

CIRCULATORS Bell & Gossett Cast Iron Wet Rotor Circulators / NRF

Description

A residential or light commercial, maintenance free, axial flanged, in-line, cast iron, wet rotor circulation pump for hydronic heating systems. UL and cUL Listed.

Operating Data

Maximum Working Pressure: 150 PSI (10 bar)
Maximum Operating Temperature:
NRF-22 & NRF-9F/LW: 240°F (115°C)
NRF-25, NRF-33, NRF-36 & NRF-45: 225°F (107°C)

Materials of Construction

Pump Body: Cast Iron
Impeller: Noryl
Shaft: Ceramic
Bearings: Double-Sintered Carbon

Warranty

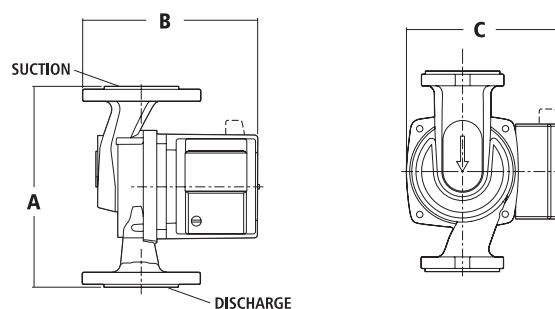
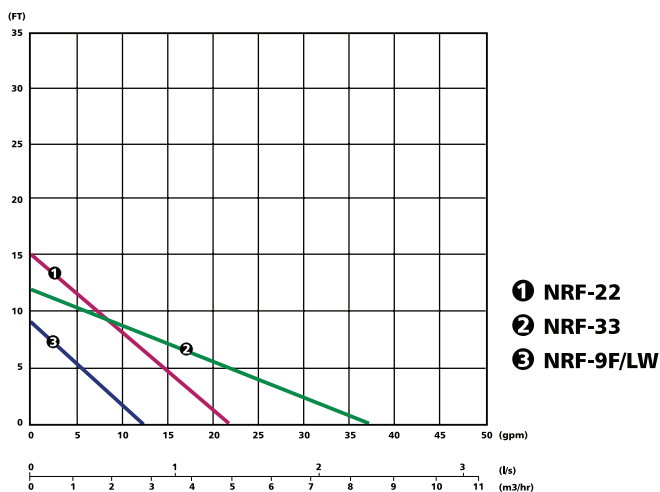
Bell & Gossett offers a warranty of 3 years from date of manufacture or 18 months from date of installation (which ever comes first) against failure as a result of defects in materials and workmanship.

Specifications

Model Number	Single Speed	Three Speed	Part Number	Flange Sizes Inches - NPT	Dimensions Inches (mm)			Standard 60 Cycle Motor Characteristics*					Shipping Weight lbs. (Kg)
					A	B	C	Watts	ø	Volts	F.L. Amps	RPM	
NRF-9F/LW	•		103267	3/4, 1, 1 1/4, 1 1/2	63/8 (162)	63/16 (157)	51/8 (130)	41	1	115	0.40	2800	9.3 (4.2)
NRF-22	•		103251		63/8 (162)	63/16 (157)	51/8 (130)	92			0.80	2940	9.3 (4.2)
NRF-25		•	103417		63/8 (162)	63/16 (157)	51/8 (130)	125			1.20	2950	10.4 (4.7)
NRF-33	•		103350		63/8 (162)	59/16 (141)	47/8 (124)	125			1.10	2950	10.4 (4.7)
NRF-36		•	103400		63/8 (162)	67/8 (175)	53/4 (146)	270			2.30	3300	13.1 (6.0)
NRF-45		•	103404	1, 1 1/4, 1 1/2	81/2 (216)	73/8 (187)	53/4 (146)	270			2.30	3300	14.5 (6.6)

NRF-9F/LW, NRF-22, NRF-25 and NRF-33 are impedance protected.
NRF-36 and NRF-45 are thermally protected.
Dimensions are approximate and subject to change. Contact factory for certified dimensions.

