

RENTAL PUMP UNITS

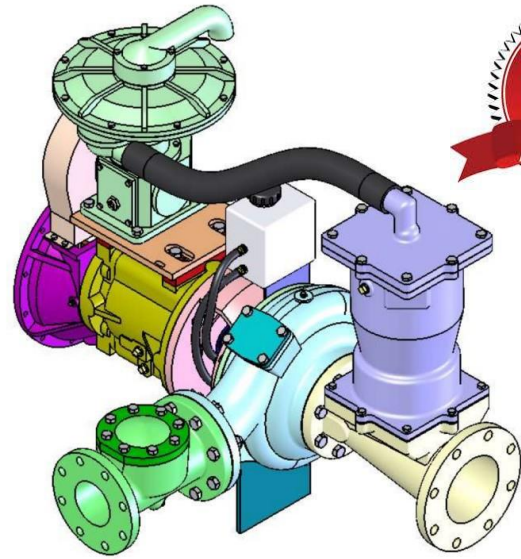
We care about your watering

Euromachine
GROUP FORCE

RENTAL PUMP UNIT

PUMP	SUCTION DELIVERY [inches - mm]	SOLIDS [mm]	MAX. FLOW [mc/hour]	MAX. HEAD [m]	PERKINS	TANK CAPACITY [liters]
EMP.4NNT	6" - 150 4" - 100	76	295	37.2	404D-22T	200
EMP.6NNT	8" - 200 6" - 150	76	625	45.0	404D-22T	200
EMP.6612T	8" - 200 6" - 150	76	681	75.0	1104D-44T	200

CORNELL 4NNT



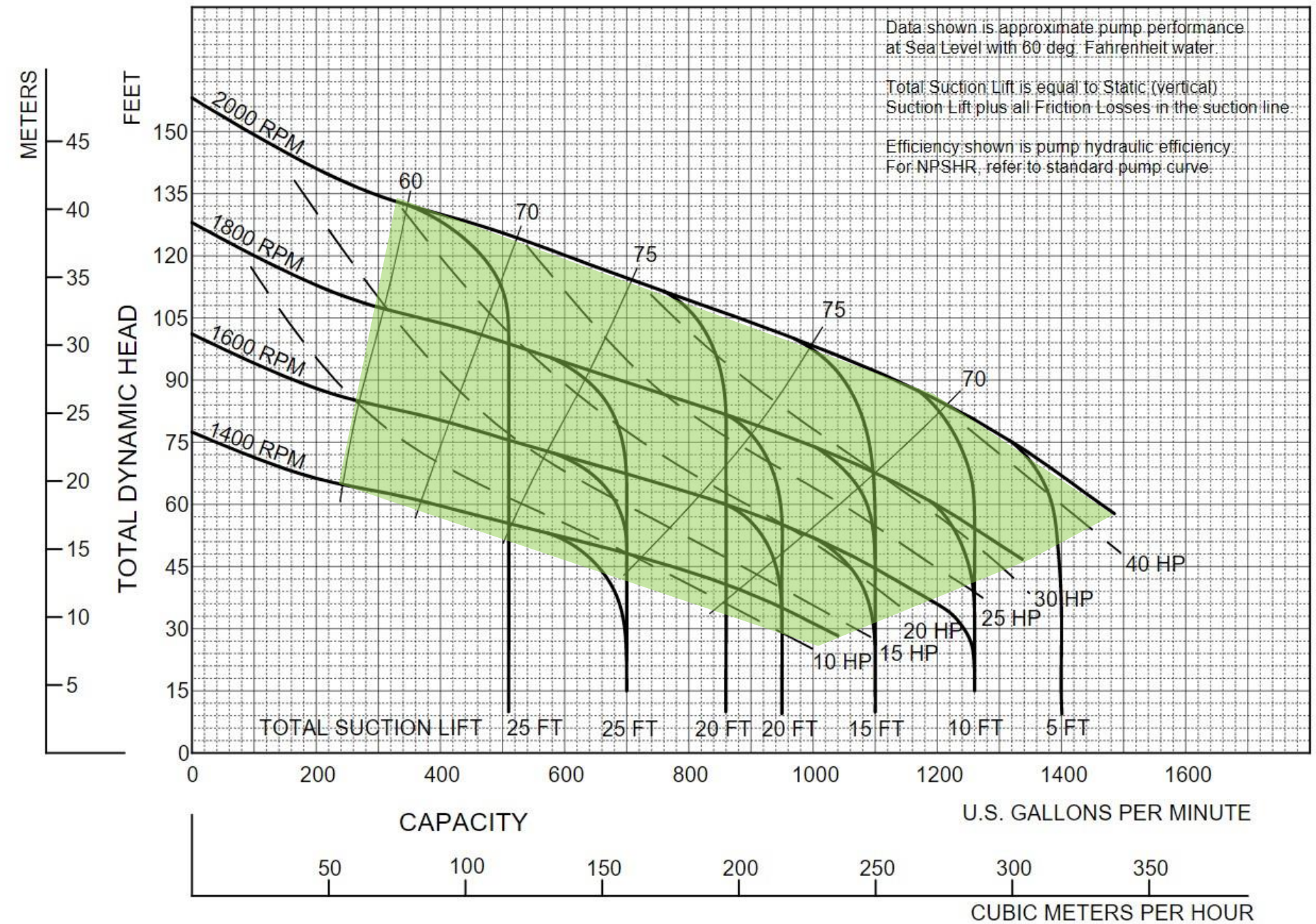
OPERATING LEVELS		
MIN FLOW	180 GPM	41 m ³ /h
MAX FLOW	1300 GPM	295 m ³ /h
DISCHARGE SIZE	4"	101.6 mm
SUCTION SIZE	4"	101.6 mm
SOLIDS HANDLING	3"	76.2 mm
MAX SPEED	1800 RPM	1800 RPM
SHUT-OFF HEAD	122'	37.2 m
BEP HEAD	81'	24.6 m
BEP FLOW	760 GPM	172.6 m ³ /h
BEP PERCENT	76%	76%

