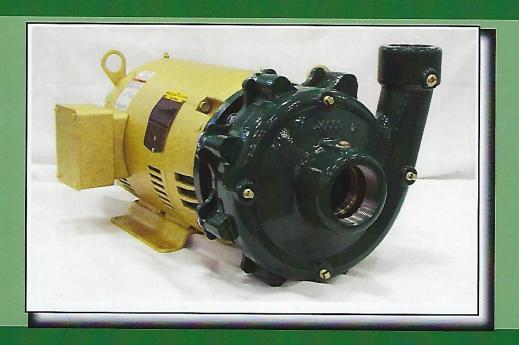
RUSSELL PUMP

Model A720

End Suction, Close Coupled, Bronze Fitted, Centrifugal Pump



Typical Applications
General Purpose, OEM, Boosters,
Cooling Towers, Boiler Feed,
Process Fluids, HVAC, Irrigation,
Hot and Chilled Water Circulation

Russell Pump and Engineering Inc. 102 W. Chicago Street Albion, IA 50005 641-488-2319

Design Features

CASING

Constructed as ASTM A48 class 30 cast iron. The discharge can be mounted in any 90° position. Drain and air ports are also positioned every 90°, 1/4 npt suction and discharge tappings are standard. Back pull out design allows the pump to be serviced without disturbing the piping. The volute was designed to maximize hydraulic efficiency.

MECHANICAL SEAL

Type 21 buna-n seal is rated to 225°F and pressure to 175PSI. Carbon seal face mates with the cermaic seat providing years of trouble free service. Alternate seals available upon request.

IMPELLER

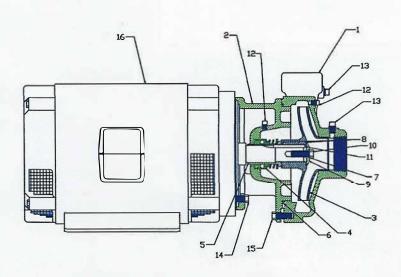
The hydraulic design of the impeller maximize pressure and gpm while minimizing horsepower. The enclosed impeller is made of cast bronze.

ADAPTER

The precise machining of the adapter allows for easy assembly of the pump. A 1/8 npt hole is provided if a seal flush line is added. Construction consists of ASTM A48 class 30 cast iron.

MOTOR

The NEMA JM frame motor utilizes a high carbon steel shaft. The motor's heavy duty ball bearings withstand axial and radial thrust loads with no problem. Standard Enclosure type is drip proof but alternates are available.



1	CASING A720	CLASS 30 CAST IRUN BRASS	40059	1
	ADAPTER AZ 143-184 M ADAPTER AZ 213-215 M ADAPTER AZ 254-256 M	CLASS 30 CAST IRON	40010 40011 40055	
2	ADAPTER AZ 143-184 JM ADAPTER AZ 213-215 JM ADAPTER AZ 213-215 JM	BRASS	40013 40013	1
3	IMPELLER A720	SILICON BRONZE	30011	
	IMPELLER A720 254-326JM	SILICON BRONZE	30012	1
	MECHANICAL SEAL 143-215JM	BUNA-N EPI VITON	S-103 S-104 S-105	
4	MECHANICAL SEAL 254-326JM	BUNA-N VITON	\$ 105	1
5	SLEEVE 143-215.JM	BRASS	10000	1
6	D-RING CASING	BUNA-N VITON	\$=148 \$=148 \$=150	1
7	D-RING WASHER 143-215JM	ŘÚŇÁ-N VTTÚN	\$ 4	
	D-RING WASHER	RUNA-N VITON	\$=143	1
8	D-RING IMPELLER 143-215JM	BUNA-N EPT VIIIN	S=135 S=136	1
	D-RING IMPELLER	BUNA-N VITUN	\$ 39	12
9	IMPELLER WASHER 143-215.JM IMPELLER WASHER	BRASS	10002	1
	IMPELLER CAP SCREW	0.40 46 V 4 PD+00	10003	-
10	IMPELLER CAP SCREW	3/8-16 X 1 BRASS	75020	1
	254-326 JM KEY 143-215 JM		10004	+
11	KEY 254-326JM	STAINLESS STEEL 1/8 NPT BRASS	69845	1
13	CAP SCREW 143-184JM	1/4 NPT BRASS 3/8-16 X 1 STEEL	68585	þ
14	CAP SCREW 213-215JM	1/2-13 X 1 /4 STEEL	19957	14
18	CAP SCREW MUTUR	THE TO VI THE STEEL	12208	ti

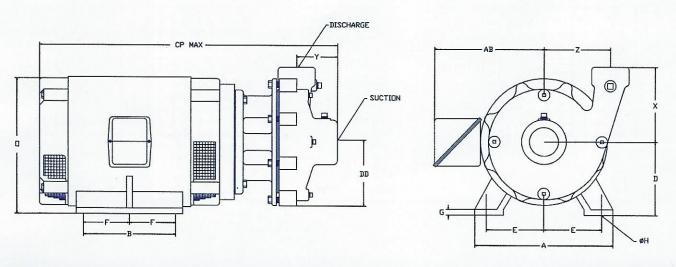
LIMITATIONS

MAXIMUM WORKING PRESSURE - 175PSI
MAXIMUM GALLONS PER MINUTE - 370
MAXIMUM HEAD PRODUCED - 270FT.
RPM - 3500 & 1

RPM - 3500 & 1750 MAXIMUM SEAL TEMP BUNA-N - 225°

EPT - 300° VITON - 400°

MAXIMUM HORSEPOWER - 20



FRAME SIZE	SUCTION	DISCHARGE	A	AB	В	CP	В	DD	E	F	G	Н		X	Y	Z
143JM	2 1/2 NPT	2 NPT	7	5 1/4	5 15/16	20 7/32	0.440	5 1/2	2 3/4	2	1/8 11/32		6 7/8		12	
145JM						20 1/4	3 1/2			2 1/2		11/32				
182JM			9	5 7/8	6 1/2	22 7/8				2 1/4	3/16 13/32					
184JM						24 13/32	4 1/2		3 3/4 2 3	2 3/4		8 7/16	6 1/2	3 9/16	5 3/4	
213JM			10 1/2	7 3/8	8	22 7/8	E 1/1			2 3/4 1/4	40.000					
215JM						27 1/16	5 1/4		4 1/4		1/4	13/32	10 1/16			
254JM			11 1/4	8 15/16	9 1/2	26 7/8	6 1/4			4 1/8		- 12				
256JM					11 3/4	30		5	5	1/2 17	17/32	12				

FRAME SIZE		HORSEPOV	HORSEPOWER - TEFC				
FRAME SIZE	3500RPM 3Ø	3500RPM 1Ø	1750RPM 3Ø	1750RPM 1Ø	3500RPM 3Ø	1750RPM 39	
143JM	1, 1 1/2	1 1/2	1	1	1 1/2	1	
145JM	2,3	2	1 1/2, 2	1 1/2	2,3	1 1/2, 2	
182JM	5	3	3	2	3	3	
184JM	7 1/2	5	5	3	5	5	
213JM	10	7 1/2	7 1/2	5	7 1/2	7 1/2	
215JM	15	10	10	7 1/2, 10	10	10	
254JM	20		15		15	15	
256JM	25		20		20	20	

