

Interim
certificate

PHIUS-listed Ventilator



Manufacturer/Brand Name **UltimateAir**

Model **ER80M**

Options installed **UltimateAir wall mount dial ventilation control**

Testing agency Exova, Inc.

Date tested 15-Aug-2016

| Test points | Energy Performance | | | | Test Conditions | | | | |
|------------------------|---------------------------------------|---|-----------------------|-------------|---------------------------------|--------------------|-----|-------------|-----|
| | Adjusted sensible recovery efficiency | Latent recovery / Net moisture transfer | Electrical efficiency | | Apparent sensible effectiveness | Supply temperature | | Net airflow | |
| | | | Wh/m3 | W/cfm | | °C | °F | L/s | cfm |
| | - | - | Wh/m3 | W/cfm | - | °C | °F | L/s | cfm |
| Heating, 100% Air flow | 0.97 | 0.66 | 1.01 | 1.71 | 0.96 | 0 | 32 | 42 | 89 |
| Heating, 75% Air flow | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Cooling, 100% Air flow | 0.73 | 0.38 | 0.95 | 1.62 | 0.75 | 35 | 95 | 42 | 89 |
| Cooling, 75% Air flow | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

Note: Use boldface values for energy modeling, use apparent sensible effectiveness for supply air temperature calculation.

| Ventilation performance | | | | | | |
|--------------------------|----------|---------------------|-----|-------|-----------------------|-------|
| External Static Pressure | | Net Supply Air Flow | | Power | Electrical efficiency | |
| Pa | in. W.C. | m3/h | cfm | W | Wh/m3 | W/cfm |
| 25 | 0.1 | 155 | 92 | 156 | 1.01 | 1.70 |
| 50 | 0.2 | 151 | 90 | 154 | 1.02 | 1.71 |
| 75 | 0.3 | 148 | 87 | 152 | 1.03 | 1.75 |
| 100 | 0.4 | 144 | 85 | 152 | 1.06 | 1.79 |
| 125 | 0.5 | 140 | 82 | 149 | 1.06 | 1.82 |
| 150 | 0.6 | 137 | 80 | 147 | 1.07 | 1.84 |
| 175 | 0.7 | 130 | 77 | 144 | 1.11 | 1.87 |

Exhaust Air Transfer Ratio 0.08

Standby Power 6.5 W

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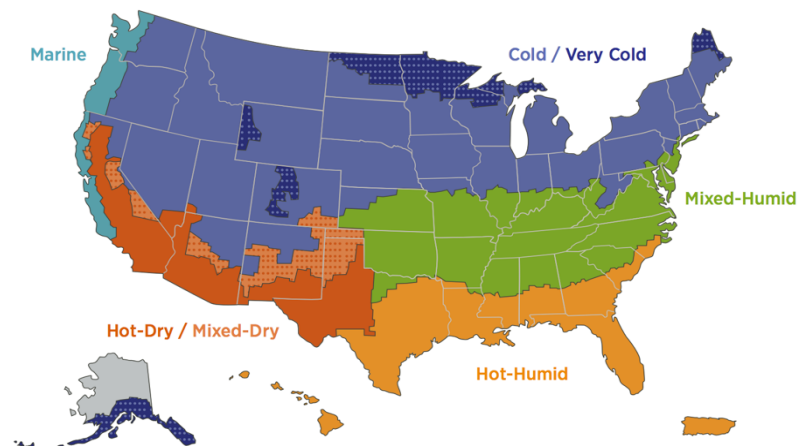
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| | |
|--|------------|
| Heating mode, coefficient of performance (COP) | 7 |
| Cooling mode, adjusted total recovery efficiency | 45% |

| Climate recommendations | | |
|-------------------------|-------------------------------------|--|
| Zone | <input checked="" type="checkbox"/> | Corresponding IECC Zones |
| Subarctic | | Zone 8 |
| Very Cold | | Zone 7 |
| Cold | | Zones 5 and 6 |
| Mixed-humid | | 4A and 3A counties above warm-humid line |
| Marine | | All counties with a "C" moisture regime |
| Hot-dry / Mixed-dry | | Zones 1B, 2B, 3B and 4B |
| Hot-humid | | 1A, 2A and 3A counties below warm-humid line |



| Very low temperature test |
|---|
| Low Temp. Ventilation Reduction Factor = N/A. |
| Low Temperature Imbalance Factor = N/A. |

Notes

Testing & reporting protocol follows CSA-C439-09 with some modifications. See product certification page at phius.org.
 Here COP is the ratio of sensible energy recovered less casing losses, to electrical energy input.
 Climate recommendations are based on heating mode COP ≥ 15 and cooling mode total recovery efficiency ≥ 48%
 Very Low Temperature Test at -25C and according to C439 is required for recommendation in Subarctic and Very Cold zones.
 Use of cooling mode test data is recommended for energy modeling in IECC climate zones 1A through 3B, if only one data point can be entered.