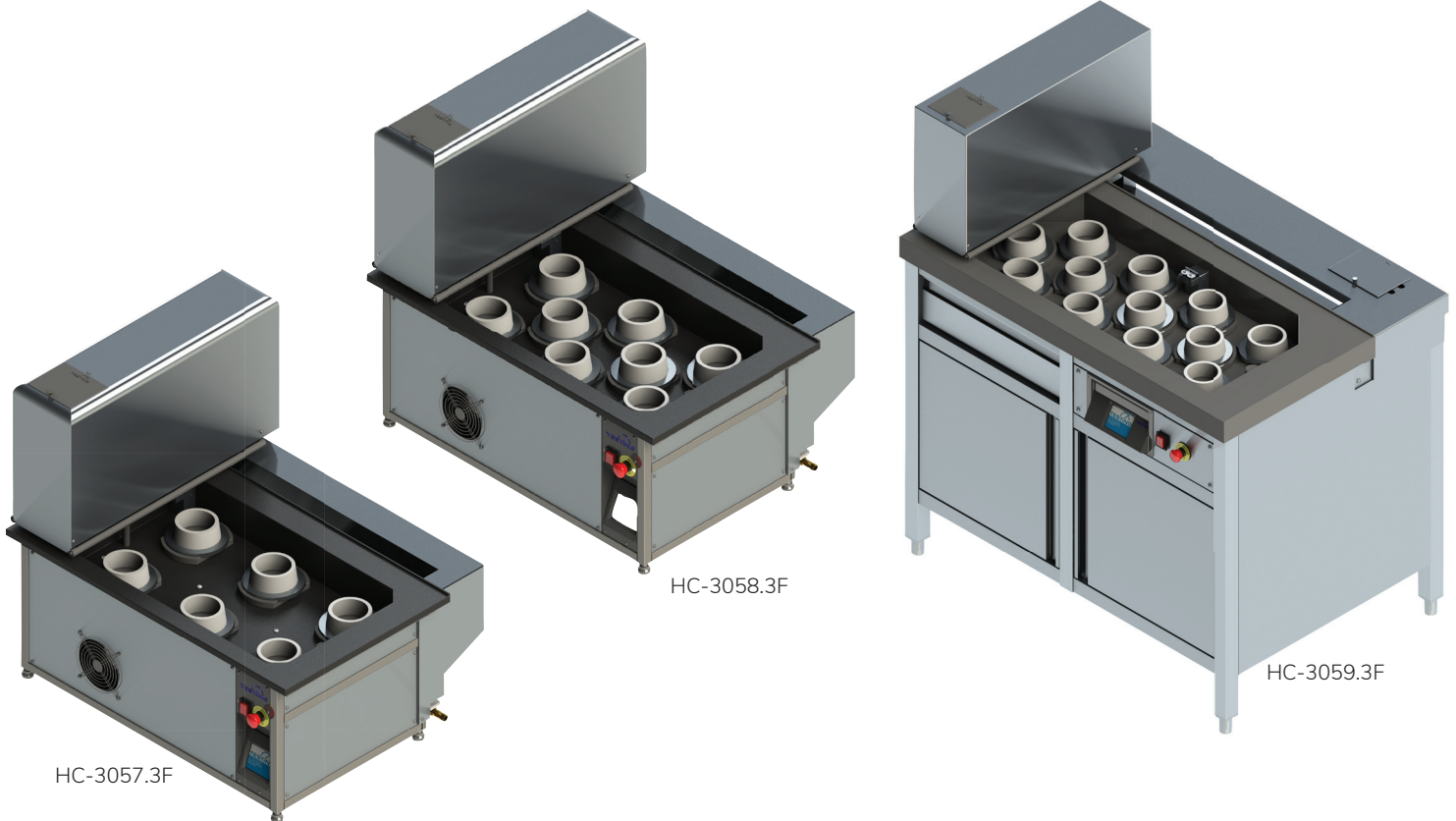




# HUMBOLDT

## Computer-Controlled Vicats Multi- and Single-Station Units



### Vicat Apparatus—

#### Multi-Station, Computer-Controlled

ASTM C187; C191 Method B; C472; AASHTO T131; EN 196-3, EN 480-2; EN 13279-2; EN 13454-2; EN 13963; NF P15/431 and BS 4550

These automatic computer-controlled Vicat units provide a completely automatic method for determining the initial and final setting time of cements or mortar pastes.

Available in single (previous page), 6-, 8- and 12- station models these vicat machines automatically monitor the setting process and provides output curves of the process. The test sequence is programmable. Tests can be performed in air or in a temperature-controlled water bath. The unit provides automatic registration of initial set and final set times, as well as providing setting plots of the entire sequence. The supplied plunger and needle weight is 300g  $\pm$ 1g. The Vicat needle is automatically cleaned after each penetration.

Units Include: the corresponding number of Vicat molds (conical hard plastic ring); glass base plates; and centerings for Vicat molds; plus (1) pair of cleaning brushes; (1) t-wrench, 1.25 mm; (1) t-wrench, 2 mm; Filter Sponge (coarse and fine); (2) spare glass plate; (2) spare initial-set needles.

\*EN480: Automatic pick-up and drop-off of an additional weight of 700g  $\pm$  1 g. (drop rod total 1kG). Automatic interception of the drop rod above the glass plate when using the additional weight.

