

Scrubber B-414



Pro-environmental extraction, cleansing and neutralization in four steps

Neutralize acid fumes and reaction gases which arise during Kjeldahl analysis or other processes, pro-environmentally and reliably with the Scrubber B-414. The apparatus operates without a water-jet pump and therefore minimizes tap water consumption. It can be adjusted to your exact requirements with various options. The self-contained design guarantees maximum safety in the work-place.

These advantages count:

- High suction performance thanks to a powerful pump (33 l/min.)
- Volume of scrubbing solution 3 l
- Flexible, for a broader application spectrum
- Efficient action thanks to a larger gas/liquid contact area
- Neutralization possible with alkalies and acids
- No condensation and thus no damage to laboratory equipment thanks to self-contained system
- Modular design

Configurable to meet your needs

Choose your scrubber with the following options according to the field of use and your requirements:

- Condenser or cold trap with collecting vessel
- Adapter and external collecting vessel for high volume condensation
- Reaction stage

Diverse areas of use

Neutralization and adsorption of acid or alkaline fumes and reaction gases which arise with the following applications:

- Determination of nitrogen by the Kjeldahl method
- Sulfate ash determination
- Synthesis



Safety in the work-place in accordance with CE and CSA standards developed according to ISO 9001.

Optimal neutralization and adsorption

This innovation secures for the Scrubber B-414 a decisive advantage over the competition.

Condensation

Condenser or cold trap for condensation of e.g. water vapor

Neutralization

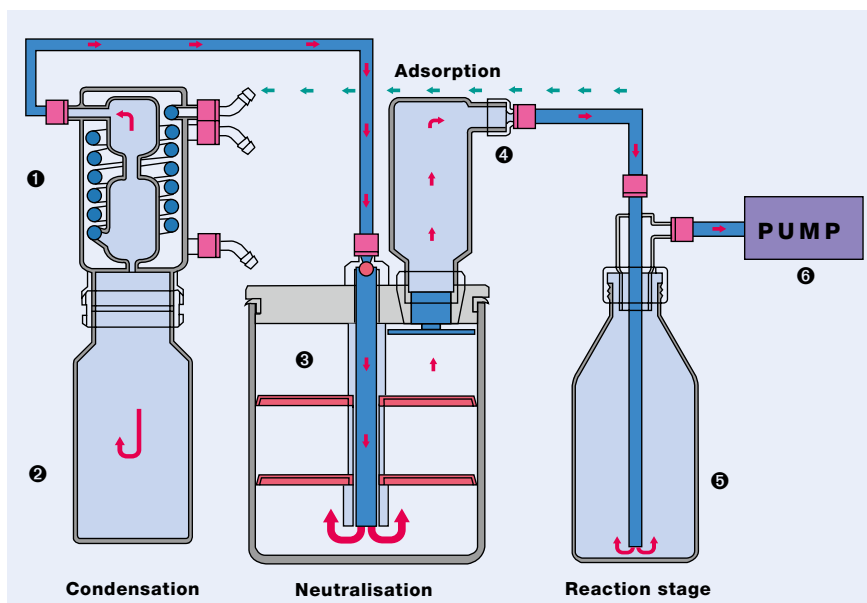
Scrubbing vessel for neutralization of acid or alkaline fumes

Adsorption

Adsorption tubelet with interchangeable adsorbents, e.g. activated charcoal granules

Reaction stage

Stage for specific reactions, e.g. oxidation, reduction, complex formation



The 4-steps gas cleansing system

- ❶ Condenser or cold trap
- ❷ Receiving vessel
- ❸ Neutralization vessel/scrubbing solution
- ❹ Adsorption tubelet/adsorbents
- ❺ Reaction stage
- ❻ Fume exhaust pump

The unique complete solution in Kjeldahl analysis

Büchi offers complete Kjeldahl solutions from A to Z with digestion unit, scrubber and distillation unit. All equipment meets high Büchi quality standards and the functionality and reliability guarantees satisfaction. You will achieve optimum results with marked savings in time and costs with the Büchi Kjeldahl range.



The Scrubber B-414 may also be combined with the Wet Digester System B-440 for pro-environmental preincineration of sulfate ash determination.

Order information



Order no.		Order no.		Order no.		Order no.	
B-414 (basic model)		B-414 (with condenser)		B-414 (with cold trap)		B-414 (complete model)	
Exhaust and gas scrubbing unit for the laboratory. The basic model is modularly expandable.		For pre-condensation of, e.g. water vapor and subsequent neutralization.		For pre-incineration for sulfate ash determination (B-440).		For various applications such as Kjeldahl determination, preincineration, synthesis etc.	
Consists of:		Consists of:		Consists of:		Consists of:	
<ul style="list-style-type: none"> ■ neutralization stage ■ adsorption stage 		<ul style="list-style-type: none"> ■ neutralization stage ■ adsorption stage ■ condenser and receiving vessel 		<ul style="list-style-type: none"> ■ neutralization stage ■ adsorption stage ■ cold trap and receiving vessel 		<ul style="list-style-type: none"> ■ neutralization stage ■ adsorption stage ■ condenser and receiving vessel ■ reaction stage 	
230 V, 50 Hz	37876	230 V, 50 Hz	37882	230 V, 50 Hz	37879	230 V, 50 Hz	37988
120 V, 60 Hz	37877	120 V, 60 Hz	37883	120 V, 60 Hz	37880	120 V, 60 Hz	37989
100 V, 50/60 Hz	37878	100 V, 50/60 Hz	37884	100 V, 50/60 Hz	37881	100 V, 50/60 Hz	37990
Options:		Options:		Options:		Option:	
Condenser and receiving vessel (1.2 litre)		Cold trap and receiving vessel (1.2 litre)		Condenser and receiving vessel (1.2 litre)		Cold trap and receiving vessel (1.2 litre)	
37954		37955		37954		37955	
Cold trap and receiving vessel (1.2 litre)		Reaction stage		Reaction stage			
37955		37956		37956			
Reaction stage							
37956							

Technical data

Scrubber B-414		Power consumption	
Mains voltage	230 V \pm 10 %, 50 Hz		200 W
	120 V \pm 10 %, 60 Hz	Current consumption (230 V)	1.5 A
	100 V \pm 10 %, 50/60 Hz	Weight	13 kg
		Dimensions (L x H x D)	260 x 450 x 480 mm

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 0 414
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 India
Private Ltd.
201, Magnum Opus
Shantinagar Industrial Area
Vakola, Santacruz (East)
Mumbai 400 055,
India
T +91 22 667 18983 / 84 / 85
F +91 22 667 18986
www.buchi.com

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

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.cn

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

BUCHI Srl
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.jp

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