

RAYPA

Leading
Lab Technologies



Food analysis

Enodest

OENOLOGIC
DISTILLER



Enodest

Enodest oenologic distiller with steam regulator determines the volumetric alcoholic degree in wines, musts, beers, liqueurs of all types and high alcoholic beverages according to the OIV regulations. Additionally it can also determine the volatile acidity and sorbic acid in wines.

INTENDED USE

- WINE AND CHAMPAGNE CELLARS
- LIQUOR FACTORIES
- BREWERIES
- ETHANOL PRODUCTION



MAIN FEATURES

Programmable steam generation

Steam generation control through a manual regulator, in order to be able to manage alcohol distillations for different graduations, even above 40°. Prevents the formation of foam during slow boiling for better results.

Visual signal

This equipment is provided with two illuminated signs that indicate the lack of distilled water for steam generation and the lack of water from network for refrigeration.

Distillation by steam dragging

The sample is heated by distilled water steam, performing the distillation following the OIV regulations, CEE 2676/90 and CE 2870/2000 and thus ensuring reliable results.

Process supervision

The distillation process takes place in a glass tube without being covered, so that the customer can see the process at all times and supervise the proper performance of the equipment and therefore obtain correct results.

Obtaining a distillate at low temperature

The temperature of the sample passes from approximately 100 °C (in which the boiling is obtained) to 22 °C, temperature at which the distillate is collected.

Safety First

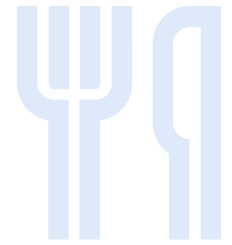
The equipment has a security system. During distillation, if the system detects lack of tap water automatically stops. Thus, rising to high pressures that could be dangerous for the user and create malfunction of the equipment is avoided.

Automatic stop at the end of the distillation

The **Enodest** has a sensor, which enables to stop the distillation once all the alcohol has been evaporated and condensed.

Collection of different distillate volumes

Enodest has an adapter for collection vials of different volumes. This adaptation makes it possible to comply with various international regulations.



**DETERMINES
THE ALCOHOLIC
DEGREE**



**ANALYZES THE
VOLATILE ACIDITY**



**ANALYZES
SORBIC ACID**



BENEFITS



Determination:
volumetric alcoholic
degree, volatile acidity
and sorbic acid



Adaptable:
manual or automatic
distillation and different
volumes of distillate



**Steam regulation
incorporated**



**Push button for distillate
manual addition**



**Automatic stop
of cooling water at
the end of distillation**



**Optical display for
min level and steam
generator alarm**



**Easy operation
of the equipment**



**Excellent safety
measures for users**



Features

| | ENODEST |
|--------------------------------------|--------------------|
| External dimensions L x D x H | 384 x 360 x 865 mm |
| Weight | 27 Kg |
| Power | 2000 W |
| Frecuency | 50/60 Hz |

Specifications

| | |
|--|----------------|
| Distillation method | Steam dragging |
| Water consumption steam generator | 1.6 l/h |
| Steam generator power | 1800 W |
| Refrigeration water flow | 75 l/h |
| Distillation time | 7 min / 200 ml |

Accessories features

| Reference | Description | Max. volume sample | Dimensions Ø x H |
|-----------------|-------------------|--------------------|------------------|
| TB-42300 | Distillation tube | 100 ml | Ø 42 x 300 mm |
| TB-80300 | | 250 ml | Ø 80 x 300 mm |
| MA-100 | Volumetric flask | 100 ml | Ø 61 x 170 mm |
| MA-200 | | 200 ml | Ø 75 x 200 mm |
| MA-250 | | 250 ml | Ø 80 x 220 mm |

| Reference | Description | Volume | Dimensions L x D x H |
|---------------|--------------------------------|--------|----------------------|
| GF-10L | Reservoir for H ₂ O | 10 L | 240 x 115 x 300 mm |

| Reference | Description | Dimensions Ø x H |
|----------------|---------------------|------------------|
| GRA-640 | Tubes rack 6 places | Ø 42 x 300 mm |
| GRA-680 | | Ø 80 x 300 mm |

