

Smart Chiller SC6





SC6 Smart Chiller

Description

The SC6 is the upgraded version of the SC5 smart chiller, twice efficient and powerful than before. Efficient, ergonomic, versatile, easy to transport and to operate : those were the targets we wanted to achieve during the development.

This chiller has a double function, it can be used as cooling bath for the impingers train and/or as chiller with recirculation capabilities for the the micropollutants condensation device (PCDD/PCDF, Heavy Metals etc).

Thanks to wide internal bath, it's possible to place a complete impingers train inside the wide tank and use it for long term sampling operations, without the need of fresh ice.

The liquid recirculation feature is used to keep uniform the bath temperature, avoiding, at the same time, the water to freeze, even when the cooling temperature is very low.



The recirculation pump has an ON/OFF button to avoid its operation when not needed.

The SC6 can be used as water chiller when ice is available or its use isn't practical.

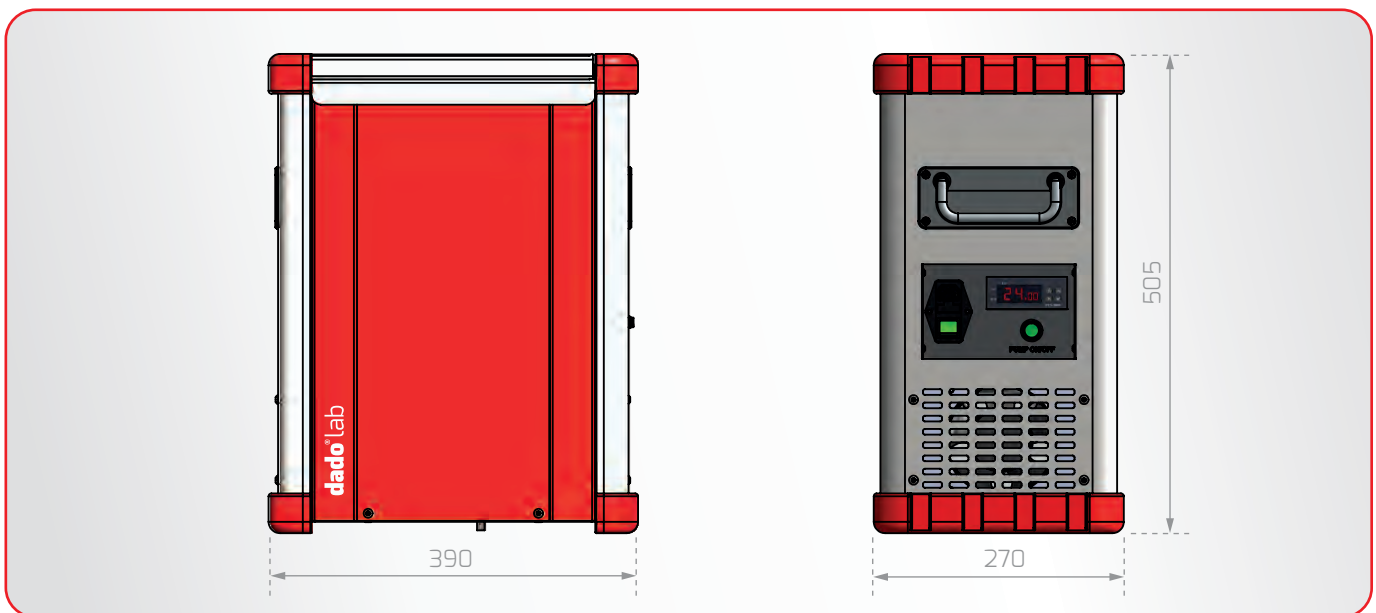
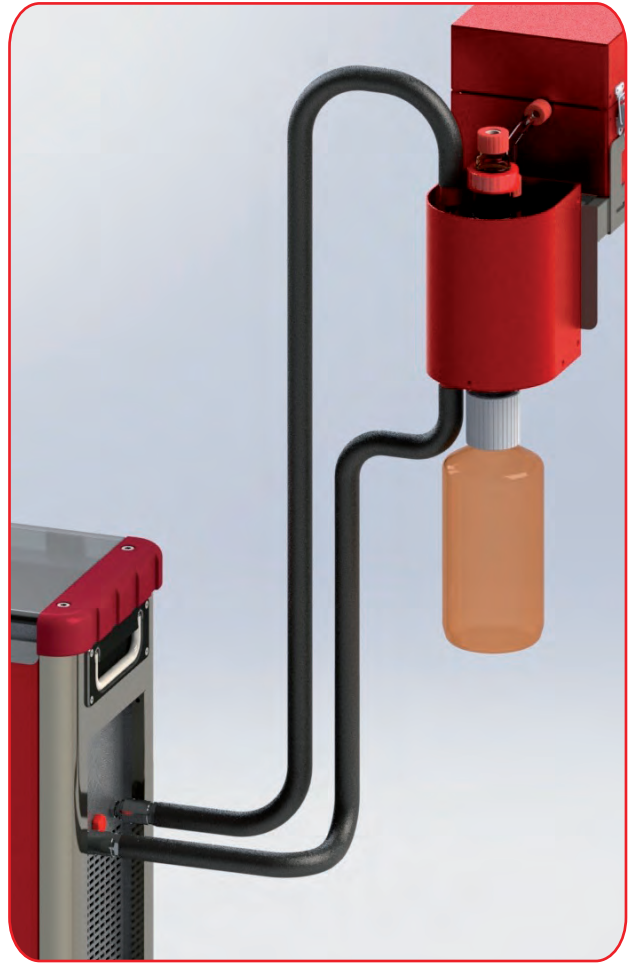
Thanks to its powerful refrigeration group, it is now possible to achieve high refrigeration performances just using water.

