DATA SHEET

6YB-F

AVAILABLE MOUNTING CONFIGURATIONS

6YB-RP-F REDI-PRIME FRAME MOUNT
6YB-RP-EM REDI-PRIME ENGINE MOUNT
6YB-F FRAME MOUNT
6YB-EM ENGINE MOUNT

OPERATING LEVELS

MIN FLOW	800 GPM	181.7 m3/h
MAX FLOW	4,125 GPM	936.89 m3/h
DISCHARGE SIZE	6”	152.4 mm
SUCTION SIZE	10”	254 mm
MAX SPEED	2,400 RPM	2,400 RPM
SOLIDS HANDLING	.75”	19.05 mm
MAX PRESSURE	175 PSID	1,206.58 kPa
SHUT-OFF HEAD	240’ @ 103.9 PSID	73.15 m @ 716.37 kPa
BEP HEAD	155’ @ 67.1 PSID	47.24 m @ 462.64 kPa
BEP FLOW	3,350 GPM	760.87 m3/h
BEP EFFICIENCY	85%	85%

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	CAST IRON BRONZE FITTED	ALL IRON
WEAR RING	BRONZE SAE 660	CAST IRON ASTM A48 CL30
IMPELLER	BRONZE SAE 40	CAST IRON ASTM A48 CL30
VOLUTE	CAST IRON ASTM A48 CL30	CAST IRON ASTM A48 CL30
SHAFT	SAE 1144 “STRESSPROOF”	SAE 1144 “STRESSPROOF”
SHAFT SLEEVE	BRONZE SAE 660	303 STAINLESS STEEL
PACKING	GRAPHITED ACRYLIC	GRAPHITED ACRYLIC
MECHANICAL SEAL	T-1, BUNA-CARBON/CERAMIC	T-1, BUNA-CARBON/CERAMIC
BACKPLATE	CAST IRON ASTM A48 CL30	CAST IRON ASTM A48 CL30
BEARING FRAME	CAST IRON ASTM A48 CL30	CAST IRON ASTM A48 CL30

The 6YB pump is designed with Cornell’s renowned quality and durability. It features a 6” discharge and a 10” suction, enclosed multi-vane impeller, and flanged tangential double volute. Available in standard Cast-Iron Bronze Fitted or All Iron. Optional Redi-Prime or Venturi Prime priming system is available. Pump end mounts to F5, EM5, F16, and EM16 bearing frames. Bearings are heavy-duty, grease lubricated, single ball bearings with a minimum of 20,000 hours bearing life.

- Industry-leading two-year warranty
- Industry-leading efficiencies
- External hydraulic balance line
- Replaceable suction wear ring and shaft sleeve
- Heavy-duty modular bearing frame
- Grease lubrication standard - oil optional
- Large shaft and bearings
- RunDry™ option (Indefinite run dry capability)
- Optional Cycloseal® with T-1 mechanical seal
- SAE #3, 4 & 5 engine mount available

AGRICULTURE FOOD INDUSTRIAL MINING MUNICIPAL OIL & GAS REFRIGERATION RENTAL

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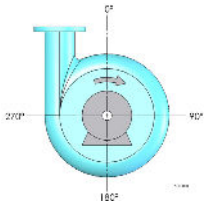
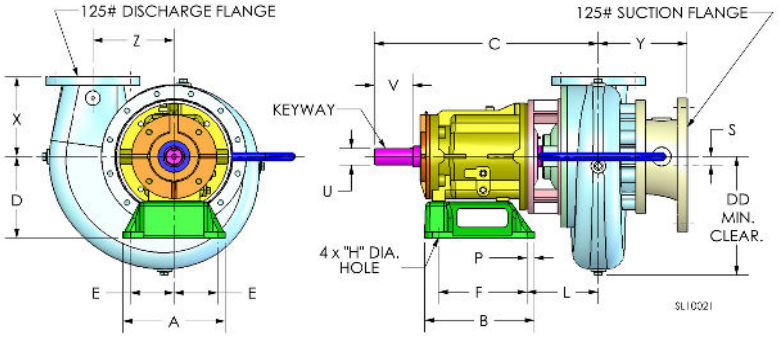




NOTES:

Discharge positions are viewed from the drive end. Standard increments of discharge position are shown in the chart below (DISCH INCR). Consult factory for other discharge positions.

