

885 Compact Oven Sample Changer



Affordable, automated sample preparation for Karl Fischer titration

Automated thermal sample preparation for Karl Fischer titration

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The 885 Compact Oven Sample Changer is the solution for thermal sample preparation in Karl Fischer titration. In the oven the samples can be heated up to 250 °C. The moisture contained in the sample evaporates and is transported by a stream of dry carrier gas into the titration cell, where the analysis proper takes place.

Principle and applications of the oven method

The oven method is suitable for samples that release their water only at high temperatures, are difficult to dissolve or react with the KF reagent.

The substance to be analyzed is weighed out into a sample vial, which is then hermetically sealed. The sample is placed on the changer and heated in the oven. A double hollow needle pierces the septum and a dry stream of carrier gas transports the released water to the titration cell.

The advantage of the oven method is that the sample itself does not get in contact with the KF reagent. This prevents contamination of the oven and titration cell; carryover or memory effects that could distort the results of the analysis are ruled out.

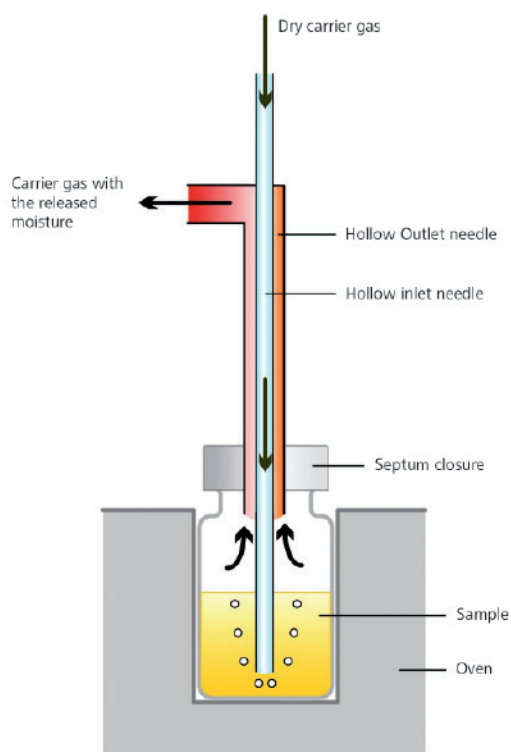


Diagram of oven method



Advantages of the 885 Compact Oven Sample Changer

- **Small footprint**

The name of the 885 Compact Oven Sample Changer says it all: the instrument provides automation in a very small space. After the sample has been weighed in, the hermetically sealed vials are simply placed on the rack of the sample changer and the sample series is started. One sample after the other is automatically delivered for analysis.

- **Great flexibility**

Depending on the sample, Karl Fischer titration can be performed coulometrically or volumetrically. Either way, the 885 Compact Oven Sample Changer can be operated with all stand-alone Karl Fischer titrators with sample table.

- **Easy to use**

The 885 Compact Oven Sample Changer is controlled by way of the integral keypad. Only the oven temperature and the gas flow need to be defined and the number of test samples set. If the titrator is linked with a balance, not even the weight of the samples need to be entered manually.

- **Reusable sample vials**

Screw-cap vials are used with the 885 Compact Oven Sample Changer. After measuring, this type of sample vial can be opened and cleaned without any problem and then reused. Only the pierced septum needs to be replaced.



Technical specifications

Rack positions	18
Temperature range	50–250 °C
Heating rate	typically 15 °C/min
Cooling rate	typically 9 °C/min
Gas flow	10–150 mL/min
Nominal operation range	5–45 °C
Humidity	< 80%
Voltage	100–120 / 220–240 V
Frequency	50 / 60 Hz
Power input	200 W

Ordering information

2.885.0010 Compact Oven Sample Changer

Optional accessories

2.756.0110 756 KF Coulometer

2.831.0110 831 KF Coulometer

2.851.0120 851 Titrand Coulometer with diaphragmless generator electrode and 900 Touch Control

2.852.0160 852 Titrand Coulometer with diaphragmless generator electrode and 900 Touch Control

2.890.0110 890 Titrand with 900 Touch Control

2.899.0110 899 Coulometer with generator electrode without diaphragm

6.1448.067 Screwcap with septum (100 pieces)

6.1448.077 Septum for 6.1448.067 (100 pieces)

6.2420.007 Sample vessel (8 mL) with thread (100 pieces)

6.2141.340 Remote-cable Compact Oven Sample Changer – Coulometer/Titrand

6.2148.010 Remote box



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