

Mixer B-400



The patented mixing system saves time and cost

Due to optimized sample preparation, the Büchi Mixer B-400 continuously produces a homogeneous sample, providing a representative sample for analytical testing from non-homogeneous starting materials. This well designed and sturdy unit will efficiently and reliably keep up with the daily work load in the laboratory. Easy operation, simple handling and uncompromised safety make this mixer an unparalleled choice.

How to save time and money ?

The Büchi Mixer B-400

- reduces the number of essential analyses per sample due to the complete homogeneity of samples
- minces the samples while mixing them thoroughly
- homogenizes samples weighing up to 150g
- can be easily cleaned

Simple handling

The Büchi Mixer B-400 can be operated simply and safely. Introduce the sample, press the start button, the sample is homogenized. The mixing process is monitored electronically and controlled automatically. Cleaning requires limited handling steps.



Büchi Mixer B-400 – Mincing samples while they are homogenized

A multitude of applications

As an universal mixer, the Büchi Mixer B-400 can process the widest variety of substances. For instance,

- samples with a high water content (e.g. vegetables, instant meals)
- samples with a high percentage of fat (e.g. meat, sausages, fish)
- samples with a high content of fibers (e.g. forage, green fodder)

For further applications please consult our list of applications available free of charge.



Applications from foodstuffs ...



... and feed

Special version for the trace element analysis

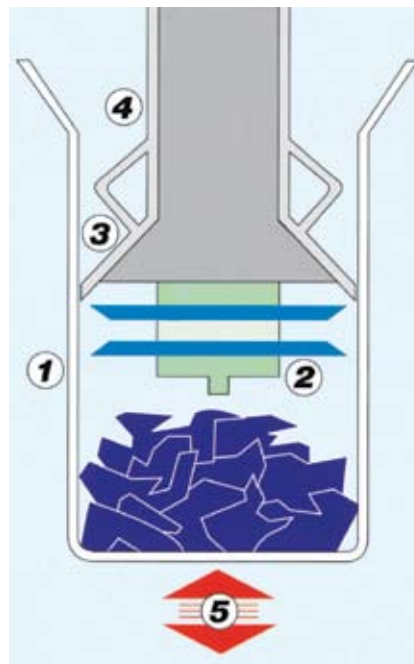
For trace element analysis, the homogenized sample must be free of contamination. The Büchi Mixer B-400 is available with the components contacting the sample made of borosilicate glass, **inert** plastics (PP and PEEK), or titanium. The cutting knife is high quality ceramic.

Sample preparation over a wide temperature range

Many samples can be minced and homogenized better at lower temperatures. For this purpose we supply a special membrane of PVDF (polyvinylidene fluoride). It is suitable for temperatures ranging from $-40\text{ }^{\circ}\text{C}$ to $+150\text{ }^{\circ}\text{C}$.

Microbiological sample testing

For microbiological sample testing, sterility is an absolute requirement. A PVDF membrane permits autoclave sterilization of all components contacting the sample.



The Büchi sealing membrane (patent pending) with highspeed knives of steel or ceramic

- ① Sample vessel made of borosilicate glass
- ② Knife with two blades and centrifugal disk, electronic monitoring of speed and torque
- ③ Sealing membrane (PP or PVDF)
- ④ Elastic holder for sealing membrane for continuous compaction of the sample
- ⑤ Lift for sample vessel. The vessel is raised automatically to bring the sample up to the knife. The vessel height is electronically adjusted to the sample resistance.

Unmatched safety

The Büchi Mixer B-400 has been awarded the official GS mark for “Tested Safety” – meeting maximum requirements on safe operation and functionality.

A major feature: The knife of the mixer can only rotate with the safety door closed. If the door is opened while mixing is in progress, the knife stops automatically.

Technical Data

Mixer B-400

Mains voltage	200–240 V/50 Hz
	200–240 V/60 Hz
Power consumption	(at 230 V) 1900 W
Current consumption	(at 230 V) approx. 9 A
Speed of rotation of knife	approx. 9000 rpm
Dimensions in mm W x H x D	300 x 510 x 530
Weight	(without packaging) 26 kg
Testing data	IEC 1010-1/EN61010-1 (VDE 0411-1) Standard for measuring instruments, control equipment and laboratory apparatus

Accessories and spare parts

Sample vessel	
Order No.	26441
Knife (top), stainless steel	
Order No.	36913
Knife (bottom), stainless steel	
Order No.	36914
Knife (top), ceramic	
Order No.	36915
Knife (bottom), ceramic	
Order No.	36916

Order information

Standard version

Ready-to-use with one sample vessel, mains cable and operating instructions; acid-resistant stainless steel knife, hardened (ca. 800 Vickers); PP (polypropylene) membrane, titanium drive shaft. Other parts coming into contact with product made of borosilicate glass and PEEK.