PARTS	STANDARD MATERIAL (ALL IRON)
WEAR RING	CAST IRON
IMPELLER	CAST IRON
VOLUTE	CAST IRON
SHAFT	STRESSPROOF STEEL
SHAFT SLEEVE	416 STAINLESS STEEL
BACKPLATE	CAST IRON
MECHANICAL SEAL	TUNGSTEN CARBIDE VS. SILICON CARBIDE
BEARING FRAME	CAST IRON

Feet x .305 = Meters
 Inches x 25.4 = Millimeters
 GPM x .227 = Cubic Meters/Hour
 GPM x 3.785 = Liters/Minute
 HP x .746 = KW

Speed	Impeller Dia.	Style	Solids Dia.	N _S	Suction	Discharge	No. vanes
VARIOUS	10.09"	ENCLOSED	3.0"	1900	6"	4"	2

SINGLE VOLUTE MOUNTING CONFIG.: F, EM



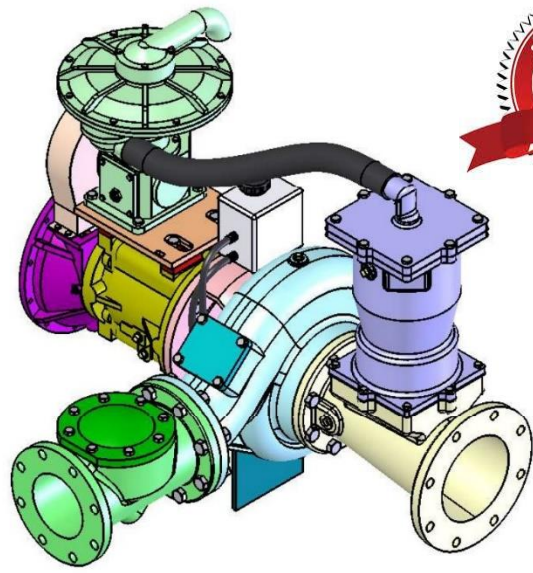
Add 1.5 HP for belt driven diaphragm vacuum pump. Performance curve does not include discharge check valve losses.

Performances shown are for cool water, frame mounted configuration with Cyclo Seal. Other liquids or mounting configurations may require performance adjustments.

