

구 매 규 격 서

COMMODITY DESCRIPTION

품목번호 Item No.	관세분류번호 HSK No.	정부물품분류번호(8자리) Korean Government Commodity Classification Code(eight-digit)	품 명 Description	단위 Unit	수량 Q'ty
1	9031.80.9099		Ultra Highly Accelerated Life Test System	System	1

I. 용도(End-user's Use)

1. The equipment can be used to carry on the accelerated life test such as ESS, HALT, HASS etc.
2. The composition of this equipment is a multi axis (6DOF) vibration system, high fast temperature change rates system.
3. The system provides multi stress testing capability for during design and production to assure robust and mature product with reliable long life.
4. This system has two Bi-Parting opening(Wing Type) with inspection window both front and back.
5. Automatic and manual control of temperature and vibration.
6. Control S/W with PC system included.

II. 성능 및 규격(Performance and Specification)

1. Temperature range : more than -100°C~+200°C
2. Temperature Rate: 70°C/min product temperature change rate for heating and cooling with 25Kg of Aluminum mass loaded.
3. Cooling : Liquid Nitrogen direct injection.
4. Thermocouples :
 - * For control :
One(1) air and one(1) for product.
 - * For monitoring
Fourteen (14) channels.
5. Internal dimensions :
 - Over 1000 * 1000 * 1200 (W*D*H)mm
6. Vibration Tables :
 - Two separate tables for Max 200Grms with table size:
over 910 x 910mm with 100mm grid pattern for Max 100 Grms vibration table.
over 2,826 cm² for Max 200 Grms vibration table
 - Both vibration table should be interchangeable easily
7. Acceleration : up to 100Grms with 90% of vibration energy in 5-4000Hz for maximum low energy in low frequency range.
Wide frequency range : 2 ~10khz, with 10kHz cutoff function
 - For high G vibration table performed over 1000G spike.
8. Max. Payload : more than 320kg.

9. Door : Two(2), Bi-parting opening both front and back
10. Window : Four(4). Tempered multi-layer glass in each door with defrosting function.
11. Ports : Three(3) 150mm diameter for customer use
12. Insulation : Multi-layer staggered insulation for superior thermal and noise insulation.
13. Internal lighting: more than 3ea.
14. Control System
 - a) PC system
 - Pentium 4, 3.0GHz, 1GB RAM, 320G, HDD, CD/RW, 19" LCD Monitor, Key board and mouse.
 - b) Built-in computerized control system in chamber.
 - c) Vibration spectrum analyzer system
 - 4 Input channels for Accelerometer
 - d) Serial ports : RS232/RS485 MODBUS
15. Utility
 - a) Electric Power :
 - Voltage : 380V/60Hz/3ph
 - Wire work : from electric distributor to chamber.
 - b) LN2 System
 - Minimum capacity of 3 ton tank included in base construction
 - Piping construction from tank to chamber by vacuum jacket insulation
 - GN2 purge system
 - LN2/GN2 liquid and gas separation system
 - Tank installation work included.
 - c) Compressed Air
 - All related components included such as compressor, reserve tank, air cooler, air dryer, filter, housing, piping connection.
16. Accessories
 - 1) Fixture set
 - 2) Oxygen sensor system
 - 3) Fourteen(14) thermocouples
 - 4) Four(4) accelerometer with cable(3m)
 - 5) One(1) 3 axis mounting block for accelerometer
 - 6) Wifi system with wireless camera (1EA)

