



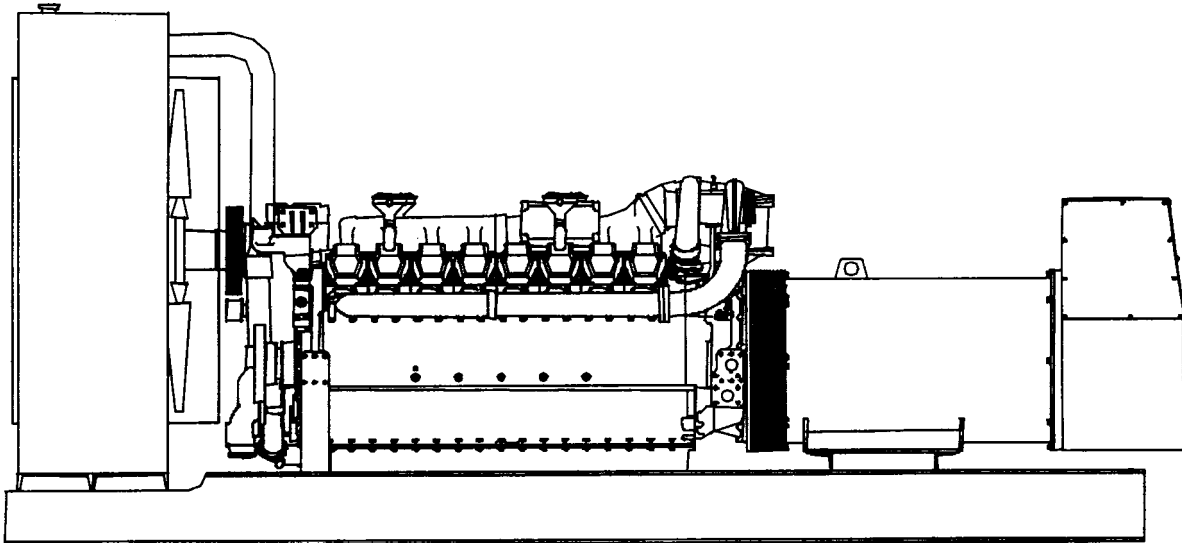
ALTURDYNE



DETROIT
DIESEL

Diesel Generator Sets
Liquid Cooled, Four Cycle

200 to 2,000kW / 60 Hz
50 hz (.83) x 60 Hz Ratings



DESCRIPTION: Alturdyne Basic Model ARDD-XXX(kW rating)-060-H* - 2001 RATINGS

Package Configuration

- Basic package consists of diesel engine coupled to generator and assembled on structural steel skid with unit mounted radiator and pusher fan, control panel and accessories. Electronic governor is standard along with flex fuel lines and fuel/water separator and base isolation pads.
- The Alturdyne designed/manufactured engine and generator control panel is unit mounted and contains ammeter, voltmeter, AM/VM select switch, frequency meter, voltage adjust rheostat, oil pressure gauge, water temperature gauge, three-position mode switch, panel lights, cyclor crank with safeties for overspeed, low oil pressure, high water temperature and overcrank. Customer connections and remote alarms are located on isolated terminal strip.
- Generator leads terminate in oversize box or at back of circuit breaker located in adjacent NEMA 1 box.

Engine

- Engines are inline or vee type, multi-cylinder, four cycle, direct injected diesels with replaceable dry or wet liners. Units are turbocharged (T) or turbocharged with water aftercooling (TA). Emissions and acoustics are low. Accessories include fuel pump, primary and secondary fuel filters, lube oil pump and cooler, lube oil filter, water pump, exhaust manifold, jacket water heater, stainless flex exhaust coupling, insulation blankets, DC starter and battery charging alternator.

Generator

- Generators are four pole, brushless broad range machines with a single permanently lubricated, double shielded radial ball bearing and flywheel disc drive coupling. The revolving field design contains a direct drive exciter and stator windings are 2/3 pitch with vacuum epoxy impregnation. Design is to NEMA and International Standards and insulation is Class H with 105° rise. Generators feature a TIF of <50, low radio interference, a wave form deviation of <5%, harmonic content of 3% max and a voltage regulation of .5% with standard static regulator.

