TITRATION SYSTEMS

1) TitraLab® AT1000 & KF1000 Series

The Titralab AT1000 Series laboratory analysis systems are one touch, automatic analysers, covering both Potentiometric Titration (AT1000 Series) and Karl Fischer volumetric Titration (KF1000 Series) with pre-set methods that can quickly deliver accurate and reliable results straight from the box, allowing anyone in the laboratory to immediately perform accurate and reproducible titrations.

A Titralab 1000 Series system is composed of two elements: The Application Package and the Titrator (AT1000 or KF1000). The Titrator is delivered preassembled for quick setup, and the application package includes all specific elements to make it quick and easy for anyone to set up and operate a test without need for any complex programming.

Part Number	Burette for Titrant	Pumps	Measurement method	Required Application Package/s
AT1102.98	1	0		AP0001.AT1102 AP0002.AT1102 AP0006.AT1102 AP0008.AT1102 AP0015.AT1102 AP0016.AT1102
AT1112.98	1	1		AP0003.AT1112 AP0004.AT1112 AP0009.AT1112 AP0010.AT1112 AP0017.AT1112
AT1122.98	1	2		AP0007.AT1122 AP0012.AT1122

By providing automatic titrations that reduce testing complexity, the Titralab AT1000 Series increase confidence in results and eliminates operator interpretation commonly associated with manual titration.

Part Number	Burette for Titrant	Pumps	Measurement method	Required Application Package/s
AT1222.98	2	2		AP0005.AT1222 pH, Alkalinity & Hardness in Water AP0011.AT1222 pH, Total Acidity & Chlorides in Food & Beverage AP0013.AT1222 pH, Total Acidity, Free & Total SO_2 in Wine
KF1121.98	For Titrant 1	2	Volumetric Karl Fischer, AC or DC imposed current	AP0014.KF1121 Moisture Content

2) AT1000 Application Packs

Application Packages for use with Titralab 1000 Series titrators from Hach contain all elements except reagents to make it quick and easy for everyone to set up and operate a test. Each Application Package is specifically designed for unique parameters to ensure accurate and reproducible measurements at a glance, including*:

• Adapters

• Glass bottle

• Magnetic stirring bars

• Polypropylene beakers

• Bottle stopper with desiccant tube

• Electrode(s) (Digital Intellical or Analogue)

• High precision glass syringe (Hamilton)

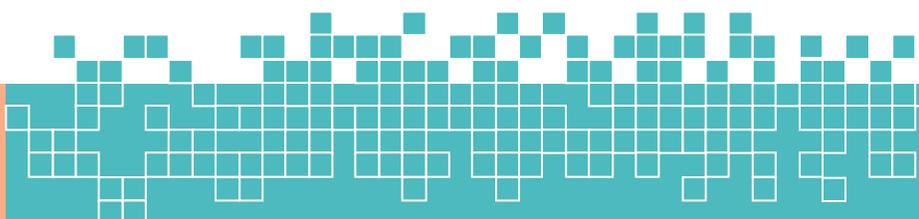• USB key containing application notes and applications to automatically program titrators forselected parameters.

Setting up your application has never been so simple.

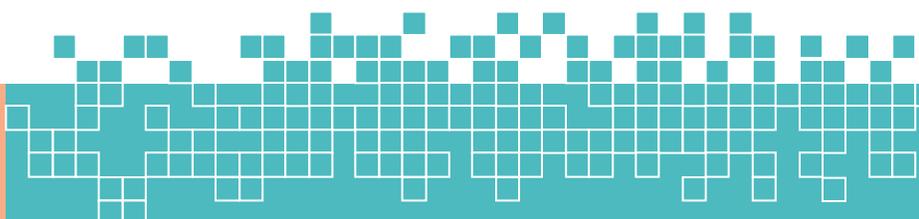* Application package content varies depending on application/parameters.

Part Number	Application	Parameter	Compatible instruments	Type
AP0025.AT1102	Food & Beverage	pH, Total Acidity	AT1102 AT1112 AT1122 AT1222	Application Pack
AP0026.AT1222	Food & Beverage	pH, Total Acidity	AT1222	Application Pack
AS1000.98.20090				Sample Changer
AS1000.98.30050				Sample Changer

Part Number	Application	Parameter	Compatible instruments	Type
AS1000.98.12150				Sample Changer
AP0009.AT1112	Water Applications	Chloride	AT1112 AT1122 AT1222	Application Pack

Part Number	Application	Parameter	Compatible instruments	Type
AP0005.AT1222	Water Applications	pH/Alkalinity & Hardness	AT1222	Application Pack
AP0001.AT1102	Water Applications	pH/Alkalinity	AT1102 AT1112 AT1122 AT1222	Application Pack
AP0002.AT1102	Water Applications	pH/Alkalinity & Conductivity	AT1102 AT1112 AT1122 AT1222	Application Pack
AP0003.AT1112	Water Applications	Ca & Mg Hardness (ISE)	AT1112 AT1122 AT1222	Application Pack
AP0011.AT1222	Food & Beverage Applications	pH, Total Acidity & Chloride	AT1222	Application Pack
AP0013.AT1222	Food & Beverage Applications	pH, Total Acidity, Free & Total SO_2 in Wine	AT1222	Application Pack
AP0008.AT1102	Food & Beverage Applications	pH, Total Acidity	AT1102 AT1112 AT1122 AT1222	Application Pack

Part Number	Application	Parameter	Compatible instruments	Type
AP0010.AT1112	Food & Beverage Applications	Salt in food products	AT1112 AT1122 AT1222	Application Pack
AP0012.AT1122	Food & Beverage Applications	Free & Total SO_2 in Wine	AT1122 AT1222	Application Pack
AP0006.AT1102	Environmental Applications	FOS/TAK (Biogas)	AT1102 AT1112 AT1122 AT1222	Application Pack
AP0007.AT1122	Environmental Applications	Free & Total Chlorine, Chlorine Dioxide, Chlorite, Sulfite (Autocat)	AT1122 AT1222	Application Pack
Part Number	Application	Parameter	Compatible instruments	Type
AP0015.AT1102	Petrochemical Applications	TAN (Total Acid Number)	AT1102 AT1112 AT1122 AT1222	Application Pack
AP0016.AT1102	Petrochemical Applications	TBN (Total Base Number)	AT1102 AT1112 AT1122 AT1222	Application Pack
AP0014.KF1121	Moisture Content Application	Moisture Content (Karl Fischer)	KF1121	Application Pack
AP0004.AT1112	Water Applications	Total Hardness (Color)	AT1112 AT1122 AT1222	Application Pack

AP0017.AT1112	Petrochemical Applications	R-SH (Thiol)	AT1112 AT1122 AT1222	Application Pack
AP0018.AT1102	Petrochemical Applications	BR_2/I_2 Number	AT1102 AT1112 AT1122 AT1222	Application Pack

3) Manual Titrators

Get accurate (±1%), convenient manual titrations performed without the bulk, fragility, or waste of a conventional glass burette, using the Hach Digital Titrator. Test for eighteen parameters including chlorine, hardness, and iron. Uses interchangeable titrant cartridges.

Part Number	Reagents included	Includes	Carrying case included	Accessories included	AED Price
1690001	No	Digital Titrator only	No	No	