DATA SHEET

5RB-F

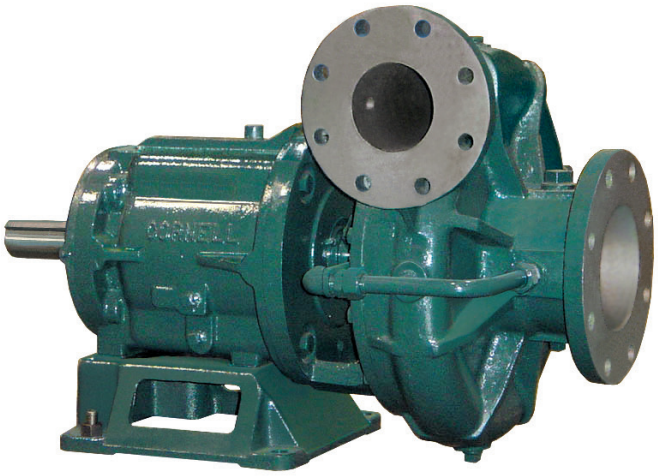
AVAILABLE MOUNTING CONFIGURATIONS

5RB-F FRAME MOUNT
5RB-RP-F REDI-PRIME FRAME MOUNT
5RB-EM ENGINE MOUNT
5RB-RP-EM REDI-PRIME ENGINE MOUNT
5RB-VF VERTICAL FRAME MOUNT
5RB-VC VERTICAL COUPLED

OPERATING LEVELS

MIN FLOW	265 GPM	60.1 m^3/h
MAX FLOW	3000 GPM	681 m^3/h
DISCHARGE SIZE	5"	127 mm
SUCTION SIZE	8"	203 mm
SOLIDS HANDLING	1"	25.4 mm
MAX SPEED	2400 RPM	2400 RPM
SHUT-OFF HEAD	370'	113 m
MAX WORKING PRESSURE	155 PSI	1069 kPa
BEP HEAD	285'	86.9 m
BEP FLOW	2200 GPM	500 m^3/h
BEP PERCENT	86%	86%

PARTS	STANDARD MATERIAL (CAST IRON BRONZE FITTED)
WEAR RINGS	Bronze SAE 660
IMPELLER	Bronze SAE 40
VOLUTE	Cast Iron ASTM A48 CL30
SHAFT	SAE 1144 Stressproof Steel
SHAFT SLEEVE	Bronze SAE 660
BACKPLATE	Cast Iron ASTM A48 CL30
PACKING (STANDARD)	Graphited Acrylic
MECHANICAL SEAL (OPTIONAL)	Single T-1, Buna, Carbon/ Ceramic
BEARING FRAME	Cast Iron ASTM A48 CL30



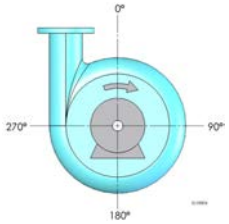
A typical picture of the pump is shown. Please contact Cornell Pump Company for further details. All information is approximate and for general guidance only.

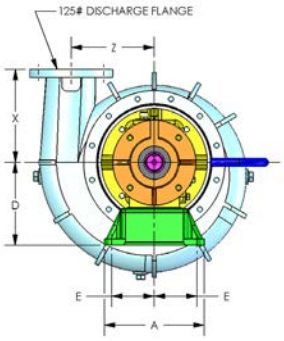
The 5RB general purpose pump is designed with Cornell's renowned quality and durability. It features a 5" discharge and a 8" suction, enclosed multi-vane impeller and flanged tangential double volute. The pump end mounts to F16, F18, EM16, EM18, VC16, VC18, VF16 and VF18 bearing frames. Optional Redi-Prime or Venturi Prime priming system is available. Bearings are heavy-duty, grease lubricated, single ball bearings with a minimum of 20,000 hours bearing life.

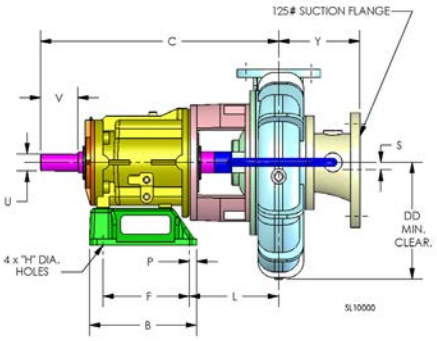
- External hydraulic balance line
- Back pullout design
- Replaceable hub & suction wear rings
- Replaceable shaft sleeve
- High efficiency hydraulics
- Low operating costs
- Modular bearing frame
- Long B-10 bearing life (20,000 hour min.)
- Two year warranty
- Optional Cycloseal® with type 1 mechanical seal
- Optional Run-Dry™ lubrication system
- Grease lubrication standard - oil lubrication optional
- SAE #1, 2, 3 & 4 engine mount available to fit
- Oversized shaft and bearings
- Double volute

AGRICULTURE FOOD INDUSTRIAL MINING MUNICIPAL OIL & GAS REFRIGERATION RENTAL

5RB-F







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.

