



Generators and Accessories

SilentCrusher M – Generators

- Homogenize with high quality generators made of corrosion resistant stainless steel AISI 316
- SilentCrusher generators are easily disassembled for quick and convenient cleaning – ideal for multiple samples
- Generators are autoclavable up to 130 °C or allow for air sterilization up to 180 °C
- Due to interchangeable ball bearings and chemically resistant PTFE, all bearings are designed for years of unlimited usage
- For larger samples it may be necessary to pre-crush samples. In this case we recommend generators which feature additional sprockets (except for 18 G, 18 DG, 22 G)
- For applications under vacuum down to 20 mbar or pressure up to 6 bar we recommend our sealed generators*

Model	Stator ø outer [mm]	Rotor ø [mm]	Slot width [mm]	Shaft length [mm]	Volume [ml]	Original particle size [mm]	Tip speed in water [m/s]	Max. speed [rpm]	Max. noise [dB (A)] in 1 m distance	P/N
6 F	5.3	3.2	0.6	60	0.8 - 30	< 0.4	4.4	26,000	73	596-06010-00
8 F	8.2	6.6	0.6	80	3 - 50	< 0.4	9	26,000	44	596-08010-00
8 DF*	8.2	6.6	0.6	75	3 - 50	< 0.4	9	26,000	44	596-08110-00
12 F	12	9	0.6	120	25 - 250	< 2.0	12.2	26,000	62	596-12010-00
12 G	12	9	2.0	120	25 - 250	< 2.0	12.2	26,000	62	596-12020-00
12 DF*	12	9	0.6	115	25 - 250	< 2.0	12.2	26,000	62	596-12110-00
12 DG*	12	9	2.0	115	25 - 250	< 2.0	12.2	26,000	62	596-12120-00
18 F	18	12.5	1.5	180	100 - 1,500	< 4.0	17	26,000	74	596-18010-00
18 G	18	12.5	3.0	180	100 - 1,500	< 4.0	17	26,000	74	596-18020-00
18 DF*	18	12.5	1.5	175	100 - 1,500	< 4.0	17	26,000	68	596-18110-00
18 DG*	18	12.5	3.0	175	100 - 1,500	< 4.0	17	26,000	68	596-18120-00
22 F	22	16.5	1.5	180	100 - 2,000	< 4.0	17.3	20,000	73	596-22010-00
22 G	22	16.5	3.0	180	100 - 2,000	< 4.0	17.3	20,000	73	596-22020-00



Type 8 F



Type 18 F



Type 22 G

Silent Blending



SilentCrusher M – Accessories



**Vessel holding bracket
incl. 2 retainer rings**
P/N 570-30100-00
For different vessels dia. 20 - 105 mm



Cross sleeve S
P/N 570-31100-00
Please note: 2 clamps are required to attach
the SilentCrusher M and the vessel holding
bracket

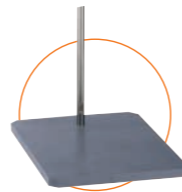


Plate stand
P/N 570-17000-00
Footprint: 180 x 245 mm
Shaft: ø 13 mm, Length: 600 mm

SilentCrusher S – Generators

- Homogenize with high quality generators made of corrosion resistant stainless steel AISI 316
- SilentCrusher generators are easily disassembled for quick and convenient cleaning – ideal for multiple samples
- Generators are autoclavable up to 130 °C or allow for air sterilization up to 180 °C
- To ensure years of unlimited usage the ball bearings and the attachment for the generators are made of chemically resistant PTFE
- 10 Polypropylene vessels which perfectly fit your generator of choice are included as a standard

Model	Stator ø outer [mm]	Rotor ø [mm]	Slot width [mm]	Shaft length [mm]	Volume [ml]	Original particle size [mm]	Tip speed in water [m/s]	Max. noise [dB (A)] in 1 m distance	Application with	P/N Generators	P/N Replacement vessels (100 pcs)
3 F	3.3	2	0.6	26	0.8 - 1.0	< 0.4	7.85	47	Eppendorf- vessel	596-03010-00	596-00003-00
5 F	5	3.2	0.6	38	2.0 - 4.0	< 0.4	11.8	50	Test tube	596-05010-00	596-00005-00
7 F	7	3.9	0.6	55	6.0 - 10.0	< 0.4	17.7	54	Test tube	596-07010-00	596-00007-00



3 F



5 F



7 F



Heidolph Instruments GmbH & Co. KG
Walpersdorfer Str. 12 · 91126 Schwabach / Germany
Tel. (+49) 0 91 22 - 99 20 68 · Fax - 99 20 65
sales@heidolph.de · www.heidolph.com

... **no** one likes
a **loud lab**



While you concentrate on research, we'll look after your support needs

As we want you to have more time to thoroughly concentrate on research, the whole Heidolph team enthusiastically provides you with extensive support and helps to reduce your workload.

