

# ProfiClave PC10

Optimum Convenience  
High Performance

The most versatile and convenient media sterilizer made in Switzerland



Hood open



Hood open



Chamber open



Vessel access



The **NEW ProfiClave PC 10** is a fully automated bench top Media Preparator designed for the rapid processing of up to 9L of sterile culture media.

Intuitive software accessible via a touch screen, gives access to 20 programmes with options for single or double heating cycles, autoclave mode or heating mode. The time-delay and temperature timer functions enable agar pouring to commence at start of work and coupled with fast cool down function provides increased productivity and convenience.

The front panel houses all user control functions and parameter printout and the unit comes complete with a stainless steel cuvette, built in pressure pump to prevent flash boiling, high strength magnetic stirrer, sterile filter for pressurisation and easy vessel access, no bolts or tools necessary.

The unique pressure correction adjusts the boiling point relative to ambient pressure and optimizes deaeration. 9L of Agar are ready for pouring in one hour only. Used together with one of BiotoolSwiss Petri dish filling systems, the ProfiClave PC10 provides the complete solution for media preparation.

- ▶ Prepares agar from 0.5 up to 9 liters, stirred and temperature controlled
- ▶ Vessel access is amazingly simple no bolts or tools required
- ▶ Stores up to 3 x 20 user-defined programs (each single or double cycle programmes)
- ▶ Water jacket design enables even heating within the vessel
- ▶ Fully controlled stirrer with variable speeds and enhanced magnetic coupling w/o seals or shafts
- ▶ PT100 controlled temperature probe for agar & surrounding water jacket
- ▶ Multiple purpose (media sterilizer, bench top autoclave and stable water bath)
- ▶ Timer function enabling agar pouring at the start of work
- ▶ Unique atmospheric pressure measure and boiling point correction for reliable sterilisation

### Convenience:

The ProfiClave features an intuitive software. Twenty storable programs for each mode of operation are easy to enter and easily accessible via a convenient touch screen. The ProfiClave offers an easily removable inner vessel and an automatic self-cleaning cycle to simplify clean-up. A large sample port for the addition of supplements is standard.

### Mechanical and Electronic Security Features:

A complete safety program monitors all pressure and heating functions.

1. Auto-lock of outer safety lid with bolt catch ensures no lid opening during operation.
2. Pressure chamber with bajonet catch for safest lock.
3. Pressure sensors and valves prevent over-pressuring the unit during operation.
4. Safety thermostats protect against overheating.

In addition, the unit is equipped with a mechanical pressure gauge that operates independently of the power supply. Before each run, a pressure test is executed, preventing the system from starting before the vessel is fully sealed. The pressure pump prevents flash boiling during cool-down.

### Operated by means of a touch screen!

All program data, parameters, and operating states are clearly displayed on a backlit, graphic monitor. All entries are made via touch keys (soft keys) and a numeric keypad. The unit is monitoring all device functions (motors, sensors and switches) at the start and throughout the sterilisation process. The ProfiClave is interfaced to a host PC, through its front or rear ports.



#### Version / Electrical Data

600001 €-Version	1 x 230 VAC +/- 10% 14 A	Mains fusing internal: 1 x 16 A
600002 Swiss-Version	3 x 400 VAC +/- 10% 4,6 A	Mains fusing internal: 3 x 6 A
600003 US-Version	2 x 120 VAC +/- 10% 15,4 A	Mains fusing internal: 2 x 16 A
600004 Japan-Version	1 x 200 VAC +/- 10% 16 A	Mains fusing internal: 1 x 20 A
	3200 W	Max. operation power consumption



#### Each ProfiClave complete version consists of

1 Stainless steel vessel 10l complete	<a href="#">Item 600 200</a>
1 Magnetic stirrer	<a href="#">Item 600 208</a>
1 Sterile filter, pore size 0.45 µm	<a href="#">Item 600 202</a>
1 Lid seal	<a href="#">Item 600 203</a>
1 Paper roll for thermo printer	<a href="#">Item 750 170</a>
1 Decanting tube, silicone, complete	<a href="#">Item 600 204</a>
1 Medium outlet tube support	<a href="#">Item 600 218</a>
1 Flat wrench SW27	<a href="#">Item 600 219</a>

#### Options

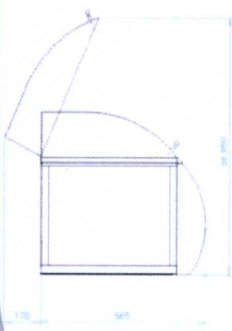
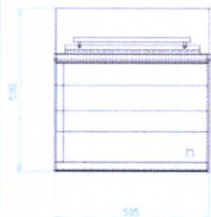
Medium outlet tube stainless steel	<a href="#">Item 600 205</a>
Base plate and flexible Pt-100 temperature sensor (autoclave kit)	<a href="#">Item 600 206</a>

#### Mechanical data and environment

Dimensions W x H x D, Weight	535 / 530 / 565mm / 53,8 kg	Packed; 750 / 700 / 840mm / 70,8 kg
Water connection	3/4 inches (waste, cooling, DI water)	Standard thread
Capacity	Total 12L, Vessel 10L, Waterbath 5L	
Accuracy of temperature	0.1°C resolution, ± 0.5°C	
Maximum pressure of cooling water	4 bar	1.8l/min consumption while cooling

#### Software parameters

	Value	Details
Programmes	20 on each function, total 60	All process parameters selectable
Double heating cycle (Chocolate Agar)	Yes	On each program individually
Sterilisation	70 - 122°C	1 - 120 Min
Timer	Selectable timer 0 min - 24 hours!	Automatic programm start
Max dispensing time	480 Min	
Stirrer Speed	45 - 230rpm	Variable, selectable on each step
Printer	Yes	Print cycle 15 Sec to 10 Min
Graphic display	240 x 128 pixels	With LED backlighting, Touchscreen
Process Data	Value I / small volume	Value II / small volume
Heat up cycle time, start temp 40°C	3L in 20 Min at 121°C	9L in 30 Min at 121°C
Cool down cycle, target temp 55°C	3L in 8 Min from 121°C to 55°C	9L in 15 Min from 121°C to 55°C
Process (40° - > 121°/15Min - > 55°)	3L in 45 Min	9L in 65 Min



**BIOTOOL AG**  
Weinfelderstrasse 113  
8580 Amriswil

Tel. ++41 (0)34 423 50 60  
info@biotoolswiss.com  
www.biotoolswiss.com



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innovative laboratory technology