Single Speed NRF Circulator Performance Curves



Single Speed NRF Circulators



NRF-9F/LW



NRF-22



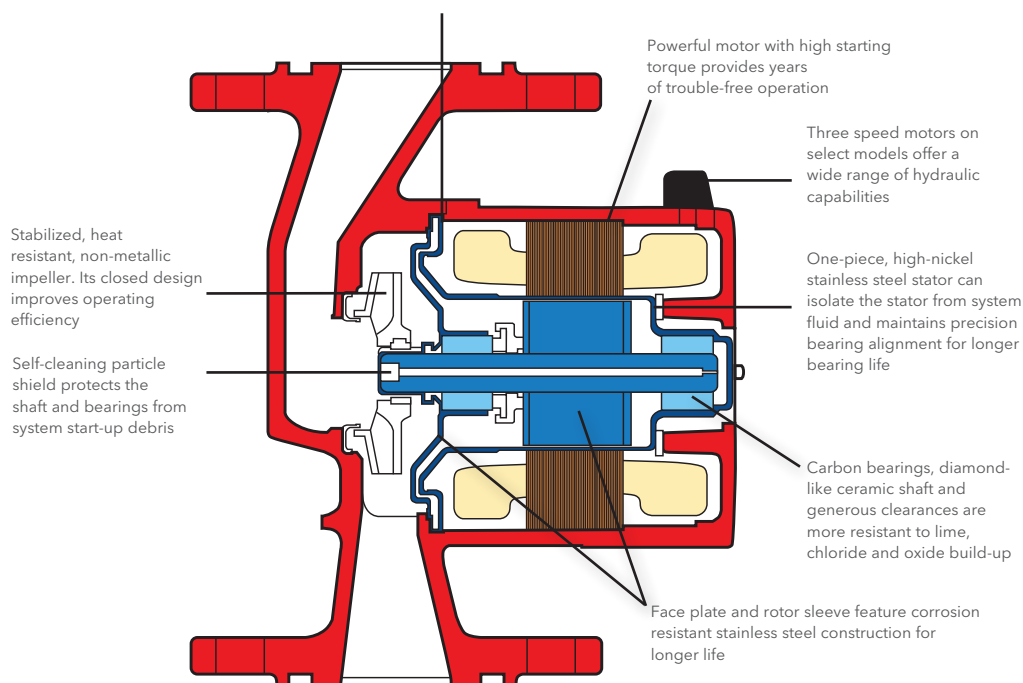
NRF-33



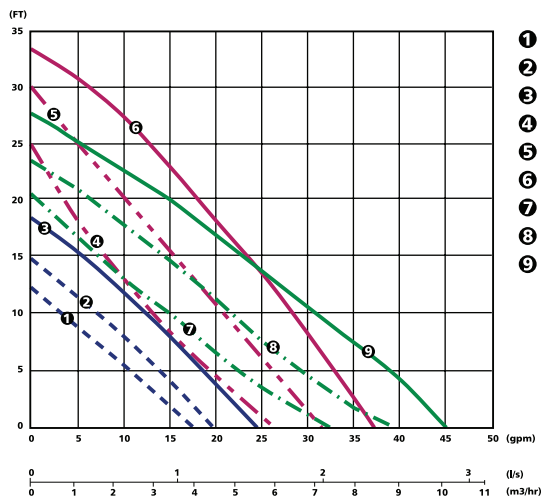
CIRCULATORS Bell & Gossett Cast Iron Wet Rotor Circulators / NRF

Reliable, maintenance-free, whisper quiet wet rotor circulators designed for residential and light commercial heating systems.

DuraGlide™ Bearing System (blue areas in cutaway illustration) incorporates several components working together to eliminate seasonal freeze-up



Three-Speed NRF Circulator Performance Curves



- ❶ NRF-25 Speed 1
- ❷ NRF-25 Speed 2
- ❸ NRF-25 Speed 3
- ❹ NRF-36 Speed 1
- ❺ NRF-36 Speed 2
- ❻ NRF-36 Speed 3
- ❼ NRF-45 Speed 1
- ❽ NRF-45 Speed 2
- ❾ NRF-45 Speed 3

Optional Zone Pump Relay Control



The ZoneTrol II AZ-1A is a single zone pump relay that turns the pump and boiler on when the thermostat calls for heat. The AZ-1A is ideal when adding a zone to an existing system and can be daisy-chained together to control multiple zones (See page 25.)

Three-Speed NRF Circulators



NRF-25



NRF-36



NRF-45