Second internal cooling stage for temperature control of the water bath in the range of +5°C to 60°C.


**PC or laptop required for operation—not included.**

**All units: 120/220V 50/60Hz**

# Vicats— Multi- and Single-Station Units

## Multi-Station Vicats

### Vicat Apparatus— 6-Station,

ASTM—	
120/220V 50/60Hz	HC-3057.3F
EN—	
120/220V 50/60Hz	HC-3057EN.3F
ASTM & EN Combined—	
120/220V 50/60Hz	HC-3057C.3F
EN & Gypsum Combined—	
120/220V 50/60Hz	HC-3057G.3F
EN-Cement-Gypsum—	
120/220V 50/60Hz	HC-3057GZ.3F
	Ship wt. 215lbs. (97.5kg)




HA-3056




HC-3056.3F

### Vicat Apparatus— 8-Station,

ASTM—	
120/220V 50/60Hz	HC-3058.3F
EN—	
120/220V 50/60Hz	HC-3058EN.3F
ASTM & EN Combined—	
120/220V 50/60Hz	HC-3058C.3F
EN & Gypsum Combined—	
120/220V 50/60Hz	HC-3058G.3F
EN-Cement-Gypsum—	
120/220V 50/60Hz	HC-3058GZ.3F
	Ship wt. 237lbs. (108kg)

### Vicat Apparatus— 12-Station,

AASHTO T131	
ASTM—	
120/220V 50/60Hz	HC-3059.3F
EN—	
120/220V 50/60Hz	HC-3059EN.3F
ASTM & EN Combined—	
120/220V 50/60Hz	HC-3059C.3F
EN & Gypsum Combined—	
120/220V 50/60Hz	HC-3059G.3F
EN-Cement-Gypsum—	
120/220V 50/60Hz	HC-3059GZ.3F
	Ship wt. 430lbs. (195kg)

### HC-3056, HC-3057, HC-3058 & HC-3059

#### Replacement Parts

Description	Model
Needle 1.13mm dia., EN 196-3	HC-3057.13
Needle 1.0mm dia., ASTM C191	HC-3057.14
EN ring Ø70/80 x 40mm	HC-3057.02
ASTM ring Ø60/70 x 40mm	HC-3057.03
Glass plate, 120mm	HC-3057.07
Cleaning brushes, 1 pair	HC-3057.08
700g weight for EN 480-2	HC-3057.10

### Vicat Apparatus, Automatic

ASTM C187, C191, AASHTO T131, EN 196-3; BS4550

This automatic Vicat Apparatus provides a completely automatic method for determining the initial and final setting time of cements or mortar pastes.

The HA-3056 is supplied complete with an ASTM or EN needle depending on model chosen; a vicat mold 70/80 dia. x 40mm height; sample container (water bath); 500 sheets of plotting paper; final set needle; cleaning strip; tweezers, T-wrench.

ASTM-Vicat Apparatus, Auto, 120/220V 50/60Hz HA-3056.3F

EN-Vicat Apparatus, Auto, 120/220V 50/60Hz HA-3056EN.3F

 Ship wt. 37lbs. (17.6kg)

### HA-3056 Accessories, Spare Parts

Description	Model
EN Initial set needle, 1.13mm dia. x 57mm length	HA-3056.2
EN Final set needle with special foot, 1.13mm dia.	HA-3056.5
ASTM Initial set needle, 1.0mm dia. x 57mm length	HA-3056.9
EN Vicat mold, 70/80 dia. x 40mm	HA-3056.6
ASTM Vicat mold, 60/70 dia. x 40mm	HA-3056.10
Plotting Paper (500 sheets)	HA-3056.1
Recording Pen (1)	HA-3056.3
Sample Container (140 x 60mm)	HA-3056.8
Glass Base Plate	HA-3056.7
Cleaning Strip for Needle	HA-3056.4

### Vicat Apparatus, Computer-Controlled, Single Station

ASTM C187, C191 Method B, C472; AASHTO T131; EN 196-3, EN 480-2; NF P15/431 and BS 4550

This automatic computer-controlled Vicat unit provides a completely automatic method for determining the initial and final setting time of cements or mortar pastes. It automatically monitors the setting process and provides output curves of the process. The test sequence is programmable. Tests can be performed in air or in a temperature-controlled water bath. The unit provides automatic registration of initial set and final set times, as well as providing setting plots of the entire sequence. The supplied plunger and needle weight is 300g ±1g. The Vicat needle is automatically cleaned after each penetration.

Includes: (1) Vicat mold (conical hard plastic ring); (1) glass base plate; (1) centering for Vicat mold; (1) pair of cleaning brushes; (1) t-wrench, 1.25 mm; (1) t-wrench, 2 mm; (1) spare glass plate; (2) spare initial-set needles.

PC or laptop required for operation—not included.

All units: 120/220V 50/60Hz

Vicat Apparatus— ASTM, Single Station, 120/220V 50/60Hz HC-3056.3F

Vicat Apparatus— EN, Single Station, 120/220V 50/60Hz HC-3056EN.3F

Vicat Apparatus— ASTM/EN, Single Station, 120/220V 50/60Hz HC-3056C.3F

 Ship wt. 154lbs. (70kg)