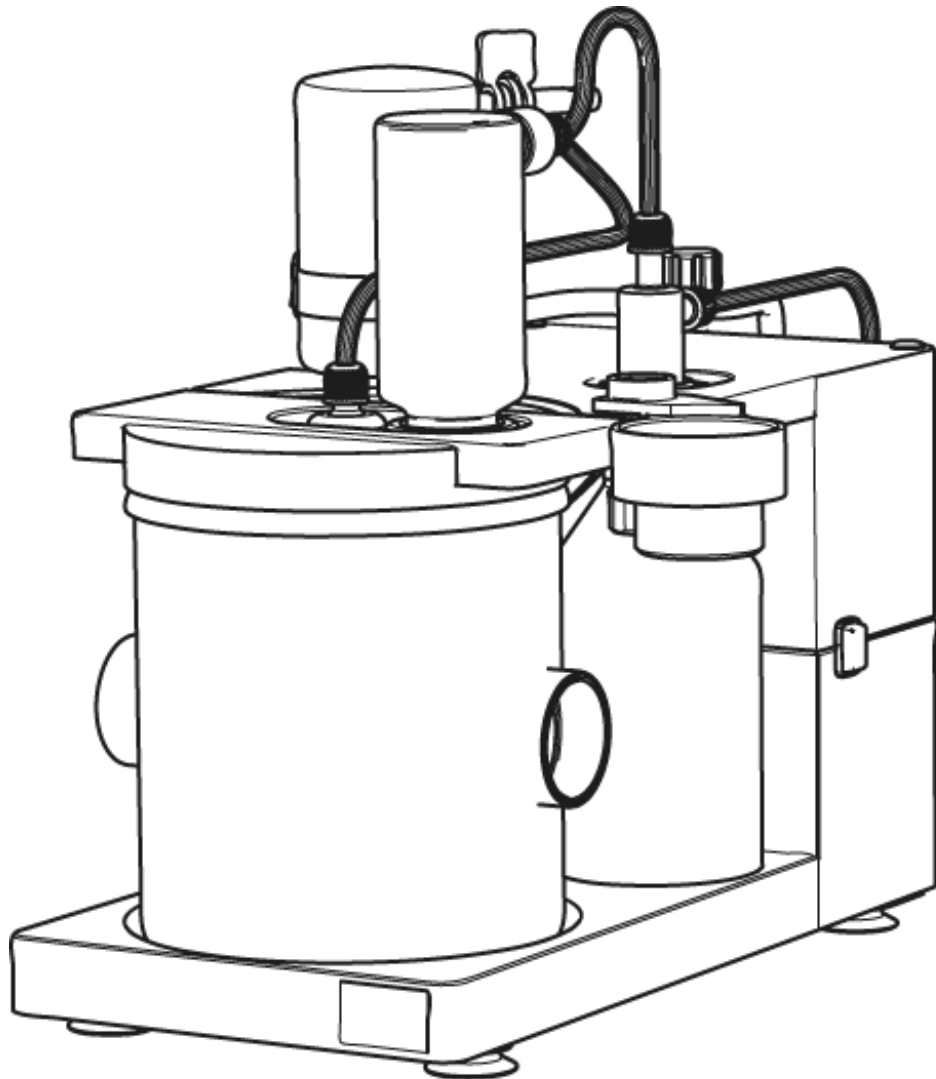




Scrubber K-415

Technical data sheet

The Scrubber^{ECO} models protect the environment not just by neutralizing the poisonous fumes but also by using just as much tap water as necessary by means of the automatic cooling water control. Each Scrubber is modularly extendable to a QuadScrub^{ECO} model.



Scope of delivery

All Scrubber models are delivered ready to use and are complete of:

Components	DuoScrub	TripleScrub	TripleScrub ^{ECO}	QuadScrub ^{ECO}
Condensation step		●	●	●
Neutralization step	●	●	●	●
Adsorption step	●	●	●	●
Reaction step				●
Cooling water control			●	●
Tray for adsorption storage		1	1	1
Silicone hose for cooling water		3 m	3 m	3 m
Hose for water control			2 m	2 m
Adapter with sieve for tap			1	1
Multi-tool			1	1
Connection cable to digester			1	1

Order code

Choose the configuration according to your needs:



Supply voltage

10	100 V ±10 %	50/60 Hz
12	120 V ±10 %	50/60 Hz
23	230 V ±10 %	50/60 Hz

Scrubber K-415 model

- 20 DuoScrub (neutralization & adsorption)
- 30 TripleScrub (condensation, neutralization & adsorption)
- 31 TripleScrub^{ECO} (condensation, neutralization & adsorption with cooling water control)
- 41 QuadScrub^{ECO} (condensation, neutralization, adsorption & reaction with cooling water control)

