DATA SHEET

4414T-F18

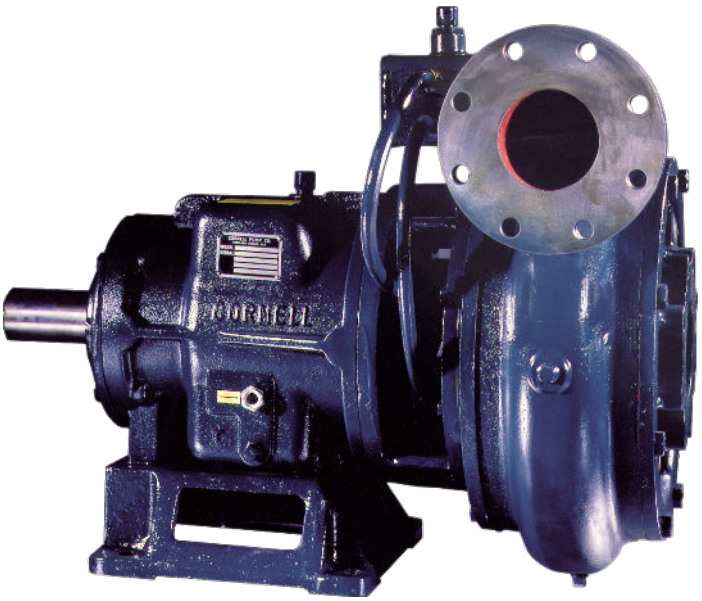
*NOW AVAILABLE IN CD4MCu

AVAILABLE MOUNTING CONFIGURATIONS

4414T-F FRAME MOUNT
4414T-RP-F REDI-PRIME FRAME MOUNT
4414T-EM ENGINE MOUNT
4414T-RP-EM REDI-PRIME ENGINE MOUNT
4414T-VC VERTICAL COUPLED
4414T-VF VERTICAL FRAME MOUNT

OPERATING LEVELS

MIN FLOW	200 GPM	45.4 m^3/h
MAX FLOW	1300 GPM	295 m^3/h
DISCHARGE SIZE	4"	102 mm
SUCTION SIZE	4"	102 mm
SOLIDS HANDLING	3"	76.2mm mm
MAX SPEED	1800 RPM	1800 RPM
SHUT-OFF HEAD	252'	76.8 m
BEP HEAD	175'	53 m
BEP FLOW	1300 GPM	295 m^3/h
BEP PERCENT	78%	78%



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)	CD4MCU
WEAR RING	CAST IRON	CD4MCU
IMPELLER	CAST IRON	CD4MCU
VOLUTE	DUCTILE IRON	CD4MCU
SHAFT	STRESSPROOF STEEL	17-4PH
SHAFT SLEEVE	416 STAINLESS STEEL	CD4MCU
BACKPLATE	CAST IRON	CD4MCU
MECHANICAL SEAL	TUNGSTEN CARBIDE VS. SILICON CARBIDE	TUNGSTEN CARBIDE VS. SILICON CARBIDE
BEARING FRAME	CAST IRON	CAST IRON

The 4414T pump is designed with Cornell's renowned quality and durability. It features a 4" discharge, 4" suction, and enclosed impeller. Available in 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.

- High Efficiency
- Cycloseal Sealing System
- Low NPSHr
- Robust Construction
- Long Bearing life
- Can be fitted with cutters without dimension changes
- Two year warranty

