

EFD.200NT

FLOW @BEP: 840 m³/h

HEAD @BEP: 70m

DATASHEET SPECIFICATION



SCANIA



FLOW @BEP
840 m³/h



HEAD @BEP
67 m



CORNELL PUMP
8NHTA-RP-EM18DB



SCANIA DIESEL ENGINE
DC09 074



SOLIDS DIAMETER
3.38" – 86 mm



PRIMING SYSTEM
Redi Prime

EUROMACHINE 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.

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

WATER TRANSFER SOLIDS HANDLING PUMPS

The 8NHTA pump is designed with Cornell's renowned quality and durability. It features an 8" discharge, 10" suction, and enclosed impeller. Available with enterline or tangential volute. Pump body construction is All Iron or **CD4MCu** materials. Cornell's patented Cycloseal® design is standard, with a Type 1 or 2 single mechanical seal with Buna-N elastomers, stainless steel hardware and tungsten carbide vs. silicon carbide seal faces for abrasion resistance.

ALL DURAPRIME PUMP INCLUDES

- Heavy-duty bearing frame
- Patented Cycloseal design
- Heavy duty construction
- Wide flow and head ranges
- Cycloseal® mechanical seal system
- RunDry™ Indefinite run dry capability
- Redi-Prime® available for fully-automatic continuous priming



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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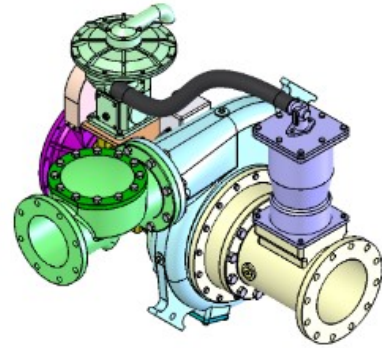
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STANDARD TECHNICAL SPECIFICATION

CORNELL PUMP:

8NHTA



PUMP		
Brand	CORNELL PUMP	
Model	8NHTA	
Version	Engine Mounted	
Suction size	250 mm	10"
Delivery size	200 mm	8"
Solid handling	86 mm	3.38"
Impeller	445 mm	17.50"
Min Flow	91 m ³ /h	400 GPM
MAX Flow	1158 m ³ /h	5100 GPM
MAX Head	90 m	300 ft
MAX Speed	1.770 Rpm	
BEP Point	840 m ³ /h @ 67 m - 82%	
Shaft	2,5"	63,5 mm
Shaft Seal	Mechanical	
Pump Weight	1.841 Lb	825 kg

MATERIALS	STANDARD
Volute	DUCTILE IRON
Impeller	CD4NM
Wear ring	Cast iron
Shaft	4140/4142 BD
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 m ³ /h
MAX Vacuum	8,5 m
Drive	Toothed belt – Continuous drive
Delivery	Non return valve

DIESEL ENGINE	
Brand	SCANIA
Model	DC09 074
Power	255 kW / 355 HP @2,100 Rpm
Aspiration	TURBOCHARGED
Emission	Stage IIA
Displacement	9,3 L
Cylinders	5 in line
Cooling system	Liquid
SAE – Fly Wheel	#1 – 14"
Torque	1800 Nm @ 1,250 Rpm