6/18/02

Cornell Pump Company • Portland, Oregon	4NNT REDI • PRIME [®] - VARIOUS RPM
---	--

CORNELL 6NNT



OPERATING LEVELS

MAX FLOW:	2750 GPM	173.5 L/S
DISCHARGE SIZE:	6"	15 cm
SUCTION SIZE:	6"	15 cm
SOLIDS HANDLING:	3"	7.6 cm
MAX SPEED:	2100 RPM	2100 RPM
MAX HEAD:	150'	46 m

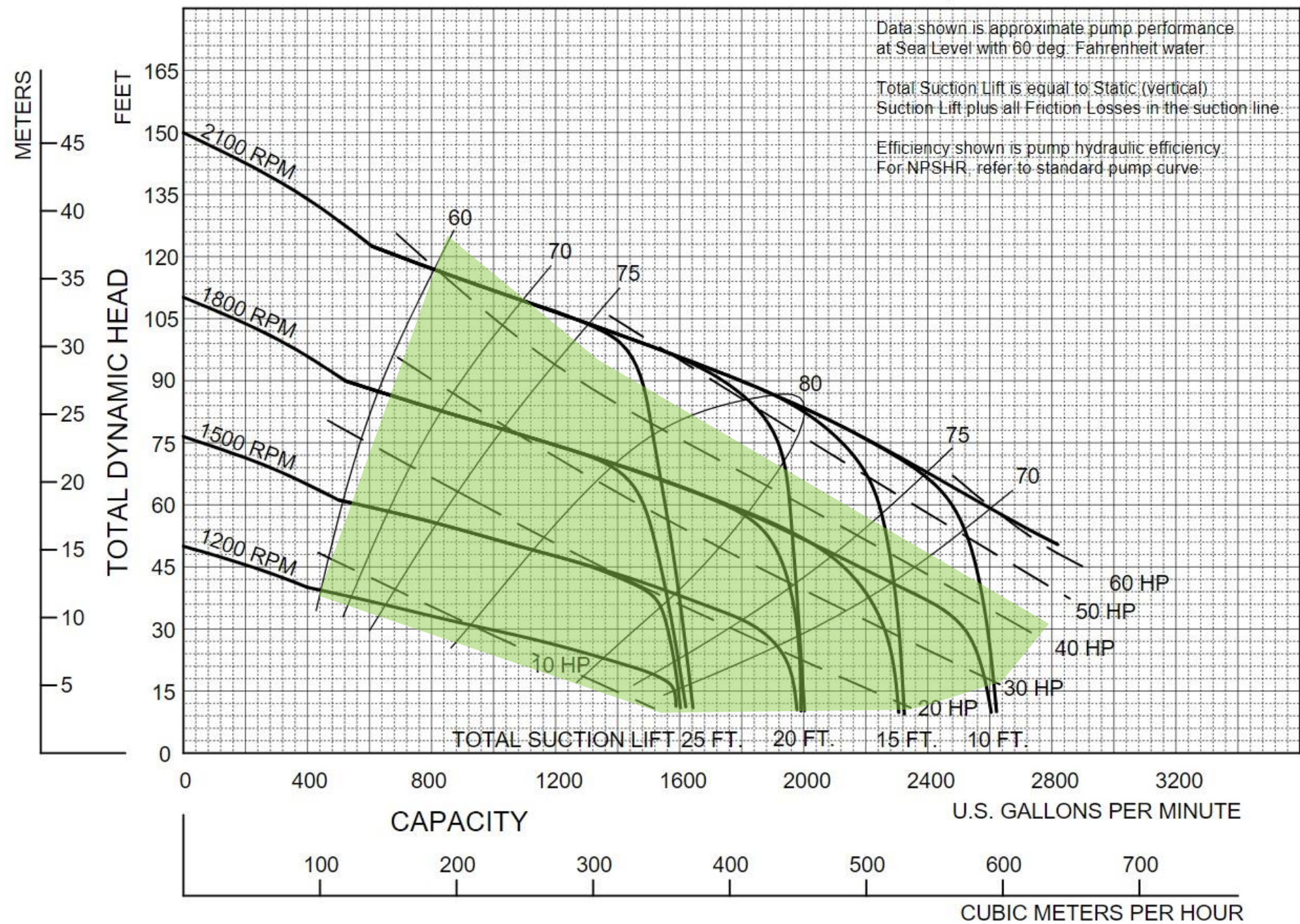
PARTS	STANDARD MATERIAL (ALL IRON)
WEAR RINGS	CAST IRON ASTM A48 Class 30
IMPELLER	CAST IRON ASTM A48 Class 30
VOLUTE	CAST IRON ASTM A48 Class 30
SHAFT	1144 Stress Proof Steel
SHAFT SLEEVE	416 Stainless Steel

