

SF Series[®]
VARIOUS PATENTS APPLY

Solids Handling Electric Motor Driven
Submersible Pump
Models
SF8C & SF8C-X
Size 8"



APPROVED
X-PROOF MOTORS FOR CLASS I,
DIV. 1, GROUPS C&D LOCATIONS
(X-Proof Version Only)

The Gorman-Rupp SF Series[®] channel pumps provide superior pumping efficiency while maintaining a 3-inch (76,2 mm) spherical solids passage.

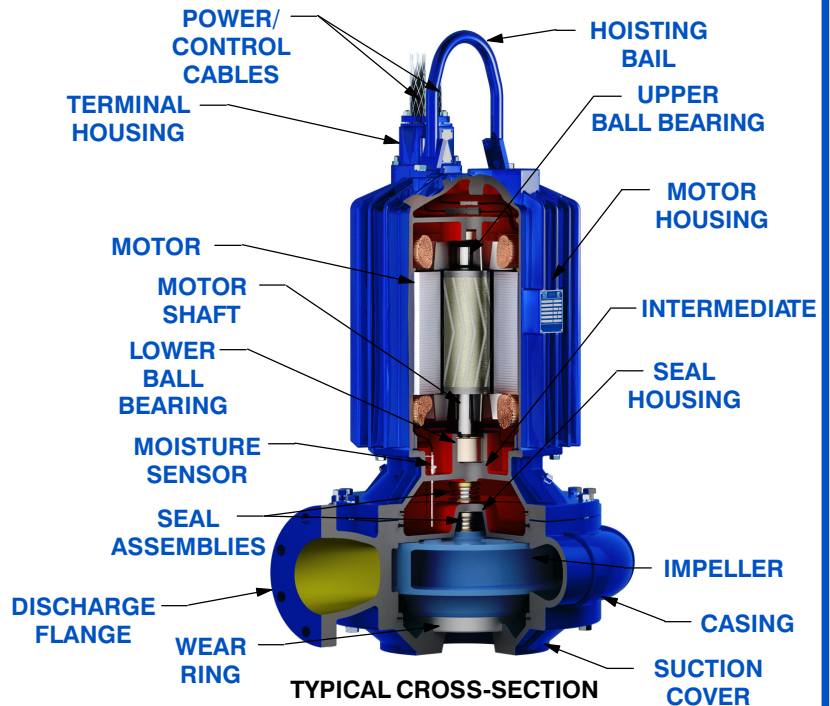
Key Features:

- NEMA premium efficiency motors
- Externally adjustable face clearance
- Press-fit motor with finned motor housing provides superior motor cooling, even in a submersed state, resulting in increased motor life
- NEMA Class H motor insulation
- Direct wired power cable leads
- Standard moisture detection in both the seal and motor chambers
- CSA-C/US and Factory Mutual (FM) Approved for Class I, Division I, Group C and D Haz Loc Applications (X-Proof Model)



Optional Accessories:

- G-R Hard Iron Impeller
- Control Panel (Consult [SF Series Motor Data Reference](#) for Customer-Supplied Control Panel)
- Submersible Transducer or Ball Type Float Switches
- Slide Rail Installation Components
 - Guide shoe w/Rubber Seal
 - Base Elbow and Rail Brackets
- Trash Stand Installation Components
 - Trash Stand
 - Discharge Elbow



GORMAN-RUPP PUMPS

www.grpumps.com

Specifications Subject to Change Without Notice

Printed in U.S.A.

PUMP DETAILS

Pump Model	SF8C & SF8C-X
Agency Approvals	Consult Factory
Discharge Flange	8" ANSI w/ Flat Face
Impeller Type / Material	Two Vane Enclosed/ Ductile Iron
Wear Ring Material	Ductile Iron
Spherical Solids Handling	3" (76 mm) Non-Deformable Diameter
Motor Housing (Including Seal Plate and Intermediate)	Gray Iron 30
Pump Casing	Ductile Iron
Motor Shaft	17-4 PH Stainless Steel
O-Rings	Buna-N and Fluorocarbon (DuPont Viton® or Equivalent)
Bearings: Type/Lubrication	Upper Single Row Ball/Permanent Lubrication
	Lower Double Row Ball/Permanent Lubrication
External Hardware	303/304 Stainless Steel
External Surface Protection	Epoxy Paint
Seal Type	Tandem, Mechanical, Oil Lubricated Upper, Self-Lubricated Lower
Sealing Faces: Rotating/Stationary	Upper Carbon/Ceramic
	Lower Silicon Carbide/Silicon Carbide
Seal Elastomers	Buna-N Upper, Fluorocarbon (DuPont Viton® or Equivalent) Lower
Max. Liquid Temperature	104°F (40°C)

