

Performance Data

Coil and Filter Data

COIL AND FILTER DATA

| Unit Size | Coil Face Area | 2" Flat Filters (Quantity) and Size | Filter Face Area |
|-----------|----------------|--|------------------|
| 08 | 2.1 [0.20] | (1) 16 x 20 x 2 [406 x 508 x 51] | 2.2 [0.20] |
| 12 | 2.7 [0.25] | (1) 16 x 25 x 2 [406 x 635 x 51] | 2.8 [0.26] |
| 16 | 3.5 [0.33] | (2) 16 x 20 x 2 [406 x 508 x 51] | 4.4 [0.41] |
| 20 | 4.9 [0.46] | (1) 16 x 20 x 2 [406 x 508 x 51] (1) 16 x 25 x 2 [406 x 635 x 51] | 5.0 [0.46] |
| 30 | 6.5 [0.60] | (2) 16 x 25 x 2 [406 x 635 x 51] (1) 20 x 25 x 2 [508 x 635 x 51] | 9.0 [0.84] |
| 40 | 8.4 [0.78] | (3) 20 x 25 x 2 [508 x 635 x 51] | 10.4 [0.97] |

Notes:

1. Standard filters are 2" throwaway
2. Filter sizes are nominal and standard size, measured in inches [millimeters]
3. Coil and filter face areas are measured in square feet [square meters]
4. Cooling and heating coils have same face area

NOMINAL COIL CONNECTION SIZES

| Unit Size | Coil Type | | | | | | | | | | | | | | |
|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|------------|----------|------------|----------|------------|
| | Water | | | | | Steam | | | | Refrigerant | | | | | |
| | 1 Row | 2 Row | 3 Row | 4 Row | 6 Row | 1 Row | | 2 Row | | 3 Row | | 4 Row | | 6 Row | |
| | | | | | | STM. | COND. | STM. | COND. | Liquid | Suction | Liquid | Suction | Liquid | Suction |
| 08 | 5/8 [16] | 5/8 [16] | 7/8 [22] | 7/8 [22] | 7/8 [22] | 1 1/8 [29] | 7/8 [22] | 1 1/8 [29] | 7/8 [22] | 5/8 [16] | 5/8 [16] | 5/8 [16] | 5/8 [16] | 5/8 [16] | 5/8 [16] |
| 12 | 5/8 [16] | 5/8 [16] | 7/8 [22] | 7/8 [22] | 7/8 [22] | 1 1/8 [29] | 7/8 [22] | 1 1/8 [29] | 7/8 [22] | 5/8 [16] | 7/8 [22] | 5/8 [16] | 7/8 [22] | 5/8 [16] | 7/8 [22] |
| 16 | 5/8 [16] | 7/8 [22] | 7/8 [22] | 7/8 [22] | 1 1/8 [29] | 1 1/8 [29] | 7/8 [22] | 1 3/8 [35] | 1 1/8 [29] | 5/8 [16] | 7/8 [22] | 5/8 [16] | 7/8 [22] | 5/8 [16] | 7/8 [22] |
| 20 | 5/8 [16] | 7/8 [22] | 1 1/8 [29] | 1 1/8 [29] | 1 1/8 [29] | 1 3/8 [35] | 1 1/8 [29] | 1 3/8 [35] | 1 1/8 [29] | 5/8 [16] | 7/8 [22] | 5/8 [16] | 7/8 [22] | 5/8 [16] | 7/8 [22] |
| 30 | 7/8 [22] | 1 1/8 [29] | 1 1/8 [29] | 1 1/8 [29] | 1 3/8 [35] | 1 5/8 [41] | 1 1/8 [29] | 1 5/8 [41] | 1 1/8 [29] | 5/8 [16] | 1 1/8 [29] | 5/8 [16] | 1 1/8 [29] | 5/8 [16] | 1 1/8 [29] |
| 40 | 1 1/8 [29] | 1 3/8 [35] | 1 3/8 [35] | 1 3/8 [35] | 1 5/8 [41] | 2 1/8 [54] | 1 3/8 [35] | 2 1/8 [54] | 1 3/8 [35] | 5/8 [16] | 1 1/8 [29] | 5/8 [16] | 1 1/8 [29] | 7/8 [22] | 1 3/8 [35] |

Notes:

1. Water coils are based on Standard GPM Circuiting. Consult Superior Rex Representative for applications requiring special circuiting.
2. For other selections, refer to RAMP
3. Refrigerant coil connection sizes for single circuit coils and may vary with application. Contact Superior Rex for double circuit coils.
4. All dimensional data is outside diameter (O.D.), measured in inches [millimeters]



Performance Data

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COILS AND STATIC PRESSURE DATA

COILS

Superior Rex manufactures hot water, chilled water and direct expansion (DX) coils for specific application with all Model SBH and SBV blower coils. AHRI 410 certified and labeled, and strict on-site inspection

before, during, and after installation guarantees the highest quality and performance available.

Standard Features

- » Designed, manufactured and tested by Superior Rex
- » AHRI 410 certified and labeled
- » ½" O.D. seamless copper tubes
- » High efficiency aluminum fin surface for optimizing heat transfer, pressure drop and carryover
- » Mechanically expanded copper tubes leak tested to a minimum 450 PSIG air pressure under water
- » Manual air vent plug on all water coils
- » Copper ODM sweat connections
- » 300 PSIG working pressure at 200°F
- » Evaporator coils are factory sealed and charged with a minimum of 5 PSIG nitrogen or refrigerated dry air
- » Steam coils rated at 15 PSIG maximum operating pressure at about 35°F
- » 0.016" tube wall thickness (0.025" on steam)

Optional Features

- » Stainless steel coil casings
- » Automatic air vents on water coils
- » Heat pump compatible cooling coils
- » 0.025" tube wall thickness



COMPONENT STATIC PRESSURE LOSS – INCHES W.G.

| Unit Size | Nominal CFM | Cabinet | Filter (2" T/A) | Coil | | | | | Inlet Damper Section | Electric Heat Section |
|-----------|-------------|---------|-----------------|-------|-------|-------|-------|-------|----------------------|-----------------------|
| | | | | 1 Row | 2 Row | 3 Row | 4 Row | 6 Row | | |
| 08 | 800 | 0.09 | 0.25 | 0.05 | 0.10 | 0.23 | 0.31 | 0.47 | 0.04 | 0.05 |
| 12 | 1200 | 0.09 | 0.25 | 0.06 | 0.12 | 0.29 | 0.39 | 0.58 | 0.06 | 0.05 |
| 16 | 1600 | 0.10 | 0.25 | 0.06 | 0.13 | 0.30 | 0.40 | 0.60 | 0.09 | 0.05 |
| 20 | 2000 | 0.11 | 0.25 | 0.06 | 0.11 | 0.26 | 0.35 | 0.52 | 0.05 | 0.05 |
| 30 | 3000 | 0.14 | 0.25 | 0.07 | 0.13 | 0.31 | 0.41 | 0.61 | 0.08 | 0.05 |
| 40 | 4000 | 0.16 | 0.25 | 0.07 | 0.14 | 0.32 | 0.43 | 0.64 | 0.07 | 0.05 |

Notes:

1. All static pressures are at nominal CFM
2. Coil static pressure for standard coil, 10FPI at 80/67 EAT and 45° EWT with 10° rise
3. For 8, 12 or 14 FPI, refer to RAMP
4. Filter static pressure based on 50% loaded filter
5. If pleated filters are used in lieu of throwaway, the filter static pressure loss is 0.35