Feet x .305 = Meters
 Inches x 25.4 = Millimeters
 GPM x .227 = Cubic Meters/Hour
 GPM x 3.785 = Liters/Minute
 HP x .746 = KW

Speed	Impeller Dia.	Style	Solids Dia.	N _S	Suction	Discharge	No. vanes
VARIOUS	10.09"	ENCLOSED	3"	3300	8"	6"	2

SINGLE VOLUTE

MOUNTING CONFIG.: F, EM



Add 1.5 HP for belt driven diaphragm vacuum pump. Performance curve does not include discharge check valve losses.

Performances shown are for cool water, frame mounted configuration with Cyclo Seal. Other liquids or mounting configurations may require performance adjustments.

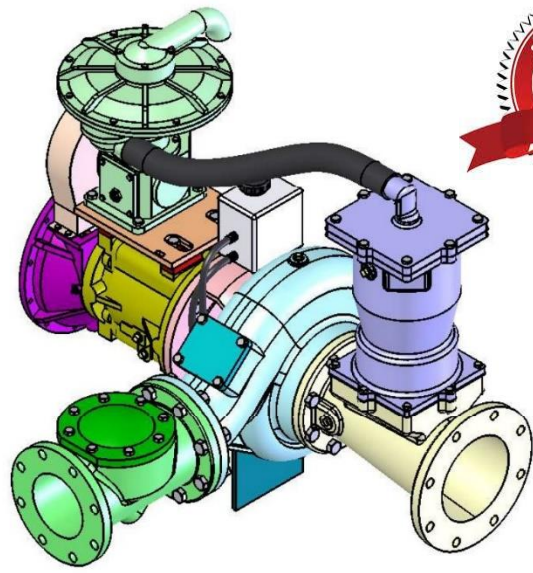


Cornell Pump Company • Portland, Oregon

6NNT REDI • PRIME® - VARIOUS RPM

5/13/02

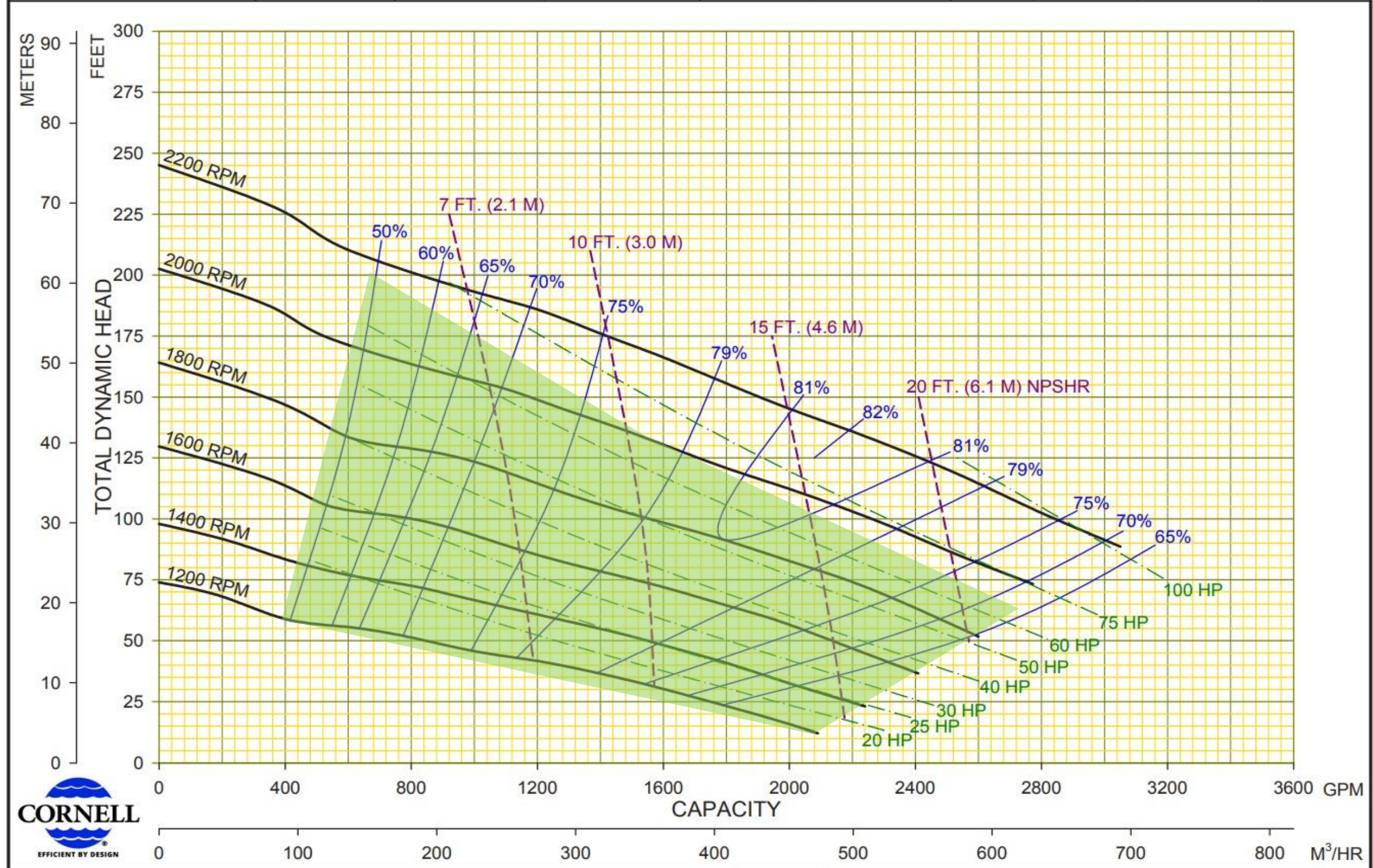
CORNELL 6612T



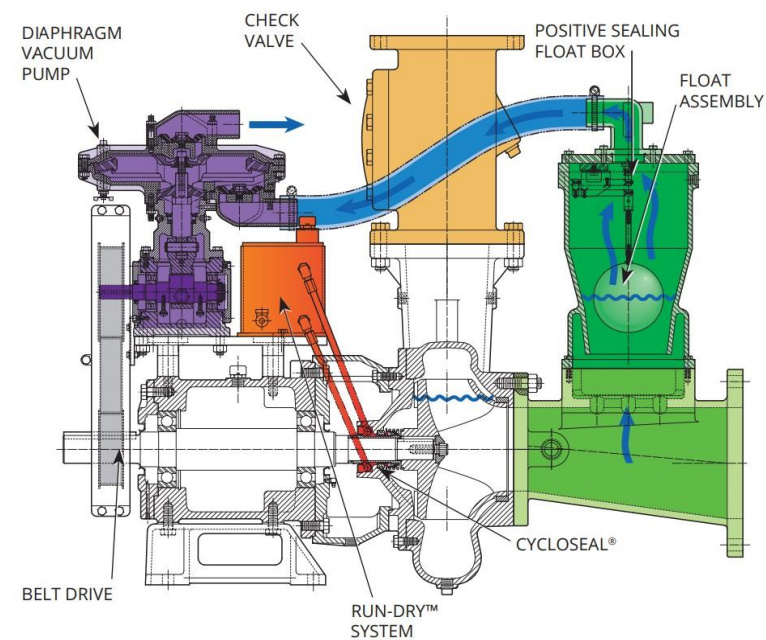
OPERATING LEVELS		
MIN FLOW	400 GPM	91 m ³ /h
MAX FLOW	3000 GPM	681 m ³ /h
DISCHARGE SIZE	6"	152 mm
SUCTION SIZE	6"	152 mm
SOLIDS HANDLING	3"	7.6 mm
MAX SPEED	2200 RPM	2200 RPM
SHUT-OFF HEAD	245'	75 m
BEP HEAD	135'	41 m
BEP FLOW	2200 GPM	499 m ³ /h
BEP PERCENT	82%	82%

