

always
around you



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Exova

ZEHNDER MODEL COMFOAIR 550 HRV 9252 -25°C TEST (60-72 HOURS)

AVERAGE VALUES DURING TEST

| STATIONS | 1 COLD SUPPLY | 2 WARM SUPPLY | 3 WARM EXHAUST | 4 COLD EXHAUST | NET WARM SUPPLY |
|---------------------------|---------------------|------------------|-------------------|-------------------|--------------------|
| AIR FLOW L/S | 57.3 | 57.5 | 54.6 | 54.3 | 57.1 |
| TEMPERATURE °C | -24.6 | 19.2 | 22.1 | 8.3 | 19.2 |
| R.H. % | 62.7 | 3.6 | 39.7 | 85.2 | |
| DEW POINT °C | -29.2 | -22.5 | 7.8 | 6.0 | |
| HUMIDITY RATIO | .0003 | .0005 | .0066 | .0058 | .0005 |
| ENTHALPY KJ/KG | -24.0 | 20.4 | 38.9 | 23.0 | 20.3 |
| ENERGY CONTENT, KW | -1.65 | 1.41 | 2.55 | 1.50 | |
| STATIC PRESS Pa | -28 | 22 | -26 | 22 | |
| CASE TEMP 20.5°C | AMBIENT TEMP 21.6°C | | TOTAL READINGS | | 720 |
| HRV SURFACE MEASUREMENT | 2.59 m ² | | | | |
| CALCULATED EXTERNAL INPUT | 2.01 KW | | | | |
| FROM ABOVE AVERAGES | 1.50 KW | | | | |

CALCULATIONS (ADJUSTED FOR CROSS-LEAKAGE)

| | | | |
|----------------------------------|---------------------|------------|---------|
| SENSIBLE ENERGY RECOVERED | 129609 KJ | 36.002 KWH | 3.000KW |
| SENSIBLE ENERGY EXHAUSTED | 138333 KJ | 38.426 KWH | 3.202KW |
| SENSIBLE RECOVERY EFFICIENCY | 91 % | | |
| SENSIBLE PERFORMANCE COEFFICIENT | 40 | | |
| TOTAL ENERGY RECOVERED | 131188 KJ | 36.441 KWH | 3.037KW |
| TOTAL ENERGY EXHAUSTED | 186257 KJ | 51.738 KWH | 4.312KW |
| TOTAL RECOVERY EFFICIENCY | 69 % | | |
| TOTAL PERFORMANCE COEFFICIENT | 41 | | |
| WATER RECOVERED | .60 Kg | | |
| WATER EXHAUSTED | 18.82 Kg | | |
| LATENT PERFORMANCE COEFFICIENT | .03 | | |
| CASING LOSSES | 927 KJ | .258 KWH | .021KW |
| DEFROST ENERGY (Recirc) | 0 KJ | 0.000 KWH | 0.000KW |
| SUPPLY FAN ENERGY | 970 KJ | .269 KWH | .022KW |
| EXHAUST FAN ENERGY | 2263 KJ | .628 KWH | .052KW |
| EXHAUST AIR TRANSFER RATIO | .01 | | |
| TOTAL EXHAUST FLOW | 2359 m ³ | | |
| NET EXHAUST FLOW | 2342 m ³ | | |
| TOTAL SUPPLY FLOW | 2484 m ³ | | |
| NET SUPPLY FLOW | 2467 m ³ | | |
| MAXIMUM VENTILATION | 2467 m ³ | 57.1 L/S | |
| APPARENT SENSIBLE EFFECTIVENESS | 99 % | | |