PUMP DIMENSIONS

MODEL	FRAME	CONNECTION DISCH.	CONNECTION SUCT.	DISCH. INC.	A	B	C	D	DD	E	F	H	L	P	S	U	V	X	Y	Z	KEYWAY
5RB	F16	5	8	90°	12	12.88	28.62	9.75	14.25	5.12	10.38	0.81	10.77	0.88	0.88	2	4.5	11	9.78	10	.50X.25

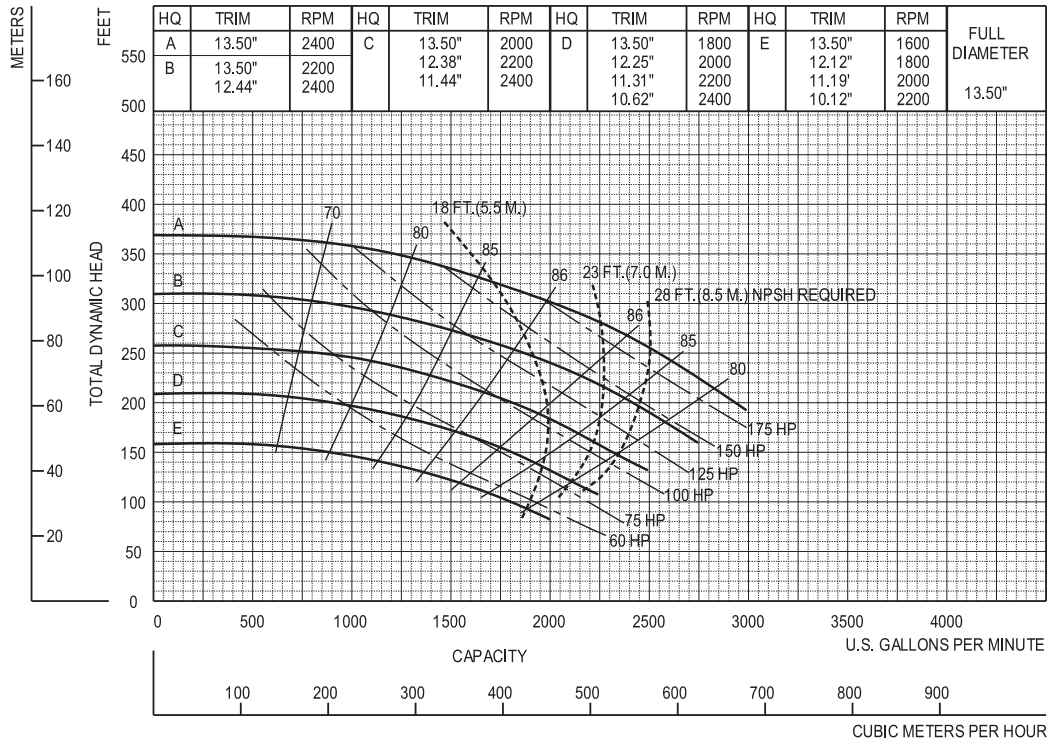
Feet x .305 = Meters
Inches x 25.4 = Millimeters
GPM x .227 = Cubic Meters/Hour
GPM x 3.785 = Liters/Minute
HP x .746 = KW

Speed	Impeller Dia.	Style	Solids Dia.	N_S	Suction	Discharge	No. vanes
VARIOUS	VARIOUS	ENCLOSED	1"	1654	8"	5"	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	13.50"	2400	C	13.50"	2000	D	13.50"	1800	E	13.50"	1600	
B	13.50" 12.44"	2200 2400		12.38" 11.44"	2200 2400		12.25" 11.31" 10.62"	2000 2200 2400		12.12" 11.19' 10.12"	1800 2000 2200	13.50"



Performances shown are for cool water, close-coupled electric configuration with Cycloseal.® Other mounting configurations, seal arrangements or liquids may require horsepower and/or performance adjustments.

12/11/12

NEW PAGE

5RBVA

Cornell Pump Company • Portland, Oregon

5RB - VARIOUS RPM

DS5RBF-103014