- 24 hour service for all inquiries
- Individual application support
- Short delivery time for standard items
- After sales service provided by your local dealer
- More than 80 distributors worldwide
- Priority technical service
- Long-lasting service life of all products due to maintenance free magnetic drive
- 3 year warranty

Silent Blending

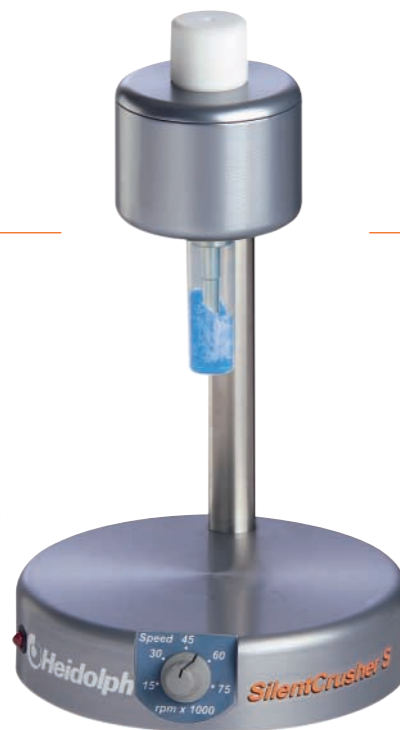
Your first choice for disruption of tissue in biotechnology, for sample preparation in medicine, for enzymatic treatment in food industry and various applications in pharmaceutical, cosmetic, paint & lacquer industry and in petrochemistry.

Are you exposed to highly critical noise levels or even wear ear plugs when homogenizing a sample?

SilentCrusher models operate at a significantly reduced noise and in addition at an outstanding high speed. This unique combination is made possible by an electromagnetic field that eliminates noise from conventional motors.

The wearless drive guarantees numerous **years of maintenance free operation**. As a result you will experience **no down times, no maintenance or spare part costs**

The drive unit is designed without any clutches and therefore the **level of noise is reduced to a minimum**



Operate the SilentCrusher without ear plugs and **without any risk to your ears' health**

This technology allows for **usage in reduced particle environment**

- ➔ Maintenance Free Magnetic Drive
- ➔ No Heat Transfer to Sample
- ➔ Speeds up to 75,000 rpm

Disperse without distraction

SilentCrusher M

Model for all standard applications

Complete package SilentCrusher M at a special price: Includes SilentCrusher M, plate stand, 2 cross sleeves and vessel holding bracket (**no generators**) P/N 595-06009-00

Choose from 13 different sterilizable generators: From 6 – 22 mm diameter you will find options which meet your specification

Allows for any viscosity up to 5,000 mPa s

SilentCrusher M
P/N 595-06000-00
(without generator)

Your first choice for any quantities from 0.8 – 2,000 ml



With a speed range up to 26,000 rpm the SilentCrusher M is the most silent homogenizer in the world

Large digital display allows for easy setting and read out even from a distance

Speed can be adjusted individually from 5,000 – 26,000 rpm

SilentCrusher S

Small model for use in microbiology

Choose from three different sterilizable generators: 3, 5 or 7 mm – these options will certainly include a generator that works best for your needs

Ideal for homogenizing sample quantities from 0.8 – 10 ml and a viscosity up to 5,000 mPa s

SilentCrusher S
P/N 595-05000-00
(without generator)

If required, you can easily cool down samples by using ice or cold water. Three discs are included in every shipment which allow for height positioning of any cooling tray

Featuring a speed range up to 75,000 rpm the SilentCrusher S is by far the fastest and most silent homogenizer in the world

To protect your sample effectively from any thermal damage the drive system switches off automatically after 90 seconds

The ease of use will elate you: Simply drop the reaction vessel into the drive system and it will start automatically

Technical Data: SilentCrusher M

- Input Power: 130 W
- Dimensions:
Drive: (w x h x d mm): 90 x 174 x 90
Power Supply Pack: (w x h x d mm): 196 x 51 x 88
- Voltage: 100-240 V, 47-63 Hz
- Protection Class: IP 30
- Weight: 1.0 kg

Technical Data: SilentCrusher S

- Input Power: 24 W
- Dimensions:
Drive: (dia. x h mm): 125 x 197
Power Supply Pack: (w x h x d mm): 106 x 30 x 65
- Voltage: 100-240 V, 47-63 Hz
- Protection Class: IP 30
- Weight: 0.8 kg