PARTS	STANDARD MATERIAL (ALL IRON)
WEAR RING	CAST IRON
IMPELLER	DUCTILE IRON
VOLUTE	DUCTILE IRON
SHAFT	STRESSPROOF STEEL
SHAFT SLEEVE	416 STAINLESS STEEL
SUCTION COVER	DUCTILE IRON
BACKPLATE	DUCTILE IRON
MECHANICAL SEAL	SILICON CARBIDE VS. SILICON CARBIDE
BEARING FRAME	DUCTILE IRON

Speed	Impeller Dia.	Style	Volute	Solids Dia.	N _s	Suction	Discharge	No. Vanes
VARIOUS	12"	ENCLOSED	SINGLE	3"	2390	6"	6"	2



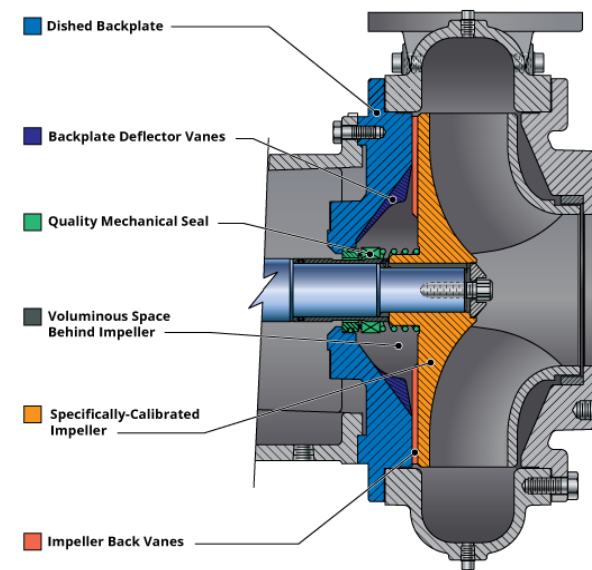
Cornell Pump Company • Clackamas, Oregon		02	03/10/15	CTG	MODEL : 6612T	CURVE NO: 6612TVA
		00	11/13/14	BE	TYPE : SOLIDS HANDLING	



PRIMING SYSTEM REDI-PRIME:

Cornell Redi-Prime pumps are designed with oversized suction 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. Redi-Prime is offered on all Cornell industrial pumps, and is available in virtually every other pump we manufacture as well

- Fully automatic priming and repriming
- Handles air/liquid mixtures with ease
- Rapidly primes and re-priming
- Environmentally safe priming system designed to prevent product leakage
- Handles large sized solids
- High suction lift capability up to 28 feet
- Premium hydraulic efficiency for reduced energy consumption



CORNELL RUN-DRY:

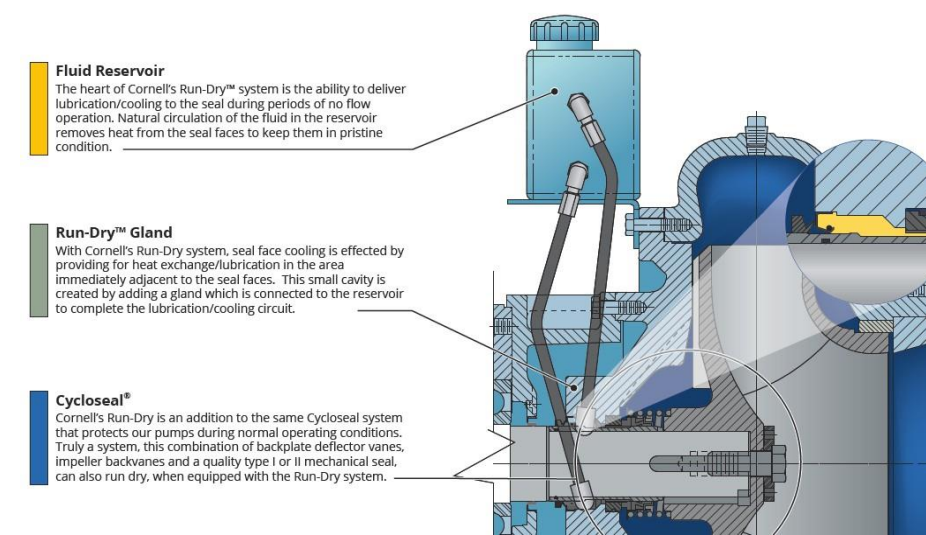
The Cornell Run Dry system is an inventive solution to provide continual lubrication of mechanical seals. Run-Dry provides a gland on the backside of the mechanical seal through which a lubricant can circulate providing lubrication and cooling to the hardened seal faces of the mechanical seal. The result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

