.4	68.4	10,207	1,000 @ 2,000		960 @ 1,800		900 @ 1,800	
SF360TA	12	2,193	5.98x6.50	w	104.6	55.4	68.4	10,362	1,297 @ 2,000		1,237 @ 1,800		1,178 @ 1,800	
F480TA-SP	16	2,923	5.98x6.50	w	123.1	55.4	68.4	12,015	1,400 @ 1,800		1,350 @ 1,800		1,270 @ 1,800	
SF480TA	16	2,923	5.98x6.50	w	123.1	55.4	68.4	12,125	1,729 @ 1,800		1,650 @ 1,800		1,571 @ 1,800	

### ISOTTA FRASCHINI

Ph: 757-548-6000 • Fax: 757-548-6012

800 Principal Ct. • Ste. C • Chesapeake, VA 23320

www.isottafraschini.it

1306T2MS	6	690	5.1x5.6	—	69	33.5	40.8	2,068	600 @ 2,400		476 @ 2,300		300 @ 1,800	
1308T2MS	8	816	5.1x5.0	—	57.7	39.7	39.7	2,156	750 @ 2,700		612 @ 2,600		450 @ 2,100	
1312T2MS	12	1,225	5.1x5.0	—	71.3	40	46.3	3,190	1,200 @ 2,700		952 @ 2,600		673 @ 2,100	
1708T2	8	1,880	6.7x6.7	—	78.3	53	58	6,490	1,300 @ 2,000		1,108 @ 1,935		950 @ 1,800	
1712T2	12	2,826	6.7x6.7	—	101	60	69.7	9,526	2,285 @ 2,000		1,904 @ 1,940		1,430 @ 1,800	
1716T2	16	3,768	6.7x6.7	—	157	60	75	16,060	3,196 @ 2,100		2,618 @ 1,960		1,768 @ 1,600	

### ISUZU MOTORS AMERICA INC.

Ph: 248-497-3902 • Fax: 985-876-0575

46401 Commerce Center Dr. • Plymouth, MI 48170

www.isuzuengines.com • bob.links@isza.com

UM6HK1WMAB2	6	476	4.52x4.92	w/o	56.89	38.93	23.25	1,676	—	—	—	—	—	300 @ 2,400
UM6HK1WMAB3	6	476	4.52x4.92	w/o	56.89	38.93	23.25	1,676	—	—	350 @ 2,500	—	—	—
UM6WG1TCAA1	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,219	—	—	—	—	—	505 @ 1,800
UM6WG1TCAA2	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,220	—	—	650 @ 2,100	—	—	—
UM6WG1WMAB1	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,220	—	—	—	—	—	505 @ 1,800
UM6WG1WMAB1	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,220	—	—	600 @ 2,000	—	—	—
UM6WG1WMAB1	6	958	5.79x6.06	w/o	74.68	35.5	52.91	3,220	670 @ 2,100	—	—	—	—	—

#### EXPORT MODELS

UM4BG1TCX	4	262	3.94x4.13	w/o	50.51	23.85	37.04	1,160	—	—	200 @ 2,800	—	—	—
UM6BG1TCX	6	305	4.13x4.92	w/o	52.87	24.78	38.11	1,521	—	—	282 @ 2,700	—	—	—
UM6HE1TCX	6	439	4.33x4.92	w/o	56.89	26.9	41.10	1,598	—	—	344 @ 2,800	—	—	—
UM6SD1TCX	6	579	4.63x5.71	w/o	59.75	30.31	46.81	2,283	—	—	374 @ 2,300	—	—	—

