

# EFD.80NX

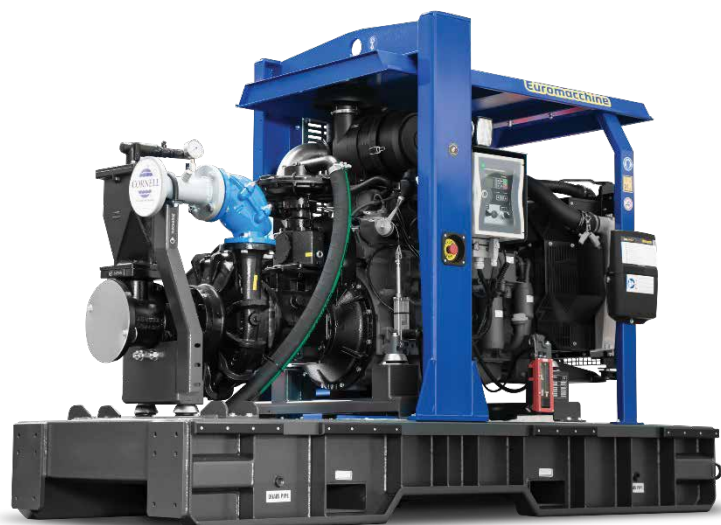
FLOW @BEP: 50 l/s - 180 m<sup>3</sup>/h

HEAD @BEP: 150 m

## DATASHEET SPECIFICATION

**CAT**<sup>®</sup>

**CORNELL**



FLOW @BEP  
500 l/s - 180 m<sup>3</sup>/h



HEAD @BEP  
150 m



CORNELL PUMP  
3617MX-RP-EM18DB



CUMMINS DIESEL ENGINE  
C7.1



SOLIDS DIAMETER  
0.75" - 19 mm



PRIMING SYSTEM  
Redi Prime

## EUROMACCHINA 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 SOLIDS HANDLING PUMPS

The 3617MX pump is designed with Cornell's renowned quality and durability.

It features a 3" discharge, 6" suction, and enclosed impeller. Cornell's patented Cycloseal<sup>®</sup> design is standard, with a Type 2 single mechanical seal with Buna-N elastomers, stainless steel hardware and tungsten carbide vs. silicon carbide seal faces for abrasion resistance.

## FEATURES & BENEFITS

- More than 50 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 HYBRID MX PUMP INCLUDES

- Impeller wear ring optionally hardened to 375-425 bhn
- Volute wear ring optionally hardened to 450-500 bhn
- 3 or 4 vane enclosed CA6NM impellers
- Heavy Duty Bearing Frame
- Double angular contact thrust bearings CA6NM Impeller is corrosion-resistant and abrasion-resistant
- Industry-leading efficiencies
- Two year Warranty



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



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# BROOKS HIRE

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# EFD.80NX

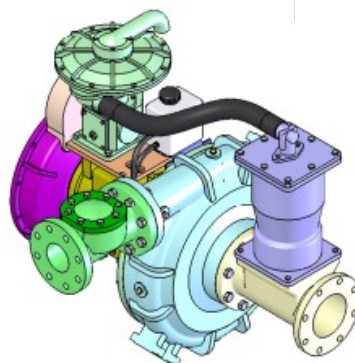
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## STANDARD TECHNICAL SPECIFICATION

CORNELL PUMP:

# 3617MX




PUMP		
Brand	CORNELL PUMP	
Model	3617MX	
Version	Engine Mounted	
Suction size	150 mm	6"
Delivery size	75 mm	3"
Solid handling	19 mm	0.75"
Impeller	445 mm	17,50"
Min Flow	45 m³/h	200 GPM
MAX Flow	277 m³/h	1220 GPM
MAX Head	150 m	500 ft
MAX Speed	2.200 Rpm	
BEP Point	238 m³/h @ 145 m - 67%	
Shaft	2,5"	63,5 mm
Shaft Seal	Mechanical	
Pump Weight	1100 Lb	495 kg

MATERIALS	STANDARD
Volute	DUCTILE IRON
Impeller	CA6NM – CD4MCu (opt.)
Wear ring	Cast iron
Shaft	17-4PH STAINLESS STEEL
Shaft sleeve	416 STAINLESS STEEL
Suction Cover	Cast iron
Mechanical seal	Tungsten Carbide vs. Silicon Carbide
Bearing frame	Cast iron

PRIMING SYSTEM	
Brand	CORNELL PUMP
Model	REDI – PRIME
Air Handling	50 m³/h
MAX Vacuum	8,5 m
Drive	Toothed belt – Continuous drive
Delivery	Non return valve

## DIESEL ENGINE

Brand	CAT 
Model	C7.1
Power	205 kW / 275 HP @2,200 Rpm
Aspiration	TURBOCHARGED
Emission	Stage IIIA
Displacement	7,01 L
Cylinders	6 in line
Cooling system	Liquid
SAE – Fly Wheel	#1 – 14"
Torque	-

## FUEL SYSTEM

Tank Type	Bunded – Double wall
Tank Capacity:	500 liters
Fuel Tank Cap:	2 x Ø80 mm – 3"

## CONTROL PANEL

Brand	ComAp
Model:	IPC / Intelingen 500
Control:	Pump – Engine
Remote Control:	YES – GPS Location (with Intelingen 500)



