

LABPLANT REFRIGERATED IMMERSION PROBES

CONTROLLED AND
UNCONTROLLED COOLING TO
-55°C & -95°C



EXCEPTIONAL REFRIGERATION TO -95°C
SAFE CONTINUOUS OPERATION
ENVIRONMENTALLY CONSCIOUS DESIGN
ENHANCED MOBILITY AND LOAD-BEARING

FEATURES

DURABLE MILD-STEEL-POWDER COATED MODELS
ELIMINATES DANGEROUS HANDLING & STORAGE
CHOICE OF 3 PROBES & CUSTOMISED AVAILABLE
DIGITAL PID SYSTEM ON CD MODELS

ALL 4 OF THE LABPLANT REFRIGERATED IMMERSION PROBES ARE SIMPLE TO USE, WITH EACH UNIT AVAILABLE CONTROLLED OR UNCONTROLLED.

2. WHEN USING PID CONTROLLER VERSIONS, THE PT100 SENSOR IS IMMERSSED, AND THE CONTROLLER IS SET TO THE REQUIRED TEMPERATURE.

1. THE PROBE IS IMMERSSED IN A SUITABLE LIQUID (I.E. METHANOL, ETHANOL, TRICHLOROETHYLENE) IN A DEWAR VESSEL OR OTHER WELL-INSULATED LIQUID CONTAINER, BEFORE SWITCHING THE REFRIGERATION SYSTEM ON.

3. THE LIQUID MUST BE STIRRED WITH ALL UNITS TO ACHIEVE OPTIMUM TEMPERATURE STABILITY.

FREEZE DRYING
TRAP COOLING
LOW-TEMPERATURE REACTIONS
RAPID LIQUID COOLING

APPLICATIONS

LOW-TEMPERATURE MATERIAL FRACTURE TESTS
THERMOMETER CALIBRATION
TUNDRA PLANT GERMINATION EXPERIMENTS
ELECTRONIC COMPONENTS TESTING

*CD Units are Temp Controlled	HC60 & HC60CD	HC100 & HC100CD
Minimum Operating Temperature	-55°C	-95°C
Maximum Probe Temperature	+20°C	+20°C
Heat Removal at: -10°C	200 Watts	195 Watts
-30°C	140 Watts	160 Watts
Cool time (Method: 2ltr Stirred Methanol in Insulated Dewar Vessel)	0°C to -55°C: 2 Hours	0°C to -95°C: Under 4 Hours
Unit Dimensions (L x W x D cm)	49 x 39 x 43	72 x 39 x 43
Unit Weight	21Kg	46Kg
Power Supply: 230V 50/60Hz	7A	10A
Available Probes: Standard-Flexible (460mm Length x 16mm Diameter); Long-Flexible (635mm L x 12mm D); Short-Rigid (200mm L x 30mm D) and Custom Designs available		

HC60 AND HC100

UNCONTROLLED UNITS WITH CONTINUOUS COOLING REQUIRING EXTERNAL TEMPERATURE CONTROL. FEATURING SPARK-PROOFED ELECTRICS, A REINFORCED PROBE WITH AN ANTI-KINK SPRING, AND IMPROVED MOBILITY.

HC60CD AND HC100CD

CONTROLLED UNITS WITH DIGITAL PID CONTROLLER AND TEMPERATURE PROBE. THEY CONTROL TEMPERATURE BY ADJUSTING THE FLOW OF REFRIGERANT TO THE COOLING PROBE USING A SOLENOID VALVE.

LAB PLANT UK



SPRAY DRYER
MANUFACTURER
& PETROCHEMICAL
PTE SUPPLIER



CONTACT US FOR A FREE QUOTE

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QUESTIONS?

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