### MAN B&W DIESEL INC.

Ph: 713-355-2777 • Fax: 713-355-4863

2901 Wilcrest Dr. • Houston, TX 77042

www.manbw.com • nsandoval@manbwhou.com

L21/31	6	—	8.27x12.20	127.36	41.93	132.05	27,800	—	—	—	—	—	—	1,729 @ 1,000
L21/31	7	—	8.27x12.20	141.34	41.93	132.05	30,400	—	—	—	—	—	—	2,016 @ 1,000
L21/31	8	—	8.27x12.20	155.31	41.93	132.05	33,200	—	—	—	—	—	—	2,304 @ 1,000
L21/31	9	—	8.27x12.20	169.29	41.93	132.05	36,900	—	—	—	—	—	—	2,593 @ 1,000
L27/38	6	—	10.63x14.96	155.98	80.12	141.54	60,000	—	—	—	—	—	—	2,733 @ 800
L27/38	7	—	10.63x14.96	173.50	80.12	141.54	67,000	—	—	—	—	—	—	3,190 @ 800
L27/38	8	—	10.63x14.96	191.02	80.12	141.54	74,000	—	—	—	—	—	—	3,645 @ 800
L28/32	6	—	11.02x12.60	170.87	68.19	125.43	38,000	—	—	—	—	—	—	1,970 @ 775
L28/32	7	—	11.02x12.60	187.01	68.19	125.43	42,000	—	—	—	—	—	—	2,300 @ 775
L28/32	8	—	11.02x12.60	205.91	68.19	125.43	47,000	—	—	—	—	—	—	2,626 @ 775
L28/32	9	—	11.02x12.60	227.56	72.6	127.64	53,000	—	—	—	—	—	—	2,955 @ 775
D0836LE402	6	731	4.3x4.9	44.5	33.7	32.6	1,609	—	—	—	355 @ 2,400	—	—	—
D2840LE	10	1,115	5.0x5.6	52.5	47.7	39.9	3,285	—	—	—	—	—	—	489 @ 1,800
D2840LE	10	1,115	5.0x5.6	52.5	47.7	39.9	3,483	—	—	—	552 @ 2,100	—	—	—
D2840LE401	10	1,115	5.0x5.6	52.5	47.7	39.9	3,483	—	—	—	641 @ 2,100	—	—	—
D2842LE	12	1,338	5.0x5.6	58.7	47.7	42.6	3,792	—	—	—	665 @ 2,100	—	—	591 @ 1,800
D2842LE401	12	1,338	5.0x5.6	58.7	47.7	42.6	3,792	—	—	—	788 @ 2,100	—	—	—
D2842LE403	12	1,338	5.0x5.6	58.7	48.4	40.9	3,946	—	—	—	—	—	—	709 @ 1,800
D2842LE405	12	1,338	5.0x5.6	58.7	48.4	40.9	3,792	—	—	—	887 @ 2,100	—	—	—
D2842LE410	12	1,338	5.0x5.6	58.7	49	40.7	4,100	—	—	—	1,084 @ 2,100	—	—	—
D2842LE412	12	1,338	5.0x5.6	58.7	48.4	40.9	3,946	—	—	—	—	—	—	788 @ 1,800
D2842LE413	12	1,338	5.0x5.6	58.7	48.4	40.9	3,792	—	—	—	984 @ 2,100	—	—	—
D2848LE401	8	892	5.0x5.6	46.2	47.9	41.3	2,976	—	—	—	532 @ 2,100	—	—	—
D2848LE405	8	892	5.0x5.6	46	48.4	42.2	3,064	—	—	—	640 @ 2,100	—	—	—
D2866LE403	6	731	5.0x6.2	51.9	34.2	39.3	2,557	—	—	—	493 @ 2,100	—	—	—
D2876LE402	6	781	5.0x6.2	52	34.2	42.1	2,844	—	—	—	552 @ 2,100	—	—	—
D2866LXE40	6	731	5.0x6.2	57	35.3	45.2	2,248	—	—	—	—	—	—	255 @ 1,800
								—	—	—	—	—	—	335 @ 1,800
D2866LXE47	6	731	5.0x6.2	57	35.3	45.2	2,248	—	—	—	—	—	—	296 @ 1,800
R6-800CRM	6	781	5.0x6.5	52	38.5	34.7	2,860	788 @ 2,300	—	—	—	—	—	—
V10-1100CRM	10	1,115	5.0x5.6	52.5	46.6	48.4	3,850	1,084 @ 2,300	—	—	—	—	—	—
V12-1360CRM	12	1,338	5.0x5.6	58.7	46.7	48.4	4,400	1,340 @ 2,300	—	—	—	—	—	—
V12-1550CRM	12	1,338	5.0x5.6	58.7	50	54.3	4,752	1,528 @ 2,300	—	—	—	—	—	—

# 2009 Power Guide

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm

V8-900CRM	8	892	5.0x5.6	46.3	44.1	48.4	3,300	887 @ 2,300	—	—	—	—
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## MAN ENGINES & COMPONENTS INC.

