Sulphur dioxide solutions

Flexible
Transparent
Efficient
Cost-effective

TWO DIFFERENT METHODS FOR YOUR SAMPLES

C. Gerhardt provides analysis systems tailored specifically to your laboratory. The VAPODEST distillation system enables automated determination of sulphur dioxide and formaldehyde. The TURBOTHERM SO₂ digestion unit provides an alternative to the classic reference method – the optimised Monier-Williams method.

Special digestion with

TURBOTHERM TT SO₂

The TT SO₂ is a digestion apparatus that was developed specifically for determining SO₂. The basic design is based on the TURBOTHERM rapid digestion unit. The system uses infrared technology to heat rapidly and evenly. The method is based on the optimised Monier-Williams method and it is exceptionally space-saving.

EFFICIENT
+ Homogeneity thanks to infrared technology
+ Rapid heating and cooling
+ Parallel analysis of up to 4 samples
+ Resource-saving
+ Easy handling of glassware

FLEXIBLE
+ Automatic heating programs
+ Space-saving
+ Removable insert rack

RELIABLE
+ Long-lasting and robust
+ ISO 17025-compliant data management
+ High level of safety and reliability

Automatic steam distillation with

VAPODEST 200–550

The VAPODEST distillation system as the acid-resistant version is suitable for SO₂ determination as well as formaldehyde. The method is exceptionally time-saving. The various VAPODEST models differ in the level of automation.

CONVENIENT
+ Quick to set up
+ Data recording in accordance with ISO 9001, ISO/IEC 17025, GLP

AUTOMATION
+ Connection of an unlimited number of apparatuses from VAPODEST 550
+ Automatic transfer of sample data to LIMS from all conventional peripheral equipment
+ Inlet and suction of chemicals can be regulated individually

RELIABLE
+ High sample throughput:
+ Maintenance-free steam generator
+ Long-lasting and robust
+ Individual maintenance and service concept

COST-EFFECTIVE
+ Automatic titration and calculation of results for VAPODEST 550
+ SO₂ determination in < 10 min
+ Energy-saving
+ Resource-saving
+ Sample tubes up to 1,200 ml

SAFE
+ Intelligent monitoring of all components
+ Soft-start function
+ Level control sensors for different storage tank sizes

Fully automated distillation system with autosampler for 20 samples

VAPODEST 550 Carousel

+ Automatic sample feeder
+ Safe sample transfer
+ Space-saving

TECHNICAL INFORMATION

Details	TT SO₂
Applications	SO₂
Number of heaters	4
Tube sizes	800 ml
Max. temperature	approx. 650 °C
Programs	99
Analysis time, complete	approx. 150 min, for 1–4 samples
Adjustable volume flow	10–100 l/h
Rated power input	2,000 W
Dimensions W/D/H	636 x 510 x 1,200 mm
Weight	approx. 35.5 kg
Rated voltage	230 V, 50/60 Hz
Current	9.0 A
Article number of 230 V version	12-0640

Details	VAP 200-550 / VAP 550 C
Application	SO₂, formaldehyde
Built-in titration	Yes
Gerhardt Dashboard, program for data management	Yes
Adjustable steam output	0–100%
Resource-saving stand-by mode	Yes
Distillation time / sample	6–12 minutes
Automatic addition of reagents	Yes, dep. on the level of automation
Automatic extraction of samples/receivers	Yes, from Model 400
100, 250, 400, 800 and 1,200 ml digestion tubes possible	VAP 200-550
250 ml, 400 ml, 400 BS digestion tubes possible	VAP 550 C
250 ml, 500 ml and 750 ml Kjeldahl flasks possible	VAP 200-550
Connection for fill level monitoring of set of tanks	Yes
Fill level monitoring of storage tanks	Optional/standard
Cooling water pressure	1–6 bar
Rated voltage*	230 V, 50/60 Hz
Power consumption	2,200 W / 2,300 W
Weight	approx. 44 kg / 205 kg
Dimensions VAP 550 (W x D x H)	527 x 390 x 697 mm
Dimensions VAP 550 C (W x D x H)	960 x 600 x 1,670 mm
Predefined methods	Yes
Programmable methods	Yes
Pump calibration	Yes

Article*	Article number
VAPODEST 200A	12-0522
VAPODEST 300A	12-0532
VAPODEST 400A	12-0542
VAPODEST 450A with Titration	12-0547
VAPODEST 550 A	12-0573
VAPODEST 550 C, 20 x 250 ml tubes	12-0572
VAPODEST 550 C, 20 x 400 ml tubes	12-0592

*Further rated voltages upon request

ACCESSORIES

Storage tanks, level control sensors, sample tubes in various sizes and further accessories are available on request. For more information and details, see our in-depth product data sheet

APPLICATIONS

Benefit from our analytical experience and talk to our application specialists.

SERVICE

Our authorised, optimally trained C. Gerhardt partners carry out servicing and maintenance on your C. Gerhardt analysis system in line with our guidelines.