

PERFORMANCE DATA

HBP CONCEALED CEILING WITH PLENUM

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| 2-PIPE SYSTEM | | | | | | | |
|---------------|--------------------|--------------|----------|----------|--------------------|----------|----------|
| Model | 2 Rows Cooling (1) | | | | 2 Rows Heating (1) | | |
| | Total MBH | Sensible MBH | Flow gpm | PD ft wg | Sensible MBH | Flow gpm | PD ft wg |
| HBP02 | 4.1 | 3.3 | 0.8 | 0.34 | 13.2 | 0.9 | 0.32 |
| HBP03 | 5.9 | 4.8 | 1.2 | 0.77 | 18.6 | 1.3 | 0.69 |
| HBP04 | 8.7 | 7.0 | 1.7 | 1.84 | 26.9 | 1.8 | 1.56 |
| HBP06 | 11.6 | 9.7 | 2.3 | 0.92 | 37.6 | 2.6 | 0.97 |
| HBP08 | 15.0 | 11.9 | 3.0 | 1.66 | 45.9 | 3.1 | 1.58 |
| HBP10 | 21.2 | 16.7 | 4.2 | 3.66 | 62.9 | 4.3 | 3.24 |
| HBP12 | 24.1 | 19.4 | 4.8 | 2.50 | 74.3 | 5.1 | 2.54 |

| 4-PIPE SYSTEM | | | | | | | |
|---------------|----------------|--------------|----------|----------|---------------|----------|----------|
| Model | 2 Rows Cooling | | | | 1 Row Heating | | |
| | Total MBH | Sensible MBH | Flow gpm | PD ft wg | Sensible MBH | Flow gpm | PD ft wg |
| HBP02 | 3.9 | 3.2 | 0.8 | 0.31 | 7.5 | 0.5 | 0.40 |
| HBP03 | 5.7 | 4.6 | 1.1 | 0.72 | 10.4 | 0.7 | 0.84 |
| HBP04 | 8.4 | 6.7 | 1.7 | 1.72 | 14.9 | 1.0 | 1.89 |
| HBP06 | 11.2 | 9.3 | 2.2 | 0.85 | 22.0 | 1.5 | 5.24 |
| HBP08 | 14.3 | 11.3 | 2.9 | 1.52 | 25.8 | 1.8 | 1.22 |
| HBP10 | 20.4 | 15.9 | 4.1 | 3.39 | 35.0 | 2.4 | 2.60 |
| HBP12 | 23.0 | 18.4 | 4.6 | 2.28 | 42.3 | 2.9 | 4.22 |

| 2-PIPE SYSTEM | | | | | | | |
|---------------|----------------|--------------|----------|----------|----------------|----------|----------|
| Model | 3 Rows Cooling | | | | 3 Rows Heating | | |
| | Total MBH | Sensible MBH | Flow gpm | PD ft wg | Sensible MBH | Flow gpm | PD ft wg |
| HBP02 | 5.8 | 4.2 | 1.2 | 1.00 | 17.0 | 1.2 | 0.78 |
| HBP03 | 8.4 | 6.1 | 1.7 | 2.25 | 24.2 | 1.6 | 1.70 |
| HBP04 | 12.5 | 9.1 | 2.5 | 5.39 | 35.2 | 2.4 | 3.92 |
| HBP06 | 16.8 | 12.6 | 3.4 | 2.44 | 49.5 | 3.4 | 2.12 |
| HBP08 | 21.1 | 15.3 | 4.2 | 4.26 | 59.7 | 4.1 | 3.41 |
| HBP10 | 27.5 | 20.6 | 5.5 | 3.67 | 80.7 | 5.5 | 3.36 |
| HBP12 | 34.0 | 25.0 | 6.8 | 6.02 | 97.1 | 6.6 | 5.20 |

| 4-PIPE SYSTEM | | | | | | | |
|---------------|----------------|--------------|----------|----------|---------------|----------|----------|
| Model | 3 Rows Cooling | | | | 1 Row Heating | | |
| | Total MBH | Sensible MBH | Flow gpm | PD ft wg | Sensible MBH | Flow gpm | PD ft wg |
| HBP02 | 5.5 | 4.0 | 1.1 | 0.93 | 7.2 | 0.5 | 0.38 |
| HBP03 | 8.0 | 5.8 | 1.6 | 2.07 | 10.0 | 0.7 | 0.80 |
| HBP04 | 11.9 | 8.7 | 2.4 | 4.92 | 14.4 | 1.0 | 1.80 |
| HBP06 | 16.0 | 11.9 | 3.2 | 2.22 | 21.1 | 1.4 | 4.94 |
| HBP08 | 20.2 | 14.5 | 4.0 | 3.91 | 24.8 | 1.7 | 1.27 |
| HBP10 | 26.2 | 19.5 | 5.2 | 3.34 | 33.7 | 2.3 | 2.60 |
| HBP12 | 32.6 | 23.8 | 6.5 | 5.53 | 40.6 | 2.8 | 4.28 |