Ph: 800-MAN-2842 • Fax: 954-946-9098

595 S.W. 13th Terrace • Pompano Beach, FL 33069-3520

www.man-mec.com

D2866LXE40	6	731	5.0x6.2	—	57	35.3	45.2	2,248	340 @ 1,800 (Heavy Duty)	400 @ 2,100	—	—
									258 @ 1,800 (Heavy Duty)	379 @ 1,800	—	—
D2866LE403	6	731	5.0x6.2	—	51.9	34.2	39.3	2,552	—	493 @ 2,100	—	—
D2876LE402	6	781	5.0x6.5	—	52	34.2	42.1	2,844	—	560 @ 2,100	—	—
D2876LE403	6	781	5.0x6.5	—	52	34.2	42.1	2,844	450 @ 1,800 (Heavy Duty)	450 @ 1,800	—	—
D2876LE406	6	781	5.0x6.5	—	52	34.2	42.1	2,844	381 @ 1,800 (Heavy Duty)	—	—	—
D2876LE407	6	781	5.0x6.5	—	52	34.2	42.1	2,844	490 @ 1,800 (Heavy Duty)	490 @ 1,800	—	—
R6-730	6	419	4.3x4.9	—	64.1	32.7	37.2	1,980	730 @ 2,300 (Light Duty)	—	—	—
R6-800	6	781	5.0x6.5	—	52	38.5	34.7	2,860	800 @ 2,300 (Light Duty)	—	—	—
V8-750	8	892	5.0x6.5	—	46.3	44.1	48.4	3,300	—	750 @ 2,100	—	—
V8-900	8	892	5.0x5.6	—	46.3	44.1	48.4	3,300	900 @ 2,300 (Light Duty)	—	—	—
V10-900	10	1,115	5.0x5.6	—	52.5	46.6	48.4	3,850	—	900 @ 2,100	—	—
V10-1100	10	1,115	5.0x5.6	—	52.5	46.6	48.4	3,850	1,100 @ 2,300 (Light Duty)	—	—	—
D2842LE	12	1,338	5.0x5.6	—	58.7	47.7	42.6	3,792	600 @ 1,800 (Heavy Duty)	676 @ 2,100	—	—
D2842LE401	12	1,338	5.0x5.6	—	58.7	47.7	42.6	3,792	—	800 @ 2,100	—	—
D2842LE403	12	1,338	5.0x5.6	—	58.7	48.4	40.9	3,946	720 @ 1,800 (Heavy Duty)	720 @ 1,800	—	—
D2842LE405	12	1,338	5.0x5.6	—	58.7	48.4	40.9	3,792	900 @ 2,100 (Heavy Duty)	900 @ 2,100	—	—
D2842LE413	12	1,338	5.0x5.6	—	58.7	48.4	40.9	3,792	—	1,000 @ 2,100	—	—
D2842LE410	12	1,338	5.0x5.6	—	58.7	49	40.7	4,100	—	1,100 @ 2,100	—	—
D2842LE412	12	1,338	5.0x5.6	—	58.7	48.4	40.9	3,946	800 @ 1,800 (Heavy Duty)	800 @ 1,800	—	—
D2842LE419	12	1,338	5.0x5.6	—	58.7	48.4	40.9	3,946	—	598 @ 1,800	—	—
V12-1100	12	1,338	5.0x5.6	—	58.7	46.7	48.4	4,400	—	1,100 @ 2,100	—	—
V12-1224	12	1,338	5.0x5.6	—	58.7	46.7	48.4	4,400	1,224 @ 2,300 (Light Duty)	—	—	—
V12-1360	12	1,338	5.0x5.6	—	58.7	46.7	48.4	4,400	1,360 @ 2,300 (Light Duty)	—	—	—
V12-1550	12	1,338	5.0x5.6	—	58.7	50	54.3	4,752	1,550 @ 2,300 (Light Duty)	—	—	—
V12-1800	12	1,338	5.0x5.6	—	58.7	50	54.3	4,752	1,800 @ 2,300 (Light Duty)	—	—	—

\* All engines listed are turbocharged and intercooled.

\* All Continuous (Light Duty) engines are electronically controlled. All others are mechanical.

\* All Medium and High Output (Heavy Duty) engines are available outside the U.S. only.

## MITSUBISHI ENGINE NORTH AMERICA

Ph: 630-268-0750 • Fax: 630-268-9293

1250 Greenbriar Drive • Suite 1250 • Addison, IL 60101

www.mitsubishi-engine.com

S6A3-Y2MPTK	6	1,133	5.91x6.88	—	64.4	36	54	4,190	*657 @ 1,960	597 @ 1,900	543 @ 1,840	—
S6B3-Y2MPTA	6	891	5.31x6.69	—	60.59	37	52.36	2,889	—	469 @ 2,065	429 @ 2,000	—
S6R-Y1MPTA	6	1,496	6.69x7.09	—	71	44	63.5	6,130	*764 @ 1,800	650 @ 1,650	590 @ 1,600	—
S6R-Y1MPTK	6	1,496	6.69x7.09	—	71	44	63.5	6,240	*811 @ 1,800	697 @ 1,400	630 @ 1,600	—
S6R2-Y1MPTK	6	1,828	6.69x8.66	—	71.3	44	66.7	6,527	*818 @ 1,500	710 @ 1,400	643 @ 1,350	—
S6R2-Y1MPTA	6	1,828	6.69x8.66	—	71.3	44	66.7	6,417	*757 @ 1,500	657 @ 1,400	597 @ 1,350	—
S6R-Y2MPTK	6	1,828	6.69x8.66	—	71.3	44	66.7	6,527	630 @ 1,600	630 @ 1,600	630 @ 1,600	—
S12A2-Y1MPTA	12	2,071	5.91x6.30	—	78.8	56.7	63.7	7,453	*1,040 @ 2,100	940 @ 2,000	850 @ 1,940	—
S12A2-Y1MPTK	12	2,071	5.91x6.30	—	90	56.5	63.7	8,203	*1,150 @ 2,100	1,040 @ 2,000	940 @ 1,940	—
S12A2-Y2MPTK	12	2,071	5.91x6.30	—	90	56.5	63.7	8,203	940 @ 1,940	940 @ 1,940	940 @ 1,940	—
S12R-Y1MPTA	12	2,992	6.69x7.09	—	93.5	59.5	68.6	11,532	*1,528 @ 1,800	1,300 @ 1,650	1,180 @ 1,600	—
S12R-Y1MPTK	12	2,992	6.69x7.09	—	93.5	59.5	68.6	11,731	*1,622 @ 1,800	1,394 @ 1,650	1,260 @ 1,600	—
S12R-Y2MPTK	12	2,992	6.69x7.09	—	93.5	59.5	68.6	11,731	1,260 @ 1,600	1,260 @ 1,600	1,260 @ 1,600	—
S16R-Y1MPTA	16	3,989	6.69x7.09	—	115	59	77	14,685	*2,038 @ 1,800	1,729 @ 1,650	1,568 @ 1,600	—
S16R-Y1MPTK	16	3,989	6.69x7.09	—	115	59	77	14,950	*2,158 @ 1,800	1,850 @ 1,650	1,676 @ 1,600	—

