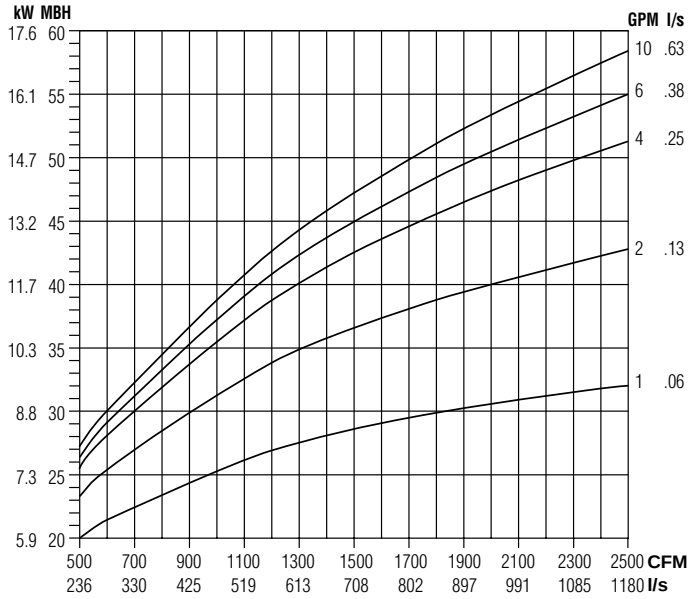
# Performance Data • Hot Water Coil • Capacities

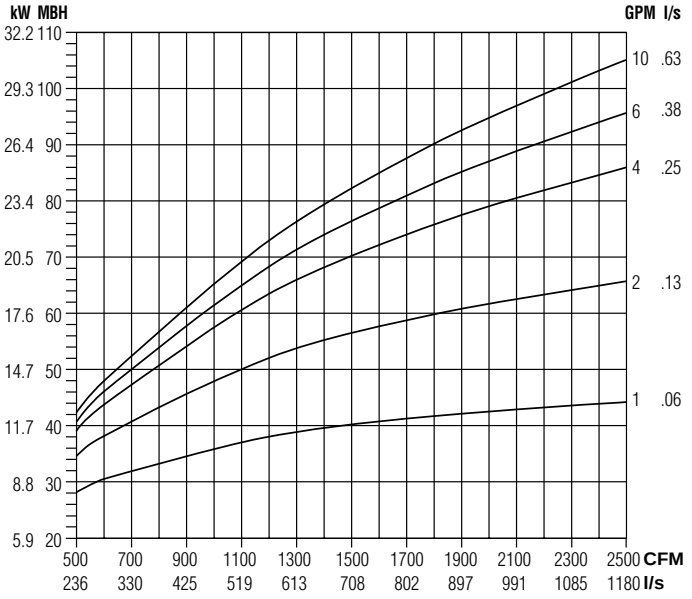
## Model: 31RW

### Unit Size 14

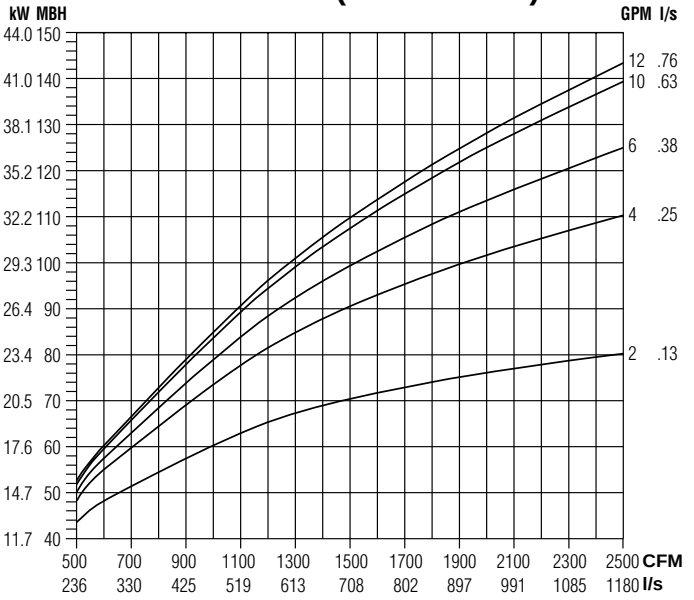
#### 1 Row (single circuit)



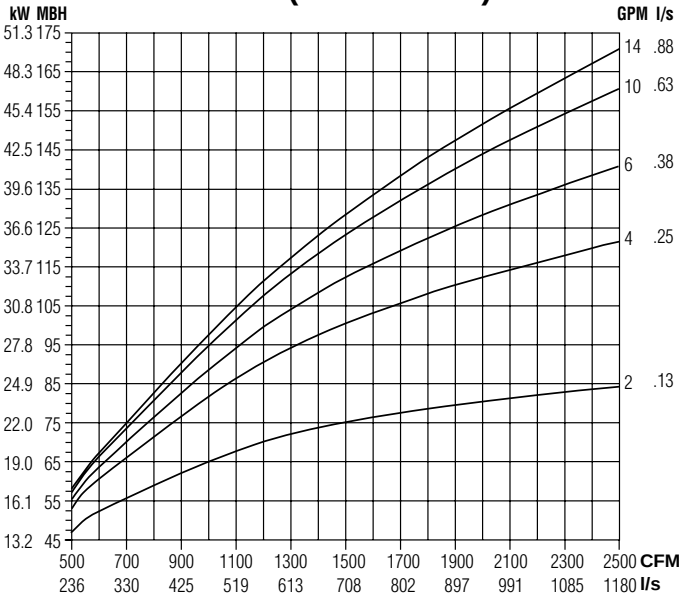

#### 2 Row (multi-circuit)




#### 3 Row (multi-circuit)




#### 4 Row (multi-circuit)




**NOTES:**

1. Capacities are in MBH (kW), ***thousands of Btu per hour (kiloWatts)***.
2. MBH (kW) values are based on a $\Delta$t (temperature difference) of 125°F (69°C) between entering air and entering water. For other $\Delta$t's; multiply the MBH (kW) values by the factors below.
3. Air Temperature Rise.
   ATR (°F) = 927 x $\frac{\text{MBH}}{\text{cfm}}$, ATR (°C) = 829 x $\frac{\text{kW}}{\text{l/s}}$
4. Water Temp. Drop.
   WTD (°F) = 2.04 x $\frac{\text{MBH}}{\text{GPM}}$, WTD (°C) = .224 x $\frac{\text{kW}}{\text{l/s}}$
5. Connections: 1 Row 1/2" (13), 2, 3 and 4 Row 7/8" (22); O.D. male solder.

**Altitude Correction Factors:**

| Altitude ft. (m) | Sensible Heat Factor |
|---|---|
| 0 (0) | 1.00 |
| 2000 (610) | 0.94 |
| 3000 (914) | 0.90 |
| 4000 (1219) | 0.87 |
| 5000 (1524) | 0.84 |
| 6000 (1829) | 0.81 |
| 7000 (2134) | 0.78 |

**Correction factors at other entering conditions:**

| $\Delta$t °F (°C) | 40 (22) | 50 (28) | 60 (33) | 70 (39) | 80 (44) | 90 (50) | 100 (56) | 110 (61) | 125 (69) | 140 (78) | 160 (89) | 180 (100) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Factor | .320 (.319) | .400 (.406) | .480 (.478) | .560 (.565) | .640 (.638) | .720 (.725) | .800 (.812) | .880 (.884) | 1.00 (1.00) | 1.12 (1.13) | 1.28 (1.29) | 1.44 (1.45) |