



Interior of HA-1068.3F showing test molds, screw drive and disengage lever.



Elite Series Automated Ductilometer

ASTM D113, D5892, D6084; AASHTO T51

The HA-1068 Ductilometer features Humboldt's Elite Series Controller. This touch-screen controller provides you with full, graphical monitoring of all testing functions in a stand-alone application, while also providing the ability to control the machine from a networked computer or just port data from the controller to a networked computer.

The HA-1068 Controller provides precise speed control of the DC, stepper motor maintaining constant speed, entirely vibration-free, from 5 to 100mm/min. The unit provides for three test briquettes per testing sequence with a maximum carriage travel (elongation) of 150cm and an automatic stop feature. The machine also provides a manual disengage lever for quickly disengaging the screw drive to return the testing carriage back to the start position after a test completion. This feature allows multiple tests to be run without having to wait for the machine to reset itself.

The HA-1068 has a stainless steel interior with an overflow connection, and a baked enamel stainless steel-wrapped exterior. Gears are bronze or brass; all other parts are solid brass to prevent rusting. Finned stainless steel tubes beneath a false bottom provide efficient thermal transfer. A single stainless steel lead screw mounted above water level prevents agitation of water and premature rupture of specimens. A traveling pointer adjusts to zero starting position and indicates exact position of carriage on a linear centimeter scale attached to trough's front edge.

In stand-alone mode the controller provides you with full, graphical monitoring of all testing functions, while maintaining full computer control when desired. The seven-inch, waterproof screen provides at-a-glance monitoring of testing functions, in a real-time graphical display, without the use of a computer, building upon Humboldt's dedication to modular, stand-alone data acquisition.

You will be able to run tests and display results while viewing tabulation, basic x-y graphs and instrument readings in real-time during the test, using user-defined, basic data acquisition. Test data is stored in the device and can be downloaded to a USB drive via the machine's FRONT USB port or the data can be transferred to a computer via the LAN port.

A second USB port located on the back of the machine can also be used to power a wireless access point, which can provide a wireless hook-up with a computer, if no LAN is available.

The HA-1068 Ductilometer is sold without a circulating temperature controller. If desired, choose a circulating temperature controller with the correct AC requirements. The temperature-controller provides a solid-state, thermostatically controlled bath and circulator to maintain water temperature within a $\pm 0.9^{\circ}\text{F}$ ($\pm 0.5^{\circ}\text{C}$). The temperature range is: -10°C to 80°C and the heating capacity is 1000W with a 0.1°C stability. Includes a 6' (183cm) cord, feed-through switch and 3-prong plug and 3 standard H-1080 briquette molds with H-1090 plates. Trough overall dimensions: 11.75" x 74" x 6.375"H (30 x 188 x 16cm). Acrylic Cover is included with this machine.

Elite Series Ductilometer, 120/220V 50/60Hz
HA-1068.3F



Shipping wt. 425 lbs (193kg)

Circulating Temperature Controller

The H-1068CB Circulating Temperature Controller is designed for use with the H-1068(x) ductility machine. It provides a solid-state, thermostatically controlled bath and circulator to maintain water temperature within a $\pm 0.9^{\circ}\text{F}$ ($\pm 0.5^{\circ}\text{C}$). Temperature range is: -10°C to 80°C . 1000W heating capacity with 0.1°C stability. Dimensions: 25" x 9" x 19" (635 x 229 x 483mm).

Circulating Temp. Control, 120V 60Hz H-1068CB

Circulating Temp. Control, 220V 60Hz H-1068CB.2F

Circulating Temp. Control, 220V 50Hz H-1068CB.5F



Shipping wt. 80 lbs (36.2kg)