





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.
- Cycloseal® mechanical seal system
- Impeller backvanes reducing axial thrust
- Replaceable shaft sleeves



TIME SAVING

EFFICIENCY

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



RELIABILITY

LESS WEAR

- Less Maintenance
- Less Parts
- Less Downtime



CUSTOMIZATION

MADE ON YOUR NEEDS

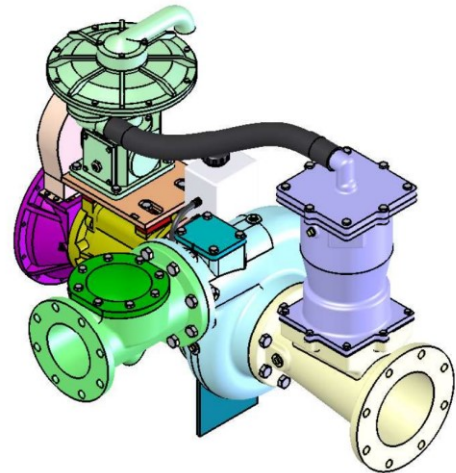
- Customized solutions
- Taylor made products
- MADE IN ITALY



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"

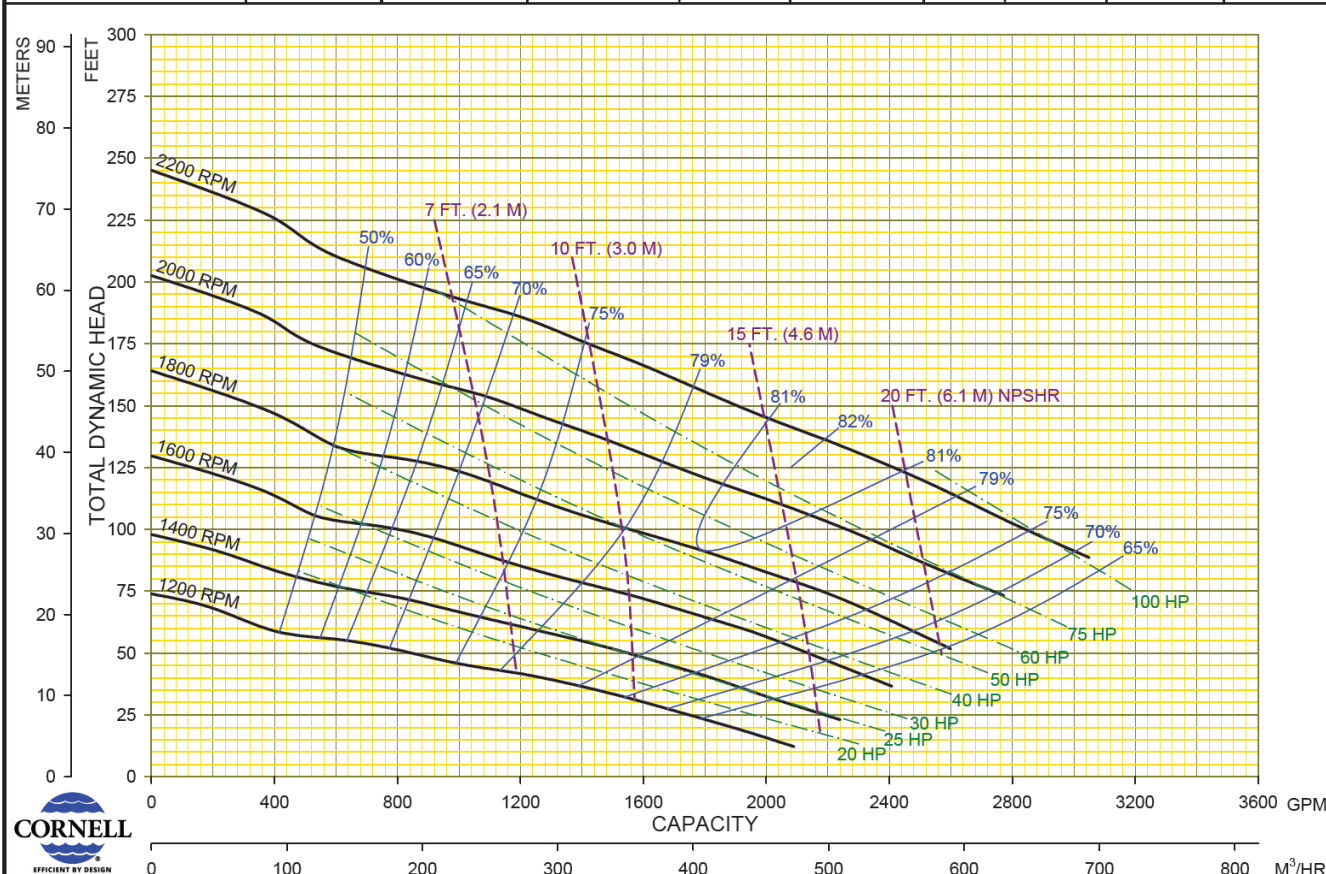
CONTROL PANEL

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
00	11/13/14	BE	TYPE: SOLIDS HANDLING

CURVE NO: **6612TVA**

STANDARD & BENEFITS

- Canopy: SUPERSILENT
- Doors: 7 Lockable Doors
- Roof: REMOVABLE – Complete Top Access
- Basic Frame: HOT DIP GALVANIZED
- Frame: Double Wall Tank
- Tank: Metal tank – 260 liters
- Autonomy: 24 Hours
- Exhaust system: Internal in the canopy
- Forklift Pockets: Fitted with 2 Forklift pockets
- Lifting Point: Central Balanced

- Voltage: Nominal 12V
- Battery: 105 Ah – Premium Quality
- Electrical Isolation: Battery Isolator Switch
- Oil Indicator: Murphy MPC-10
- Filter: Fuel/Water Filter Separator
- Fuel Tank Cap: Ø80 mm – 3"
- Fuel Level: Electronic Fuel Injection
- Fuel Connectors: In/Out external Diesel tank
- Fuel Valve: 3 Ways Valve
- Documentation: User Manual



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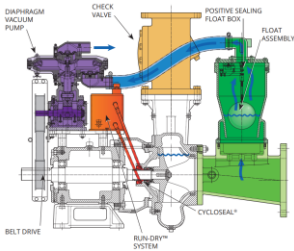


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FEATURES & BENEFITS

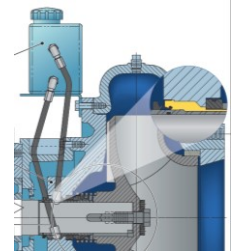
PRIMING SYSTEM REDI-PRIME:

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.



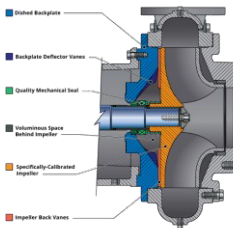
CORNELL RUN-DRY:

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.

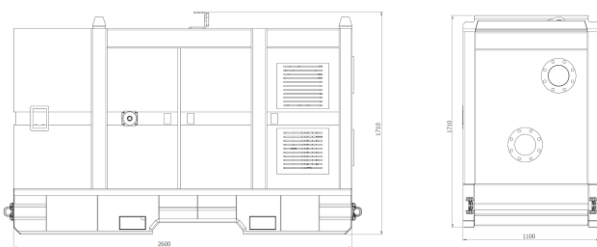


PROTECTION SYSTEM CYCLOSEAL:

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.

