

REVOLVE



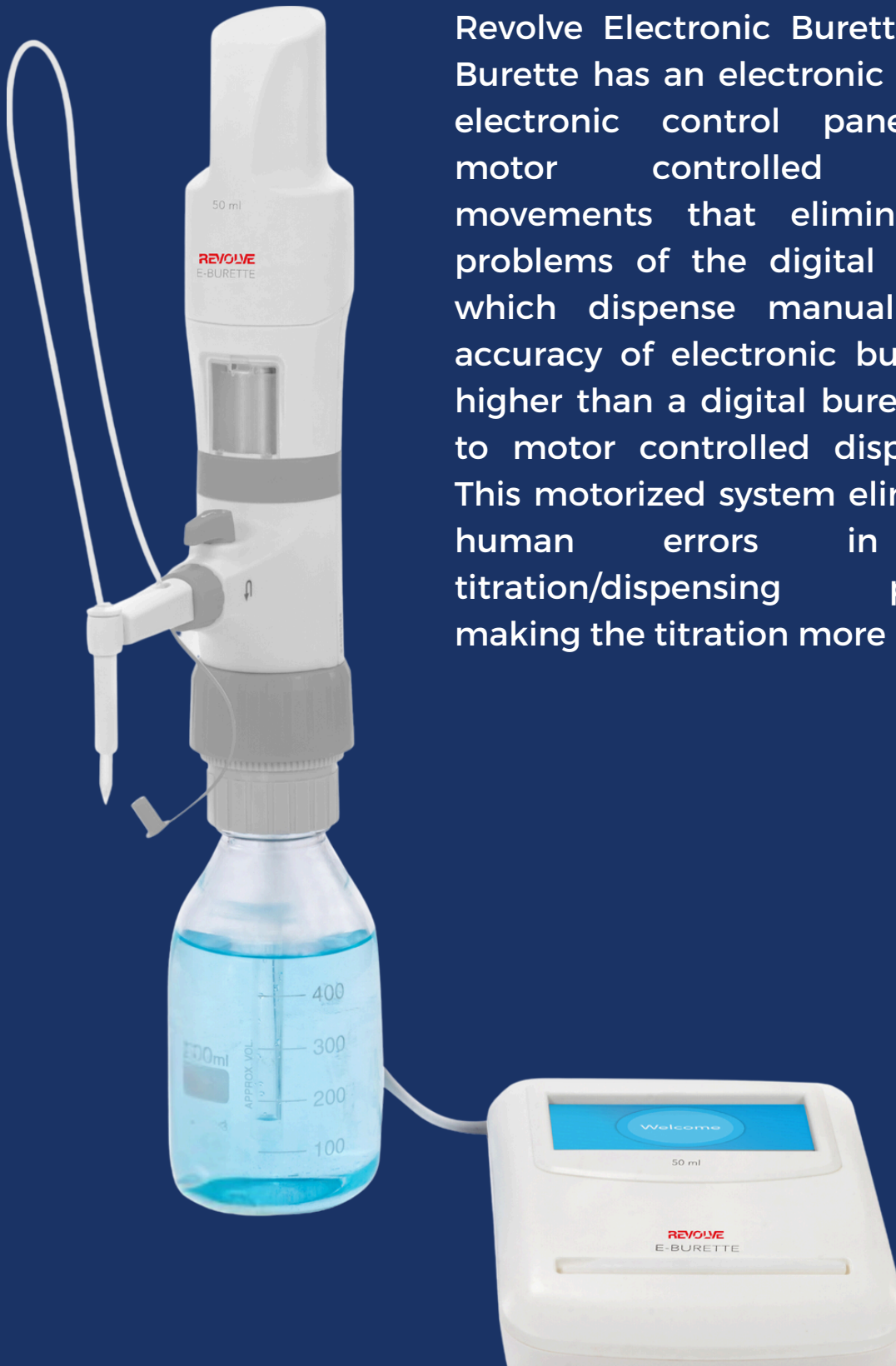
**Electronic Burette
with motor operated
piston, with
3 calibrated pre-set
speeds**

**Elevate Your Lab
Routine with
Precision.**



ELECTRONIC BURETTE

ELECTRONIC BURETTE



Revolve Electronic Burette or E-Burette has an electronic display, electronic control panel and motor controlled piston movements that eliminate all problems of the digital burette which dispense manually. The accuracy of electronic burette is higher than a digital burette due to motor controlled dispensing. This motorized system eliminates human errors in the titration/dispensing process, making the titration more precise.

