

# STEAM DISTILLATION WITH RESULTS

KJELDAHL ANALYSIS SYSTEM WITH EXTERNAL TITRATOR



C. Gerhardt proudly presents the brand new development of the successful VAPODEST line.

Additional functions increase the range of applications.

VAPODEST 450 comes micro processor controlled and equipped with embedded PC and 7 inch TFT touch display.

When connected to a C. Gerhardt titrator, titration is performed automatically after distillation.

VAPODEST 450 complies with the data management requirements of certified or accredited laboratories (ISO 9001, ISO 17025, GLP).



## UNRIVALED EASE OF USE

- + Quick start concept
- + Favourite method menu
- + Easy menu navigation
- + 7 inch TFT fully coloured display
- + Easy-clean surfaces
- + Back lit glass components

## SAFETY

- + Intelligent supervision of all vital functions
- + Components meet highest safety standards
- + Comprehensive built-in safety systems for operator protection

## EFFICIENCY

- + Energy-saving mode
- + Long-life, robust housing
- + Huge range of glassware options
- + High-quality, reliable components

## FUNCTIONS

- + Programmable, automatic addition of NaOH, H<sub>2</sub>O and H<sub>3</sub>BO<sub>3</sub>
- + Programmable distillation time
- + Programmable reaction time
- + Programmable steam power, 10–100 %
- + Programmable suction of sample residue
- + Steam soft start
- + User accounts with different levels
- + Comprehensive documentation and log function
- + Designed for results to fully conform (e.g. DIN EN ISO, AOAC, EPA, ASTM, EC regulation, APHA, Ph.Eur. 2.5.33 method 7, procedure A)
- + Data export e.g. to LIMS
- + Language selection
- + Tamper-free documentation
- + The optional Software ISOdoc-CREATOR creates ISO 17025-compliant documentation

## ADDITIONAL FUNCTIONS WITH A C. GERHARDT TITRATOR

- + Automatic endpoint titration
- + Display of titration solution consumption
- + Display of pH-value





„Menu navigation  
as easy as using  
a Smartphone!“



## ACCESSORIES

Tanks, level sensors for tanks, catalyst tablets, different sizes of glassware and many more accessories are available on request.



## APPLICATIONS

Benefit from our analytical know how and our comprehensive C. Gerhardt Application Data Base.

## SERVICE

Our authorized, well-trained, C. Gerhardt partners offer service and maintenance for your Gerhardt systems according to our guidelines.

## MODELS

- + Distillation system with titrator
- + Distillation system without titrator, prepared for connection to a C. Gerhardt titrator

## TECHNICAL INFORMATION

Technical Specifications	VAP 450
Variable steam power	10 - 100 %
Size of Display	7 inch, 480x800 pixel, touchscreen
Stand-By-Mode	Yes
Distillation time / sample	approx. 3.5 min
Recovery	> 99.5 %
Repeatability	± 1 %
Detection limit	0.1 mg N absolute
Safety door	Yes
KJELDATHERM-tube KTG 250/300 ml volume	Standard configuration
Different sizes of digestion tubes can be used	Yes
Different sizes of Kjeldahl-flasks can be used	Yes
Connection to level control	Yes
Level sensors for tanks	Optional
Cooling water pressure	1 - 6 bar
Nominal voltage*	230 V, 50 Hz
Nominal wattage	2200 W
Weight	approx. 34 kg
Dimensions (W x D x H)	527 x 390 x 697 mm
Pre-defined methods	Yes
Customer defined methods	Yes
Pump calibration	Yes
Model with external titrator	Yes
Model prepared for connection to external titrator	Yes
Order-no. VAPODEST 450 <b>with</b> Titrator	12-0545
Order-no. VAPODEST 450 <b>without</b> Titrator	12-0550

\* Other voltages on request

Since 1846  
C. Gerhardt



EN ISO  
9001:2008

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