

DATASHEET SPECIFICATION



FLOW @BEP
500 mc/h



HEAD @BEP
41 mt



CORNELL PUMP
6612T-RP-EM18DB-3



PERKINS DIESEL ENGINE
1104D-44T



SOLIDS DIAMETER
3" – 76 mm



PRIMING SYSTEM
Redi Prime

EUROMACCHINE WATER TRANSFER APPLICATIONS

Water pumping is our natural environment. For this reason, we've been addressing always new pumping problems, delivering functional solutions which provide practical answers to any kind of pumping needs.

Floods and emergencies, water transfer and slurry pumping. Our comprehensive range of high performance pump units are designed to be easy to use, prolong lifespan and reduce downtime & operational costs.

WATER TRANSFER DURA-PRIME SERIES

The Duraprime series of pumps are designed with Cornell's renowned quality and durability. Duraprime pumps feature tangential volutes and come in two configurations. Duraprime CP pumps feature a semi-open impeller and the Duraprime T models include an enclosed impeller. Cornell's patented Cycloseal® design is standard, with a Type 2 single mechanical seal with DuPont Viton® elastomers, stainless steel hardware and silicon carbide vs. silicon carbide seal faces for abrasion resistance.

FEATURES & BENEFITS

- More than 40 countries covered by our support Team
- More than 12 languages spoken by our Team
- More than 15,000 codes available on stock
- 8 Assembly lines – Lean Manufacturing
- More than 40 years of experience
- Custom build available
- Testing Facility in internal control room

ALL DURAPRIME PUMP INCLUDES

- Standard cast iron construction
- Ductile impeller and stainless steel shaft and sleeve
- Redi-prime system
- Atmospheric vent in bearing frame to detect lip seal leakage.
- Cylcoseal® mechanical seal system
- Impeller backvanes reducing axial thrust
- Replaceable shaft sleeves

EFFICIENCY

- Less fuel consumption
- Oversized shaft & bearings
- Easily replaceable wear parts

TIME SAVING

RELIABILITY

LESS WEAR

- Less Maintenance
- Less Parts
- Less Downtime

CUSTOMIZATION

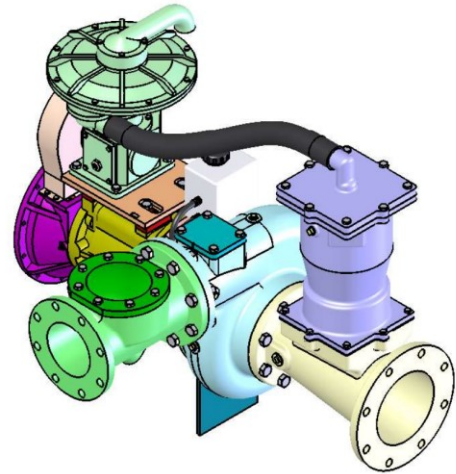
MADE ON YOUR NEEDS

- Customized solutions
- Taylor made products
- MADE IN ITALY

STANDARD TECHNICAL SPECIFICATION

CORNELL PUMP:

6612T



| PUMP | | |
|----------------|--------------------------|----------|
| Brand | CORNELL PUMP | |
| Model | 6612T | |
| Version | Engine Mounted | |
| Suction size | 152,4 mm | 6" |
| Delivery size | 152,4 mm | 6" |
| Solid handling | 76.2 mm | 3" |
| Impeller | 355,6 mm | 12,0" |
| Min Flow | 91 mc/h | 400 GPM |
| MAX Flow | 635.95 m ³ /h | 2800 GPM |
| MAX Head | 71.63 m | 295 feet |
| MAX Speed | 2,000 Rpm | |
| BEP Point | 567 mc/h @ 52 mt - 83% | |
| Shaft | 2,5" | 63,5 mm |
| Shaft Seal | Mechanical | |
| Pump Weight | 671 Lb | 304 kg |

| MATERIALS | STANDARD | OPTION |
|-----------------|--------------------------------------|-----------|
| Volute | Cast iron | CD4MCU |
| Impeller | Cast iron | CD4MCU |
| Wear ring | Cast iron | CD4MCU |
| Shaft | Stressproof steel | 17-4PH |
| Shaft sleeve | 416 SS | CD4MCU |
| Backplate | Cast iron | CD4MCU |
| Mechanical seal | Tungsten Carbide vs. Silicon Carbide | |
| Bearing frame | Cast iron | Cast iron |

| PRIMING SYSTEM | | |
|----------------|---------------------------------|--|
| Brand | CORNELL PUMP | |
| Model | REDI – PRIME | |
| Air Handling | 50 mc/h | |
| MAX Vacuum | 8,5 mt | |
| Drive | Toothed belt – Continuous drive | |
| Delivery | Non return valve | |

