Quality Products
Engineered to Last


A-SERIES POWER UNITS

A Tradition of Excellence
Since 1955
**STANDARD FEATURES**

- A-32
- A-42
- A-54
- A-62
- A-90

- 12 Volt Starter
- 12 Volt Alternator
- Standard Oil Cooler
- Centrifuge Oil Filter
- Natural Gas Carburetor
- CD-1 Ignition System
- Enclosure (Doors Optional)
- Single-Plate PTO Clutch
- Double-Plate PTO Clutch (Optional)
- Dry-Type Air Cleaner
- Sucker Fan
- Mechanical Governor
- Electric Governor
- Analog Tachometer w/Hour Meter
- Oil Pressure Gauge w/Low Oil Pressure Shutdown
- Water Temp Gauge w/High Water Temperature Shutdown
- Standard Oil Filter Base + Spin-On Full-Flow Filter Included
- Main Bearings
- Lifting Eyes – Front & Rear
- Serrated, Angle-Cut, Connecting Rods
- Forged-Steel Connecting Rods
- Heavy-Duty Crankcase
- Exhaust Manifold With Top Outlet
- Liquid Cooled Manifold
- Individual Cylinder Heads
- Replaceable, Precision Main & Rod Bearings
- Overhead-Valve Cylinder Heads
- Replaceable Guides & Seats
- Forged-Steel, Dynamically-Balanced & Counterweighted Crankshafts with Hardened Journals
- One (1) Year Limited Warranty

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### A-SERIES POWER UNITS

#### POWER RATINGS

<table>
<thead>
<tr>
<th>ENGINE MODEL</th>
<th>FUEL</th>
<th>PEAK INTERMITTENT TORQUE @ RPM</th>
<th>BTU* AT SPEEDS INDICATED</th>
<th>TORQUE</th>
<th>BHP* AT SPEEDS INDICATED</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-32</td>
<td>Nat Gas</td>
<td>105 @ 600</td>
<td>900 1000 1200 1400 1600</td>
<td>I</td>
<td>17 20 24.5</td>
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<tr>
<td>A-42</td>
<td>Nat Gas</td>
<td>165 @ 1200</td>
<td>900 1000 1200 1400 1600</td>
<td>C</td>
<td>16 18 22</td>
</tr>
<tr>
<td>A-54</td>
<td>(VR330)</td>
<td>220 @ 1600</td>
<td>900 1000 1200 1400 1600</td>
<td>I</td>
<td>29 39 49 58 67 75</td>
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<tr>
<td>A-54 HD5</td>
<td>(VR330)</td>
<td>285 @ 1800</td>
<td>900 1000 1200 1400 1600</td>
<td>I</td>
<td>43 54 65 76 85 92</td>
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<tr>
<td>A-54 CF</td>
<td>(VR330 CF)</td>
<td>233 @ 1600</td>
<td>900 1000 1200 1400 1600</td>
<td>I</td>
<td>30 41 50 61 71 80</td>
</tr>
<tr>
<td>A-62</td>
<td>(VR380)</td>
<td>269 @ 1400</td>
<td>900 1000 1200 1400 1600</td>
<td>I</td>
<td>45 54 64 72 81</td>
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<tr>
<td>A-62 Turbo</td>
<td>(VR380)</td>
<td>392 @ 1400</td>
<td>900 1000 1200 1400 1600</td>
<td>C</td>
<td>50 65 79 95 108 115</td>
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<td>A-90</td>
<td>Nat Gas</td>
<td>376 @ 1200</td>
<td>900 1000 1200 1400 1600</td>
<td>I</td>
<td>61 72 85 97 110 121</td>
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<tr>
<td>A-90 Turbo</td>
<td>Nat Gas</td>
<td>527 @ 1600</td>
<td>900 1000 1200 1400 1600</td>
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<td>82 116 140 160 167</td>
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*Actual BHP may vary depending upon engine configuration.

### Altitude

NA engines - Deduct 3% for each 1000' (305m) above 1500' (457m) for continuous duty, or above 500' (152m) for intermittent duty.

### Temperature

Deduct 1% for every 10°F (6°C) above 100°F (38°C) for continuous duty, or above 85°F (29°C) for intermittent duty.

All ratings corrected to 500' (152m) altitude, 29.38” (746 mm) Hg and temperature of 85°F (29°C).

Natural gas ratings are based on use of 900 BTU (33.5 J/cm)/FT³ LHV gas. HD-5 propane ratings are based on use of 2335 BTU.
OPTIONAL FEATURES

- 24 Volt system
- Automatic oil level system
- Protected ignition
- AFR controls for emissions
- Catalytic converter
- Dual disc clutches
- Hospital grade mufflers
- Arrow Autostart System

Liquid Cooled Manifold
Available as a standard feature on the A-Series A-90 engine.

- Keeps the manifold temperature down
- Prevents damage to vital engine components due to heat, compared to dry exhaust systems
- Lowers temperature of enclosure

CD-1 Ignition Systems
CD1 is a capacitor-discharge, electronic microcircuit based ignition system for 1 to 8 cylinder industrial engines. It may be powered by either 8 to 30 VDC, and has no moving parts. It works with the step-up coils (one per cylinder.)

Engine timing should be set to 28° BTDC.

Employing digital circuitry, the CD1 unit processes signal from a magnetic pickup, sensing drilled reference holes or protrusions. This provides accurate and consistent timing referenced directly to the crankshaft or camshaft. The CD1 uses high energy, capacitor-discharge principle which provides maximum engine performance and can extend spark plug life three to five times when compared to an inductive system. Indicating LED’s convey whether proper pickup signals are being received and if the corresponding output signals are correct.

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Caterpillar® WAUKESHA®

<table>
<thead>
<tr>
<th>Model</th>
<th>C-46</th>
<th>C-66</th>
<th>C-96</th>
<th>C-101</th>
<th>C-106</th>
<th>C-255</th>
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Fairbanks®

<table>
<thead>
<tr>
<th>Model</th>
<th>EA-22, 6% × 8 CMA</th>
<th>EA30, 7¼ × 10 CMA</th>
<th>EA-30, 7¼ × 8 CMA</th>
<th>E-42, 8½ × 10 CMA</th>
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<tr>
<td>Series</td>
<td>G3398</td>
<td>G3399</td>
<td>G3304</td>
<td>G3306</td>
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Ajax®

<table>
<thead>
<tr>
<th>Model</th>
<th>Diameter</th>
<th>Height</th>
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<tbody>
<tr>
<td>Series</td>
<td>5½ × 6½</td>
<td>6½ × 8</td>
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