



Environmental Chambers - Service & Maintenance

Weiss Umwelttechnik GmbH, Germany is one of the most important producers of standard testing chambers and systems for environmental simulation worldwide. The product range comprises temperature and climate testing systems as well as test systems for simulated exposure to weather, temperature shock, corrosion and for long-time testing in various test chamber volumes. Walk-in /drive-in chambers and process-integrated plants for environmental simulation and biology are designed, produced and installed in accordance with customer specifications. Weiss Umwelttechnik is certified according to DIN EN ISO 9001.

Structural Solutions Private Limited is a professional ISO 9001 Certified Engineering Company engaged in offering high-end technology-intensive products and systems solutions. Staffed and managed by Engineers with several years of unmatched exposure and hands on experience in diverse and complex application areas. We are dedicated to provide Indian customers with products and services to match the international market.

We are pleased to inform you that we are the authorized exclusive Indian representative for sales & service for "Weiss Umwelttechnik GmbH" for the complete range of "Environmental Chambers".



Service and Maintenance

Units and systems for environmental simulation are state of art systems involving electronics, electrical & mechanical components which means that these systems require careful Handling and maintenance. Buying a good machine is not the end. It has to be maintained properly. A product without proper maintenance can acquire a bad quality and even the reliability is lost. High precision industrial products like these need to be handled by trained personnel from the company.

Keeping in view of how carefully these systems should be handled we have Service team who are always looking forward to help you maintain your chambers.

SSPL Service program offers complete Engineering and technical support emergency service, instrumentation upgrades, service contracts as well as upgrades to environmentally safe refrigerants.

Our Detailed Service program includes:

General Inspection

A free inspection of the existing equipment which includes checking the condition of the compressor and other components in the refrigeration system. Suggesting replacement, if found faulty or abnormality or done its life due to normal wear & tear.

Preventive& Predictive maintenance Programs

We offer a very cost effective "Annual Maintenance Contract". In this, we offer two preventive and predictive maintenance visits every year and three emergency visits.

In the preventive and predictive maintenance we analyze your systems and anticipate problems which might arise, if any and suggest you the preventive measures which will help in keeping the machine in good working condition and keeping the machine from minimum breakdowns.

Preventive maintenance affords you with the assurance that your test equipment will continue to perform to specifications year after year.

During each visit, all electrical components, refrigeration components, control panel, safety devices, gas levels, cooling rate, heating rate, resetting of expansion valves & other control devices, will be done.. Where possible, routine minor adjustments will be made to return your equipment to top running condition as a part of this service. Upon completion of the inspection, our service technician will provide you with detailed recommendation of any additional repairs that may be needed

Here is a brief over view of the systems and components inspected by us during preventive maintenance visit:

Electrical System

- Main disconnect
- Phasing
- Line and control voltage and connections
- Contact points, timer settings, fuses, and grounding
- General condition of boxes, labels
- Compressor head fans & crankcase heaters
- Heater frames and elements
- Resistance Verification (Ohms)
- Compressor three-phase and single-phase applications
- Heaters & steam generator elements
- Current Verification (Amps)
- High stage, low stage compressors
- Heaters and blower motor

General Items

- Condition of chamber, insulation, and quiet package
- Panels and knobs
- Drip pan
- Door and door latch
- Interior light bulbs
- Fan blades and blower wheels

Instrumentation

- Reading correctly
- Sensors
- Software

Refrigeration

- Low and high stage refrigerant charge
- Low and high stage pressure switch settings
- Low and high stage oil level capacity controls
- Condenser and evaporator coils
- Inlet and outlet water temperature
- Inlet and outlet water pressure
- Water regulator
- Leak check
- Solenoids
- Cap tubes
- Oil separators
- Valves
- Armaflex on bulbs
- Acid test on compressor oils

Humidity

- Checking Humidification sleeve
- Checking the Drain Tube
- Checking the Humidity Sensor
- Checking the Water feed tube

We go a step further and offer no limits on the number of emergency visits. Also, if the chamber is very special, we will be also arranging for an expert from "Weiss" every year.

Spare parts

Though Weiss Environment Chambers seldom need spare parts, However all machines need few spares and these need to be stocked. The local spares may not exactly match the specifications supported by the systems and also need not be genuine. The quality of the spares being used also affects the performance of the system and the system might require frequent servicing and hence increase the maintenance costs.

We will advise on the minimum essential stock of spares, which you can buy directly from "Weiss". This will ensure that you have minimum down time, assured of genuine spares and it will be less expensive.

Refrigerant Modifications

We will be very happy to help you in converting your chamber, if required, from "CFC" to "non-CFC" refrigerants. Here also, you have an option to buy the whole conversion kit from "Weiss" and we will charge only nominal service charges.

During a retrofit, the lubricant found in the old plant is exchanged with polyster oil. Here the mineral oil or alkyl benzene oil should be removed as completely as possible from the plant in order to avoid deposits of the insoluble oil in the evaporator and there by prevent associated capacity

reductions due to reduced heat transfer. Upon completion of retrofit, the amount of foreign substances (deposits and old oil) in the polyolester oil should not exceed 5%. In order to achieve this, several ester oil changes are necessary. Depending on the size of the refrigerating plant and the evaporating temperature, generally two to three oil changes are required.

Some of our valued customers who have taken up Annual maintaence contracts from us include leading Automotive industries, Defence Sectors, Pharmaceutical Industries and Instrumentation Industries.

We have what it takes to keep your environmental test equipment running as it should. From parts and service to technical expertise and money-saving programs, Give us a call today to find out more.

For all these and much more You can contact our service team consisting of managers/engineers and comfortably located across India, who will be very happy to take your call and provide you with their best services.

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1	Mr. Pawan Kumar	093924 95309	301 & 303 Eldorado Estate 3-6-526, Himayathnagar Hyderabad 500 029
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6	Mr. Saravanan	093423 41751	Saijothi, A-F1, 1, 3rd Street Satyavathi Nagar Officer's Colony Anna Nagar West Extn. Chennai 600 101

Please inform us the following about the chamber during Service call which can help us provide you with the best services:

- 1) **Type Number/Model Number**
- 2) **Serial Number**
- 3) **Year of manufacturer**
- 4) **Earlier service problems, if any**

➡ **For further product & application details please contact:**

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