# Appendix C: Target Catalog

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| **Functions**  | **Metric**  | **Target**  | **Description**  |
| Support Air Ducts and Equipment  | Weight  | ??  | Equipment supports itself  |
| Monitor Humidity  | Relative Humidity  | 1%  | Measure relative humidity within 1% of its true value  |
| Increase and Decrease Humidity  | Relative Humidity  | 0-95% RH  | Relative humidity is desired to reach any value in this range  |
| Monitor Temperature Change  | Temperature  | 1°C  | Measure temperature within 1°C of its true value  |
| Add and Remove Heat  | Temperature  | 10°C ≤ T ≤ 55°C   | Temperature is desired to reach any value in this range  |
| Regulate Air Circulation  | Volumetric Flow Rate  | 1 m3/min  | Air handling unit should be capable of providing this flow rate  |
| Monitor Hot and Cold Spots  | Sensors  | 3 sensors  | Measure temperature from at least 3 places in the control volume  |
| Maintain Structural Stability  | Deformation  | ~ 5%  | Chamber should not move or deform  |
| Provide Clearance for Overhead Crane  | Area  | OSHA requires only 2” of clearance on the side and 3” above.  | There should be no obstructions in the way of the crane  |
| Display Information  | Display temperature and Humidity  | Yes, they are always displayed during testing  | Temperature and humidity will be always shown  |
| Allow Access from All Sides  | Number of accessible Sides  | 4 sides  | Allow access to the compressor from the front, back, left, and top sides  |
| Enable Efficient Exchange of Compressors  | Ease of compressor removal and installation  | Yes, the compressors were exchanged successfully  | Enable installation of other compressors  |
| Provide Clear View of the Compressor  | Visibility  | 360° visibility  | Compressor is fully visible from 360° during the entire testing process  |
| Adjust Temperature and Humidity Automatically  | Automatic adjustment  | No human action required to reach the desired conditions  | Desired temperature and humidity are reached automatically by the system  |
|   | Time  | 1 minute  | Allow cancellation of the process for emergencies within a reasonable timeframe  |
|   | Total Transmittance  | 90% ± 10%  | There should not be significant condensation on the walls of the chamber to lower the transmittance of the wall  |
|   | Time  | 15 minutes  | Design can be assembled and disassembled within a reasonable time  |