<table>
<thead>
<tr>
<th><strong>Cat® C15 ACERT™ Engine</strong></th>
<th><strong>Weight</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Power</td>
<td>Machine (Empty)</td>
</tr>
<tr>
<td></td>
<td>Machine (Loaded)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Water Distributor</strong></th>
<th><strong>Net Power</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Load</td>
<td>30 283 L</td>
</tr>
<tr>
<td></td>
<td>8,000 gal</td>
</tr>
</tbody>
</table>
The Cat 621G Water Distributor (WD) is equipped with a rugged water distribution system capable of carrying up to 8,000 gallons of water. This machine is mission ready, leveraging the intrinsic operation effectiveness, machine performance, and supportability of Caterpillar products. The 621G WD supports the construction and maintenance of expedient airfields, roads, landing zones, defensive berms and anti tank ditches.

The 621G WD is often used to add water to soil in a variety of climates allowing greater compaction of roads and runways as well as dust control. It is equipped with a rotating water cannon and a 50 ft. reeled hose making it a multi-purpose piece of equipment. It can also be used for fire fighting to extinguish non-petroleum fires as well as petroleum fires with a foam additive. The remote spray nozzle and hose can also be utilized for washing down equipment, runways, streets and parking areas.

**FEATURES**

The Cat 621G Water Distributor features the 621G commercial tractor and a purpose built water distributor, both modified to incorporate critical military modifications.

- MIL-STD-209K Lift and Tiedowns
- Self-deployable with top speed of 32 mph
- Travel range exceeding 200 miles
- “HCR” high corrosion resistant steel tank of 1/4” plate
- Easy to fill with 30 ft. fill hose and pump or 2 ft. manhole on top of tank
- Tank clean outs - front and rear
- Surge Reversal baffling for side slope stability
**Remanufactured Parts.** Cat engines and major components are designed to be remanufactured and provide multiple life cycles. Components are remanufactured in the factory to original specifications with necessary product updates.

**Monitoring Systems.** The 621G WD is also equipped with Electronic Technician (Cat ET), a service tool that is useful in troubleshooting existing problems or identifying potential problems by displaying real-time pressures, temperatures, fuel settings, historical data, and other diagnostic information.

**Worldwide Locations.** The Caterpillar global network of authorized dealers supports the U.S. Military in every corner of the globe. With heavy construction equipment dealers located in over 200 countries, Caterpillar’s support organization provides global coverage.

**Service Capabilities.** Cat field service technicians have the experience and tools necessary to service your equipment on-site. Field service trucks are fully loaded with state-of-the-art tools and diagnostic equipment as well as specifications and schematics for every Cat machine. Technical experts at the Dealership and at Caterpillar are available to provide assistance to field service technicians when needed. When on-site repair isn’t enough, Cat Dealerships are fully-equipped to service your equipment quickly.

**Dealer Support.** The Caterpillar global network of authorized dealers is the best in the world at providing support to keep your equipment up and running. With 99.7% of parts shipped within 24 hrs, Cat Dealers are supporting the 621G WD.
**Engine**

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Cat® C15 ACERT™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Power – Gears 1-2</td>
<td>246 kW 330 hp</td>
</tr>
<tr>
<td>Net Power – Gears 3-8</td>
<td>272 kW 365 hp</td>
</tr>
<tr>
<td>Gross Power – Gears 1-2</td>
<td>268 kW 359 hp</td>
</tr>
<tr>
<td>Gross Power – Gears 3-8</td>
<td>294 kW 394 hp</td>
</tr>
<tr>
<td>Bore</td>
<td>140 mm 5.5 in</td>
</tr>
<tr>
<td>Stroke</td>
<td>165 mm 6.5 in</td>
</tr>
<tr>
<td>Displacement</td>
<td>15.2 L 928 in³</td>
</tr>
</tbody>
</table>

- Net power advertised is the power available at rated speed of 1800 rpm, measured at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.