FUEL SYSTEM	
Tank Type	Bunded – Double wall
Tank Capacity:	1.000 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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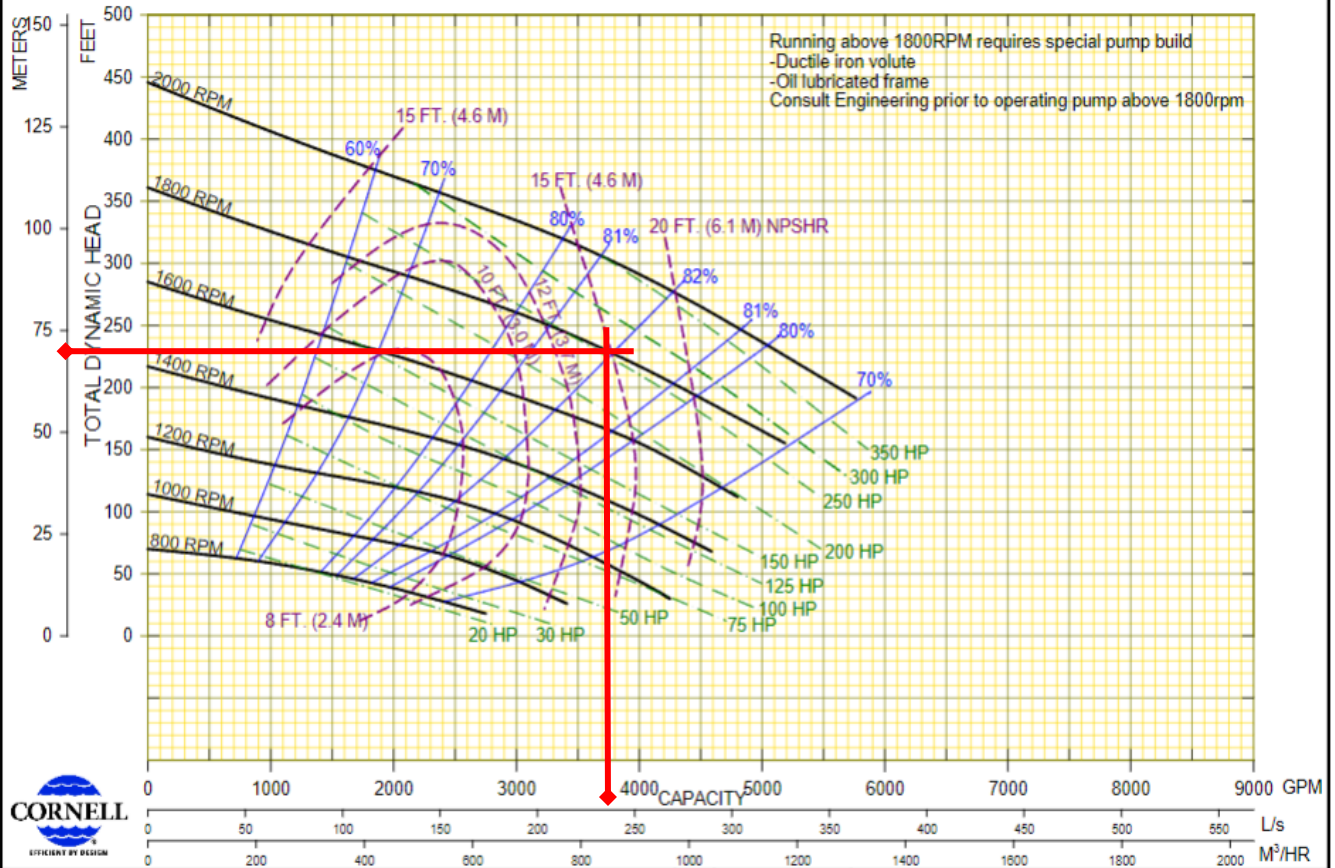
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PUMP CURVE SELECTION

Performances shown are for S.G. 1.0 60°F water, frame mount configuration. Other mounting styles or S.G. 1 may require curve adjustments.	Speed	Impeller Dia.	Style	Volute	Solids Dia.	N _s	Suction	Discharge	No. Vanes
	VARIOUS	17.50"	ENCLOSED	DOUBLE	3.38"	1760	10"	8"	2



Cornell Pump Company • Clackamas, Oregon	04	03/09/18	FM/AE	MODEL : 8NHTA	CURVE NO: 8NHTAVA
	05	04/18/19	FM/AE		

STANDARD & BENEFITS

- Canopy: SS SUPERSILENT – Optional
- Doors: 7 Lockable Doors on SS version
- Roof: REMOVABLE – Complete Top Access on SS version
- Basic Frame: Available
- Frame: Double Wall Tank
- Tank: Metal tank – 500 liters
- Autonomy: 24 Hours
- Exhaust system: Internal in SS Version
- Forklift Pockets: Fitted with 2 Forklift pockets
- Lifting Point: Central Balanced

- Voltage: Nominal 24V
- Battery: 2x105 Ah – Premium Quality
- Electrical Isolation: Battery Isolator Switch
- Oil Indicator: Murphy MPC-10
- Filter: Fuel/Water Filter Separator
- Fuel Tank Cap: 2 x 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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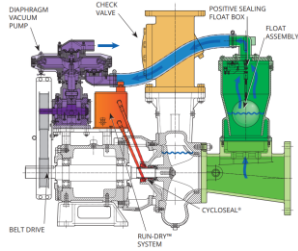
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FEATURES & BENEFITS

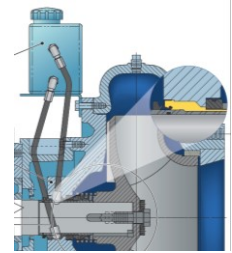
PRIMING SYSTEM REDI-PRIME:

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.



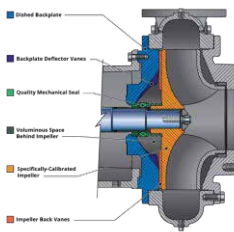
CORNELL RUN-DRY:

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.

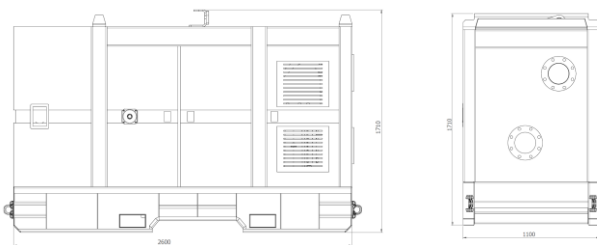


PROTECTION SYSTEM CYCLOSEAL:

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	3,500x1,500x2,500
	inches	138.00 x 60,00 x 99,00
Dry Weight		3,500 kg 6.600 lb



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