\* Light duty

# 2009 Power Guide

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm

## MTU

Ph: 313-592-5000 • Fax: 313-592-5137

13400 Outer Dr. W • Detroit, MI 48239

www.mtudetroitdiesel.com • jeff.sherman@mtu-online.com

Series 60	6	855	5.24x6.61	w	80	39	45	4,535	—	—	—	—	350 @ 1,800
Series 60	6	855	5.24x6.61	w	80	39	45	4,535	—	—	—	—	375 @ 1,800
Series 60	6	855	5.24x6.61	w	80	39	45	4,535	—	—	—	—	400 @ 1,800
Series 60	6	855	5.24x6.61	w	80	39	45	4,535	—	—	—	—	425 @ 1,800
Series 60	6	855	5.24x6.61	w	80	39	45	4,535	—	—	—	—	450 @ 1,800
Series 60	6	855	5.24x6.61	w	80	39	45	4,055	—	—	—	—	475 @ 1,800
S60	6	855	5.24x6.61	w	80	39	45	4,055	475 @ 2,100	—	—	—	—
S60	6	855	5.24x6.61	w	80	39	45	4,055	500 @ 1,800	—	—	—	—
S60	6	855	5.24x6.61	w	80	39	45	4,055	535 @ 2,100	—	—	—	—
S60	6	—	—	w	80	39	45	4,235	600 @ 2,100	—	—	—	—
S60	6	—	—	w	80	39	45	4,055	625 @ 2,300	—	—	—	—
S60	6	—	—	w	80	39	45	4,055	740 @ 2,300	—	—	—	—
S60	6	—	—	w	80	39	45	4,055	800 @ 2,300	—	—	—	—
S60	6	—	—	w	80	39	45	4,055	825 @ 2,300	—	—	—	—
8V2000 M72	8	1,093	5.4x6.1	w	81.9	44.5	47.2	5,710	965 @ 2,250	—	—	—	—
8V2000 M92	8	1,093	5.4x6.1	w	81.9	44.5	47.2	5,710	1,085 @ 2,450	—	—	—	—
8V2000 M93	8	1,093	5.4x6.1	w	81.9	44.5	47.2	5,710	1,200 @ 2,450	—	—	—	—
10V2000 M92	10	1,361	5.4x6.1	w	93.1	44.5	48.4	5,952	1,360 @ 2,450	—	—	—	—
10V2000 M93	10	1,361	5.4x6.1	w	93.1	44.5	48.4	5,952	1,500 @ 2,450	—	—	—	—
10V2000 M72	10	1,361	5.4x6.1	w	93.1	44.5	48.4	5,952	—	1,205 @ 2,250	—	—	—
12V2000 CR M70	12	—	—	w	105.7	51	54.5	8,113	—	1,450 @ 2,250	—	—	—
12V2000 CR M92	12	—	—	w	101.6	51	54.5	7,760	1,635 @ 2,450	—	—	—	—
12V2000 CR M93	12	—	—	w	93.7	51	53.1	7,760	1,800 @ 2,450	—	—	—	—
12V2000 M60	12	—	—	w	106.1	55.1	50.8	7,937	—	—	—	—	805 @ 1,800
12V2000 M70	12	1,458	5.12x5.91	w	102.4	55.1	50.8	7,672	—	1,055 @ 2,100	—	—	—
12V2000 M60	12	—	—	w	106.1	55.1	50.8	8,355	—	—	—	—	805 @ 1,800
12V2000 M90	12	1,458	5.12x5.91	w	102.4	55.1	50.8	7,672	1,350 @ 2,300	—	—	—	—
12V2000 M91	12	1,458	5.12x5.91	w	102.4	55.1	50.8	7,672	1,500 @ 2,350	—	—	—	—
16V2000 M70	16	1,944	5.12x5.91	w	123.2	55.1	50.8	9,965	—	1,410 @ 2,100	—	—	—
16V2000 M90	16	1,944	5.12x5.91	w	121.1	55.1	50.8	9,480	1,800 @ 2,300	—	—	—	—
16V2000CRM72	16	—	—	w	123.2	51	54.7	10,141	1,930 @ 2,250	—	—	—	—
16V2000CRM92	16	—	—	w	122.2	51	54.7	9,456	2,180 @ 2,450	—	—	—	—
16V2000CRM93	16	—	—	w	122.1	51	54.7	9,456	2,400 @ 2,450	—	—	—	—
16V2000 M91	16	1,944	5.12x5.91	w	121.1	55.1	50.8	9,480	2,000 @ 2,350	—	—	—	—
16V2000 M60	16	—	—	w	131.9	55.1	50.8	9,480	—	—	—	—	1,070 @ 1,800
8V4000 M60	8	1,983	6.50x7.50	w	138	55.1	69.1	14,109	—	—	—	—	1,180 @ 1,800
8V4000 M60R	8	1,983	6.50x7.50	w	138.4	55.1	69.1	13,117	—	—	—	—	940 @ 1,600
8V4000 M60	8	—	—	w	138	55.1	69.1	14,109	—	—	—	—	1,140 @ 1,800
8V4000 M70	8	1,983	6.50x7.50	w	120.7	55.1	69.1	12,346	1,555 @ 2,000	—	—	—	—
8-4000 M63	8	—	—	w	—	63.4	80.9	13,030	—	—	—	—	1,340 @ 1,800
8-4000 M53	8	—	—	w	—	63.4	80.9	13,030	—	—	—	—	1,235 @ 1,800
8-4000 M53R	8	—	—	w	—	63.4	80.9	13,030	—	—	—	—	1,000 @ 1,600
12V4000 M60R	12	2,972	6.50x7.50	w	161	60	83	18,045	—	—	—	—	1,410 @ 1,600
12V4000 M60	12	2,972	6.50x7.50	w	167.5	59.84	72.2	19,709	—	—	—	—	1,770 @ 1,800
12V4000 M61R	12	—	—	w	167.5	59.8	72.2	19,709	—	—	—	—	1,530 @ 1,600
12V4000 M70	12	2,972	6.50x7.50	w	142.5	59.84	72.2	17,317	2,335 @ 2,000	—	—	—	—
12V4000 M70	12	2,972	6.50x7.50	w	142.5	59.84	72.2	17,317	2,250 @ 2,000	—	—	—	—
12V4000 M71	12	2,972	6.50x7.50	w	142.5	59.84	72.2	17,317	2,480 @ 2,000	—	—	—	—
12V4000 M90	12	2,972	6.50x7.50	w	142.5	59.84	72.2	17,317	2,735 @ 2,100	—	—	—	—
12V4000 M93L	12	—	—	w	148	57.7	81.5	20,988	3,460 @ 2,100	—	—	—	—
									(Maximum)				
12V4000 M93	12	—	—	w	148	57.7	81.5	20,988	3,140 @ 2,100	—	—	—	—
									(Maximum)				
12V4000 M73L	12	—	—	w	148	57.7	84.6	20,371	—	—	—	—	2,895 @ 2,050
													(Maximum)
													(Maximum)
12V4000 M73	12	—	—	w	148	57.7	81.5	20,371	—	—	—	—	2,575 @ 1,970
													(Maximum)
													(Maximum)
12V4000 M63	12	—	—	w	160.2	61.8	93.3	20,880	—	—	—	—	2,010 @ 1,800
12V4000 M53	12	—	—	w	157.9	61.8	93.3	20,880	—	—	—	—	1,850 @ 1,800
12V4000 M53R	12	—	—	w	157.9	61.8	93.3	20,880	—	—	—	—	1,530 @ 1,140
16V4000 M93L	16	—	—	w	182.9	57.7	96.4	24,570	4,615 @ 2,100	—	—	—	—
									(Maximum)				
16V4000 M93	16	—	—	w	182.1	57.7	81.5	23,644	4,185 @ 2,100	—	—	—	—
									(Maximum)				
16V4000 M73L	16	—	—	w	182.1	57.7	81.5	23,902	—	—	—	—	3,860 @ 2,050
													(Maximum)
													(Maximum)
16V4000 M73	16	—	—	w	182.1	57.7	81.5	22,972	—	—	—	—	3,435 @ 1,970
													(Maximum)
													(Maximum)
16V4000 M63L	16	—	—	w	179.5	61.8	93.3	26,520	—	—	—	—	3,000 @ 1,800
16V4000 M63	16	—	—	w	179.5	61.8	93.3	26,520	—	—	—	—	2,680 @ 1,800
16V4000 M53	16	—	—	w	179.5	61.8	93.3	26,520	—	—	—	—	2,470 @ 1,800

