



Electric Heat

Standard Features

- » Galvanized steel casing
- » Flanged construction for direct unit mounting, in blow-thru configuration
- » Listed for zero clearance installation
- » Meets National Electrical Code requirements
- » Ni-Chrome wire in ceramic insulators
- » Stainless steel element terminals and hardware
- » Element support brackets on maximum 3 1/2" centers
- » Solid cover with continuous full height hinge
- » Overtemperature protection
- » All internal wiring rated for 105°C minimum
- » Airflow switch
- » Incoming line power distribution block
- » ETL Listed in compliance with UL/ANSI Standard 1995
- » Single point power connection
- » Heater factory mounted to unit with ETL listing as an assembly

Optional Features

- » Door interlocking disconnect switch
- » Fusing (main) (per stage)
- » Magnetic contactors wired for disconnecting operation
- » Fan control package with heater interlock contacts (required for single point power connection)

| Heater AMP Calculation | |
|------------------------|-------------|
| Voltage | AMPs per kW |
| 115/1 | 8.70 |
| 208/1 | 4.81 |
| 230/1 | 4.35 |
| 277/1 | 3.61 |
| 208/3 | 2.78 |
| 230/3 | 2.51 |
| 460/3 | 1.26 |
| 575/3 | 1.00 |



Electrical Calculations Information

1. Contact Superior Rex for MCA and/or MOP calculations
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

| Unit Voltage And Phase | | | Electric Heat KW Limits | | | | | | | | | | | |
|------------------------|-----|------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | | Unit Size | | | | | | | | | | | |
| | | | 08 | | 12 | | 16 | | 20 | | 25 | | 30 | |
| | | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| Single Phase | 115 | kW | 3 | 5 | 3 | 5 | 3 | 5 | 4 | 5 | | | | |
| | | AMPs | 26.1 | 43.5 | 26.1 | 43.5 | 26.1 | 43.5 | 34.8 | 43.5 | | | | |
| | 208 | kW | 3 | 9 | 3 | 9 | 3 | 9 | 4 | 9 | 6 | 9 | 6 | 9 |
| | | AMPs | 14.4 | 43.3 | 14.4 | 43.3 | 14.4 | 43.3 | 19.2 | 43.3 | 28.8 | 43.3 | 28.8 | 43.3 |
| | 230 | kW | 3 | 11 | 3 | 11 | 3 | 11 | 4 | 11 | 6 | 11 | 6 | 11 |
| | | AMPs | 13.0 | 47.8 | 13.0 | 47.8 | 13.0 | 47.8 | 17.4 | 47.8 | 26.1 | 47.8 | 26.1 | 47.8 |
| | 277 | kW | 3 | 13 | 3 | 13 | 3 | 13 | 4 | 13 | 6 | 13 | 6 | 13 |
| | | AMPs | 10.8 | 46.9 | 10.8 | 46.9 | 10.8 | 46.9 | 14.4 | 46.9 | 21.7 | 46.9 | 21.7 | 46.9 |
| Three Phase | 208 | kW | 3 | 13 | 3 | 16 | 3 | 16 | 4 | 16 | 4 | 16 | 4 | 16 |
| | | AMPs | 8.3 | 36.1 | 8.3 | 44.4 | 8.3 | 44.4 | 11.1 | 44.4 | 11.1 | 44.4 | 11.1 | 44.4 |
| | 230 | kW | 3 | 13 | 3 | 18 | 3 | 18 | 4 | 18 | 4 | 18 | 4 | 18 |
| | | AMPs | 7.5 | 32.6 | 7.5 | 45.2 | 7.5 | 45.2 | 10.0 | 45.2 | 10.0 | 45.2 | 10.0 | 45.2 |
| | 460 | kW | 3 | 13 | 3 | 20 | 3 | 20 | 4 | 26 | 4 | 26 | 4 | 26 |
| | | AMPs | 3.8 | 16.3 | 3.8 | 25.1 | 3.8 | 25.1 | 5.0 | 32.6 | 5.0 | 32.6 | 5.0 | 32.6 |
| | 575 | kW | 3 | 13 | 3 | 20 | 3 | 20 | 4 | 26 | 4 | 26 | 4 | 26 |
| | | AMPs | 3.0 | 13.1 | 3.0 | 20.1 | 3.0 | 20.1 | 4.0 | 26.1 | 4.0 | 26.1 | 4.0 | 26.1 |

Notes:

1. Electric heat sections may be shipped separate for field installation to unit
2. Factory certified submittals available upon request
3. Standard heater kW limits are maximum per unit size and voltage
4. Heater should be sized for a maximum leaving air temperature of 104°F

Performance Data

ELECTRIC DATA

MOTOR ELECTRICAL DATA

| Horsepower | Maximum Motor Amperage | | | | | | | |
|------------|------------------------|-------|-------|-------|-------|-------|-------|-------|
| | Voltage | | | | | | | |
| | 115/1 | 208/1 | 230/1 | 277/1 | 208/3 | 230/3 | 460/3 | 575/3 |
| 1/3 | 6.3 | 3.5 | 3.2 | 2.6 | 1.7 | 1.5 | 0.8 | - |
| 1/2 | 7.8 | 4.3 | 3.9 | 3.6 | 2.2 | 2.1 | 1.1 | 0.9 |
| 3/4 | 10.6 | 5.4 | 5.3 | 5.0 | 3.2 | 3.0 | 1.5 | 1.2 |
| 1 | 15.0 | 8.3 | 7.5 | 5.5 | 4.0 | 3.6 | 1.8 | 1.4 |
| 1 1/2 | - | - | - | - | 5.3 | 5.0 | 2.5 | 1.9 |
| 2 | - | - | - | - | 7.0 | 6.4 | 3.2 | 2.5 |
| 3 | - | - | - | - | 9.1 | 9.0 | 4.5 | 3.2 |

Notes:

- Actual motor nameplate AMPs may vary, but will not exceed values shown
- Consult Superior Rex for applications requiring special motors

UNIT WEIGHT DATA

| Component | | | | | | | |
|---------------------------|-------------|----------|----------|----------|----------|-----------|-----------|
| | | 08 | 12 | 16 | 20 | 25 | 30 |
| Base Unit | | 125 [57] | 131 [60] | 160 [73] | 167 [76] | 231 [105] | 236 [107] |
| Damper Section | | 42 [19] | 53 [24] | 59 [27] | 73 [33] | 91 [41] | 91 [41] |
| Blow-thru Electric Heater | | 42 [19] | 42 [19] | 42 [19] | 50 [23] | 55 [25] | 55 [25] |
| Discharge Coil Section | | 35 [16] | 37 [17] | 49 [22] | 53 [24] | 76 [35] | 80 [36] |
| Supply Plenum | | 22 [10] | 26 [12] | 35 [16] | 38 [17] | 76 [35] | 76 [35] |
| Return Plenum (SSL) | | 29 [13] | 30 [14] | 33 [15] | 35 [16] | 44 [20] | 44 [20] |
| Coil Rows | 1 Row - Dry | 12 [5] | 14 [6] | 17 [8] | 21 [10] | 23 [10] | 27 [12] |
| | 1 Row - Wet | 14 [6] | 17 [8] | 21 [10] | 26 [12] | 28 [13] | 34 [15] |
| | 2 Row - Dry | 17 [8] | 21 [10] | 26 [12] | 32 [15] | 37 [17] | 43 [20] |
| | 2 Row - Wet | 21 [10] | 27 [12] | 33 [15] | 42 [19] | 48 [22] | 56 [25] |
| | 4 Row - Dry | 29 [13] | 36 [16] | 45 [20] | 57 [26] | 65 [30] | 76 [35] |
| | 4 Row - Wet | 37 [17] | 47 [21] | 58 [26] | 75 [34] | 86 [39] | 101 [46] |
| | 6 Row - Dry | 40 [18] | 51 [23] | 64 [29] | 81 [37] | 93 [42] | 109 [50] |
| | 6 Row - Wet | 52 [24] | 66 [30] | 84 [38] | 109 [50] | 124 [56] | 146 [66] |

Notes:

- Unit weight data is shipping weight in pounds [kilograms]
- Discharge section includes a 2 row coil

MOTOR/DRIVE WEIGHT DATA

| Type | Motor HP | | | | | | |
|--------------|----------|---------|---------|---------|---------|---------|---------|
| | 1/3 | 1/2 | 3/4 | 1 | 1 1/2 | 2 | 3 |
| Single Phase | 37 [17] | 37 [17] | 45 [20] | 47 [21] | - | - | - |
| Three Phase | 34 [15] | 34 [15] | 40 [18] | 43 [20] | 46 [21] | 53 [24] | 81 [37] |

Notes:

- Includes motor, pulleys, belts, and motor base
- Motor/drive weight data is shipping weight in pounds [kilograms]