Environmental chambers for Universal Testing Machines UTM

MAIN FEATURES

- **Closed-loop PID temperature controller**
- **Four access port (models for UTM-130), two access ports (model for UTM-30)**
- **Stainless steel AISI 304, 18/10 heavy duty construction**
- **Triple glazed, argon filled, Lo glass door**
- **Defrost system and interior lightning**
- **Fan forced ventilation**
- **Ergonomic design provides easy access to chamber**
  Additional features for extended range models only:
- **Programmable digital controller - PID tuning, temperature ramps and dwells, auto-tuning, selectable sample time**
- **Extended range maximum cooling rate > -50°C/hour (dependent on thermal mass within chamber)**
- **Extended range programmable gradient of -20°C/hour with ramp control**
- **Fully adjustable temperature probe for greater accuracy**

GENERAL DESCRIPTION

IPC Global's environmental chambers use a high quality mechanical refrigeration system and superior insulation technologies to enable users to analyze materials' properties at real-life working temperatures (up to -50 to 80/100° C) for extended periods without the need of LN_2. High accuracy and total control over temperature ramps and dwells are achieved using the Programmable Digital Controller enabling users to easily perform complex test e.g. Thermal Stress Restrained Specimen Test (TSRST).

The **Environmental chamber** can be used as part of your **Superpave performance based testing** program.

TECHNICAL SPECIFICATIONS

Environmental chambers for UTM-130 and UTM-130XL

	79-PV70E32 Extended range		79-PV70E52 Extended range
Compatible UTMs	UTM-130 79-PV70C05 79-PV70C06	UTM-130 79-PV70C05 79-PV70C06	UTM-130XL 79-PV70C15 79-PV70C16
Temperature range	-50 to+100°C	-25 to +60°C	-40 to +100°C
Temp. gradient	-20°C/hour with ramp control	-	-20°C/hour with ramp control
Mounted on wheels	Yes	Yes	Yes
Power rating W	4000	4000	4000
Dims. (w x d x h)mm	580 x 1150 x 1750	580 x 1150 x 1750	960 x 1700 x 1800
Weight (approx.) kg	250	210	300

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Environmental chambers for UTM-30

Models	79-PV70E12	79-PV70E22 Extended range
Compatible UTMs	UTM-30 79-PV70B12 79-PV70B02	UTM-30 79-PV70B12 79-PV70B02
Temperature range	-25 to +70°C	-50 to +80°C
Temperature gradient	-	-20°C/hour with ramp control
Mounted on wheels	No	No
Power rating W	1700	5000
Dimensions (w x d x h)mm	920 X 905 X 1800	920 X 835 X 1850
Weight (approx.) kg	220	350

Environmental chambers for UTM-16P

Model	79-PV70E02
Compatible UTMs	UTM-16P 79-PV70A02 79-PV70A12 79-PV70A14
Temperature range	-25 to +60° C
Temperature gradient	-
Mounted on wheels	No
Power rating W	1800
Dimensions (w x d x h) mm	710 x 805 x 2985
Weight (approx.) kg	170

ORDERING INFO

79-PV70E32   Environmental chamber for UTM-130 with working temperatures from -50 to +100° C.
208, 240, 400 or 480 V, 50-60 Hz, 3 ph

79-PV70E42   Environmental chamber for UTM-130 with working temperatures from -25 to +60° C
110, 220 or 230 V, 50-60 Hz, 1 ph

79-PV70E52   Extra large version environmental chamber for UTM-130XL with working temperatures from -40 to +100° C.
208, 240, 400 or 480 V, 50-60 Hz, 3 ph

79-PV70E12   Environmental chamber for UTM-30 with working temperatures from -25 to +60° C.
110, 220 or 230 V, 50-60 Hz, 1ph

79-PV70E22   Environmental chamber for UTM-30 with working temperatures from -50 to +80° C.
208, 240, 400 or 480 V, 50-60 Hz, 3 ph

79-PV70E02   Environmental chamber for UTM-16P with working temperatures from -25 to +60° C.
110, 220 or 230 V, 50-60 Hz, 1 ph

ACCESSORIES

79-PV70116   Temperature measurement kit (-50 to +100° C) including two probes.

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DATA SHEET

Environmental Chamber for Universal
Testing Machine UTM-130, 79-PV70E32

Environmental Chamber fitted with
UTM-16P, 79-PV70E02

Environmental Chamber fitted with
UTM-30, 79-PV70E12

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