During the operation, the liquid level is always visible and the recirculation pump is protected against solids.

Filling and emptying operations of the bath are simple and easy, no particular tools or funnels are required. Just disconnect one tube and use the pump to empty the tank.

Main Characteristics

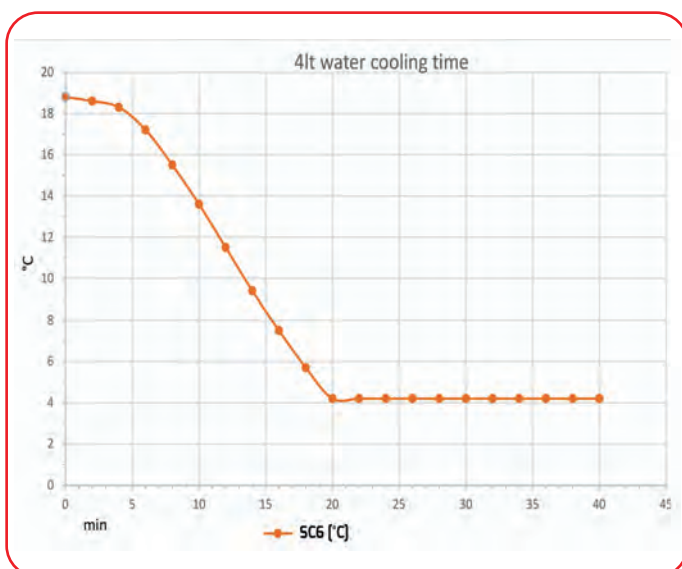
- Double operation mode
- Internal cooling bath for impingers
- Water chiller for micropollutants condensation devices
- Low weight and small sizes, rugged and easy to transport
- No anti-freezing liquid needed
- High flowrate recirculation
- Quick connectors
- Digital thermoregulator with programmable set point and temperature indicator



SC6 Dimensions (mm)

Technical Characteristic

Refrigerator power	2360 Btu/h
Recirculation pump flowrate	15 lt/min@1.5 meters difference in height
Bath temperature	Preset on optimal values
Operation conditions	-10 ÷ 43°C 95% RH
Stock conditions	-10 ÷ 50°C 95% RH
Bath size (WxDxH)	270x170x160 mm
Power supply	230 Vac ±10% 50/60Hz
Materials	Steel and Aluminum
Dimensions (WxDxH)	390x270x505 mm
Weight	16 kg
Power consumption	600 W



Standard Supply and accessories

- 101 103 1002 SC6 Standard supply**
- insulated connection tubes
 - quick connectors
 - test and calibration report
 - Power cord
 - User Manual

- 101 103 2002 Foam and support for 500 cc impinger**

Glass Impingers

Depending on the application, Dado lab can supply impingers made of different materials, sizes and types.

Glass is the most common material used for the impingers and are suitable for almost any application for both "main stream" and "side sampling application". Easy to clean and inert to most of compounds, glass impingers are available in 500 cc and 250 cc versions.

Beside volume, impingers are available also as free tube, tube with plate or with frit (Impinger Type A). Type A impingers are used for the determination of NO_x/SO_x or HCl/HF with a constant flow sampling line.

Impingers and fittings:

<u>101 103 2010</u>	<u>500cc Free tube Impinger</u>
<u>101 103 2011</u>	<u>500cc Plate Impinger</u>
<u>101 103 2012</u>	<u>GL25/GL18 elbow connector</u>
<u>101 103 2013</u>	<u>90° Outlet gas connector</u>
<u>101 103 2015</u>	<u>250cc Derived line Impinger</u>
<u>101 103 2016</u>	<u>Type "A" Impinger</u>

Polimeric impingers

Glass is the conventional material for impinger but its fragility, and risk for safety of the technicians, can be sometime a problem.

For those applications, where no chemical determination has to be carried out on the condensed liquid, Dado lab realized particular impingers with main body realized in practical and transparent polycarbonate.

The advantages of this solution are the extreme resistance to shocks granted by this material, which decrease the risk of injuries of the technician, and transparency.

For the determination of particular species, such as fluorides in accordance to ISO 15713 or total reduced sulphurs in compliance to EPA16a, are available 250cc impingers made in polyethylene and PTFE.

<u>101 103 2017</u>	<u>500cc Polycarbonate impinger</u>
<u>101 103 2018</u>	<u>250cc Polycarbonate impinger</u>
<u>101 103 2025</u>	<u>250 cc PTFE Impinger</u>
<u>101 103 2026</u>	<u>250cc PE impinger</u>
<u>101 103 2020</u>	<u>Pack of 5 porous septums for polymeric impingers</u>

