SONOPULS Product information Supplement to instructions for use



Cup booster

The cup booster (1) allows for indirect, intensive sonication of the smallest sample quantities, such as bacteria in sample vessels (microtubes). Indirect sonication prevents both a contamination of the samples through probe erosion as well as cross contamination. The ultrasonic power is transmitted through contact liquid into the respective sample vessels. In addition, the cup booster possesses inlet, outlet, and overflow connections for realising the required sample temperature. For stationary operation, the inlet and outlet can be shorted with the help of a hose bend. The fill level must be kept constant and used contact liquid must be replenished when needed. In cooling mode, the inlet and outlet are connected through suitable hoses to a hose pump with a low output. If needed, a hose can be connected to the overflow.

Description	BR 30
Order No.	7510
Figure	Inlet, outlet, overflow
Length L1 [mm]	139
Basin depth L2 [mm]	15
Diameter D1 [mm]	32
Diameter D2 [mm]	40
Torque [Nm]	70
Reservoir volume [ml]	12
Use with HD	2070.2/2200.2/3100/3200/4100/4200
Compatible with UW	2070/2200/3100/3200/100/200
Material	TiAl6V4 (3.7165)
Accessories kit	1 silicone hose 3.6 m long, 2 sickle spanners HS 40/42 long, 1 replacement 0-ring

51616-003 en/2023-11 1/3

SONOPULS Product information Supplement to instructions for use



Cup booster

Mounting

- Moisten the O-ring in splash shield TB 30 (2) slightly.
- From below, slide the splash shield (2) onto the cup booster (1) as much as possible; in doing so, the empty reservoir points upward.
- Mount the cup booster to the ultrasonic converter using a suitable sickle spanner, in accordance with the instructions for use.
- Affix the ultrasonic converter to a stand, e.g. HG 40, with mounted cup booster pointing upward.
- If needed, position the assembly in a sound proof box, e.g. LS 40.
- Tightly screw the hose couplings (4) with accompanying sealing rings into the threaded bores provided for this purpose; to do so, use a spanner with a width of SW 8.

Accessories

The microtube holder can accommodate microtubes in sizes of 0.2 / 0.5 / 1.0 / 1.5 / 2 ml, with the help of three exchangeable perforated discs. It is positioned on the cup booster. The microtubes must be submerged in the contact liquid inside the reservoir (3). The perforated discs are exchanged by clamping / releasing the respective perforated disc. During the sonication process, only one perforated disc may be inserted in the plastic jacket at all times.

Description	EH 3.1
Order No.	7527
Figure	D1
Internal diameter D1 [mm]	32
Hole diameter D2 [mm]	8×6.5 / 3×8.5 / 3×11.5
Material (walls)	POM
Material (perforated discs)	Stainless steel

51616-003 en/2023-11 2/3

SONOPULS Product information Supplement to instructions for use



Cup booster

Notes

- Do not load the inlet, outlet or overflow during assembly!
- A consistently uniform fill level in the reservoir (3) of the cup booster allows for reproducible results.
- No liquid should seep inside the ultrasonic converter housing.