

Performance

Unit Tag: ERU2

Summary

Unit Details

| | | | |
|----------------|--------------------------|-----------------------------------|-------------------------------------|
| Unit Tag: | ERU2 | Orientation: | Vertical |
| Model: | B22OU - (525 - 1300 CFM) | ESP SA / RA (inH ₂ O): | 0.75 / 0.75 |
| Qty: | 1 | Filters OA / RA: | 2" 85% MERV-13 / 2" 30% MERV-8 |
| Location: | Outdoor | Controls Preference: | Constant Volume |
| Altitude (ft): | 164 | Dampers & Actuator: | In Casing - Field Mounted and Wired |
| Bypass: | No | | |

Electrical Requirements

Total Number of Connections Required: 3

| Unit | Preheat Electric Heater | Heating Electric Heater |
|------------------------|-------------------------|-------------------------|
| Voltage: 240V/1ph/60Hz | Std. Coil: 1 | Std. Coil: 2 |
| Range: 216.0 - 252.0V | Controls: SCR | Controls: SCR |
| FLA: 8.09 | Voltage: 208V/3ph/60Hz | Voltage: 208V/3ph/60Hz |
| MCA: 9.06 | Range: 187.2 - 218.4V | Range: 187.2 - 218.4V |
| RFS: 15A | FLA: 19.46 | FLA: 30.58 |
| | MCA: 24.325 | MCA: 38.225 |
| | RFS: 25A | RFS: 40A |
| | Max KW: 7 | Max KW: 11 |

Preheat Electric Heater

| Actual | |
|---|-------------------------------------|
| Outdoor Air (CFM): | 1000 |
| Voltage: | 208V/3ph/60Hz |
| kW: | 2.8 |
| Ent. Air DB/WB (F): | -4.4 / -4.5 |
| Lvg Air DB/WB (F): | 3.6 / 2.3 |
| Installation: | In Casing – Field Mounted and Wired |
| *Separate electrical connection required for heater | |

Heat Exchanger

| Design Conditions | Outdoor Air | Return Air |
|----------------------------------|--------------------|----------------|
| SCFM: | 1000 | 1000 |
| Summer DB (F) / WB (F) / RH (%): | 84.2 / 68.2 / 44.4 | 75 / 63 / 51.2 |
| Winter DB (F) / WB (F) / RH (%): | 3.6 / 2.3 / 63.1 | 70 / 54.3 / 35 |

| Performance Leaving Air | Supply Air | Exhaust Air |
|----------------------------------|--------------------|--------------------|
| SCFM: | 1000 | 1000 |
| Summer DB (F) / WB (F) / RH (%): | 78.4 / 65.3 / 50 | 80.8 / 66 / 45.9 |
| Winter DB (F) / WB (F) / RH (%): | 45.7 / 37.7 / 45.7 | 27.9 / 27.7 / 98.6 |

| Performance | Summer | Winter |
|----------------------------|--------|--------|
| Supply Air PD (inH2O): | 0.37 | 0.37 |
| Exhaust Air PD (inH2O): | 0.81 | 0.81 |
| Sensible Effectiveness %: | 63.5 | 63.5 |
| Latent Effectiveness %: | 48.7 | 48.8 |
| Total Effectiveness %: | 57.1 | 59.9 |
| EATR %: | 0.5 | 0.5 |
| OACF: | 1.00 | 1.00 |
| Net Supply Airflow (SCFM): | 1000 | 1000 |
| Energy Recover Ratio %: | 57.15 | 59.75 |
| BTU/H Saved | 10197 | 56944 |



Summer performance: Certified in accordance with the AHRI ERV Certification Program, which is based on AHRI Standard 1060. Certified units may be found in the AHRI Directory at www.ahridirectory.org.

Winter performance: Application rating is outside the scope of the AHRI ERV Certification Program but is rated in accordance with AHRI Standard 1060.

Heating Electric Heater

| Electric Heater | |
|---|-------------------------------------|
| Outdoor Air (CFM): | 1000 |
| Voltage: | 208V/3ph/60Hz |
| kW: | 8.3 |
| Entering Temp (F): | 45.7 |
| Leaving Temp (F): | 72 |
| Installation: | In Casing – Field Mounted and Wired |
| *Separate electrical connection required for heater | |

