SW50+ extraordinary among all Eurovent model boxes!

1. Mechanical strength of the casing (X = mm × m⁻¹)
   Test pressure: ±1000 Pa
   Classification:
   - Max. deflection ≤ 4 mm class D1(M)
   - Max. deflection ≤ 10 mm class D2(M)
   - Max. deflection > 10 mm class D3(M)

   The remaining deflection after a test pressure of ±2500 Pa must be less than 2 mm.

2. Casing air leakage (f₄00 = l/s × m⁻¹ × m⁻²)
   Test pressure: ±400 Pa
   Classification:
   - Max. leakage rate f₄00 ≤ 0,15 class L1(M)
   - Max. leakage rate 0,15 < f₄00 ≤ 0,44 class L2(M)
   - Max. leakage rate 0,44 < f₄00 ≤ 1,12 class L3(M)

   Test pressure: ±700 Pa
   Classification:
   - Max. leakage rate f₄00 ≤ 0,22 class L1(M)
   - Max. leakage rate 0,22 < f₄00 ≤ 0,63 class L2(M)
   - Max. leakage rate 0,63 < f₄00 ≤ 1,90 class L3(M)

3. Thermal transmittance* (U=W×m⁻²×K⁻¹)
   Max. thermal transmittance factor
   - U ≤ 0,5 T1
   - 0,5 < U ≤ 1,0 T2
   - 1,0 < U ≤ 1,4 T3
   - 1,4 < U ≤ 2,0 T4
   - No requirem. T5

   *The thermal transmittance U=W×m⁻²×K⁻¹ is the rate of the heat transfer (in watts) through one square meter of the external AHU surface per 1K. It determined then the steady state temperature difference is 20K.

4. Thermal bridging* (kₚ=Δtₚ/Δtₐir)
   Max. thermal bridging factor
   - 0,75 < kₚ ≤ 1,00 TB1
   - 0,60 < kₚ ≤ 0,75 TB2
   - 0,45 < kₚ ≤ 0,60 TB3
   - 0,30 < kₚ ≤ 0,45 TB4
   - No requirem. TB5

   *The thermal bridging factor is the ratio between the lowest temperature difference and the mean air-to-air temperature difference. The lowest value of the temperature difference between any point on the external surface and the mean internal air temperature are established when the mean temperature difference between internal and external temperatures is stabilized at 20K.

5. Filter bypass leakage
   Filter bypass leakage class* G1 to F9
   Maximum filter bypass leakage rate k in % of the volume flow rate
   - 6 4 2 1 0.5

   *Filter bypass leakage class is not the same as filter material class!

6. Casing acoustical insulation
   Casing acoustical insulation at
   - 125 Hz dB
   - 250 Hz dB
   - 500 Hz dB
   - 1000 Hz dB
   - 2000 Hz dB
   - 4000 Hz dB
   - 8000 Hz dB
   - 99.5% (m³/h)
   - 100% (m³/h)

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Air Handling Units
AmberAir SW50+
D1(M) > L1(M) > L1(M) > F9(M) > T2 > TB1

1. Unique model box construction
2. Extremely tight and light
3. Maximally eliminated cold bridges and minimized leakage
4. Top casing strength class
Construction FEATURES

› Joints-profile connected with blocking screws which ensures air tightness
› Thermal breaking profiles with 25 mm plastic strips
› Profiles internally rounded for easy cleaning
› Galvanized steel and powder coated grey color RAL 7040
› New generation polyurethane panels 45mm
› Internal adhesive gasket insulation
› External gasket insulation
› Extremely rigid plastic corners
› Special plastic panels covering

AmberAir units tested at TÜV SÜD Industrie Service GmbH Center of Competence for Refrigeration and Air Conditioning.