

# S 4120 COLUMN OVEN

The **Sykam S 4120 Column Oven** is a contact heat transfer oven for high temperature stability and accuracy. The columns are mounted inside the column oven in optimized column holder which enclose the complete column to get the best temperature transfer between the heater and the column. Up to three 350mm columns can be mounted at the same time.

## ■ Heating

The **Sykam S 4120 Column Oven** standard version features a high temperature controller for stable column temperatures of +30°C up to +150°C. The temperature accuracy is within 0.1 °C.

## ■ Heating/Cooling

The **Sykam S 4120 Column Oven** is also available with active Heating/Cooling with Peltier technique. The temperature range is +5°C up to +100°C. The Heating/Cooling unit uses the same efficient controller as the basic version with temperature accuracy better than 0.1 °C.

## ■ Temperature Time Program

The Heating/Cooling variant offers an optional Temperature Time Program for stand-alone operation.

## ■ Integrated Valve

The **Sykam S 4120 Column Oven** offers the option to include an automatic switching valve of the **Sykam S 6000 Valve Series**, for example the **S 6070 Column Selection Valve**, but all **S 6000 Valves** can be integrated.



## ■ Leakage Sensor

The **S 4120 Column Oven** offers a high sensitive Leakage Sensor which detects the vapors of organic solvents.

## ■ Temperature Fuse

Besides a Leakage Sensor the **S 4120** offers a tem-

perature fuse which shuts down the unit when the temperature becomes too high, because of an electronic defect.

## ■ OEM Options

The **Sykam S 4120 Column Oven** itself is available as a complete OEM instrument. Please contact us for any further information on OEM modules.



Figure: S 4120 Column Compartment

## ■ Technical Specifications

<b>Wetted Materials:</b>	Stainless Steel / PEEK <sup>1</sup> , PPS <sup>1</sup>
<b>Temperature Range:</b>	+30°C – +150°C (min.: ambient +5 °C) <i>optional:</i> +5°C – +100 °C (Peltier) <sup>2</sup>
<b>Temperature Accuracy:</b>	< 0.1 °C
<b>Switching Valve:</b>	<i>optional:</i> any <b>S 6000</b> Series Valve
<b>Temperature Program:</b>	<i>optional with Heating/Cooling (Peltier)</i>
<b>Safety Features:</b>	Temperature Fuse; Leakage Sensor
<b>Dimensions: (W x H x D)</b>	183 x 566 x 270 mm
<b>Power Supply:</b>	100 - 250 ~V (47 - 63 Hz)

<sup>1</sup> Switching Valve: depending on configuration

<sup>2</sup> Temperature range at 20°C ambient

## ■ Order Information

Catalog No	Description
10 40 009	S 4120 Column Oven: Heating <sup>1</sup>
10 40 010	S 4120 Column Oven: Heating/Cooling (Peltier) <sup>1</sup>
10 40 011	<i>S 4120 Option:</i> Temperature Program (requires 10 40 010)
10 40 012	<i>S 4120 Option:</i> Switching Valve
25 01 476	<i>S 4120 Accessory:</i> Column Holder #1 (diameter 8mm, length 100mm up to 250mm) <sup>2</sup>
25 01 474	<i>S 4120 Accessory:</i> Column Holder #2 (diameter 9 - 13mm, length up to 300 mm) <sup>2</sup>

<sup>1</sup> The **S 4120 Column Oven** comes by default with one Column Holder #1 (25 01 476)

<sup>2</sup> **Other Column Holders are available on request**

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