Optional Equipment

* Special voltages up to 600 volts and DC.

The following codes are used:

G - 120/240 single phase
P - 120/208 three phase
R - 277/480 three phase
S - 346/600 three phase
E - 220/380 three phase
X - Special (4,160)

- PMG is available along with 3 phase sensing which includes a parallel module and overvoltage protection with engine relief load acceptance. Additional RF protection is available.

- Special array of temperature rise (80°C and 130°C) generators available meeting NEMA MG1-22.84 standards.
- Custom designed control systems - Special metering - Bussing - Switch gear - Remote annunciators.
- Circuit breaker is an insulated case mounted in a NEMA 1 Box or air type.
- Cooling: Remote radiator/hotwell tank - Heat exchangers.
- Fuel Systems: Pumps - Valves - Tanks (single and double wall, separate or skid mounted) - switches - water separators.
- Batteries: Lead acid - Lead calcium - Nickel cadmium - Heated boxes - Trickle chargers.
- Enclosures: Weather resistant - Thermal insulated - Sound attenuated - Spring isolation.
- Electronic Governing
- Exhaust Muffler & Systems
- Radiator load banks.
- Automatic Transfer Switch
- Spares.
- Loose ship kits.
- Lube Oil Vent Demisters
- Custom Alarms & accessories

SPECIFICATIONS: 200-2000KW - DIESEL GENERATOR SETS - LIQUID COOLED - FOUR CYCLE - DETROIT DIESEL ENGINES - 2001 RATINGS

Rating (Standby)		200KW	250KW	300KW	400KW	500KW	750KW	1000KW	1500KW	2000KW
Engine Model		Series 40E	Series 60	Series 60	Series 60	8V2000	12V2000	16V2000	12V4000	16V4000
Cylinders		6	6	6	6	V-8	V-12	V-16	V-12	V-16
Displacement	cu in	530/8.7	778/12.7	778/12.7	778/12.7	972	1458	1944	2975	3967
Aspiration *		TC	TA	TA	TA	TA	TA	TA	TA	TA
Horsepower @ 1800 RPM	HP	325	415	490	635	765	1120	1495	2200	2935
Fuel Consumption	gal/hr	15.3	18.6	21.8	30.3	37.7	54.7	73.2	99.7	133.2
Oil Sump Capacity	gal	24	32	32	32	49	73	102	211	243
Radiator Capacity	gal	8.87	12	12	12	42	66.5	69	120	150
Water Pump Flow	GPM	93	96	96	96	187	290	315	374	450
Aftercooler Circuit (Pump Flow)	GPM					79	89	114	220	200
Heat Rejection to Engine	BTUM	9455	9687	7746	9800	11535	19625	22865	37359	45434
Aftercooler Circuit (Heat Rejection)	BTUM			4997	5650	7385	12650	15440	23112	35895
Radiator Airflow	cfm	13418	19800	19800	19800	19300	30600	39400	56700	72000
Genset Radiated Heat	BTUM	2209	3932	4331	7513	6060	8570	10540	7508	9773
Exhaust Temp	°F	891	785	780	975	980	915	1015	806	824
Exhaust Flow	cfm	1810	2170	2530	3490	4080	6370	8780	10520	15000
Exhaust Outlet Size	in	5"	6"	6"	6"	2 x 8"	2 x 8"	2 x 8"	18"	18"
Control System Voltage	volt	24	24	24	24	24	24	24	24	24

DIMENSIONS AND WEIGHT

Length	in	118	135	135	135	144	167	186	229	244
Width	in	46	50	50	50	50	79	79	88	96
Height	in	64	77	77	77	83	91	91	99	117
Weight	lb	4400	6408	6700	7650	8900	13000	16000	30100	35000

* T = Turbocharged, A = Aftercooled, C = Charge Air Cooled

NOTE: This data is for estimating purposes only.
Contact factory for latest information.

Specifications subject to change without notification.

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