MOTOR DETAILS

Speed	60 Hz, 1750 RPM
Motor Design	Inverter-Duty Rated, Air-Filled Enclosure, Squirrel Cage, Induction Start
Motor Efficiency Rating	NEMA Premium Efficiency (IEC IE3)
Insulation	Class H, Rated 356°F (180°C)
Max. Submergence	65 Feet (20 Meters)
Min. Submergence	1/2 Motor Covered
Max. Starts per Hour	10
Max. Rated Output Power	75.0 HP (55.9 kW)
Amp Draw @ Max. Rated Power: Full Load/ Locked Rotor	
	460V/3P 86.0 / 542.0
	575V/3P 69.0 / 434.0
NEMA Motor Code	G
Service Factor	1.15
Efficiency: 100%/75%/50% Load	94%/96%/94%
Power Factor: 100%/75%/50% Load	0.85/0.81/0.73
Field Connection	Across-the-Line
Moisture Sensor	Single Probe Monitoring Both Seal and Motor Chambers
Thermal Overload	One Thermostat per Phase, Self-Resetting

CABLE DETAILS

Power Cable	Voltage	460V	575V
	No. Cables/Conductors per	1/6	1/6
	Gauge	(3) 1 AWG PWR & (3) 6 AWG GND/GC	(3) 1 AWG PWR & (3) 6 AWG GND/GC
	Type/Material	GGC	GGC
Control Cable	Nominal Cable O.D.	1.51" (38,4mm)	1.51" (38,4 mm)
	No. Cables/Conductors per	1/4	
	Gauge	14 AWG	
	Type/Material	SOOW/CPE	
	Nominal Cable O.D.	0.61" (15,5 mm)	
	Length	32 Feet (10 Meters) Standard, 164 Feet (50 Meters) Maximum	



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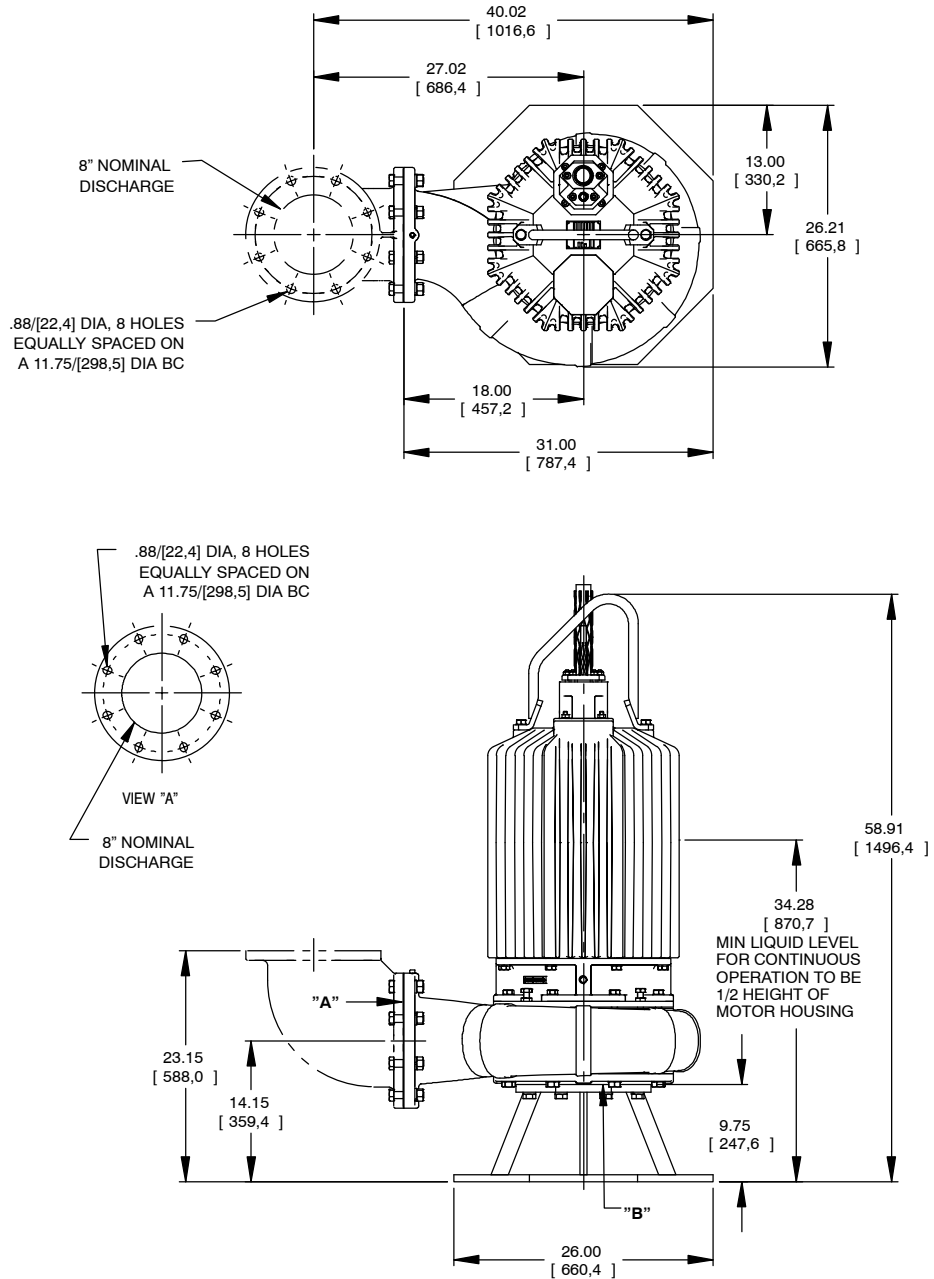
Specification Data

