

HEATING SYSTEM SELECTION GUIDE*

Net	Longest loop in system (supply and return total)							
BTUH	1-50'	51-100'	101-150'	151-200'	201-250'	251-300'	301-400'	401-500'
50,000 (5 gpm)	NRF-9F/LW	NRF-22	NRF-22	NRF-22	NRF-36 ⁽²⁾ or PL-30	NRF-36 ⁽²⁾ or PL-30	NRF-36 ⁽¹⁾ or PL-36	NRF-36 ⁽¹⁾ or PL-36
100,000 (10 gpm)	NRF-22	NRF-22	NRF-33	NRF-36 ⁽²⁾ or PL-30	NRF-36 ⁽²⁾ or PL-30	NRF-36 ⁽²⁾ or PL-30	NRF-36 ⁽¹⁾ or PL-36	NRF-36 ⁽¹⁾ or PL-36
125,000 (12.5 gpm)	NRF-22	NRF-22	NRF-36 ⁽²⁾ or PL-30	NRF-36 ⁽²⁾ or PL-30	NRF-36 ⁽²⁾ or PL-30	NRF-36 ⁽¹⁾ or PL-36	NRF-36 ⁽¹⁾ or PL-36	NRF-36 ⁽¹⁾ or PL-36
150,000 (15 gpm)	NRF-22	NRF-33	NRF-36 ⁽²⁾ or PL-30	NRF-36 ⁽²⁾ or PL-30	NRF-36 ⁽¹⁾ or PL-36	NRF-36 ⁽¹⁾ or PL-36	NRF-36 ⁽¹⁾ or PL-36	PL-55
175,000 (17.5 gpm)	NRF-22	NRF-33	NRF-36 ⁽²⁾ or PL-30	NRF-36 ⁽²⁾ or PL-30	NRF-36 ⁽¹⁾ or PL-36	NRF-36 ⁽¹⁾ or PL-36	NRF-36 ⁽¹⁾ or PL-36	PL-55
200,000 (20 gpm)	NRF-33	NRF-33	NRF-36 ⁽²⁾ or PL-30	NRF-36 ⁽¹⁾ or PL-36	NRF-36 ⁽¹⁾ or PL-36	NRF-36 ⁽¹⁾ or PL-36	PL-55	PL-55
250,000 (25 gpm)	NRF-33	NRF-36 or PL-36	NRF-36 ⁽¹⁾ or PL-36	NRF-36 ⁽¹⁾ or PL-36	NRF-36 ⁽¹⁾ or PL-36	NRF-45 ⁽¹⁾ or PL-45	PL-55	PL-55
300,000 (30 gpm)	NRF-33	NRF-36 ⁽¹⁾ or PL-36	NRF-36 ⁽¹⁾ or PL-36	PL-50	NRF-45 ⁽¹⁾ or PL-45	PL-130	PL-55	613
400,000 (40 gpm)	NRF-45 ⁽¹⁾ or PL-45	PL-50	PL-75	PL-130	PL-130	605	606	613
500,000 (50 gpm)	PL-50	PL-75	PL-130	PL-130	PL-130	608	613	613

- * Selections are based on the following assumptions:
- The radiation is standard baseboard or cast-iron radiators.
 - 50% has been added to the total length for fittings, etc.
 - The system will operate on a 20°F temperature drop.

⁽¹⁾ NRF Speed 3

⁽²⁾ NRF Speed 2