Dimensions and weight

	Dimensions (WxHxD)	Weight
DuoScrub	248 x 412 x 526 mm	10.1 kg
TripleScrub	347 x 417 x 526 mm	11.2 kg
TripleScrub ^{ECO}	347 x 417 x 543 mm	12.3 kg
QuadScrub ^{ECO}	347 x 450 x 543 mm	12.9 kg

Technical data

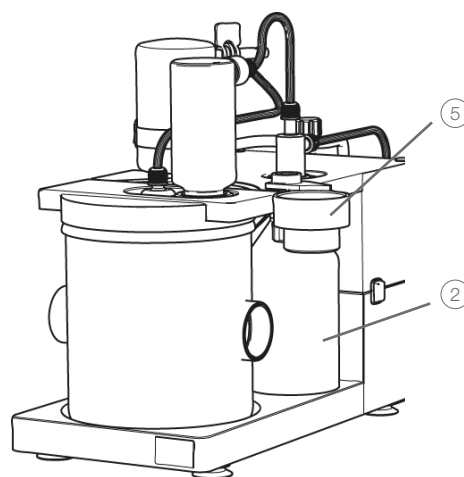
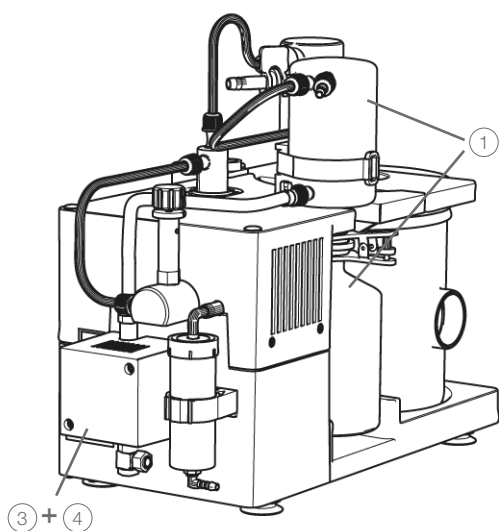
	230 V ± 10 %	120 V ± 10 %	100 V ± 10 %
Current consumption	1 A	2 A	2 A
Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Power consumption	140 W	140 W	140 W
Pump suction capacity	32 L/min	32 L/min	32 L/min
System suction capacity (adjustable) *	50 – 400 mbar	50 – 400 mbar	50 – 400 mbar
Overvoltage category	II	II	II
Pollution degree	2	2	2

* below atmospheric pressure

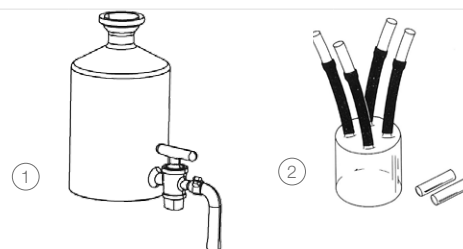
Accessories

The following sets contain all parts required for the appropriate upgrade:

Upgrade	Order number	Picture
Condensation step (for DuoScrub)	11058460	①
Reaction step (for DuoScrub & TripleScrub)	11058461	②
Cooling water valve (for 230 V models)	11058462	③
Cooling water valve (for 100 or 120 V models)	11058673	④
Tray for adsorption storage (for DuoScrub)	11057332	⑤



Optional parts	Order number	Picture
TKN Set easy collection and drain of condensate	11057333	①
Condensate bottle (secondary)	025100	②
Multi-Tool For K-415 ^{ECO} models	11058474	
Connection cable to digester The Scrubber is controlled by the digester by the cable connection (already incl. at Scrubber ^{ECO} models)	030973	
IQ/OQ set (EN)	11058568	
Repeating OQ (EN)	11058569	



Functional principle

The aggressive acid or alkali fumes are sucked off by means of the powerful pump into the first stage for precondensation to avoid dilution of the second stage. The output from the condensation stage is neutralized in the neutralization vessel. The third stage then collects particles of organic and inorganic substances. The fourth stage is for specific reactions such as reduction or oxidation (e.g. for aqua regia digestion).

A Condensation step

- ① Fumes in
- ② Condenser
- ③ Condensate vessel
- ④ Cooling water inlet
- ⑤ Cooling water outlet

B Neutralization step

- ⑥ Neutralization vessel

C Adsorption step

- ⑦ Adsorption vessel

D Reaction step

- ⑧ Reaction vessel
- ⑨ Pump

