

# 12NNF



### AVAILABLE MOUNTING CONFIGURATIONS

- 12NNF-F FRAME MOUNT
- 12NNF-RP-F REDI-PRIME FRAME MOUNT
- 12NNF-EM ENGINE MOUNT
- 12NNF-RP-EM REDI-PRIME ENGINE MOUNT
- 12NNF-VF VERTICAL FRAME MOUNT
- 12NNF-VC VERTICAL COUPLED
- 12NNF-CC CLOSE COUPLED
- 12NNF-VM VERTICAL CLOSE COUPLED

### OPERATING LEVELS

<b>MIN FLOW</b>	1300 GPM	295 m <sup>3</sup> /h
<b>MAX FLOW</b>	9600 GPM	2179 m <sup>3</sup> /h
<b>DISCHARGE SIZE</b>	12"	305 mm
<b>SUCTION SIZE</b>	12"	305 mm
<b>SOLIDS HANDLING</b>	3"	76.2 mm
<b>MAX SPEED</b>	1800 RPM	1800 RPM
<b>SHUT-OFF HEAD</b>	194'	59 m
<b>BEP HEAD</b>	132'	40 m
<b>BEP FLOW</b>	6400 GPM	1453 m <sup>3</sup> /h
<b>BEP PERCENT</b>	84%	84%



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	STANDARD MATERIAL (ALL IRON)
<b>WEAR RING</b>	CAST IRON
<b>IMPELLER</b>	DUCTILE IRON
<b>VOLUTE</b>	DUCTILE IRON
<b>SHAFT</b>	4140/42 BD
<b>SHAFT SLEEVE</b>	416 SS
<b>SUCTION COVER</b>	DUCTILE IRON
<b>BEARING FRAME</b>	CAST IRON
<b>O-RINGS</b>	BUNA N

The 12NNF pump is designed with Cornell's renowned quality and durability. It features a 12" discharge, 12" suction, and enclosed impeller. Cornell's patented Cycloseal® 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. Bearings are heavy-duty, grease-lubricated deep groove ball bearings. F18 bearing frame is standard.

- Heavy-duty bearing frame
- Patented Cycloseal design
- Long Bearing life
- Replaceable suction wear ring and shaft sleeve
- Heavy duty construction
- Handles solids up to 3"



AGRICULTURE



FOOD



INDUSTRIAL



MINING



MUNICIPAL



OIL & GAS



REFRIGERATION



RENTAL

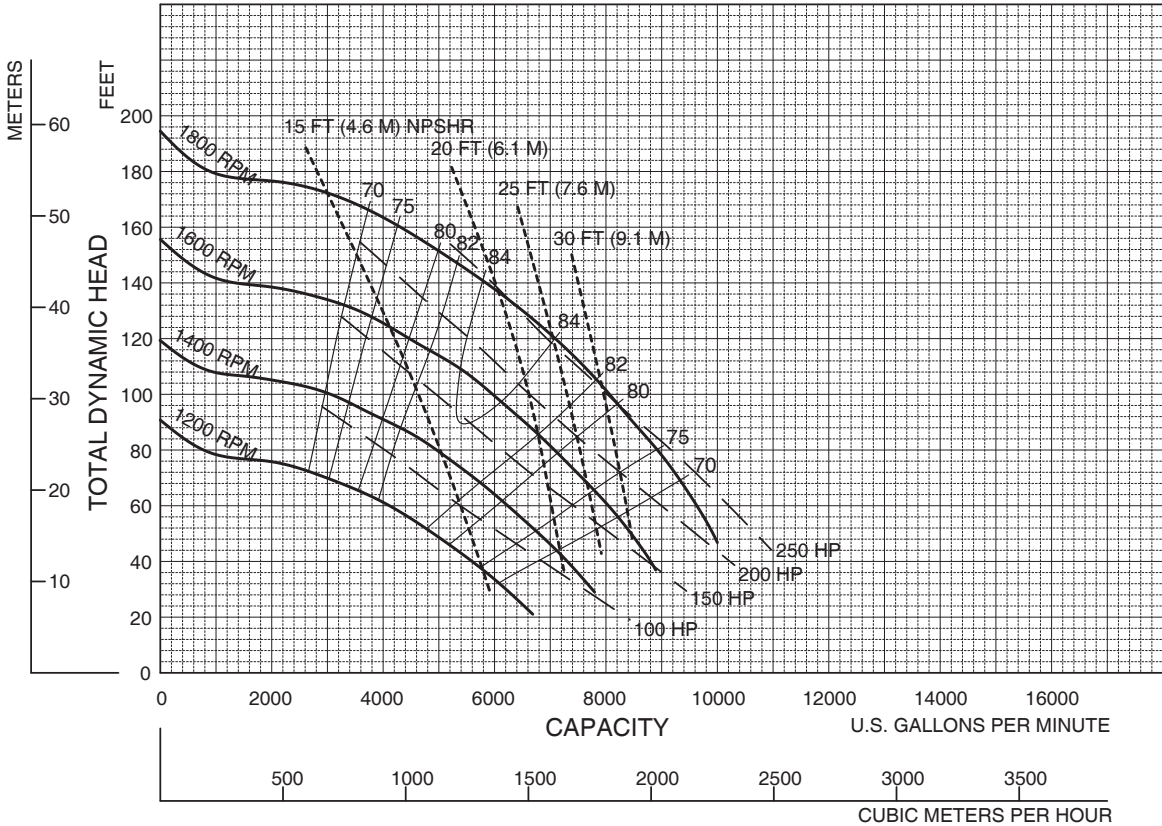
# 12NNF



Speed	Impeller Dia.	Style	Solids Dia.	N <sub>S</sub>	Suction	Discharge	No. vanes
VARIOUS	14" @ 0°	ENCLOSED	3"	3800	12"	12"	4

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

SINGLE VOLUTE MOUNTING CONFIG.: CC, VM, F, VF, EM, VC



Performances shown are for cool water, close-coupled electric configuration with Cyclo Seal. Other mounting styles or liquids may require horsepower and/or performance adjustments.

SUPERCEDES 04/05/02

12NNFVA

05/22/02



Cornell Pump Company • Portland, Oregon

12NNF - VARIOUS RPM