

# The high pressure homogenizers



EMULSIONS  
LIPOSOMES  
DISPERSIONS  
DEAGGLOMERATION  
CELL-DISRUPTION  
PARTICLE SIZE REDUCTION  
STABILIZATION  
AND MORE



*work smarter.*



# PSI 20

**up to 2000 bar**  
**up to 20 L/h**  
**less than 70dBA**  
**small footprint**

Its compact size and quiet operation do not compromise its capabilities in terms of maximum pressure and flow rate. The PSI-20 is just great for lab work, with batches as small as 150 ml, but is also an excellent small-scale production workhorse, even in continuous process configurations.

FOOTPRINT	<b>W×L×H 650×900×1126 mm</b>
POWER	<b>3×400V 50Hz / 3×460V 60Hz</b> <b>2.60 kW / 3.05 kW</b> <b>5.9 A / 5.9 A</b>
WEIGHT	<b>155 kg</b>



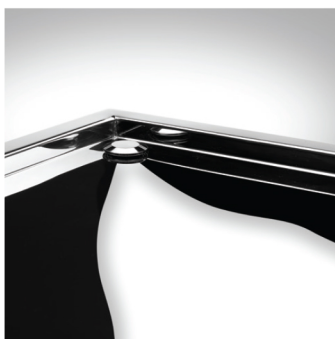
# PSI 40

**up to 2000 bar**  
**up to 60 L/h**  
**less than 70dBA**  
**small footprint**

Thanks to its best in class throughput, and its sturdy construction, the PSI-40 is perfect for pilot and medium-sized production batches, even in continuous process configurations. Its quiet operation and compact footprint make it also effective for lab work, with batches as small as 200ml.

FOOTPRINT	<b>W×L×H 650×900×1126 mm</b>
POWER	<b>3×400V 50Hz / 3×460V 60Hz</b> <b>3.45 kW / 4.10 kW</b> <b>8.0 A / 8.0 A</b>
WEIGHT	<b>170 kg</b>

## Mirror Finish



All our instruments are encased in 316 stainless steel shells, with our signature mirror finish. Excellent for the biopharmaceutical industry and any other application where cleanability is a must, it also underscores the design of the instruments and makes them a perfect fit in any high-tech laboratory.

## Anti-Fingerprint Finish



As an option, for harsher environments, we also offer a special anti-fingerprint finish: the 316 stainless steel surfaces first undergo a special micro shot-peening treatment and are then electropolished to create a bright, silk-smooth surface that doesn't compromise on cleanability or esthetics.

# ACCESSORIES



## Static Reservoirs

For small volume applications, the easiest way to feed the raw product into the instrument is by means of a static reservoir. Our selection includes different sizes, to match the needs of different applications, and can be optionally capped for easier storage. We also offer a jacketed version, for all those applications where it is critical to keep the sample at the right temperature. All our reservoirs are made of electropolished 316L stainless steel, manufactured as per the ASME BPE guidelines.

**SRV-50:** 0,5 liter static reservoir, optional TC cap.

**SRV-100:** 1,0 liter static reservoir, optional TC cap.

**SRV-200:** 2,0 liter static reservoir, optional TC cap.

**SRVJ-100:** 1,0 liter jacketed static reservoir, with two 3/4" ports to recirculate the heat transfer fluid.



## Process Reservoirs

When processing more than a few liters, refilling a static reservoir is hardly an option. We offer a line of process reservoirs that allows you to attach a feed pump with a flow-rate higher than that of the instrument and recirculate the excess back to the main reservoir. Inserting an heat exchanger on the feeding line will also help keeping the entire batch at the right temperature. Our selection includes different sizes, to match the needs of different applications and, for the dual head systems, also a process manifold complete with view sight glasses and optionally with our purge systems. All our reservoirs are made of electropolished 316 stainless steel, manufactured as per the ASME BPE guidelines.