**Transmission**

<table>
<thead>
<tr>
<th>1 Forward</th>
<th>2 Forward</th>
<th>3 Forward</th>
<th>4 Forward</th>
<th>5 Forward</th>
<th>6 Forward</th>
<th>7 Forward</th>
<th>8 Forward</th>
<th>Reverse</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 kph</td>
<td>7.6 kph</td>
<td>10.9 kph</td>
<td>14.8 kph</td>
<td>19.9 kph</td>
<td>26.9 kph</td>
<td>36.4 kph</td>
<td>51.5 kph</td>
<td>9.2 kph</td>
</tr>
<tr>
<td>3.1 mph</td>
<td>4.7 mph</td>
<td>6.8 mph</td>
<td>9.2 mph</td>
<td>12.4 mph</td>
<td>16.7 mph</td>
<td>22.6 mph</td>
<td>32 mph</td>
<td>5.7 mph</td>
</tr>
</tbody>
</table>

**Services Refill Capacities**

| Fuel Tank | 606 L | 160 gal |
| Crankcase | 36 L | 9.5 gal |
| Transmission | 72 L | 19 gal |
| Differential | 144 L | 38 gal |
| Final Drive (per side) | 19 L | 5 gal |
| Cooling System | 107 L | 28 gal |
| Hydraulic Reservoir | 140 L | 37 gal |
| Wheel Coolant (each) | 45 L | 12 gal |
| Windshield Washer | 6 L | 1.5 gal |

**Standards**

- Falling Object Protective Structure (FOPS) meets SAE J231 JAN 81 and ISO 3449-1992
- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 is 80.5 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environments.
- Standard air conditioning system contains environmentally friendly R134a refrigerant.
Spray Pattern and Reach
The illustrations below demonstrate width and reach of spray heads and monitor. Typical spray head deflector fan adjustments are also depicted.

Spray System Duration
The table below contains a standard vehicle duration based on spray head deflector opening and vehicle speed.

<table>
<thead>
<tr>
<th>Spray Heads &amp; Opening</th>
<th>GPM</th>
<th>Ground Speed</th>
<th>Maximum Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Spray Heads @ 1/4”</td>
<td>954</td>
<td>10 mph</td>
<td>3.5 mi</td>
</tr>
<tr>
<td>2 Spray Heads @ 1/4”</td>
<td>954</td>
<td>15 mph</td>
<td>5.2 mi</td>
</tr>
<tr>
<td>2 Spray Heads @ 3/8”</td>
<td>1243</td>
<td>10 mph</td>
<td>2.7 mi</td>
</tr>
<tr>
<td>2 Spray Heads @ 3/8”</td>
<td>1243</td>
<td>15 mph</td>
<td>4.0 mi</td>
</tr>
<tr>
<td>4 Spray Heads @ 1/4”</td>
<td>1504</td>
<td>10 mph</td>
<td>2.2 mi</td>
</tr>
<tr>
<td>4 Spray Heads @ 1/4”</td>
<td>1504</td>
<td>15 mph</td>
<td>3.3 mi</td>
</tr>
<tr>
<td>4 Spray Heads @ 3/8”</td>
<td>1572</td>
<td>10 mph</td>
<td>2.1 mi</td>
</tr>
<tr>
<td>4 Spray Heads @ 3/8”</td>
<td>1572</td>
<td>15 mph</td>
<td>3.2 mi</td>
</tr>
</tbody>
</table>

Precision Watering
The following tables provide precision watering calculations for the installed spray system. Each table is categorized by size of spray head deflector opening 1/4” or 3/8” at a full fan width for 2 or 4 spray heads.

Spray Head Deflector 1/4” Opening & Full Fan (8,000 gallons)

<table>
<thead>
<tr>
<th>Speed</th>
<th>Total Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH / FPM</td>
<td>2 Spray Heads / 4 Spray Heads</td>
</tr>
<tr>
<td>10 / 880</td>
<td>612,495 ft² / 351,064 ft²</td>
</tr>
</tbody>
</table>

Spray Head Deflector 3/8” Opening & Full Fan (8,000 gallons)

<table>
<thead>
<tr>
<th>Speed</th>
<th>Total Coverage</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPH / FPM</td>
<td>2 Spray Heads / 4 Spray Heads</td>
</tr>
<tr>
<td>10 / 880</td>
<td>441,770 ft² / 291,094 ft²</td>
</tr>
</tbody>
</table>
STANDARD EQUIPMENT


**Electrical**
- Alarm, backup
- Alternator, 75 amp
- Batteries (4), 12V Maintenance Free, High Output
- Electrical System, 24V
- Lighting System
  - Directional Signals; Hazard Lights; Headlights, Halogen with Dimmer; Floodlight, Cutting Edge
- Starting Receptacle