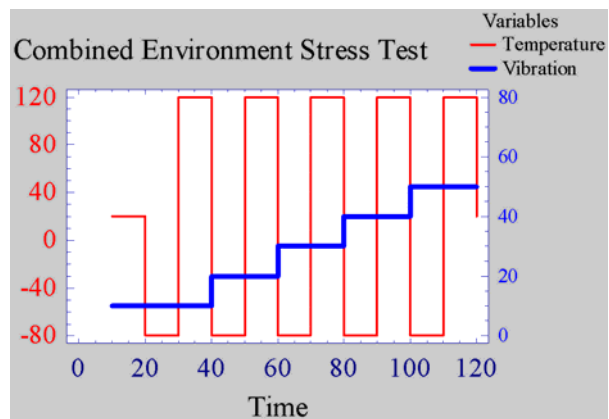
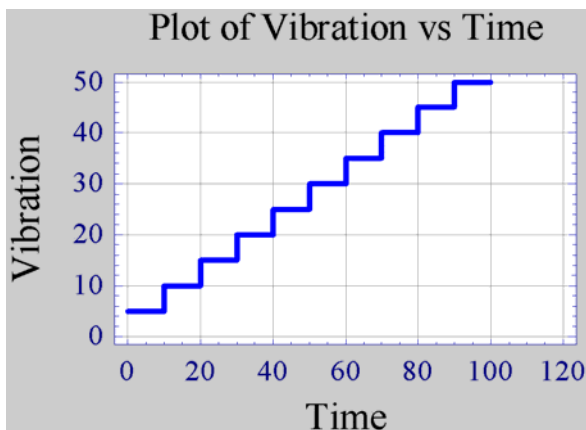
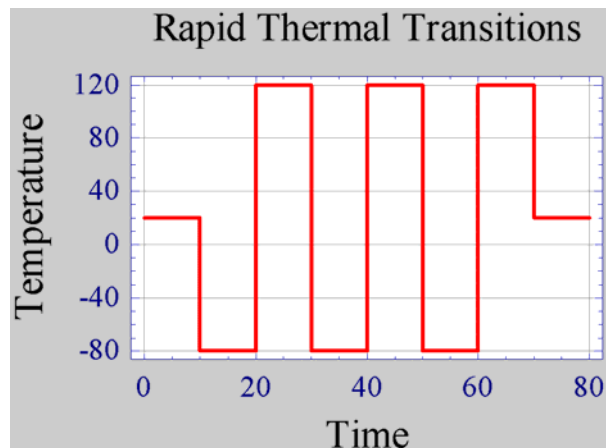
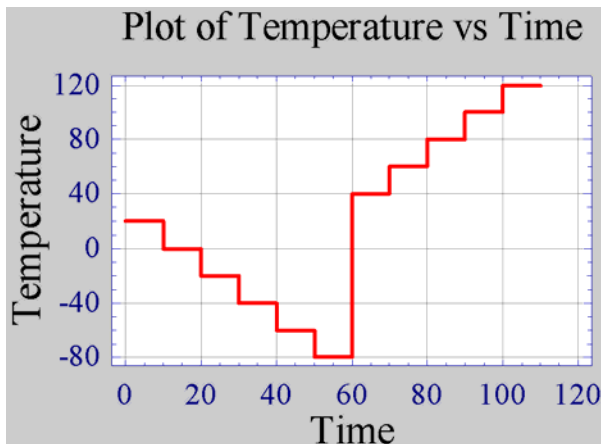
III. 기타 조건(Remarks)

- 1) Inspection : Factory final inspection for 1 week, 2 peoples. All related cost will be included.
- 2) Training :
 - 1st : during inspection at factory.
 - 2nd : after installation at customer site.
 - 3rd : 2 months later from secondary training.

3) The verification for the following performance should be presented separately with the real test pictures and tested data together with application forms.

- a) Proposed temperature performance data
- b) Proposed max acceleration data: PSD vs Acceleration @ Max Payload
- c) Proposed frequency excitation range data

※ Examples of Test Data (refer GMW8287)



- 4) The proposed HALT chamber must be available to perform 'GMW8287 Test Procedure Analysis (Highly Accelerated Life Testing)'.
- 5) Delivery : F.O.B 3 months after receipt of L/C.
- 6) Payment : 80% after shipping, 20% after acceptance
- 7) Manual : 2 copies of operation in English and Korean
- 8) Warranty : 3 years after issued F.A.
- 9) Supplier should support all related utility connection.
- 10) After installation, final test examination report should be submitted with a test check list.
- 11) The company who has HALT Chamber supply experiences of similar (or larger) requirements described in 'Section II' is strongly preferred.
- 12) The introduction material of a supplier and a manufacturer with recent brochures.