Components supplied with the equipment

- 1 distillation tube for maximum sample volume of 100 ml.
- 1 distillation tube for maximum sample volume of 250 ml.
- 1 volumetric flask of 100 ml.
- 1 volumetric flask of 200 ml.
- 1 volumetric flask of 250 ml.
- 1 reservoir of 10 litres for H₂O.
- Connection hoses.

Regulations

UNE-EN-ISO 9001:2015 Quality management system

EN-61010-1 Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements

EN-61010-2-081 Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes

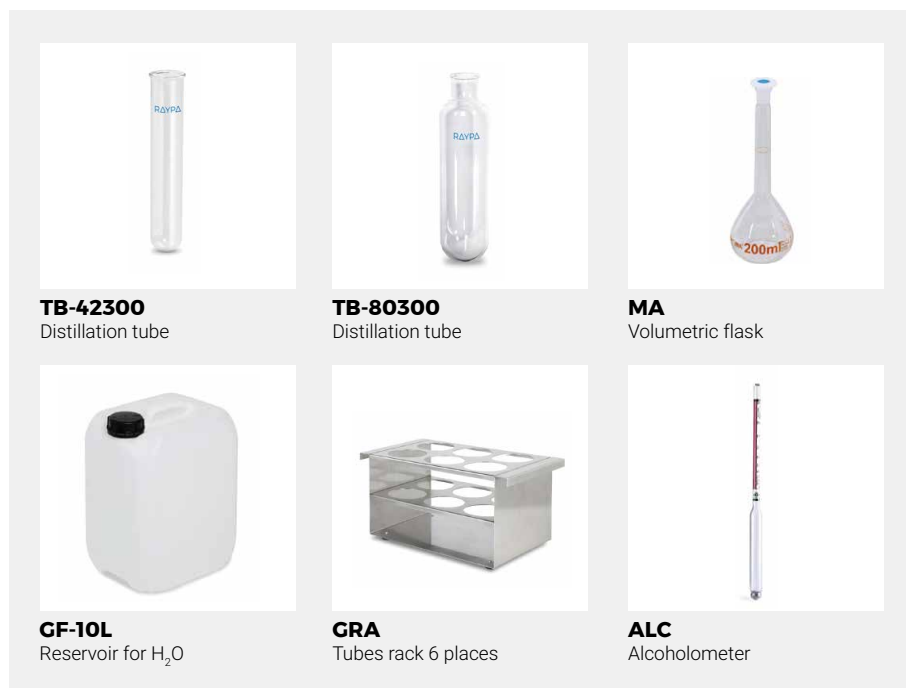
EN-61326 Electrical equipment for measurement, control and laboratory use. EMC Requirements

2014/35/UE Low Voltage

2014/30/UE Electromagnetic Compatibility

OIV CEE 2676/90, CE 2870/2000: Determination of the volumetric alcoholic degree

| Reference | Description | Alcoholic strength | Resolution |
|-------------------|---------------|--------------------|------------|
| ALC-0-10 | Alcoholometer | 0 - 10 % | 0,1% |
| ALC-10-20 | | 10 - 20 % | 0,1% |
| ALC-20-30 | | 20 - 30 % | 0,1% |
| ALC-30-40 | | 30 - 40 % | 0,1% |
| ALC-40-50 | | 40 - 50 % | 0,1% |
| ALC-50-60 | | 50 - 60 % | 0,1% |
| ALC-60-70 | | 60 - 70 % | 0,1% |
| ALC-70-80 | | 70 - 80 % | 0,1% |
| ALC-80-90 | | 80 - 90 % | 0,1% |
| ALC-90-100 | | 90 - 100 % | 0,1% |



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