

KFT20

Karl Fischer Coulometer • 10 µg – 20 mg H₂O • ±(5 % + 3) µg • ≤3 % • Diaphragm cell

KFT20 Karl Fischer Coulometer is a compact coulometric Karl Fischer titrator for trace moisture from 10 µg to 20 mg H₂O with ±(5 % + 3) µg accuracy and ≤3 % repeatability. A generator cell with diaphragm, selectable generator current (10 / 20 / 50 / 100 mA), settable polarization current, endpoint and stop criteria, stored results and RS-232 printer output make it suited for oils, solvents, gases and pharmaceuticals.

KARL FISCHER COULOMETER

10 MG – 20 MG H₂O

±(5 % + 3) MG

≤3 %

DIAPHRAGM CELL

GLP

RS-232

Document type: **Technical Specification Sheet**

Product: **KFT20 Karl Fischer Coulometer**

SKU: **PRO6106**

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KFT20 • Karl Fischer Coulometer



Titration cells • coulometric cell on the magnetic stirrer

MODEL / SKU

**KFT20
PRO6106**

ADDRESS / HQ

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KFT20 • technical specification

Karl Fischer Coulometer • Coulometric KF titration

10 MG - 20 MG H₂O ±(5 % + 3) MG ≤3 % DIAPHRAGM CELL — Water determination for chemicals, oils, pharma and food

Product Overview

Application profile

Trace moisture: transformer and lubricating oils, solvents and gases at µg level.

Plastics and polymers: water in granules and polymers with suitable sample preparation.

Pharma and food: moisture in APIs, excipients, powders and food products.

QC laboratories: routine release testing with GLP data and printouts.

Key features

Water range: 10 µg – 20 mg H₂O

Polarization current accuracy: ±0.2 µA

Generator current: 10 / 20 / 50 / 100 mA

Generator current accuracy: ±0.5 %

Accuracy: ±(5 % + 3) µg

Core technical summary

Parameter	Specification
Model	KFT20
SKU	PRO6106
Instrument type	Karl Fischer Coulometer
Water range	10 µg – 20 mg H ₂ O
Polarization current accuracy	±0.2 µA
Generator current	10 / 20 / 50 / 100 mA
Generator current accuracy	±0.5 %
Accuracy	±(5 % + 3) µg
Repeatability	≤3 %
Generator cell	with diaphragm

Advantages

Generator cell: with diaphragm — the generator current is selectable.

Settable parameters: units, polarization current, stirring, endpoint potential and stop criterion.

Data memory: results stored, RS-232 printout; RS-232 (printer).

WATER RANGE
 10 µg – 20 mg

ACCURACY
 ±(5 % + 3) µg

REPEATABILITY
 ≤3 %

GENERATOR CURRENT
 10–100 mA

Technical values are provided for product selection. The delivered configuration, electrode type and accessory set are confirmed in the official COLO.Science quotation.

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Technical Parameters

Parameter	Specification	Parameter	Specification
Model	KFT20	Generator cell	with diaphragm
SKU	PRO6106	Units	µg, mg, %, mg/L, g/L
Water range	10 µg – 20 mg H ₂ O	Data memory	results stored, RS-232 printout
Polarization current accuracy	±0.2 µA	Display	LCD
Generator current	10 / 20 / 50 / 100 mA	Data output	RS-232 (printer)
Generator current accuracy	±0.5 %	Power supply	AC adapter, 200–240 V AC
Accuracy	±(5 % + 3) µg	Dimensions	300 × 235 × 100 mm
Repeatability	≤3 %	Weight	approx. 2 kg

Specification notes

Method choice: volumetric KF for samples with more than about 0.1 % water, coulometric KF for ppm and trace levels.

Reagents: KF reagents are ordered separately; use reagents matching the method (titrant and solvent, or anolyte and catholyte).

Good practice: keep the cell sealed, replace the desiccant in the drying tubes regularly and let the drift stabilize before each determination.

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Magnetic stirrer with coulometric cell

Separate stirrer unit with the electrolytic cell, generator electrode with diaphragm and measuring electrode.

Standard delivery

More accessories and consumables

SKU	Item	Use	Status
—	Karl Fischer reagents (titrant, solvent, anolyte / catholyte)	Consumables — ordered separately	Optional
—	Molecular sieve / desiccant for drying tubes	Protection of the cell from ambient moisture	Optional
—	Syringes and needles for sample injection	Liquid sample dosing	Optional
—	RS-232 printer	GLP printout of results	Optional

Standard delivery: KFT20 unit, magnetic stirrer with coulometric cell, generator electrode with diaphragm and measuring electrode. KF reagents are not included. Standard delivery is confirmed in the quotation.

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KFT20 standard delivery

Ordering information

Item	Value
Model	KFT20
SKU	PRO6106
Instrument type	Karl Fischer Coulometer
Standard delivery	magnetic stirrer with coulometric cell, generator electrode with diaphragm and measuring electrode
Not included	KF reagents, printer
Power supply	AC adapter, 200–240 V AC

Configuration checklist

Water content: % level (volumetric) or ppm / μg level (coulometric).

Sample: liquid, solid or gas; solubility in the KF reagent.

Reagents: one- or two-component titrant, or coulometric analyte / catholyte.

Documentation: RS-232 printer for GLP printouts.

MANUFACTURER AND SUPPORT

COLO Lab Experts
Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: KFT20 is chosen for trace moisture in oils, solvents and gases at an entry price. COLO.Science helps you choose cells and reagents.

QUICK CONTACT

 colo.si

 sales@colo.si

 +386 70 713 437

COLO.SCIENCE · KARL FISCHER TITRATOR CONFIGURATION SUPPORT

Need help choosing the right Karl Fischer method?

Tell us the sample, the expected water content and the number of samples. COLO.Science will confirm the KFT20 configuration, cells and reagents.

Web: colo.si

Ask us:

Price and current discount, delivery time, electrode selection for your sample, calibration standards, installation and operator training, spare electrodes and accessories — write to sales@colo.si or call us.

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