Features & Benefits:

- Seal Protection
- Seal Cooling
- Easily Checked Lubricant Reservoir
- Peace of mind if pump runs dry

Dry operation could result from:

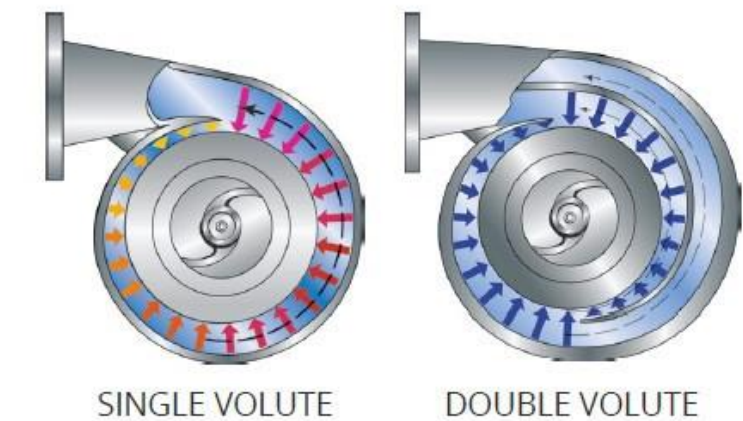
- Priming Activities
- Blockage in suction piping
- Deliberate operation of the pump in dry conditions
- Accidental loss of prime while pumping



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. The Cycloseal system is available on most Cornell Pumps.

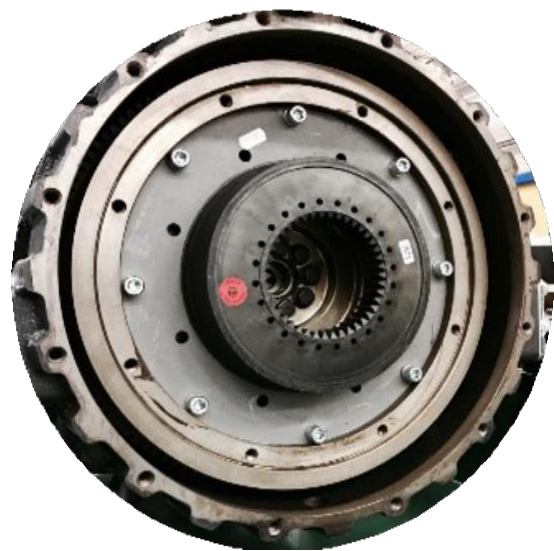
- Removes grit from pump seal compartment
- Extends pump seal life three times standard mechanical
- No drips/mess at application site
- Reduced maintenance costs
- Increased uptime and reliability
- Removes vapor



DOUBLE VOLUTE DESIGN

Cornell's double volute system minimizes radial thrust loads common with high capacity, high-head centrifugal pumps, by balancing the radial forces around the impeller.

- Minimizes radial thrust load
- Eliminates shaft flexing and fatigue
- Greatly extends life of packing/seal, wear rings and bearings
- Effectively meets high pressure and high volume requirements
- Increases bearing life



The **BoWex-ELASTIC® HE** is a flange coupling with high torsional flexibility consisting of a circular elastomer. The rubber element is made of vulcanized natural rubber and stressed for torque-to-bore ratio.

- It reduces the torsional vibrations occurring in the drive train as well as the cumulative forces and, due to different elastomer hardnesses.
- the flange coupling can be adjusted to the respective application for a resonance-free operation.
- The plug-in coupling hub is designed according to the BoWex curved-tooth gear principle and compensates for **axial**, **radial** and **angular shaft displacements**.



IMPORTANT NOTE:

All our machines are completely tested in our Test Room and delivered with the filling of multigrade diesel oil, engine cooling liquid, set and maintenance manual, C Certificate





PUMP CONFIGURATION