NOTES:

1. "V" Dimension is maximum useable shaft.
2. Frame mounting foot thickness is .75".
3. Flange connection dimension can vary ± .12 inch.
4. Do not use for construction unless certified.

PUMP DIMENSIONS

MODEL	FRAME	CONNECTION DISCH.	CONNECTION SUCT.	DISCH. INCR.	A	B	C	D	DD	E	F	H	L	P	S	U	V	X	Y	Z	KEYWAY
6YB	F16	6	10	90°	12	12.88	29.69	9.75	14.75	5.12	10.38	0.81	11.81	0.88	1	2	4.5	9.5	10.41	9.5	.50X.25

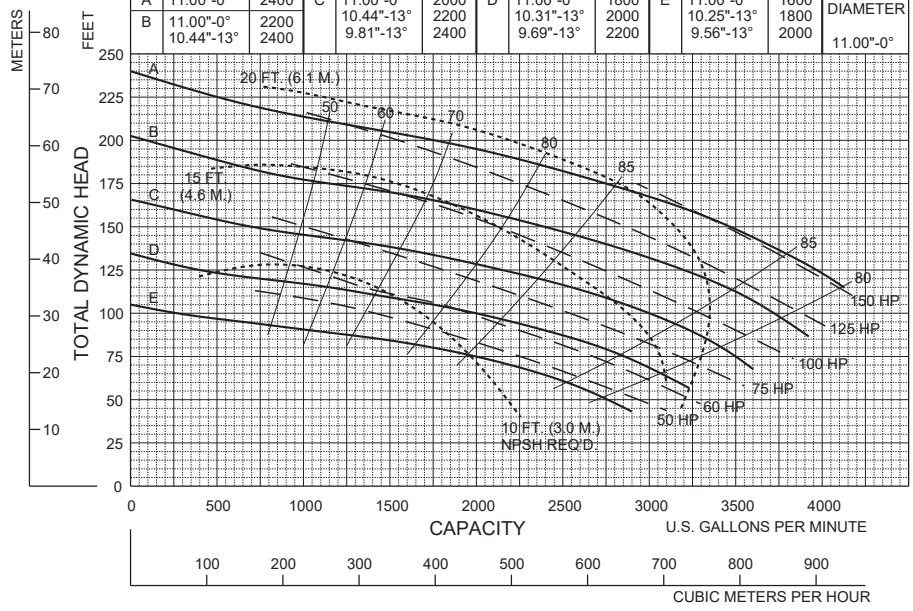
Feet x .305 = Meters
Inches x 25.4 = Millimeters
GPM x .227 = Cubic Meters/Hour
GPM x 3.785 = Liters/Minute
HP x .746 = KW

Speed	Impeller Dia.	Style	Solids Dia.	N_S	Suction	Discharge	No. vanes
VARIOUS	VARIOUS	ENCLOSED	.75"	3200	10"	6"	6

DOUBLE VOLUTE

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

HQ	TRIM	RPM	HQ	TRIM	RPM	HQ	TRIM	RPM	HQ	TRIM	RPM	FULL DIAMETER
A	11.00"-0°	2400	C	11.00"-0°	2000	D	11.00"-0°	1800	E	11.00"-0°	1600	
B	11.00"-0° 10.44"-13°	2200 2400		10.44"-13° 9.81"-13°	2200 2400		10.31"-13° 9.69"-13°	2000 2200		10.25"-13° 9.56"-13°	1800 2000	11.00"-0°



Performances shown are for cool water, close-coupled design unless otherwise noted. Consult factory. Other mounting styles or liquids may require horsepower and/or performance adjustments.

9/15/99

NEW PAGE

6YBVA

Cornell Pump Company • Portland, Oregon

6YB - VARIOUS RPM

DS6YB-F-070921