



# 81022MPL-F

### AVAILABLE MOUNTING CONFIGURATIONS

- 81022MPL-RP-F REDI-PRIME FRAME MOUNT
- 81022MPL-F FRAME MOUNT
- 81022MPL-RP-EM REDI-PRIME ENGINE MOUNT
- 81022MPL-EM ENGINE MOUNT

### OPERATING LEVELS

<b>MIN FLOW</b>	1200 GPM	272.6 m <sup>3</sup> /h
<b>MAX FLOW</b>	7700 GPM	1748.9 m <sup>3</sup> /h
<b>DISCHARGE SIZE</b>	8"	203.2 mm
<b>SUCTION SIZE</b>	10"	254 mm
<b>SOLIDS HANDLING</b>	3.5"	88.9 mm
<b>MAX SPEED</b>	1800 RPM	1800 RPM
<b>SHUT-OFF HEAD</b>	590'	179.8 m
<b>BEP HEAD</b>	430'	131 m
<b>BEP FLOW</b>	5700 GPM	976.6 m <sup>3</sup> /h
<b>BEP PERCENT</b>	83%	83%



A typical picture of the pump is shown. Please contact Cornell Pump Company for further details. All information is approximate and for general guidance only.

PARTS	HIGH CHROME
<b>IMPELLER</b>	CHROME IRON ASTM A532 CLASS III
<b>VOLUTE</b>	CHROME IRON ASTM A532 CLASS III
<b>SHAFT</b>	STAINLESS STEEL 17-4 P.H. -H1075
<b>SHAFT SLEEVE</b>	STAINLESS STEEL 17-4 P.H. -H1025 CHROME PLATED
<b>SUCTION COVER</b>	DUCTILE IRON ASTM A536 100-70-03
<b>BACKPLATE</b>	CHROME IRON ASTM A532 CLASS III
<b>WEAR PLATE</b>	CHROME IRON ASTM A532 CLASS III
<b>MECHANICAL SEAL</b>	TUNGSTEN CARBIDE VS. SILICON CARBIDE W/ VITON ELASTOMERS
<b>BEARING FRAME</b>	CAST IRON ASTM A48 CLASS 30
<b>O-RINGS</b>	VITON

The 81022MPL pump is designed with Cornell's renowned quality and durability. It features a 8" discharge, 10" suction, enclosed, multivane impeller, and tangential volute. Cornell's patented Cycloseal® design is standard, with a Type 2 single mechanical seal, stainless steel hardware and tungsten carbide vs. silicon carbide seal faces for abrasion resistance.

- Heavy duty construction
- Enclosed impeller for higher efficiency
- Flow rates up to 7700 GPM / Heads up to 590'
- Handles solids up to 3.5"
- RunDry™ option (Indefinite run dry capability)
- Patented Cycloseal® design
- Redi-Prime® available for fully-automatic continuous priming
- Front adjustable wear plate
- Hardness > 600BHN wears better than standard cast iron



AGRICULTURE



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INDUSTRIAL



MINING



MUNICIPAL



OIL & GAS



REFRIGERATION



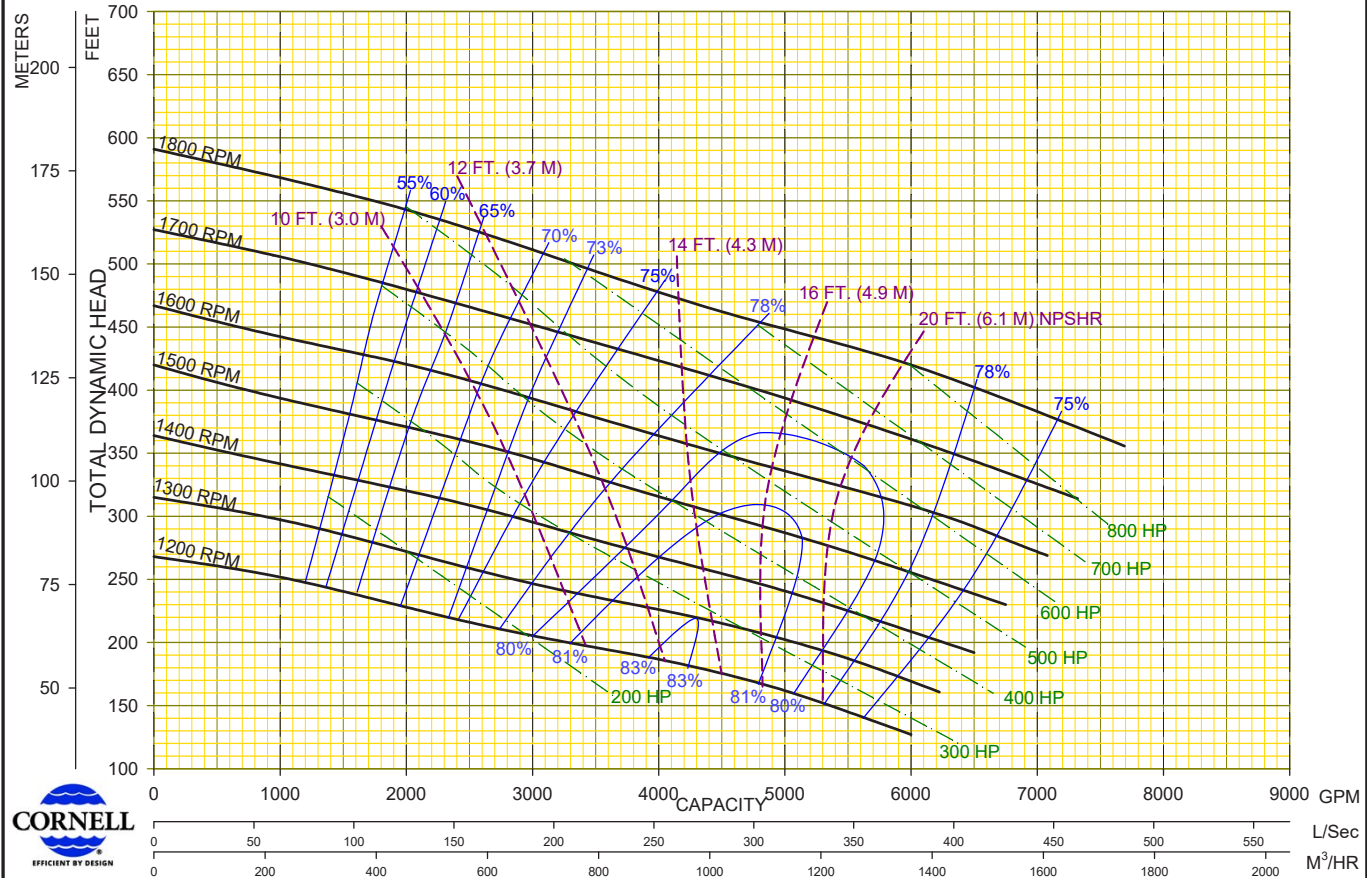
RENTAL



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Performances shown are for S.G. 1.0  
60°F water, frame mounted configuration.  
Other mounting styles or S.G.  
may require curve adjustments.

Speed	Impeller Dia.	Style	Volute	Solids Dia.	N <sub>s</sub>	Suction	Discharge	No. Vanes
VARIOUS	21.95"	ENCLOSED	DOUBLE	3.50"	1460	10"	8"	2



Cornell Pump Company • Clackamas, Oregon	00	07/18/19	FM	MODEL : 81022MPL	CURVE NO: <b>81022MPLVA</b>
	AA	12/28/18	MO		