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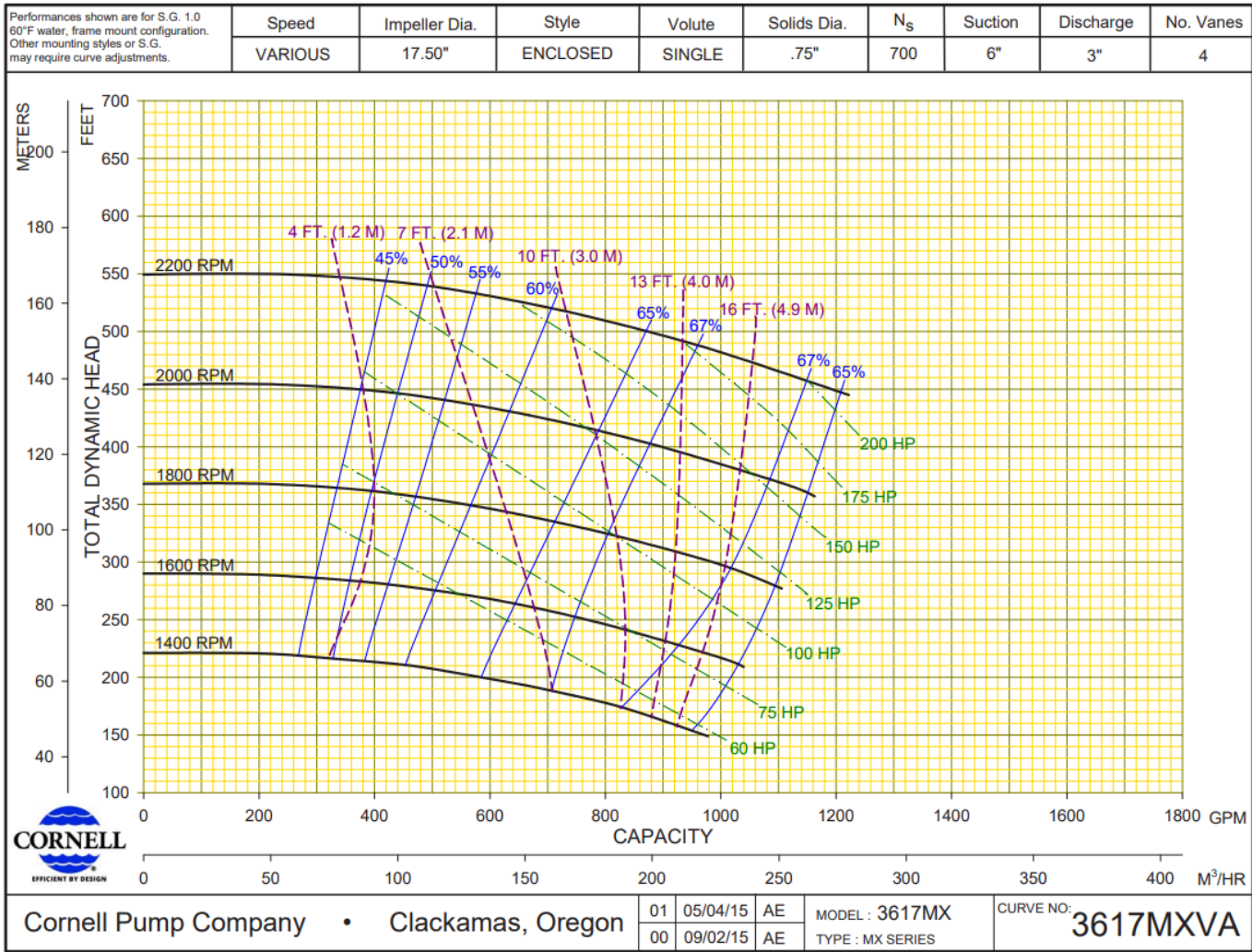
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FLOW @BEP: 50 l/s - 180 m³/h

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## PUMP CURVE SELECTION



## STANDARD & BENEFITS

Canopy: SS SUPERSILENT – Optional	Voltage: Nominal 24V
Doors: 7 Lockable Doors on SS version	Battery: 2x105 Ah – Premium Quality
Roof: REMOVABLE – Complete Top Access on SS version	Electrical Isolation: Battery Isolator Switch
Basic Frame: Available	Oil Indicator: Murphy MPC-10
Frame: Double Wall Tank	Filter: Fuel/Water Filter Separator
Tank: Metal tank – 500 liters	Fuel Tank Cap: 2 x Ø80 mm – 3"
Autonomy: 24 Hours	Fuel Level: Electronic Fuel Injection
Exhaust system: Internal in SS Version	Fuel Connectors: In/Out external Diesel tank
Forklift Pockets: Fitted with 2 Forklift pockets	Fuel Valve: 3 Ways Valve
Lifting Point: Central Balanced	Documentation: User Manual



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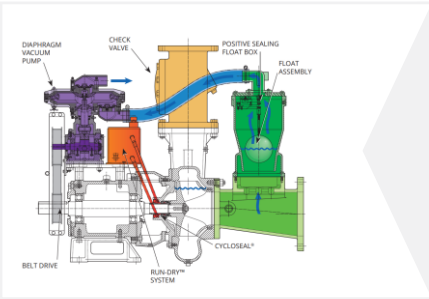
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## FEATURES & BENEFITS

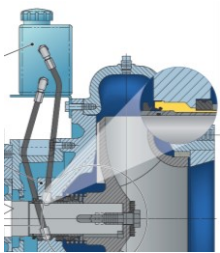


### PRIMING SYSTEM REDI-PRIME:

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.

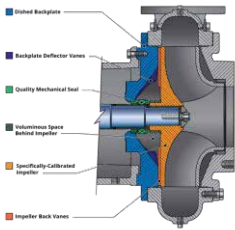
### CORNELL RUN-DRY:

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	3,500x1,500x2,500	
	inches	138.00 x 60.00 x 99.00	
Dry Weight		3,000 kg	6.600 lb



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