

SilentCrusher S

Speed range up to 75,000 rpm

- Superior electromagnetic drive
- True maintenance free magnet coil drive
- Smooth operation as a result of no motor and no mechanical couplings
- Extremely low noise, eliminating the need of ear protection
- Drive unit perfect for clean room applications because there is no fan
- Simple to operate: homogenizer starts automatically as soon as the tool is placed in the drive unit
- Variable speed control from 15,000 to 75,000 rpm



SilentCrusher S
P/N 595-05000-00

- New design to allow for sample cooling
- Delivery incl. 3 level plates for height adjustment of cooling vessel
- Dispersing volumes from 0.8 to 10 ml
- Range of viscosity from 1 to 5,000 mPa s
- Small light-weight design: 0.8 kg
- Choice of 3 different tools from 3 mm to 7 mm \varnothing
- Power consumption: 24 W
- Dimensions: drive unit (dia. x h) in mm: \varnothing 125 x 197
power supply unit (w x h x d) in mm: 106 x 30 x 65
- Supply voltage: 100-240 V, 47-63 Hz
- Protection class: IP 30



SilentCrusher S – Tools

- Homogenizing and suspending of small samples
- High quality tools can be sterilized
- Tools are easy to attach and clean while changing samples
- All tools are made of stainless steel (AISI 316Ti), tool attachments are made of PTFE to guarantee optimal chemical resistance
- Every tool comes with 10 replacement vessels as standard (material: polypropylene)

Type	Stator outer \varnothing [mm]	Rotor \varnothing [mm]	Slot width [mm]	Shaft length [mm]	Volume [ml]	Original particle size [mm]	Tip speed in water [m/s]	Max. noise [dB (A)]**	Application with	P/N Tool and 10 vessels	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

Steam sterilization up to 130 °C, hot air sterilization up to 180 °C

* 1.5 ml standard vessels (e.g. Brand/Eppendorf) are also suitable

** Measured in 1 m distance



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Heidolph Instruments, Schwabach, 01/2008



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Homogenizers

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Homogenizers

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.

Quiet Homogenizing

- ✓ Minimal noise emissions at all speeds
- ✓ Rotation speeds up to 75.000 rpm
- ✓ Absolutely wear-free drive

SilentCrusher M

Digital speed display

- Superior electromagnetic drive
- True maintenance free magnet coil drive
- Smooth operation as a result of no motor and no mechanical couplings
- Extremely low noise, eliminating the need of ear protection
- Drive unit perfect for clean room applications because there is no fan
- Speed range from 5,000 to 26,000 rpm
- Integrated rpm meter
- Dispersing volumes from 0.8 to 2,000 ml
- Range of viscosity from 1 to 5,000 mPa s
- Compact construction design, light weight: 1.0 kg
- Choice of 13 different tools from 6 mm to 22 mm ϕ
- Power consumption: 130 W
- Dimensions:
drive unit (w x h x d) in mm: 90 x 174 x 90
power supply unit (w x h x d) in mm: 196 x 51 x 88
- Supply voltage: 100-240 V, 47-63 Hz
- Protection class: IP 30



SilentCrusher M
P/N 595-06000-00

Set SilentCrusher M
Set includes SilentCrusher M,
plate stand, 2 cross sleeves,
vessel holding bracket, no tool
P/N 595-06009-00



SilentCrusher M – Tools

- High quality tools can be sterilized
- Tools are easy to attach and clean while changing samples
- All tools are made of stainless steel (AISI 316TI)
- Replaceable PTFE bearings
- Dispersing tools come with teeth to crush into small pieces (Except: Type 18 G, 18 DG, 22 G)
- Sealed tools are suitable for applications under pressure or vacuum*

Type	Stator outer ϕ [mm]	Rotor ϕ [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)]**	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 - 1500	< 4.0	17	26.000	74	596-18010-00
18 G	18	12.5	3.0	180	100 - 1500	< 4.0	17	26.000	74	596-18020-00
18 DF*	18	12.5	1.5	175	100 - 1500	< 4.0	17	26.000	68	596-18110-00
18 DG*	18	12.5	3.0	175	100 - 1500	< 4.0	17	26.000	68	596-18120-00
22 F	22	16.5	1.5	180	100 - 2000	< 4.0	17.3	20.000	73	596-22010-00
22 G	22	16.5	3.0	180	100 - 2000	< 4.0	17.3	20.000	73	596-22020-00

Steam sterilization up to 130 °C, hot air sterilization up to 180 °C
* Suitable for applications under pressure or vacuum (pressure 6 bar/vacuum 20 mbar)
** Measured in 1 m distance

SilentCrusher M – Accessories



Vessel holding bracket incl. 2 retainer rings
P/N 570-30100-00
for different vessels dia. 20 - 105 mm
Ring 1 for 20 - 60 mm
Ring 2 for 60 - 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
Dimensions
Footprint: 180 x 245 mm
Shaft: ϕ 13 mm, Length: 600 mm
Weight: 1.8 kg