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**MODEL SF8C & SF8C-X
TRASH VERSION
APPROXIMATE
DIMENSIONS and WEIGHTS**

NET WT: (pump only)
(comb. cable wt. per meter [3.2 ft.])
SHIPPING WT: (pump only)
CRATE SIZE:

720 LBS. [326,6 KG.]
3.4 LBS. [1,54 KG.]
760 LBS. [344,7 KG.]
26.8 CU. FT. [0,76 CU. M.]



PUMP WITH TRASH STAND
SHOWN WITH OPTIONAL
DISCHARGE ELBOW

DIMENSIONS:
INCHES
[MILLIMETERS]



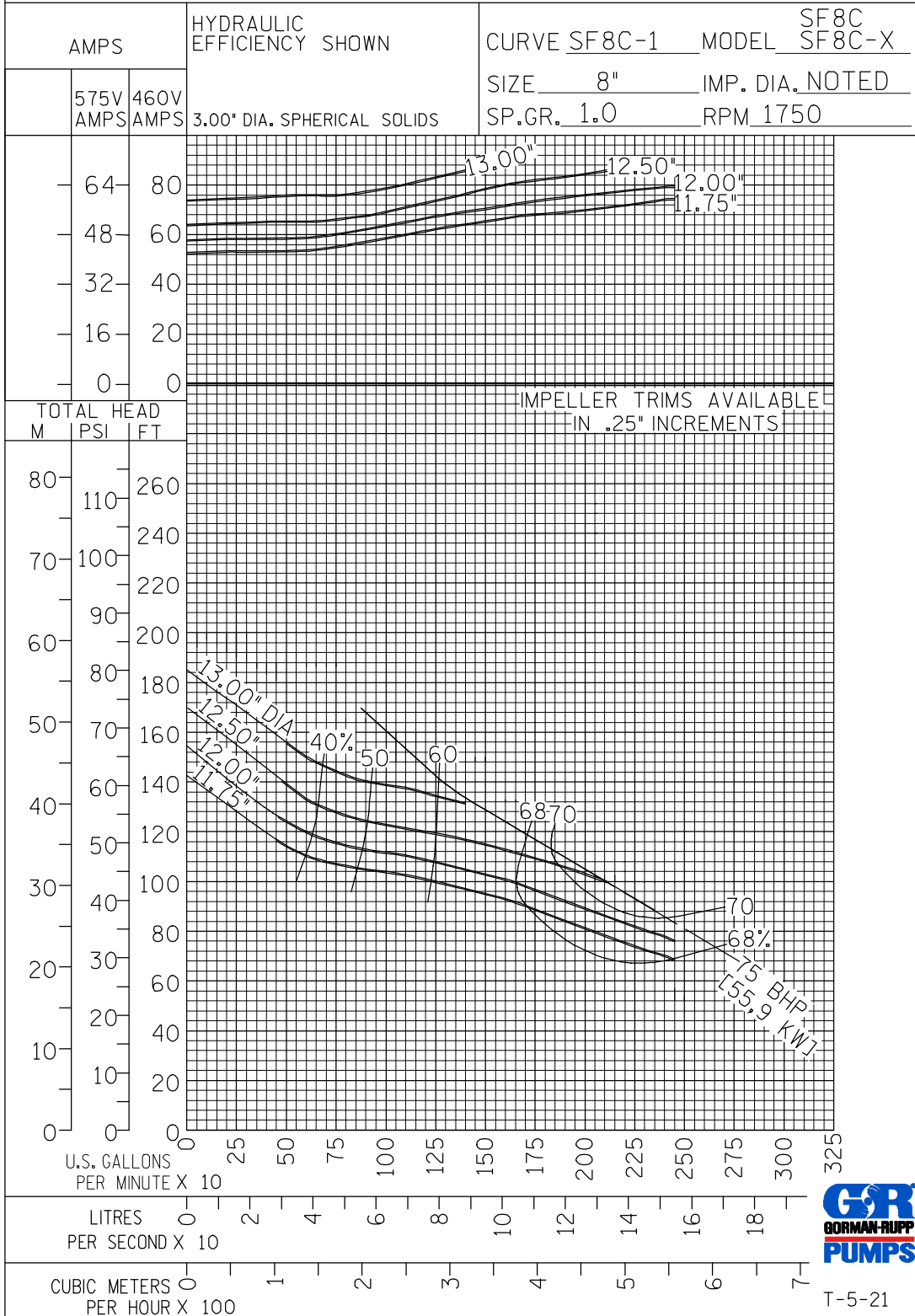
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PERFORMANCE CURVE



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