



▶▶ **PROcellcare**[®]
 automated life cell feeding system

preliminary

Product Data Sheet

PROcellcare 5030

- ◆ System with coaxial needles in the optical axis

Smallest dosage quantity	10 µl min.
Repeat accuracy dispenser	± 1 µl

Needle / replaceable needle point

- ◆ Both needles can be replaced as wearing part

Dispense Needle	Outside-Ø: 1,2 mm Inside-Ø: 0,8 mm
Purge-Needle	Outside-Ø: 0,7 mm Inside-Ø: 0,5 mm
Perforating movement Dispense-Needle (in Z-axis)	9 mm
Perforating movement Purge-Needle (in Z-axis)	13 mm
Perforatable foils	Up to a material thickness of 100 µm, without glue on puncture

Positioning of pipette head

Positioning accuracy (in Z-axis)	± 0,05 mm (adjusting range)
Positioning accuracy (in X-Y-axis)	± 0,5 mm (adjusting range)

Throughput

Throughput data	Filling of a 96-microtiter plate in the optical axis with 100 µL/Well: 320 seconds
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Microscope compatibility

Construction height dispense unit	< 40 mm in Z-direction
Supported microscopes	Olympus IX71, IX81 Nikon Eclipse Ti-E and TE2000 Zeiss Acio Observer.Z1 Leica SP5 (in preparation)

Working area	
Temperature	15 °C – 40 °C (59 F up to 104 F)
Air humidity	0 – 60 %

Transport area	
Temperature	- 25°C – 70°C (- 13 F up to 158 F)
Air humidity	up to 85% (without condensation)

Sizes and weight	
Dispense-Unit (in the incubator)	170 mm x 175 mm x 100 mm 0,9 kg
Solvent-Unit (outside the incubator)	130 mm x 250 mm x 105 mm 2,6 kg
Waste-Unit (outside the incubator)	160 mm x 110 mm x 250 mm 2,1 kg
Operating-Unit (outside the incubator)	120 mm x 155 mm x 70 mm 0,3 kg
Packagin of the instrument including cabling	8,5 kg in one bag (total 11 kg)

Supply data	
Power supply	90...264 V, 47...63 Hz
Supply pressure	5 bar (preferably with nitrogen, instrument may also be operated with compressed air)

Operating unit	
Characteristics	Keyboard with 6 keys Display with 4 lines Lighting which allows to work in the dark
Interface for external control	UART (USB)

Adjustable operating functions	
Solvent Dispense	Pipetting time Pipetting pressure
Solvent Purge	Purging duration Purging pressure Vacuum strength
Clean	Number of well-clean-cycles Diverse cleaning parameters
Solvent-Change	Change of solvents – it is possible to choose between 2 solvents / reservoirs. Up to 5 solvents on request.

Solvent recipients	150 ml
Waste-Bottle	500 ml
Decontamination	Cleaning with appropriate solvents. All hoses and connecting pieces can be replaced.



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EC Declaration of Conformity



Producer:

PRO design

Gesellschaft für Produktentwicklung mbH

PROdesign Gesellschaft für Produktentwicklung mbH
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Product:

PD-Pump

Model(s):

PD-Pump 400

We herewith declare under our sole responsibility that the above mentioned products meet the provisions of the following EG Directives and Harmonized Standards.

EG Directives:

2006/95/EC Low Voltage Directive

2004/108/EC Electromagnetic Compatibility Directive

2006/42/EC Machinery Directive

Heiligkreuzsteinach,
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PROdesign Gesellschaft für Produktentwicklung mbH

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