**Operator Environment**
- Air Conditioner (includes heater and defroster)
- Cigarette Lighter and Ashtray
- Coat Hook
- Diagnostic Connection Port (12V)
- Dome Courtesy Light
- Gauge Group
  - Air Pressure
  - Converter/Retarder Temperature
  - Electronic Monitoring System (EMS III)
  - Engine Coolant Temperature
  - Actual Transmission Gear Indicator
  - Fuel
  - Speedometer
  - Tachometer
  - Transmission Gear Indicator
- Horn
- Implement Control Joystick
- Rearview Mirrors
- Radio Ready (two bays, speakers, 5-amp converter)
- ROPS Cab with Sound Suppression and Pressurization
- Static Seat Belt
- Seat, Air Suspension, Caterpillar Comfort, Cloth
- Steering Wheel – Tilt and Telescoping
- Storage Compartment
- Engine Speed Control Lock
- Transmission Hold
- Windows – Sliding Side, Swingout
- Windshield – Laminated Glass
- Windshield Wiper/Washer – Front and Rear

**Powertrain**
- Engine
  - Cat® C15, 6-cylinder Diesel with ACERT™ Technology
  - Air Cleaner, Dry-type with Pre-cleaner
  - Electronic Unit Injection (EUI)
  - Electric Start, 24V
  - Fan, Suction
  - Ground Level Engine Shutdown
  - Muffler
  - Starting Aid, Ether
  - Thermo-shield, Laminated
  - Radiator, NGMR (9 fins per inch)
- Braking System
  - Parking/Primary/Secondary
  - Shields – Brake
- Transmission
  - 8-speed Automatic Powershift with Electronic Control
  - Control Throttle Shifting
  - Differential – Lockup
  - Downshift Inhibitor
  - Neutral Coast Inhibitor
  - Programmable Top-Gear Selection

**Other Standard Equipment**
- Extended Life Coolant, –36°C (–33°F)
- Fast Oil Change
- Fenders
- Rims – 29 in (736.6 mm)
- Tires – 33.25-R29 Radial
- Tractor
  - Air Dryer
  - Cushion Hitch
  - Locks, Vandalism Protection
  - Product Link Ready
  - Tow Pins – Front and Rear
  - Heater, Engine Coolant
  - Lights, Side Vision
  - Retarder, Hydraulic
  - Steering, Secondary
STANDARD FEATURES/DIMENSIONS


Standard
MEGA Anti-surge Stabilization (M.A.S.T.)
Heavy-duty Gooseneck
Full Welds Throughout Entire Structure
Banded Manholes
MEGA bogie with CAT-axles
Stop, Brake & Tail Lights
Clearance Lights
Close-Coupled Water Pump/Hydraulic Motor
Safety Ladder
Externally Routed Hydraulic Lines to Eliminate Cross-contamination
Rear Spray Bar with 2 or 4 Spray Heads
Patented Spray Heads with 360° Rotation & Variable Opening Adjustment
Anti-skid Perforated Metal Walkway with a Variety of Banded Access Port Configurations
Electronic Cab Control Module
Four Rear Spray Heads
Two Upper Quadrant Side Sprays
Monitor (Fire Hose)
Hose Real

Optional
Stainless Steel Hydraulic or Electric Monitor
Variety of Nozzles Including Remote Control & Foam Eduction
Anti-siphon Fill
Manual & Powered Hose Reels with Various Sizes
Front Bumper Spray
Vertical Side Spray
Swivel Spay Head
Powered or Gravity Dump Bar
Drop Tank Configuration
Tank Protection Plate
Moldboard & Grader Blade
Stainless Steel Piping & Water Pump
Suction Loading Pump (limited applications)
Epoxy Coated Interior
In-cab Water Level Indicator

Shipping Data for Water Distributor
OVERALL LENGTH 608”
OVERALL HEIGHT 135”
OVERALL WIDTH 123”
SHIPPING WEIGHT 67,000 lbs
SHIPPING CUBAGE 5,850 cu. ft.

Tank mixing allows for soil additives to be used in the tank and provides a way to clean the tank after usage.
MILITARY MODIFICATIONS

- Keyless Engine Start Switch
- CARC or Special Paint
- NATO Start Receptacle
- Rifle Bracket
- Military Data Plates

All dimensions are approximate. Dimensions may vary with configuration. Specific military service configurations are available upon request.

For more information visit: www.catdfp.com