**PRV-50:** 0,5 liter process reservoir, equipped with a TC cap and two 3/4" ports to recirculate the product.

**PRV-100:** 1,0 liter process reservoir, equipped with a TC cap and two 3/4" ports to recirculate the product.

**PMF-75:** Only for dual head systems. 0,75 liter process manifold, equipped with sanitary windows and 3/4" ports to recirculate the product.



## Interaction Chambers

We offer a wide selection of diamond interaction chambers that includes all the most frequently requested Y and Z geometries. All our chambers are factory tested, wetted parts are made of either diamond or 316L stainless steel and are approved for sanitary applications.

**D100D:** Single slot deagglomeration chamber, 200µm.

**D200D:** Dual slot deagglomeration chamber, 200µm.

**D101D:** Single slot deagglomeration chamber, 100µm.

**D201D:** Dual slot deagglomeration chamber, 100µm.

**D102D:** Single slot deagglomeration chamber, 87µm.

**D202D:** Dual slot deagglomeration chamber, 87µm.

**E101D:** Single slot emulsion chamber, 75µm.

**E201D:** Dual slot emulsion chamber, 75µm.



## Training and Maintenance

We offer support on all the aspects of our instruments, from installation to training, to preventative maintenance, to on-site assistance contracts. But we can also provide our expertise to help you analyze your homogenization process.

## Distributors

### *Americas*

**Dyhydromatics LLC**  
63 Great Rd.- Suite 100,  
Maynard, MA 01754, USA  
Tel: +1-603-554-2922  
www.dyhydromatics.com

### *Austria and Germany*

**LUM GmbH**  
Justus-von-Liebig Str. 3, 12489  
Berlin, Germany  
Tel: +49-(0)30-6780 6030,  
Fax: +49-(0)30-6780 6058  
info@lum-gmbh.de  
www.lum-gmbh.de

### *Benelux*

**Particle Solutions  
Innovations BV**  
Grevelingenlaan 11,  
4328EV Burgh-Haamstede,  
The Netherlands  
Tel: +31 615822288  
info@psi-instruments.com

### *Czech Republic*

**ANAMET s.r.o.**  
Kovářů 3210 / 26,  
150 00 Praha 5 – Smíchov,  
Czech Republic  
Tel: +420 257328175  
www.anamet.cz

### *France*

**LUM GmbH**  
Immeuble Garabel, 28  
Avenue du 19 Mars 1962,  
78370 Plaisir, France  
Tel: +33 646107676  
support@lum-gmbh.de

### *Ireland and UK*

**Adaptive Instruments Ltd**  
Unit 4 Franklyn House,  
Daux Road, Billingshurst,  
West Sussex RH14 9SJ,  
United Kingdom  
Tel: +44 1403 783263,  
Mobile: +44 7774 604153  
info@adaptive-instruments.com  
www.adaptive-instruments.com

### *Italy*

**Qi srl**  
via Monte d'Oro 2/A, 00071  
Pomezia (RM), Italy  
Tel: +39 06 9105461,  
Fax: +39 06 9105497  
info@qitech.it  
www.qitech.it

### *Poland*

**LPP Equipment sp. z o.o.**  
ul. Bodycha 73,  
05-816 Reguły, Poland  
Tel: + 48 227230096  
info.pl@lpp-equipment.pl  
www.lpp-equipment.pl

### *Switzerland*

**PS Prozesstechnik GmbH**  
Neuhausstrasse 36,  
CH-4057 Basel, Switzerland  
Tel: +41 61 544 3003,  
Fax: +41 61 544 3001  
www.ps-prozesstechnik.com

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### Contact us

**ADAPTIVE**  
— INSTRUMENTS —



Unit 4, Franklyn House  
Daux Road,  
Billingshurst,  
W. Sussex, RH14 9SJ

Tel: +44 (0)1403 753333

[info@adaptive-instruments.com](mailto:info@adaptive-instruments.com)

[www.adaptive-instruments.com](http://www.adaptive-instruments.com)



[www.psi-instruments.com](http://www.psi-instruments.com)