



3412SM



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.

AVAILABLE MOUNTING CONFIGURATIONS	
3412SM-F FRAME MOUNT	

OPERATING LEVELS		
MIN FLOW	200 GPM	45.4 m ³ /h
MAX FLOW	1500 GPM	340.7 m ³ /h
DISCHARGE SIZE	3"	76.2 mm
SUCTION SIZE	4"	101.6 mm
SOLIDS HANDLING	1.1"	27.9 mm
MAX SPEED	2700 RPM	2700 RPM
SHUT-OFF HEAD	414'	126.2 m
BEP HEAD	352'	107 m
BEP FLOW	1400 GPM	318 m ³ /h
BEP PERCENT	64%	64%

PARTS	STANDARD MATERIAL (CHROME IRON)
IMPELLER	CHROME IRON
VOLUTE	CHROME IRON
VOLUTE CASING	CHROME IRON
SHAFT	4140 STEEL
SHAFT SLEEVE	420 STAINLESS STEEL
SUCTION COVER	DUCTILE IRON
WEAR PLATE	CHROME IRON
BACKPLATE	CHROME IRON
EXPELLER	CHROME IRON

The 3412SM pump is designed with Cornell's renowned quality and durability. It features a 3" discharge, 4" suction, and enclosed impeller. The pump body construction is high-chrome white iron. Cornell's patented Cycloseal[®] design with Cycloguard[™] is standard, with a Type 2 single mechanical seal with Buna-N elastomers, and tungsten carbide vs. silicon carbide seal faces for abrasion resistance. The bearing frame includes tapered roller bearings. Multiple gland seal options: Cycloseal - standard. Optional - Packed gland arrangements, expeller seal and double mechanical seal.

- Back pull-out design
- Enclosed impeller for higher efficiency
- Grease lubrication standard - oil lubrication optional
- Heavy-duty bearing frame
- Patented Cycloseal design
- RunDry[™] option (Intermittent run dry capability)
- CycloGuard[™] to reduce inlet recirculation
- Infinitely variable volute and discharge position
- High pressure capabilities ideal for series/multistage pumping applications



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REFRIGERATION



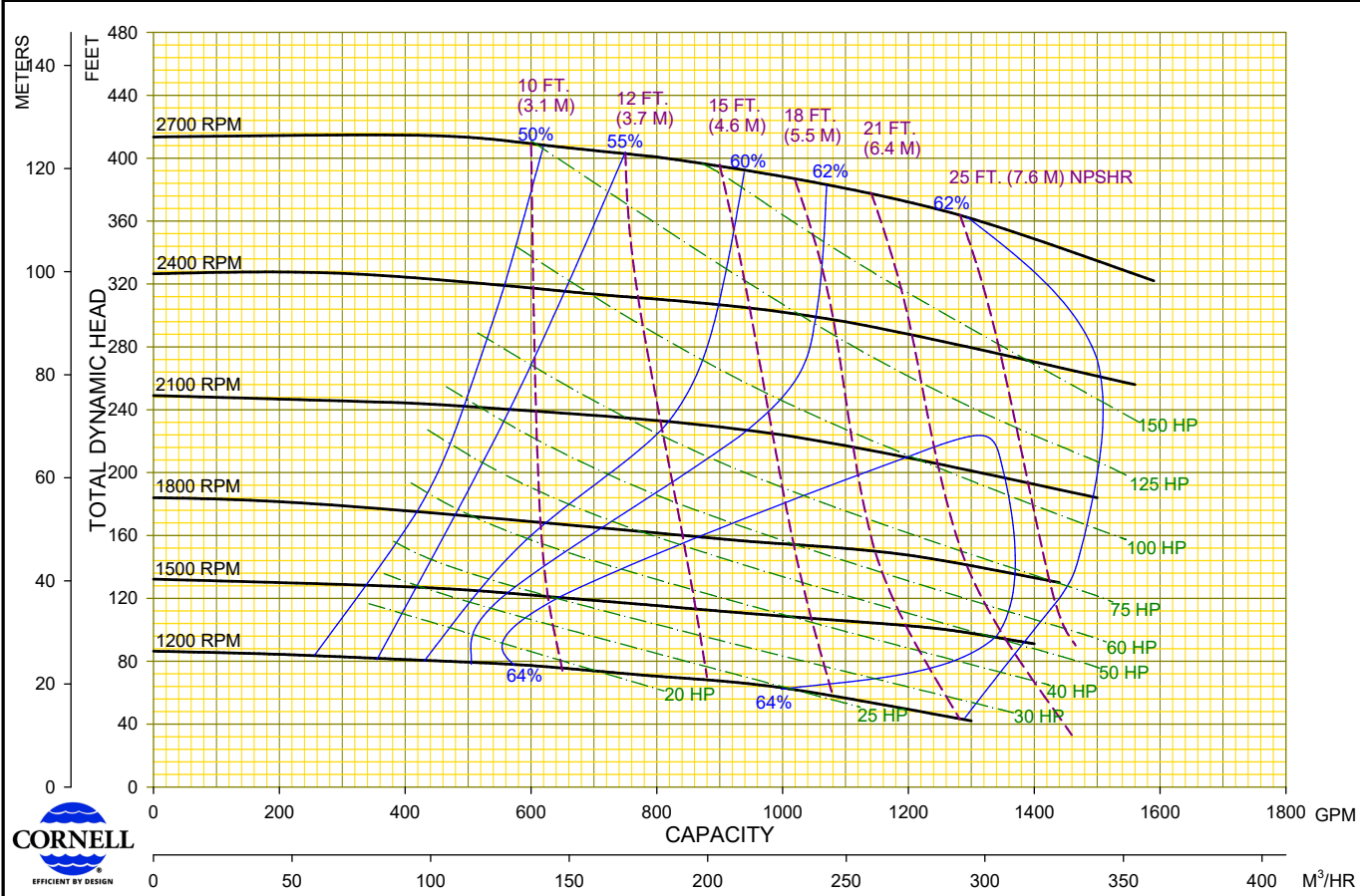
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Performances shown are for S.G. 1.0
60°F water, frame-mount configuration.
Other mounting styles or S.G.
may require curve adjustments.

Speed	Impeller Dia.	Style	Volute	Solids Dia.	N _s	Suction	Discharge	No. Vanes
VARIOUS	12.00" (305mm)	ENCLOSED	SINGLE	1.1" (28mm)	1200	4" (100mm)	3" (75mm)	5



Cornell Pump Company • Clackamas, Oregon	00	10/01/18	FM	MODEL: 3412SM	CURVE NO: 3412SMVA
	AA	11/16/15	BE	TYPE: SLURRY	