DIESEL ENGINE

| | |
|-----------------|---------------------------|
| Brand | PERKINS |
| Model | 1104D – 44T |
| Power | 64 kW / 87 HP @ 2,200 Rpm |
| Aspiration | N/A |
| Emission | Stage III |
| Displacement | 4.400 cc |
| Cylinders | 4 in line |
| Cooling system | Liquid |
| SAE – Fly Wheel | #3 – 10" |
| Torque | 350 Nm @ 1,800 Rpm |

FUEL SYSTEM

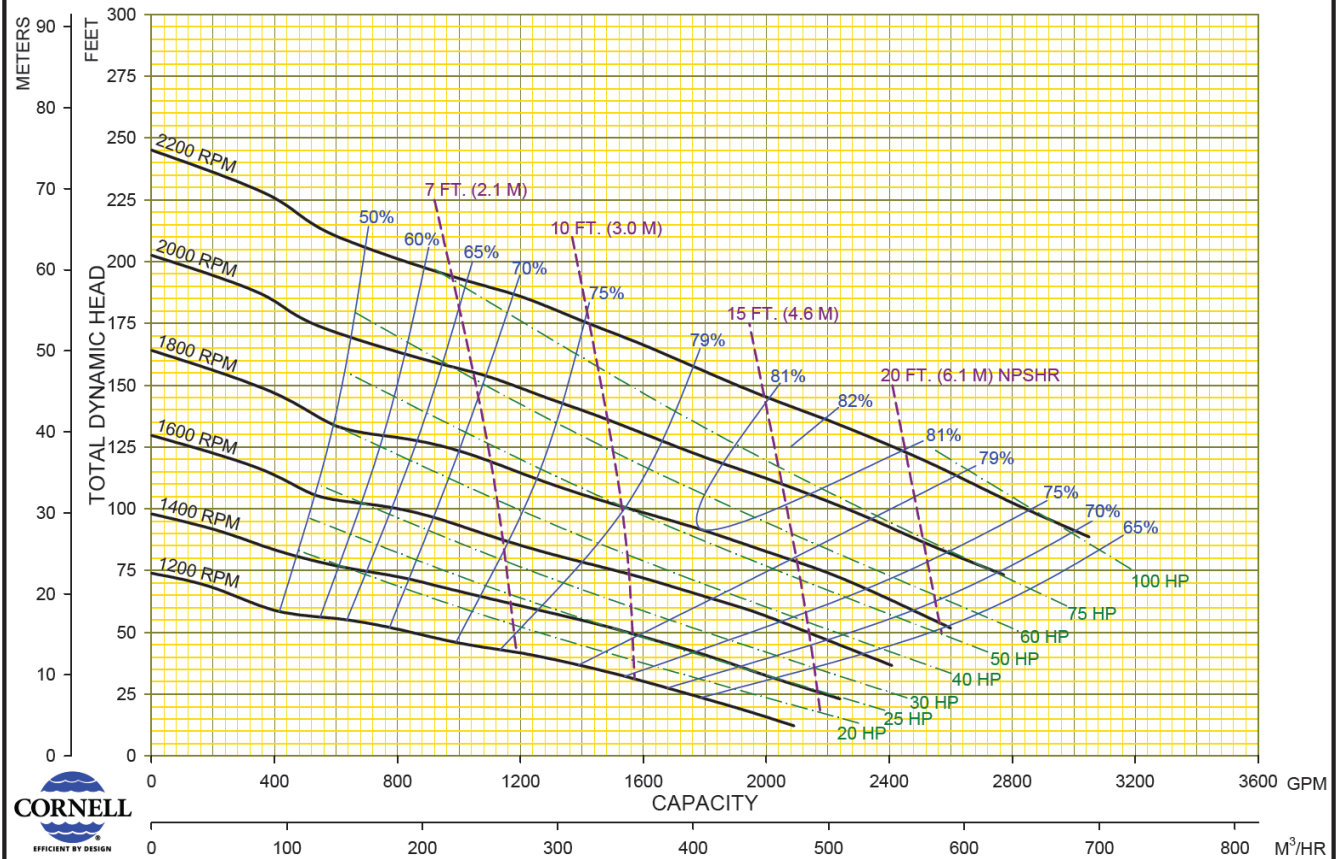
| | |
|----------------|----------------------|
| Tank Type | Bunded – Double wall |
| Tank Capacity: | 260 liters |
| Fuel Tank Cap: | Ø80 mm – 3" |

CONTROL PANEL

| | | | |
|------------|----------|------------------------|--|
| L x W x H | mm | 2600 x 1100 x 1710 | |
| | inches | 102.40 x 43.30 x 67.30 | |
| Dry Weight | 2.000 kg | 4.410 lb | |

