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Electric Heat

Superior Rex offers electric heating coils for specific application with all Vertical Floor Series Fan Coil units. This allows the flexibility to provide

an unrivaled amount of electric heat options in one complete package.

Standard Features

- » ETL listed as an assembly for safety compliance
- » Single point power connection
- » Mounted in reheat position
- » Automatic reset primary and back-up secondary thermal limits
- » Internal wiring rated at 105°C
- » Integral electric heat assembly with removable element for easy service
- » Stainless steel terminals and hardware
- » Finned tubular heater virtually eliminates the risk of shock from accidental contact



Useful Formulas

$$kW^* = \frac{CFM \times \Delta T \times 1.085^{**}}{3413}$$

$$1\emptyset \text{ AMPs} = \frac{kW \times 1000}{\text{Volts}}$$

* 1kW = 3413 BTU/H

** Capacity at sea level

Altitude Considerations:

Reduce by 0.034 for each 1000 ft. of altitude above sea level

Example: 5000 ft./1000 ft. = 5

$$5 \times 0.034 = 0.17$$

$$1.085 - 0.17 = 0.915$$

Optional Features

- » Silent solid state relays on heaters up to 18 amps
- » Door interlocking disconnect switch
- » Main fusing

Electrical Calculations Information

1. Contact your local Superior Rex sales office
2. Non-Fused Door Interlock Disconnect Switch shall be sized according to MCA
3. Fused Door Interlock Disconnect Switch and Main Fusing shall be sized according to MOP

RBV ELECTRIC HEAT SELECTION CHART (AMPS)

| Unit Size | MBH | 3.4 | 5.1 | 6.8 | 10.2 | 13.7 | 17.1 | 20.5 |
|-----------|-------|------|------|------|------|------|------|------|
| | KW | 1.0 | 1.5 | 2.0 | 3.0 | 4.0 | 5.0 | 6.0 |
| | Volts | AMPS | | | | | | |
| 02 | 115 | 8.3 | | | | | | |
| | 208 | 4.8 | | | | | | |
| | 240 | 4.2 | | | | | | |
| | 277 | 3.6 | | | | | | |
| 03 | 115 | 8.3 | 12.5 | | | | | |
| | 208 | 4.8 | 7.2 | | | | | |
| | 240 | 4.2 | 6.3 | | | | | |
| | 277 | 3.6 | 5.4 | | | | | |
| 04 | 115 | 8.3 | 12.5 | 16.7 | | | | |
| | 208 | 4.8 | 7.2 | 9.6 | | | | |
| | 240 | 4.2 | 6.3 | 8.3 | | | | |
| | 277 | 3.6 | 5.4 | 7.2 | | | | |
| 06 | 115 | 8.3 | 12.5 | 16.7 | 25.0 | | | |
| | 208 | 4.8 | 7.2 | 9.6 | 14.4 | | | |
| | 240 | 4.2 | 6.3 | 8.3 | 12.5 | | | |
| | 277 | 3.6 | 5.4 | 7.2 | 10.8 | | | |
| 08 | 115 | 8.3 | 12.5 | 16.7 | 25.0 | | | |
| | 208 | 4.8 | 7.2 | 9.6 | 14.4 | 19.2 | | |
| | 240 | 4.2 | 6.3 | 8.3 | 12.5 | 16.7 | | |
| | 277 | 3.6 | 5.4 | 7.2 | 10.8 | 14.4 | | |
| 10 | 115 | 8.3 | 12.5 | 16.7 | 25.0 | | | |
| | 208 | 4.8 | 7.2 | 9.6 | 14.4 | 19.2 | 24.0 | |
| | 240 | 4.2 | 6.3 | 8.3 | 12.5 | 16.7 | 20.8 | |
| | 277 | 3.6 | 5.4 | 7.2 | 10.8 | 14.4 | 18.1 | |
| 12 | 115 | 8.3 | 12.5 | 16.7 | 25.0 | | | |
| | 208 | 4.8 | 7.2 | 9.6 | 14.4 | 19.2 | 24.0 | 28.9 |
| | 240 | 4.2 | 6.3 | 8.3 | 12.5 | 16.7 | 20.8 | 25.0 |
| | 277 | 3.6 | 5.4 | 7.2 | 10.8 | 14.4 | 18.1 | 21.7 |

Notes:

1. Shaded areas of the electric heat selection chart indicate kW and voltage options not available
2. Available voltages are single phase, 60 hertz
3. Size heater for Leaving Air Temperature (LAT) less than 104°F
4. Silent, solid state heater relay is available for heater currents less than 18 amps
5. Ask your representative about continuously modulating electric heat using SSR and special control options