ELECTRONIC BURETTE

TECHNICAL SPECIFICATIONS OF E - BURETTE

An Electronic Burette comes in different sizes and the most popular volume range is 50ml in capacity. The technical specification of this burette is listed below along with the permissible error limits as specified in the DIN EN ISO 8655-3.

CAPACITY (ml)	INCREMENT (ml)	ACCURACY (±%)	ACCURACY (±ml)	CV (±%)	CV (±ml)
10	0.005	0.10	0.01	0.1	0.01
25	0.01	0.07	0.0175	0.05	0.0125
50	0.01	0.05	0.025	0.05	0.025





High Chemical Compatibility

Revolve's E-Burette is compatible with most of the reagents commonly used in Laboratories. It is achieved because of:-

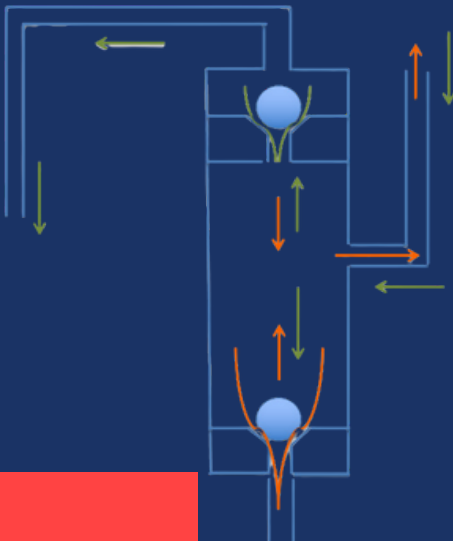


1. Piston made up of PTFE (Teflon)

2. O-ring made up of ETP 600S (Viton Extreme)

3. Presence of a spring-less valve (explained in the next slide)

Spring-less Valve



A unique valve technology, which operates under the principle of gravity. Absence of a spring (metal) provides the following benefits:-

1. Higher chemical compatibility
2. No dripping or leakage
3. Lesser maintenance

COMPONENTS OF ELECTRONIC BURETTE:

E-Burette is an electronic device that delivers accurate and convenient titration while reducing the risk of accidental chemical contact. It includes some advanced components that reduce manual operation with high work efficiency. Some major components of E-burette are:

- Recirculation Valve:** It prevents the loss of reagents during purging by re-directing them into the mounted bottle.
- Delivery Tube:** Delivery tube provides the facility to deliver the reagent beyond the reservoir.
- Inspection Window:** The transparent acrylic window can be replaced with an amber colored window for the use of chemicals. These chemicals such as iodine, potassium permanganate and silver nitrate solutions are sensitive and can react in light. To protect these chemicals from such reactions, an amber-colored window is used that can be easily changed.
- Delivery nozzle:** Delivery nozzle provides a high degree of flexibility in both the horizontal and vertical directions, facilitating easy dispensing according to different laboratory conditions.
- TFT Screen:** A user-friendly TFT touchscreen guides quick and accurate titrations and displays numeric data up to the second decimal. It is easily operated with Stylus.
- Telescopic tube:** The telescopic tube is used to draw up the liquid from the reagent bottle to e-burette. It can be adjusted in length according to a variety of bottle sizes.



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g. Adaptor: E-burette comes with different standard sizes of adaptor that comfortably fit most laboratory reagent bottles. The standard sizes of adapters are 28mm, 32mm, 38mm, 40mm and 45mm.

h. Stylus: It is a sleek hand-held instrument like pen used to operate the control panel with ease.

i. Control Panel: E-Burette comes with a powerful control panel that is used to perform functions like automatically re-fill without changing the reading, perform a zero reset (via. tare). switch the instrument off etc.

j. Middle Housing: It consists of a piston mechanism inside the burette.

Applications of a Burette

Burette is commonly used in the titration process for quantitative analysis in many industrial chemical testing where a solution of known concentration is used to find the concentration of an unknown solution. The process of titration is widely used in various industrial applications listed below:

- Pharmaceutical industry: Purity analysis, Content analysis, Precipitation titration, pH-stat titration
- Wine industry
- Automotive industry
- Food and Beverage industry
- Cosmetic industry





GET IN TOUCH

REVOLVE

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