PUMP CURVE SELECTION

| | | | | | | | | | |
|--|---------|---------------|----------|--------|-------------|----------------|---------|-----------|-----------|
| Performances shown are for S.G. 1.0 60°F water, close-coupled configuration with Cycloseal. Other mounting styles or S.G. may require curve adjustments. | Speed | Impeller Dia. | Style | Volute | Solids Dia. | N _s | Suction | Discharge | No. Vanes |
| | VARIOUS | 12" | ENCLOSED | SINGLE | 3" | 2390 | 6" | 6" | 2 |



| | | | | |
|--|-------------|-----|------------------------|--------------------------|
| Cornell Pump Company • Clackamas, Oregon | 02 03/10/15 | CTG | MODEL : 6612T | CURVE NO: 6612TVA |
| | 00 11/13/14 | BE | TYPE : SOLIDS HANDLING | |

STANDARD & BENEFITS

| | |
|--|---|
| <p>Canopy: SUPERSILENT</p> <p>Doors: 7 Lockable Doors</p> <p>Roof: REMOVABLE – Complete Top Access</p> <p>Basic Frame: HOT DIP GALVANIZED</p> <p>Frame: Double Wall Tank</p> <p>Tank: Metal tank – 260 liters</p> <p>Autonomy: 24 Hours</p> <p>Exhaust system: Internal in the canopy</p> <p>Forklift Pockets: Fitted with 2 Forklift pockets</p> <p>Lifting Point: Central Balanced</p> | <p>Voltage: Nominal 12V</p> <p>Battery: 105 Ah – Premium Quality</p> <p>Electrical Isolation: Battery Isolator Switch</p> <p>Oil Indicator: Murphy MPC-10</p> <p>Filter: Fuel/Water Filter Separator</p> <p>Fuel Tank Cap: Ø80 mm – 3"</p> <p>Fuel Level: Electronic Fuel Injection</p> <p>Fuel Connectors: In/Out external Diesel tank</p> <p>Fuel Valve: 3 Ways Valve</p> <p>Documentation: User Manual</p> |
|--|---|

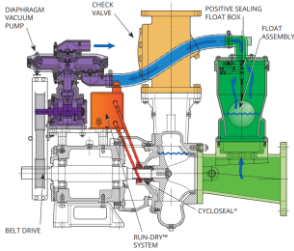
sales@euromacchine.it

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FEATURES & BENEFITS

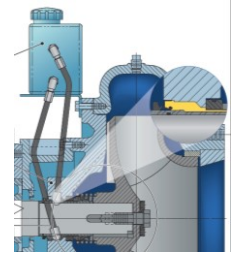
PRIMING SYSTEM REDI-PRIME:

Cornell Redi-Prime pumps are designed with oversized suctions to provide more flow, reduced friction losses, and higher suction lift. The priming system was designed with the environment in mind. By using a positive sealing float box and a diaphragm vacuum pump, there is no water carry-over to contaminate the environment.



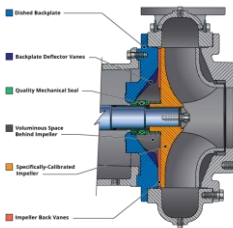
CORNELL RUN-DRY:

The Cornell Run Dry system is an inventive solution to provide continual lubrication of mechanical seals. Run-Dry provides a gland on the backside of the mechanical seal through which a lubricant can circulate providing lubrication and cooling to the hardened seal faces of the mechanical seal. The result is exceptional seal life regardless of operating conditions, from maximum flow to no flow – Run-Dry.

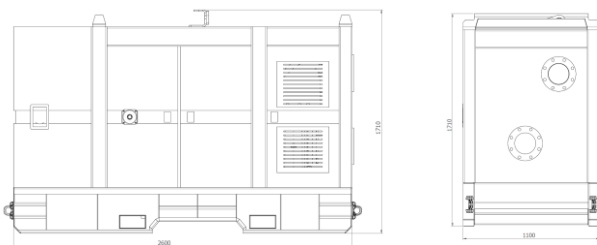


PROTECTION SYSTEM CYCLOSEAL:

Cycloseal® is patented system with a self-contained single mechanical seal. The Cycloseal pattern cast into the pump backplate in conjunction with contoured impeller back vanes and a dished backplate, creates a pressure gradient that move solids and entrained vapor away from the seal faces.



DIMENSIONS & WEIGHT



DIMENSIONS & WEIGHT

| | | | |
|------------|--------|------------------------|----------|
| L x W x H | mm | 2600 x 1100 x 1710 | |
| | inches | 102.40 x 43.30 x 67.30 | |
| Dry Weight | | 2.000 kg | 4.410 lb |



Euromacchine Pump Academy is held by our technicians who share their experience and show the best way to analyze the problem and find the right solution.

For more information about courses, contact us by sending an e-mail to info@euromacchine.it.