

Environmental Test Systems

Environmental Test Systems

Manufactured products can be exposed to both thermal and mechanical stresses.

These should not be considered separately, as the effects may be linked.

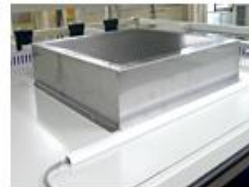
IMV can supply vibration-test systems combined with climatic chambers to provide complete vibration, temperature and humidity environmental testing.

These systems can be custom-designed to meet your application.



▶ Chamber for Vertical Excitation	▶ Chamber for both Vertical and Horizontal Excitation
▶ Chamber for Multi-Axis Excitation	▶ Prefabricated Chamber for Large Specimens
▶ Controllers	▶ Option

Chamber for Vertical Excitation



Inner pressure regulator

Model : Syn-3HA-40-V

Internal dimensions	W1000×D1000×H1100mm
Temperature range	-40°C~+150°C
Humidity range	20%~95%RH
Temperature pull down time	+20°C → -40°C In 60 minutes (Curve gradient)
Temperature heat up time	-40°C → +150°C In 90 minutes (Curve gradient)

Docking image of combined systems



Model : Syn-6HW-30-V

Internal dimensions	W1800×D1900×H1500mm
Temperature range	-30°C~+80°C
Humidity range	60%~95%RH
Temperature pull down time	+45°C → -30°C In 35 minutes (Curve gradient)
Temperature heat up time	-30°C → +80°C In 25 minutes (Curve gradient)

Chamber for both Vertical and Horizontal Excitation

Horizontal slip table combined vibration test system.

Combining a rail support for horizontal move and a lift support for vertical move, chamber combined test for both vertical and horizontal axis.



Vertical use



Horizontal use

■ Rail and lift support

Model : Syn-3HA-70-VH



Internal dimensions	W1000×D1000×H1000mm
Temperature range	-70°C~+180°C
Humidity range	20%~98%RH
Temperature pull down time	1°C/minutes or more (Curve gradient)
Temperature heat up time	2°C/minutes or more (Curve gradient)

Chamber for Multi-Axis Excitation

Temperature, humidity chamber for multi-axis vibration test system.
Total test time can be reduced by eliminating the need to reconfigure for testing each axis.

2-axis

Model : Syn-4HA-40-M



Internal dimensions	W1200×D1200×H1000mm
Temperature range	-40°C~+150°C
Humidity range	20%~98%RH
Temperature pull down time	+20°C => -40°C In 80 minutes (Load condition:combined + aluminum 60kg)
Temperature heat up time	-40°C => +150°C In 80 minutes (Load condition:combined + aluminum 60kg)

3-axis

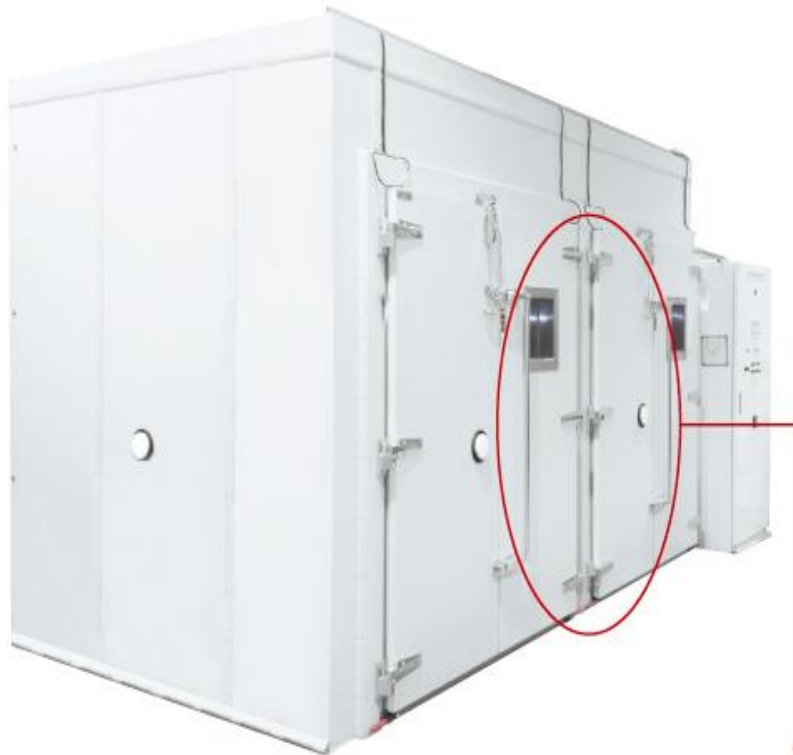


Model : Syn-3HA-40-M

Internal dimensions	W1000×D1000×H1000mm
Temperature range	-70°C~+180°C
Humidity range	20%~98%RH
Temperature pull down time	+20°C => -70°C In 40 minutes (Curve gradient)
Temperature heat up time	-70°C => +180°C In 40 minutes (Curve gradient)

Prefabricated Chamber for Large Specimens

Large-sized specimen can be tested with a chamber combined test in both vertical and horizontal axis



Model : Syn-6HA-40-VH

Internal dimensions	W4000×D2000×H2500mm
Temperature range	-40°C~+120°C
Humidity range	30%~95%RH
Temperature pull down time	+20°C => -40°C In 120 minutes (Curve gradient)
Temperature heat up time	-40°C => +150°C In 150 minutes (Curve gradient)



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