# 2009 Power Guide

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
16V4000 M53R 16	—	—	—	w	179.5	61.8	93.3	26,520	—	—	—	—	2,040 @ 1,600	
16V4000 M60 16	3,967	6.50x7.50	w	188.4	59.8	72.2	23,225	—	—	—	—	2,360 @ 1,800		
16V4000 M60R 16	3,967	6.50x7.50	w	188.4	59.8	72.2	23,225	—	—	—	—	1,875 @ 1,600		
16V4000 M61 16	3,966	6.50x7.50	w	192.3	59.8	72.2	23,225	—	—	—	—	2,680 @ 1,800		
16V4000 M61R 16	—	—	w	188.4	59.8	72.2	23,225	—	—	—	—	2,040 @ 1,600		
16V4000 M70 16	3,966	6.50x7.50	w	178.1	59.8	72.2	20,304	3,110 @ 2,000	—	—	—	—		
16V4000 M70 16	—	—	w	178.1	59.8	72.2	20,304	3,000 @ 2,000	—	—	—	—		
16V4000 M71 16	3,966	6.50x7.50	w	178.1	59.8	74.4	20,304	3,305 @ 2,000	—	—	—	—		
16V4000 M90 16	3,966	6.50x7.50	w	178.1	59.8	74.4	20,394	3,650 @ 2,100	—	—	—	—		
20V4000 M93L 20	—	—	w	225.2	58.3	81.5	32,375	5,765 @ 2,100	—	—	—	—		
20V4000 M93 20	—	—	w	225.2	58.3	81.5	32,375	5,230 @ 2,100	—	—	—	—		
20V4000 M73L 20	—	—	w	225.2	58.3	81.5	32,375	4,830 @ 2,050	—	—	—	—		
20V4000 M73 20	—	—	w	225.2	58.3	81.5	32,375	4,290 @ 1,970	—	—	—	—		

