

Series 9000 TTC Specifications

Physical dimensions:

System size (h x w x d): 20" x 8" x 16"
Weight: 25 lbs

Oven (isothermal or temperature programming)

Operating range: 5°C above ambient to 200°C, ±0.5°C accuracy
Operating range with cryo option: Subzero (-20°C) to 200°C, ±0.5°C accuracy
Temperature programming rates: 1°- 30°C/min when ramping up to 150°C, ±1°C accuracy
1°- 20°C/min when ramping from 150 to 200°C, ±1°C accuracy
Cool down rate: From 200°C to 50°C in 3.5 minutes
From 50°C to 5°C above ambient 2.5 minutes
Safety features: Enclosed heated zones
Flammable vapor detector initiates heating element shut-off, pump shut-off, and fan clears column cavity
Backpressure regulator keeps solvent in liquid phase

Mobile phase preheating (independent from column compartment control)

Active volume: Less than 1 µL
Temperature control: Lead, lag, or match oven temperature, ±1°C accuracy under temperature programming operation
Lead, lag, or match oven temperature, ±0.5°C accuracy under isothermal operation

Effluent Cooling (active effluent sensing)

Cooling control: < or equal to 35°C under high flow rates (> 5mL/min) and high temperature (150-200°C) operation
20°C below ambient under low flow rates (< 5mL/min) and low to moderate (0°C to 150°C) operation

Column

Column sizes: ID: Packed capillaries, and 1mm to 4.6 mm
Length: up to 25.0 cm

Operation control

Front panel keypad: Method development
Storage for 9 methods
Start/stop key
Function keys for control parameters
Preheater calibration
Communication control

Communication

TTL Logic:

Start in signal from injection to TTC
Ready in/out signals to/from injection to TTC
Stop out signal to pump
Serial:

RS-232

Serial communication allowing easy firmware updates

Relays:

External device control

Utility Requirements

Power:

10 A, 120 V

Carbon dioxide for cryo option:

Welding grade with inductor tube and without helium headspace, max. pressure -1000psi

Selerity reserves the right to change specifications at any time without notice.