Inert version

Ready-to-use with one sample vessel, mains cable and operating instructions; ceramic knife (ca. 1750 Vickers); PP (polypropylene) membrane, titanium drive shaft. Other parts coming into contact with product made of borosilicate glass and PEEK.

Optional accessories

Special membrane

Made of PVDF (polyvinylidene fluoride), for extended temperature ranges.

Maximum operating temperature:
–40 °C up to 150 °C

200–240 V/50 Hz
Order No. 34220

200–240 V/50 Hz
Order No. 34239

200–240 V/60 Hz
Order No. 34325

200–240 V/60 Hz
Order No. 34327

Order No. 36912

Steel knives can be sharpened at the Büchi factory. Please request this service.

BÜCHI Labortechnik AG
Postfach
9230 Flawil 1
Schweiz
T +41 71 394 63 63
F +41 71 394 65 65
buchi@buchi.com
www.buchi.com

BÜCHI Labortechnik GmbH
Postfach 10 03 51
45003 Essen
Deutschland
Freecall 0800 414 0414
T +49 201 747 490
F +49 201 237 082
deutschland@buchi.com
www.buechigmbh.de

BÜCHI Labortechnik GmbH
Branch Office Netherlands
Postbus 142
3340 AC Hendrik-Ido-Ambacht
The Netherlands
T +31 78 684 94 29
F +31 78 684 94 30
netherlands@buchi.com
www.buchi.nl

BÜCHI Italia s.r.l.
Centro Direzionale, Milano Fiori
Pal. A-4, Strada 4
20090 Assago (MI)
Italia
T +39 02 824 50 11
F +39 02 57 51 28 55
italia@buchi.com
www.buchi.it

BUCHI (Thailand) Ltd.,
77/175, Sin Sathon Tower,
39th FL, Unit F
Krungthongburi Rd.
Klongtongnai, Klongsan
Bangkok 10600
Thailand
T +66 2 862 08 51
F +66 2 862 08 54
bacc@buchi.com
www.buchi.com

BUCHI SMP
Services Private Ltd.
201, Magnum Opus
Shantinagar Industrial Area
Vakola, Santacruz (East)
Mumbai 400 055,
India
T +91 22 66 98 94 50 / 51
F +91 22 66 98 94 52
smplisp@vsnl.com
www.buchi.com

BUCHI Corporation
19 Lukens Drive, Suite 400
New Castle
Delaware 19720
USA
T +1 302 652 3000
F +1 302 652 8777
Toll Free: +1 877 692 8244
us-sales@buchi.com
www.mybuchi.com

BUCHI Hong Kong Ltd.
1810 Fortress Tower
250 King's Road
North Point, Hong Kong
China
T +852 2389 2772
F +852 2389 2774
china@buchi.com
www.buchi.com

BUCHI Shanghai Trading LLC
21/F Shanghai Industrial
Investment Building
18 Caoxi Bei Road
200030 Shanghai
China
T +86 21 6468 1888
F +86 21 6428 3890
china@buchi.com
www.buchi.com

BUCHI UK Ltd
5 Whitegate Business Centre
Jardine Way
(off) Broadway
Chadderton
Oldham OL9 9QL
United Kingdom
T +44 161 633 1000
F +44 161 633 1007
uk@buchi.com
www.buchi.co.uk

BUCHI Sarl
5, rue du Pont des Halles
Z.A. du Delta
94656 Rungis Cedex
France
T +33 1 56 70 62 50
F +33 1 46 86 00 31
france@buchi.com
www.buchi.fr

Nihon BUCHI K.K.
3F IMON Bldg.,
2-7-17 Ikenohata, Taito-ku,
Tokyo 110-0008
Japan
T +81 3 3821 4777
F +81 3 3821 4555
nihon@buchi.com
www.nihon-buchi.co.jp

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partners worldwide. Find your local representative at
www.buchi.com

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