

Base Mount UTM-130

Environmental Chamber

ADVANCED PAVEMENTS TESTING SYSTEMS



IPC Global offers a range of environmental chambers to suit their Universal Testing Machines (UTMs), allowing the user to analyze the performance of materials at non-ambient temperatures.

IPC Global's research specification environmental chambers have been designed specifically to fully conform with all the main ASTM, AASHTO, EN and AS standard test methods for determining the mechanical performance of asphalt mixtures.

Features

- Programmable Digital Controller—PID tuning, temperature ramps and dwells, auto-tuning, selectable sample time
- Four access ports
- Stainless steel AISI 304, 18/10 heavy duty construction
- Triple-glazed, Argon filled, Lo E glass door
- Defrost system & interior lighting
- Fan forced ventilation
- Ergonomic design provides easier access to chamber
- Easily repositioned with lockable wheels
- Fully adjustable temperature probe for greater accuracy
- Independent chamber sits on the floor eliminating mechanical vibration to testing machine.

Specifications

Temperature

Standard Range -25°C to +60°C

Extended Range -50°C to +100°C

Temperature Accuracy +/- 0.2°C*

* At centre of chamber near test specimen

Extended Range Maximum Cooling Rate

> -50°C/hour*

* Dependant on thermal mass within chamber

Extended Range Programmable Temperature Gradient

-20°C/hour with ramp control

Dimensions and Weight

External Dimensions 1,750x580x1,150mm (HxWxD)

Internal Dimensions 880x440x580-710mm (HxWxD)

Standard Range Weight 210kg

Extended Range Weight 250kg

Electrical Requirements

Standard Range 1.7kW Single Phase, 230V 50Hz, or 220V 60Hz, or 110V 60Hz

Extended Range 4kW Three Phase, 400V 50Hz, or 208V 60Hz, or 240V 60Hz, or 480V 60Hz

Ordering Information

79-PV70E32 – UTM-130 Environmental Chamber (-50°C ~ +100°C)

79-PV70E42 – UTM-130 Environmental Chamber (-25°C ~ +60°C)

Additional accessories may be required to create a working testing system. Please contact us for advice.

High Quality Mechanical Refrigeration System

The superior construction of these high quality chambers utilizes state-of-the-art VFD inverter technology, high-efficiency single or double compressor mechanical refrigeration, stainless steel construction, multiple fan air circulation, advanced insulation and triple glassed doors to ensure exceptional performances in term of temperature stability and homogeneity, total control over ramps and dwells, reliability over long term intensive use, accurate performing of complex tests e.g. TSRST.

Four access ports are provided to facilitate the use of on-specimen transducers and other measuring devices.



TSRST Thermal Stress
Restrained Specimen Test

► IPC Global Customer Care

At IPC Global we are proud of our products.

We are dedicated to supplying high quality, accurate, affordable, easy-to-use systems for Advanced Testing of asphalt, binders and other pavement materials. As a valued customer of IPC Global you will receive continuous, expert support and advice for your instrument. Furthermore, we offer full installation and training in the correct operation of your IPC Global equipment. For support from our expert Customer Care Team, contact your local IPC Global-Controls office/distributor or email ipcglobalsupport@controls-group.com.

Visit our website for more information www.controls-group.com/ipcglobal.



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