AGRICULTURE FOOD INDUSTRIAL MINING MUNICIPAL OIL & GAS REFRIGERATION RENTAL

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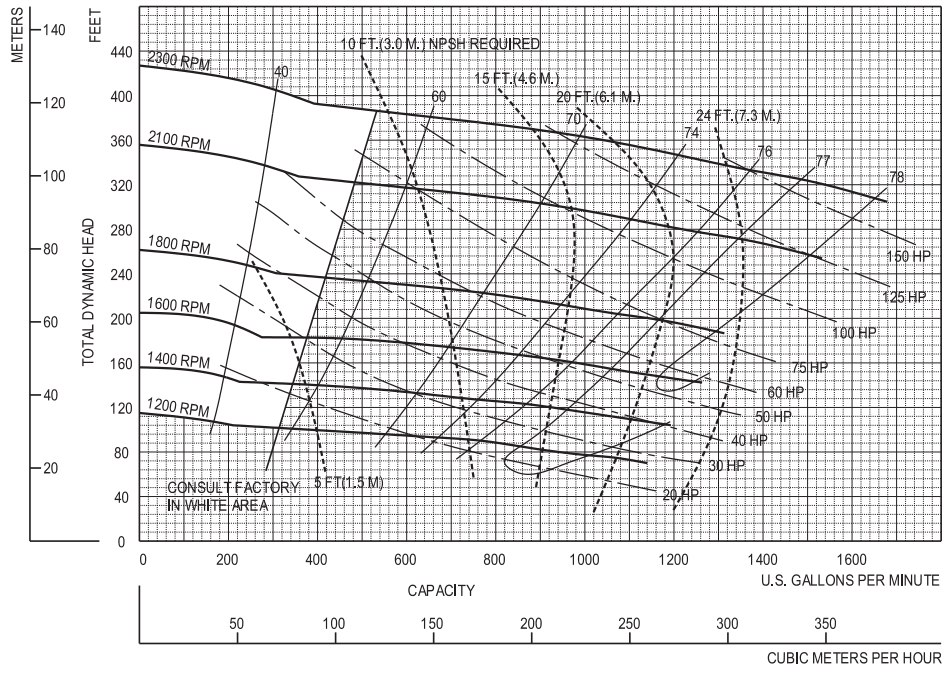
Speed	Impeller Dia.	Style	Solids Dia.	N_S	Suction	Discharge	No. vanes
VARIOUS	14"	ENCLOSED	3'	1310	4"	4"	2

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 configurations with Cartridge Seal®. Other mounting configurations, seal arrangements or liquids may require horsepower and/or performance adjustments.

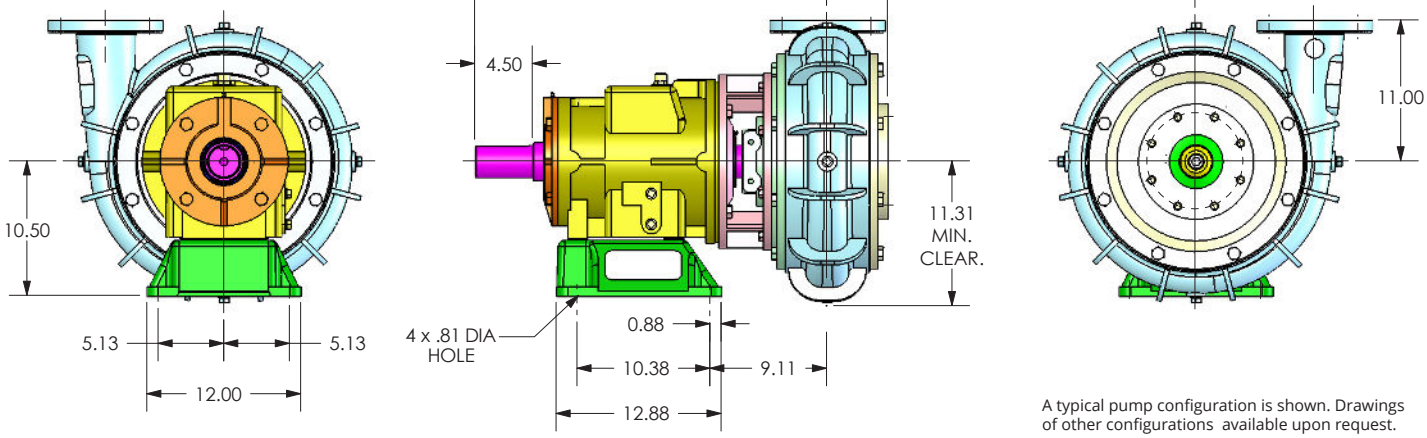
3/18/13

NEW PAGE

4414TV1

Cornell Pump Company • Portland, Oregon

4414T - VARIOUS RPM



A typical pump configuration is shown. Drawings of other configurations available upon request.

DS196-1511-GE