

titramax VT

Volumetrische Titratoren

made by **ECH**

Examples of device variants

Bromine Titrator

Determination of Bromine Index or Bromine Number of hydrocarbons according to standards

- ASTM D 1159
- ASTM D 2710
- ASTM D 5776

Chloride Titrator

Determination of chlorides in water and extracts according to the standards

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|------------------|--------------|
| • ASTM C 1218 | • ISO 5810 |
| • ASTM D 4458-15 | • ISO 5943 |
| • ASTM D 4929-22 | • ISO 6227 |
| • ASTM D 6470-99 | • ISO 9197-1 |
| • DIN EN 196-2 | • UOP 456-80 |

Photometric Titrator

Titration with colour indicator for endpoint determination using a photometric sensor

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|---|-----------------------------------|
| • Chondroitin sulphate sodium according to Ph. Eur. and USP | • TAN/TBN according to ASTM D 974 |
| • Carboxyl end groups in PET | • Sulphate (Thorin indicator) |
| | • Ca/Mg and total hardness |

Acid/Base Titrator

Determination of acids and bases, carbonates, bicarbonates and others according to standards

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|--------------------|---------------|
| • ASTM D 1121 | • DIN ISO 125 |
| • DIN EN ISO 787-4 | • ISO 10539 |

TAN/TBN Titrator

Determination of total acid or base number of oils and fats according to standards

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|-----------------|---------------|
| • ASTM D 664 | • ASTM D 2896 |
| • DIN 51558 | • ASTM D 4739 |
| • IEC 62021-1 | • ISO 3771 |
| • Pharmacopoeia | • UOP 269 |

Sulphur Titrator

Determination of H₂S and mercaptan sulphur in hydrocarbons and oils according to standards

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|---------------|-----------|
| • ASTM D 3227 | • UOP 163 |
| • ISO 3012 | • UOP 212 |

Water Titrator

Water determination in liquids by volumetric Karl Fischer titration according to standards

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|-----------------|-------------|
| • ASTM D 4377 | • IP 356 |
| • ASTM D 6869 | • IP 471 |
| • ASTM E 203 | • ISO 10336 |
| • DIN 51777 | • ISO 6296 |
| • Pharmacopoeia | |



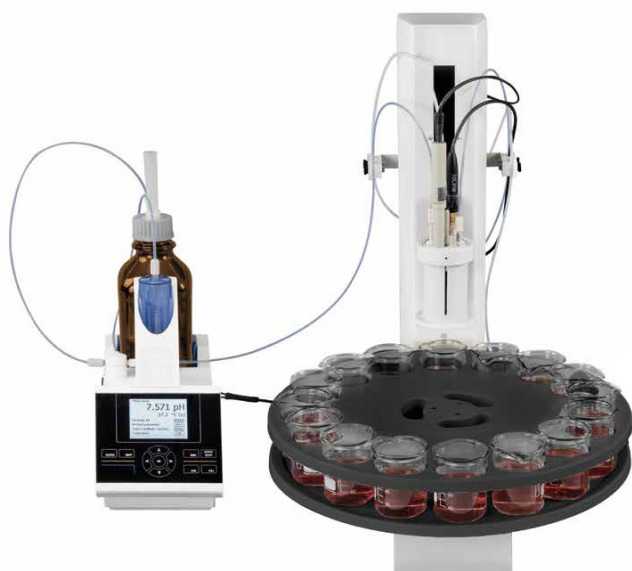
Titramax VT - Accessories and equipment for various volumetric measuring methods available

Features

- Complete measuring station for the desired parameter
- Including application note with step-by-step instructions
- Measuring method prepared according to the corresponding standard
- Titrator is immediately ready for use
- Titration process runs automatically
- Easy handling for everyone
- Dimensions 30 x 45 x 30 cm (W x H x D), height with exchange unit
- Weight approx. 3.5 kg (with exchange unit and empty reagent bottle)

Autosampler for the Titramax VT

- Stirring from below (built-in magnetic stirrer) or from above with an optional rod stirrer (propeller stirrer)
- Sample trays with 12, 16, 24 or 42 positions
- Five different titration heads
- Titration heads and sample trays easy and quick to change
- Calibration of a pH electrode also possible on the sample changer
- Control of the autosampler via the TitriSoft software



Titramax VT with connected autosampler for 16 samples



Titramax VT with connected autosampler for 42 samples



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