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ISO 9001 and ISO 13485

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LABOCOOL LC 200 Recirculating chiller

LABOCOOL LC 200 is used for either removal of process heat or effective cooling of samples during sonication with the SONOPULS ultrasonic homogenizer. Compared to conventional laboratory coolers, LABOCOOL LC 200 is characterised by a closed water circuit without an equalization tank. Thus, a constant water

level is achieved in the processing vessel and overflowing is excluded. Due to the natural refrigerant R-290, LABOCOOL LC 200 is particularly efficient and climate-friendly.

Applications with cooling

The sonication of biological samples reduces the processing time for sample preparation for following analysis and enables reproducible results. The high ultrasonic power applied generates frictional heat, which warms-up the sonication liquid in a short time. In order to protect samples from excessive heat input,

many applications require an external cooling system. LABOCOOL LC 200 provides a ready-to-connect complete solution which enables a cooling of samples at the push of a button.

Use in applications with the cup horn BB 6

LABOCOOL LC 200 is connected to BB 6 cup horn using the supplied tubes. BB 6 can also be placed into the sound proof box.



Type	Code No.	HD series	External dimensions l × w × h [mm]	Cooling power [W]	Refrigerant	Refrigerant quantity [g]	Pump type	Pump power [W]	max. Flow-rate [l/h]
LC 200	3855	4000 / 5000	415 × 320 × 420	200	R-290	90	Peristaltic pump	10	36

Use in applications with the Cup booster TR 110

An outstanding feature of TR 110 is the most efficient cooling system using two cooling water inlets and two outlets. These are easily connected to LABOCOOL LC 200 by supplied accessories. When using in the sound proof box, LC 200 can be placed next to the sound proof box.



Front side

The display shows the status of the cooling function and the water temperature in the device. The side buttons can be used to set the desired water temperature within a range of 5–30 °C.



Rear side

The pump unit and the main switch are located at the rear of the unit. The volume flow of the self-priming peristaltic pump can be varied by means of an adjusting knob.



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LABOCOOL Recirculating chiller

For cooling of samples during
ultrasonic applications

NEW



LABOCOOL LC 400 Recirculating chiller

LABOCOOL LC 400 is used for either removal of process heat or effective cooling of samples during sonication in an ultrasonic bath. Compared to conventional recirculating coolers, LABOCOOL LC 400 is characterised by a closed water circuit without

equalisation tank, thus, the ultrasonic bath from overflowing. Thanks to the natural refrigerant R-290, LABOCOOL LC 400 is particularly efficient and climate-friendly.

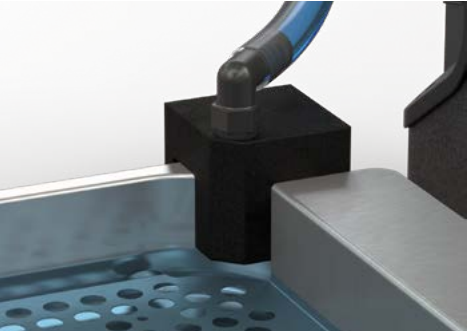
Applications with cooling

Sonication reduces the processing time for sample preparation for following analysis and enables more reproducible results. Due to the high ultrasonic power, frictional heat is generated which warms-up the sonication liquid in a short time.

In order to protect the sample from excessive heat input, many applications require the connection of an external cooling system. For this application, LABOCOOL LC 400 provides a ready-to-connect complete solution that always enables a cooling of samples at the push of a button.

Connecting hub

This fits to all SONOREX ultrasonic baths and will be attached to the ultrasonic bath without tools. The use of baskets is not affected by the connecting hub.



Type	Code No.	For baths	External dimensions l × w × h [mm]	Cooling power [W]	Refrigerant	Refrigerant quantity [g]	Pump type	Pump power [W]	max. Flow-rate [l/h]
LC 400	3850	SONOREX	410 × 320 × 420	400	R-290	90	centrifugal pump	10	600

For all SONOREX bath sizes and SONOSHAKE

LABOCOOL LC 400 recirculating chiller for cooling is suitable for all SONOREX ultrasonic baths with bottom drain. The connection is made using the supplied hoses. Add-on module ELC 1 enables the connection of two ultrasonic baths at the same time. To connect the SONOSHAKE,

the ELC 2 add-on module is required. Thanks to the 3-way ball valve supplied, the tank emptying function is preserved. Code No. 3851 for ELC 1 Code No. 3852 for ELC 2



Rear side

Pump unit and main switch are located at the rear of the device.



Front side

The display shows the status of the cooling function and the water temperature in the ultrasonic bath. Via side buttons the desired water temperature can be selected within a range of 5–30 °C.