| 2-PIPE SYSTEM | | | | | | | |
|---------------|----------------|--------------|----------|----------|----------------|----------|----------|
| Model | 4 Rows Cooling | | | | 4 Rows Heating | | |
| | Total MBH | Sensible MBH | Flow gpm | PD ft wg | Sensible MBH | Flow gpm | PD ft wg |
| HBP02 | 6.9 | 4.8 | 1.4 | 1.88 | 18.7 | 1.3 | 1.26 |
| HBP03 | 10.0 | 6.9 | 2.0 | 4.21 | 26.9 | 1.8 | 2.78 |
| HBP04 | 13.1 | 9.6 | 2.6 | 1.52 | 38.5 | 2.6 | 1.31 |
| HBP06 | 20.4 | 14.3 | 4.1 | 4.36 | 55.5 | 3.8 | 3.25 |
| HBP08 | 23.5 | 16.6 | 4.7 | 2.88 | 65.5 | 4.5 | 2.40 |
| HBP10 | 33.3 | 23.4 | 6.6 | 6.24 | 90.7 | 6.2 | 4.94 |
| HBP12 | 39.0 | 27.6 | 7.8 | 5.82 | 100.8 | 7.4 | 4.96 |

| 4-PIPE SYSTEM | | | | | | | |
|---------------|----------------|--------------|----------|----------|---------------|----------|----------|
| Model | 4 Rows Cooling | | | | 1 Row Heating | | |
| | Total MBH | Sensible MBH | Flow gpm | PD ft wg | Sensible MBH | Flow gpm | PD ft wg |
| HBP02 | 6.6 | 4.5 | 1.3 | 1.70 | 6.9 | 0.5 | 0.36 |
| HBP03 | 9.5 | 6.5 | 1.9 | 3.81 | 9.6 | 0.7 | 0.76 |
| HBP04 | 12.3 | 9.0 | 2.5 | 1.35 | 13.7 | 0.9 | 1.68 |
| HBP06 | 19.2 | 13.4 | 3.8 | 3.91 | 20.2 | 1.4 | 4.63 |
| HBP08 | 22.2 | 15.6 | 4.4 | 2.58 | 23.7 | 1.6 | 1.25 |
| HBP10 | 31.6 | 22.0 | 6.3 | 5.64 | 32.2 | 2.2 | 2.63 |
| HBP12 | 37.0 | 26.0 | 7.4 | 5.23 | 38.9 | 2.7 | 4.19 |

| 2-PIPE SYSTEM | | | | | | | |
|---------------|----------------|--------------|----------|----------|----------------|----------|----------|
| Model | 5 Rows Cooling | | | | 5 Rows Heating | | |
| | Total MBH | Sensible MBH | Flow gpm | PD ft wg | Sensible MBH | Flow gpm | PD ft wg |
| | HBP02 | 7.6 | 5.0 | 1.5 | 2.77 | 19.2 | 1.3 |
| HBP03 | 9.8 | 6.8 | 2.0 | 0.93 | 27.1 | 1.9 | 0.72 |
| HBP04 | 14.7 | 10.2 | 2.9 | 2.23 | 40.4 | 2.8 | 1.68 |
| HBP06 | 22.4 | 15.0 | 4.5 | 6.20 | 57.7 | 3.9 | 4.13 |
| HBP08 | 26.0 | 17.5 | 5.2 | 4.00 | 68.0 | 4.6 | 2.93 |
| HBP10 | 35.2 | 24.0 | 7.0 | 4.91 | 93.7 | 6.4 | 3.93 |
| HBP12 | 43.2 | 29.2 | 8.6 | 7.86 | 112.4 | 7.7 | 5.99 |

1. Standard basic unit
2. All ratings are based at sea level altitude, nominal air volumes at 0 external static pressure and with water as the cooling fluid
3. Cooling capacities are based on 80°F DB/67°F WB entering air, 45°F entering water, 10°F water temperature rise and high fan speed
4. Heating capacities are based on 70°F DB entering air temperature, 180°F entering hot water, 30°F water temperature drop and high fan speed

| Nominal Air Volumes | | | |
|---------------------|---------|-----|-----|
| Model | cfm (1) | | |
| | High | Med | Low |
| HBP02 | 219 | 187 | 171 |
| HBP03 | 326 | 289 | 230 |
| HBP04 | 503 | 391 | 310 |
| HBP06 | 696 | 567 | 439 |
| HBP08 | 813 | 647 | 535 |
| HBP10 | 1150 | 867 | 696 |
| HBP12 | 1370 | 931 | 781 |

| Air Volume (cfm) Vs External Static Pressure in wg (2) | | | | | | |
|--------------------------------------------------------|------|------|------|------|------|------|
| Model | 0.05 | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 |
| HBP02 | 198 | 182 | 166 | - | - | - |
| HBP03 | 289 | 262 | 219 | 150 | - | - |
| HBP04 | 478 | 441 | 399 | 341 | 245 | - |
| HBP06 | 651 | 613 | 569 | 504 | 401 | - |
| HBP08 | 777 | 722 | 681 | 658 | 628 | 536 |
| HBP10 | 1075 | 1012 | 939 | 848 | 737 | 616 |
| HBP12 | 1297 | 1236 | 1171 | 1095 | 1015 | 947 |

- Nominal air volume ratings are based on a 2-row coil at sea level altitude with 0 external static pressure
- Air volumes at alternative external static pressures are based at high fan speed

| Model | Motor | |
|-------|-------|------------|
| | HP | Total AMPS |
| HBP02 | 1/20 | 0.8 |
| HBP03 | 1/20 | 0.8 |
| HBP04 | 1/20 | 0.8 |
| HBP06 | 1/10 | 1.5 |
| HBP08 | 1/10 | 1.5 |
| HBP10 | 1/10 | 1.5 |
| HBP12 | 1/10 | 1.5 |

- Electric ratings are based on units suitable for a power supply of 115V/1Ph/60Hz