### Rating Definitions:

- Continuous 1A (All Series): Engines for vessels with unrestricted continuous operation. Average load factor: 70-90%. Typical operating time: unrestricted. Typical applications: work boats, ferries, government vessels, tugs, barges and large sailing yachts
- Maximum Continuous 1B (All Series): Engines for fast vessels with high load factors. Average load factor: 60-80%. Typical operating time: 5,000 hours/year
- Typical applications: ferries, monohulls, hydrofoils, catamarans and surface effect ships
- Intermittent-Maximum (Series 60): Engines for fast vessels with midrange load factors. Average load factor < 60%. Typical operation time 3,000 hours/year
- Typical applications: government vessels, season fishing vessels
- Maximum 1DS: (All Series): Engines for fast vessels with midrange load factors. Average load factor < 60%. Typical operation time 3,000 hours/year
- Typical applications: sportfish, motor yachts, patrol boats and special military applications.
- Marine Auxiliary Continuous Power 3A: This type of rating applies to heavy duty generator sets when use as an onboard system power source. The engine is expected to be operated with constant and/or dedicated loads with load factors up to 100% of the continuous power rating. Under these conditions, the engine may be operated for an unlimited number of hours per year.
- Marine Auxiliary Prime Power 3B: This type of rating applies to heavy duty generator sets when use as an onboard system power source. It is subject to normal varying load conditions, with an intermittent overload capability of 10% (up to the standby power rating), for no more than 1 hour in every 12 hours operation. When averaged over a 24 hour period, the average load factor must not exceed 70% of the prime power rating. Under these conditions the generator set may be operated for an unlimited number of hours per year.
- Marine Auxiliary Limited Running Time 3C: This type of rating applies to heavy duty diesel generator sets when used as an onboard system power source which will deliver rated power for up to 700 hours per year. Normal varying load factors and/or constant dedicated loads must not exceed 75% of the limited running time power rating.
- Marine Auxiliary Standby Power 3D: This type of rating applies to heavy duty diesel generator sets when used in the event of an onboard system power failure. The generator set may be operated at the rated power for the duration of the utility outage. The generator set will operate with an overage load factor of less than 70 percent of the rated power and will operate for less than 5 percent of the time over the course of a year.
- Application Rating Definitions are approximate and consistent for comparative purposes only. Consult Mfg. Specific rating definitions prior to application.

\* All Series 60 engines are Tier 2 compliant.

\* 8V-2000 CR, 10V-2000 CR, 12V-2000 M91, 12V-2000 CR, 16V-2000 M91 16V-2000 M70, 16V-2000 CR, 8V-4000 M61R, 12V-4000 M70, 12V4000 M60, 16V-4000 M70, 16V-4000 M61 are all Tier 2 compliant.

\* 12V-2000 M90, 12V-2000 M70, 12V-2000 M60, 16V-2000 M90, 16V-2000 M60, 8V-4000 M70, 8V-4000 M60, 8V-4000 M60R, 12V-4000 M90, 12V-4000 M71, 12V-4000 M70, 12V-4000 M60R, 16V-4000 M71, 16V-4000 M90, 16V-4000 M70, 16V-4000 M60R are all Tier 1/IMO compliant.

## NORTHERN LIGHTS/LUGGER

Ph: 206-789-3880 • Fax: 206-782-5455

4420 14th Ave. N.W. • Seattle, WA 98107

www.northern-lights.com • info@northern-lights.com

L844D	4	121	3.3x3.5	w/o	26.9	19.8	31.1	574	40 @ 2,800	30 @ 2,400	—	—
L944D	4	203	3.7x4.72	w/o	40.1	24.9	29	650	65 @ 2,400	—	—	—
L1064D	4	276	4.19x5.0	w/o	43.3	27.7	35.9	1,070	—	—	—	67 @ 2,300
L1064TI	4	276	—	w/o	—	—	—	1,160	—	—	—	100 @ 2,500
L1064A	4	276	4.19x5.0	w/o	45	29.4	35.9	1,250	140 @ 2,500	125 @ 2,500	115 @ 2,300	—
L1066T	6	414	4.19x5.0	w/o	54.9	27.3	36.2	1,960	170 @ 2,400	165 @ 2,200	135 @ 2,200	—
L1066A	6	414	4.19x5.0	w/o	56.6	29.6	37.3	2,155	250 @ 2,400	200 @ 2,200	185 @ 2,400	—
L1066H	6	414	4.19x5.0	w/o	55.6	29	37.3	2,162	275 @ 2,500	250 @ 2,500	—	—
L1276A2	6	766	5.0x6.5	w/o	69.9	41.3	46	3,093	525 @ 2,100	425 @ 2,100	340 @ 2,100	—
L6125H	6	674	4.92x5.91	w/o	69	33	45	2,867	470 @ 2,300	440 @ 2,200	350 @ 1,800	—

