



distillacid

Acid purification apparatus BSB-939-IR

Sub-boiling apparatus for production of fresh, high-purity acids for ultra trace analysis

To prevent corrosion even in continuous operation, the system uses only plastics (PP, PTFE and PFA). The distillate only comes into contact with high-purity PFA.

An infrared lamp provides contact-free heating. The lamp's wattage is set to ensure that a balance between absorbed IR radiation and evaporation heat of the liquid is established. This means that when working with HF, H₂O, HNO₃ or HCl, a maximum temperature of approximately 10°C below the boiling point of the respective acid is maintained, even without additional temperature controls.

■ Cost-effective

The system pays for itself very quickly because it uses inexpensive, commercially available acids that are analytically pure (for analysis).

The key advantage of the sub-boiling apparatus is that fresh, and therefore guaranteed pure, acids are constantly available at extremely low operating costs.

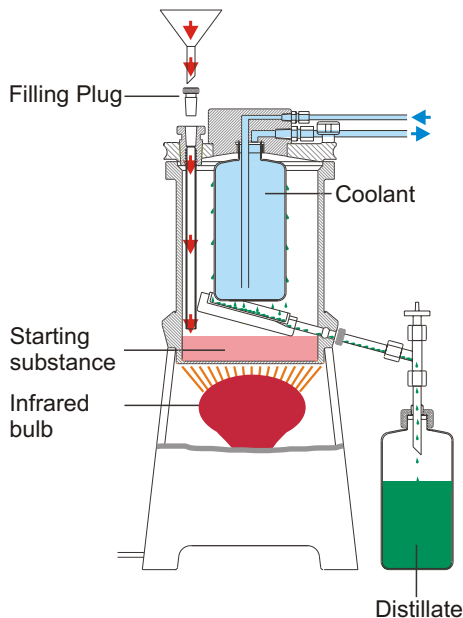


■ Purity grades

The following purity grades of hydrofluoric acid were measured following cleaning with sub-boiling apparatus BSB-939-IR.

Measured concentrations in ng/g (=ppb)

Ag	<0,05	In	<0,05
Al	0,2	K	0,6
As	<0,05	Li	<0,05
Au	<0,05	Mg	0,08
Ba	<0,05	Mn	<0,05
Be	<0,1	Mo	<0,05
Bi	<0,05	Na	0,6
Ca	0,1	Ni	0,3
Cd	<0,05	Pb	<0,05
Co	<0,05	Sb	<0,05
Cr	<0,05	Sn	<0,05
Cu	<0,05	Sr	<0,05
Fe	0,25	Ti	<0,1
Ga	<0,05	V	<0,05
Ge	0,4	Zn	<0,05



■ Distillate quantities

	Volume	Time
Water	1,8 l	24 hours
HNO ₃	1,2 l	24 hours
HCl	1,1 l	24 hours
HF	1 l	24 hours

■ BSB main unit**Order No.**

Subboiling BSB-939-IR	5037000
Spare lamp	5037210
Condensate bottle (1 L)	5091010

■ Technical Data

Materials	PTFE, PFA, PP
Heating	IR radiator 250 W
Voltage	230 V / 50 HZ
Weight (empty)	approx. 10 kg
Dimensions (B x D x H)	270 x 460 x 580 mm

■ BSB main unit *US version***Order No.**

Subboiling BSB-939-IR	5038000
Spare lamp	5038210
Condensate bottle (1 L)	5091010

■ Technical Data *US version*

Materials	PTFE, PFA, PP
Heating	IR radiator 250 W
Voltage	115-125 V / 50 HZ
Weight (empty)	approx. 10 kg
Dimensions (B x D x H)	270 x 460 x 580 mm

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PRODUCTS + INSTRUMENTS

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