

Chromaster[®] 5280 Autosampler / 6310 Column Oven

As a new autosampler for Chromaster series, we have developed 5280 autosampler, an instrument that adopts the direct-injection method with a pressure rating of 60 MPa.

In addition, we have newly released ChromasterUltra Rs 6310 column oven — a part of ChromasterUltra Rs lineup— for use with Chromaster system.

Key features of 5280 autosampler

(1) Direct-injection architecture

The adoption of the direct-injection architecture allows a tiny volume of the sample to be injected with no loss. 5280 autosampler can be connected to other instruments in Chromaster series to allow use as a conventional liquid chromatography.

(2) 60 MPa pressure rating

60 MPa pressure rating allows the use of columns with particle sizes of 2 μm or less, as well as core-shell columns. This improves separation performance and reduces analysis times.

Key features of 6310 column oven

(1) Wide temperature control range

6310 column oven uses Peltier temperature-control method, allowing the temperature to be controlled over a wide range of room temperatures -15 to $+75$ $^{\circ}\text{C}$. With a temperature-setting range of 4 - 90 $^{\circ}\text{C}$, the instrument allows the collection of application data at a temperature of 85 $^{\circ}\text{C}$ or above, a region that was difficult to control using the previous-generation 5310 column oven.

(2) Outstanding temperature-increase/cooling times

The time required to raise the temperature from a room temperature of 25 to 40 $^{\circ}\text{C}$ is only 4 minutes. With significantly improved heating and cooling power, there is no need to wait long periods of time for the instrument to reach the desired temperature, reducing system startup time.



Fig. 1 Chromaster system (including 6310 column oven)