## PENINSULAR ENGINES

Ph: 616-530-1298 • Fax: 616- 530-2567

3056A Dixie S.W. • Grandville, MI 49418

www.peninsulardiesel.com • pen-eng@voyager.net; sales@peninsulardiesel.com

400NA-160	8V	400	4.06x3.82	—	37	29.4	30.6	1,020	—	—	—	220 @ 3,600
400T-220	8V	400	4.06x3.82	—	37	29.4	30.6	1,020	—	—	—	220 @ 3,600
400TMR-270	8V	400	4.06x3.82	—	37	29.25	30.62	1,020	—	—	—	270 @ 3,600
400TA-310	8V	400	4.06x3.82	—	37	29.25	30.62	1,020	—	—	—	310 @ 3,600
400TAS-310	8V	400	4.06x3.82	—	37	29.25	30.62	1,020	—	—	—	310 @ 3,600
400TAI-340	8V	400	4.06x3.82	—	46.69	29.25	30.62	1,020	—	—	—	340 @ 3,600

## SCANIA USA INC.

Ph: 210-403-0007 • Fax: 210-403-0211

## 2009 Power Guide

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm

121 Interpark Blvd. • Suite 601 • San Antonio, Texas 78216  
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DI 12 59	6	—	5.0x6.06	w/o	53.5	34.4	40.9	2,535	—	—	—	—	300 @ 1,800
									—	—	—	—	350 @ 1,800
									—	—	—	—	400 @ 1,800
									—	—	—	—	450 @ 1,800
DI 12 65	6	—	5.0x6.06	w/o	53.5	34.3	40.9	2,535	—	320 @ 2,100	—	—	—
									—	370 @ 2,100	—	—	—
									—	430 @ 2,100	—	—	—
DI 12 60	6	—	5.0x6.06	w/o	53.5	34.3	40.9	2,535	—	500 @ 2,100	—	—	—
									—	525 @ 2,100	—	—	—
									—	600 @ 2,100	—	—	—
DI 12 66	6	—	5.0x6.06	w/o	53.5	34.3	40.9	2,535	550 @ 2,200	—	—	—	—
									650 @ 2,200	—	—	—	—
DI 12 69	6	—	5.0x6.06	w/o	53.5	34.3	40.9	2,535	550 @ 2,300	—	—	—	—
									625 @ 2,300	—	—	—	—
									700 @ 2,300	—	—	—	—
DI 16 42	8	—	5.0x6.06	w/o	48.7	46.2	42.8	3,417	800 @ 2,200	575 @ 2,100	—	—	525 @ 1,800
									—	—	—	—	600 @ 1,800
									—	650 @ 2,100	—	—	—
									—	700 @ 2,100	—	—	—
									—	750 @ 2,100	—	—	—

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84E	6	513	—	—	50	26	40	1,715	—	—	—	—	410 @ 2,100
645M	6	513	—	—	50	26	39	1,675	410 @ 2,100	350 @ 2,100	—	—	280 @ 2,000
66	6	403	—	—	46	26	39	1,460	—	—	—	—	260 @ 2,200
44	4	299	—	—	35.5	25	35	1,140	—	—	—	—	180 @ 2,200

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D4-225/DP	4	226	4.05x4.33	—	30.9	29.6	30.7	1,420	225 @ 3,500	—	—	—	—
D6-280/DP	6	336	4.05x4.33	—	40.1	32.2	30.7	1,653	280 @ 3,500	—	—	—	—
D6-330/DP	6	336	4.05x4.33	—	40.1	32.2	30.7	1,653	330 @ 3,500	—	—	—	—
D4-225	4	226	4.05x4.33	—	30.9	29.6	30.7	1,142	225 @ 3,500	—	—	—	—
D6-280	6	336	4.05x4.33	—	40.1	32.2	30.7	1,346	280 @ 3,500	—	—	—	—
D6-330	6	336	4.05x4.33	—	40.1	32.2	30.7	1,346	330 @ 3,500	—	—	—	—
D9 MH	6	571	4.72x5.43	—	53.7	38.8	44.6	2,370	—	425 @ 2,200	—	—	300 @ 1,800
									—	—	—	—	355 @ 1,800
									—	—	—	—	355 @ 2,200
D9 MC	6	571	4.72x5.43	—	51.5	33.8	39.7	2,370	425 @ 2,200	—	—	—	—
									500 @ 2,600	—	—	—	—
D12 MH	6	740	5.1x5.9	—	55.5	40.5	50.5	3,086	—	550 @ 1,900	—	—	400 @ 1,800
									—	—	—	—	450 @ 1,800
D16MH	6	984	5.67x6.5	—	60.9	44	51.3	3,858	—	750 @ 1,900	—	—	650 @ 1,800
D4-225 SOLAS	4	226	4.05x4.33	—	41.6	29.6	30.7	1,063	225 @ 3,500	—	—	—	—
D4-225/DP SOLAS	4	226	4.05x4.33	—	41.6	29.6	30.7	1,430	225 @ 3,500	—	—	—	—
D6-330 SOLAS	6	336	4.05x4.33	—	50.8	32.2	30.7	1,279	330 @ 3,500	—	—	—	—
D6-330/DP SOLAS	6	336	4.05x4.33	—	50.8	32.2	30.7	1,663	330 @ 3,500	—	—	—	—
D5A TA	4	290	4.25x5.12	—	43.5	30	40	1,157	—	140 @ 1,900	—	—	121 @ 1,900
									—	160 @ 2,300	—	—	139 @ 2,300
D7A TA	6	436	4.25x5.12	—	55.3	33.5	40	1,521	—	208 @ 1,900	—	—	177 @ 1,900
									—	237 @ 2,300	—	—	201 @ 2,300
D7C TA	6	436	4.25x5.12	—	55.3	33.5	40	1,521	—	230 @ 1,900	—	—	199 @ 1,900
									—	265 @ 2,300	—	—	226 @ 2,300
									—	248 @ 2,100	—	—	—

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20 4L20	4	2,147	7.9x11.0	—	99	58	82	15,873	—	—	—	—	1,085 @ 1,000
20 6L20	6	3,221	7.9x11.0	—	122	62	78	20,502	—	—	—	—	1,630 @ 1,000
20 8L20	8	4,294	7.9x11.0	—	150	67	82	24,251	—	—	—	—	2,175 @ 1,000

Model	Cyl.	Displacement (cu. in.)	Bore x Stroke (in.)	Gear (w); (w/o)	Dimensions (in.)			Weight (lbs.)	High Output		Medium Duty		Continuous Duty	
					L	W	H		hp	rpm	hp	rpm	hp	rpm
20 9L20	9	4,831	7.9x11.0	—	160	67	82	25,574	—	—	—	—	2,450 @ 1,000	
26 12V26	12	12,441	10.2x12.6	—	206	97	129	64,288	—	—	—	—	5,545 @ 1,000	
26 6L26	6	6,220	10.2x12.6	—	166	71	111	37,980	—	—	—	—	2,775 @ 1,000	
26 8L26	8	8,294	10.2x12.6	—	207	78	112	48,384	—	—	—	—	3,700 @ 1,000	
26 9L26	9	9,330	10.2x12.6	—	222	78	112	52,192	—	—	—	—	4,160 @ 1,000	
26 16V26	16	16,587	10.2x12.6	—	245	98	134	80,864	—	—	—	—	7,395 @ 1,000	
32 6L32	6	11,778	12.6x15.7	—	201	87	146	79,520	—	—	—	—	4,080 @ 750	
32 7L32	7	13,741	12.6x15.7	—	220	87	160	91,840	—	—	—	—	4,760 @ 750	
32 8L32	8	15,704	12.6x15.7	—	252	87	156	—	—	—	—	—	5,440 @ 750	
32 9L32	9	17,667	12.6x15.7	—	271	87	156	—	—	—	—	—	6,120 @ 750	
38 6L38	6	19,723	15.0x15.7	—	258	87	156	—	—	—	—	—	5,915 @ 600	
32 12V32	12	23,556	12.6x15.7	—	252	113	169	—	—	—	—	—	8,160 @ 750	
32 16V32	16	31,408	12.6x15.7	—	309	130	175	—	—	—	—	—	10,870 @ 750	
32 18V32	18	35,334	12.6x15.7	—	331	130	175	—	—	—	—	—	12,240 @ 750	
38 6L38	6	19,723	15.0x18.7	—	258	87	156	—	—	—	—	—	5,915 @ 600	
38 8L38	8	26,297	15.0x18.7	—	327	96	154	—	—	—	—	—	7,885 @ 600	
38 9L38	9	29,585	15.0x18.7	—	353	96	154	—	—	—	—	—	8,870 @ 600	
38 12V38	12	39,446	15.0x18.7	—	319	119	173	—	—	—	—	—	11,830 @ 600	
38 16V38	16	52,595	15.0x18.7	—	377	119	180	—	—	—	—	—	15,770 @ 600	
46 6L46	6	35,290	18.1x22.8	—	327	114	189	—	—	—	—	—	9,420 @ 514	
46 8L46	8	47,054	18.1x22.8	—	393	126	199	—	—	—	—	—	12,560 @ 514	
46 9L46	9	52,936	18.1x22.8	—	425	130	199	—	—	—	—	—	14,135 @ 514	
46 12V46	12	70,581	18.1x22.8	—	401	151	203	—	—	—	—	—	18,845 @ 514	
46 16V46	16	94,108	18.1x22.8	—	496	179	203	—	—	—	—	—	25,125 @ 514	
64 6L64	6	106,002	25.2x35.4	—	412	164	246	—	—	—	—	—	17,540 @ 333	
64 7L64	7	123,669	25.2x35.4	—	455	164	250	—	—	—	—	—	20,460 @ 333	
64 8L64	8	141,336	25.2x35.4	—	498	164	250	—	—	—	—	—	23,390 @ 333	

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20B TWO	2	39	2.99x2.76	w	27.7	20	20.3	225	18 @ 3,600	—	—	—	—
30B THREE	3	58	2.99x2.76	w	29.5	20	20.3	274	27 @ 3,600	—	—	—	—
35D THREE	3	80	3.07x3.62	w	30.6	21.3	22.6	386	31 @ 3,000	—	—	—	—
44B FOUR	4	107	3.07x3.62	w	34.1	21.3	23	416	44 @ 3,000	—	—	—	—
55C FOUR	4	133	3.35x3.78	w	35	21.3	24	448	55 @ 3,000	—	—	—	—
65A FOUR	4	203	3.86x4.33	w	40.9	25.2	27.9	730	68 @ 2,600	—	—	—	—
120-T4A	4	264	4.13x4.92	—	47.2	28.3	32	987	126 @ 2,400	—	—	—	—
170-T6A	6	396	4.13x4.92	—	57.5	28	32.5	1,245	173 @ 2,200	—	—	—	—

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