



# Rotavapor® R-300

## Convenient and efficient rotary evaporation

The R-300 meets the highest expectations in convenience and versatility. Its modular design allows extension of the Rotavapor® R-300 to a fully integrated system where a central interface regulates each component.

### Convenient

Ergonomic handle, easy to use Combi-Clip and intuitive user interaction



### Reproducible

Precise operation control of all process parameters



### Extendable and versatile

Upgrade your individual Rotavapor® R-300 to a fully integrated system at any time





## Rotavapor® R-300

Key features and advantages



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Configure your individual Rotavapor® system:  
[www.buchi.com/Rotavapor](http://www.buchi.com/Rotavapor)

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### Ergonomic handle

Ergonomic handle to conveniently change the position of the lift. Electronic and manual version available.



### Direct rotation speed control

Immediate adjustment of rotation speed with intuitively positioned control knob in case of an urgent or unexpected event.



### Combi-Clip

The patented Combi-Clip with snap lock mechanism allows connection of the evaporating flask with one hand.



### Integrated display

The heating bath temperature, rotation speed and lift position are shown on the integrated heating bath display.



### Additional interface

Control and regulate all process parameters conveniently with the optional Interface I-300 or I-300 Pro.

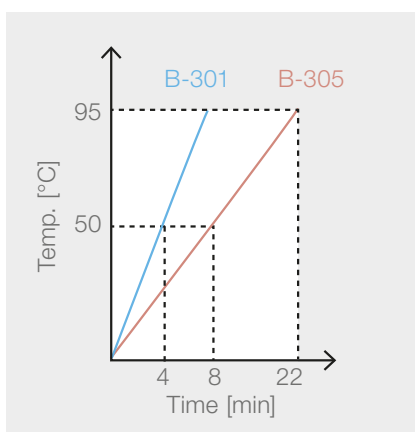


### Glass assemblies

Seven different glass assemblies enable a wide range of applications, solvents and sample properties.

## Heating bath options

Choose between two different heating baths. The B-301 for 1 L flask and 95 °C maximum temperature features a very short heat-up time. For flasks up to 5 L and 220 °C maximum temperature, the B-305 covers a broader range of applications.



B-301



B-305

4 min to 50 °C

8 min to 50 °C

$P_{\max}$  1'100 W

$P_{\max}$  1'300 W

1 L flask

5 L flask

$T_{\max}$  95 °C

$T_{\max}$  220 °C

## R-300: Your most important benefits



### Convenient

- Comfortable flask and vapor duct removal thanks to easy to use Combi-Clip
- User-friendly operation due to ergonomic electric or manual lift
- Immediate adjustment of heating temperature and rotation speed with intuitively positioned control knobs



### Extendable and versatile

- Easy plug & play extension to a fully integrated system including a central interface, vacuum pump and recirculating chiller according to your needs
- Choice between 5 L high-temperature and 1 L fast-heating bath
- Wide range of beneficial accessories available: seven different glass assemblies, safety shield, lid for heating bath, automatic distillation and automatic foam detection



### Reproducible

- Precise operation control with integrated digital display of heating temperature, rotation speed and lift position
- Traceability of all process parameters including data recording and charting with the optional Interface I-300 Pro
- Instant alert with push notification on mobile devices in case of process deviation (with Interface I-300 / I-300 Pro only)

## Complete your portfolio



Interface I-300 /  
I-300 Pro  
Convenient process  
regulation and  
monitoring



Vacuum Pump  
V-300  
The economical and  
silent vacuum source



Recirculating Chiller  
F-305 / F-308 / F-314  
The efficient and water  
saving way of cooling



Multivapor™  
P-6 / P-12  
Efficient evaporation  
for multiple samples







## Interface I-300

### Central control of all process parameters

The Interface I-300 is the central control unit for all process parameters of a Rotavapor® R-300 system. This includes rotation speed, temperature (heating, cooling, vapor) and pressure. Various distinct operating modes (e.g. automatic, dynamic, manual distillation, drying etc.) increase efficiency and convenience of rotary evaporation processes.

#### Convenient

Central control of all process parameters,  
live view and notifications on smart phones



#### Versatile

Flexible installation and  
convenient operation



#### Efficient

Unattended operation and  
synchronized processing





## Interface I-300

Key features and advantages



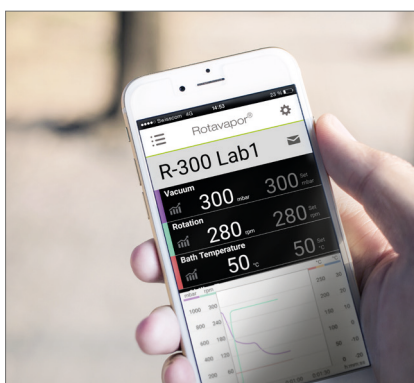
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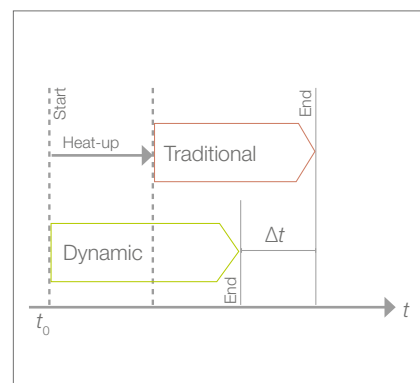
### Intuitive navigation

Convenient and user-friendly navigation knob, four function keys for quick access and overall stop.



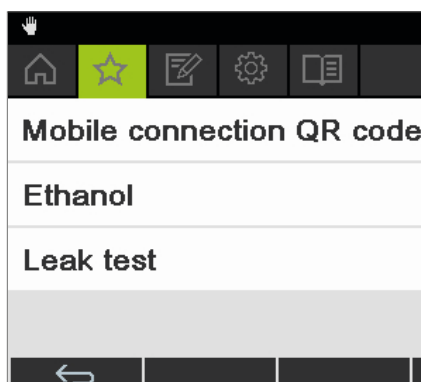
### Remote monitoring

The Rotavapor® R-300 App for iOS, Android and Windows offers push notifications and live view of all process parameters.



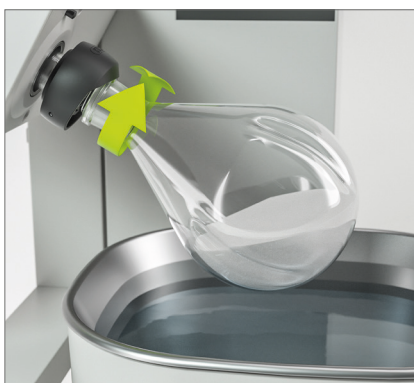
### Dynamic distillation

The distillation process starts directly after choosing the solvent from the library. While chiller and bath reach their set temperature, the vacuum is dynamically adjusted.



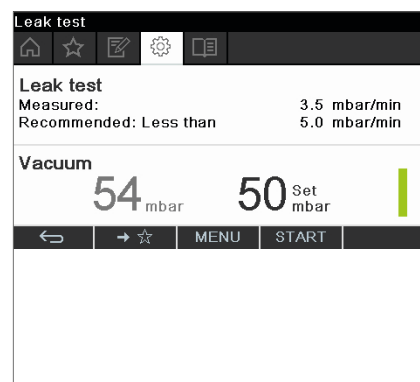
### Favorites

Preferred solvents, tightness test and other functions can be saved as favorites for quick access.



### Drying mode

The drying mode alternates rotation direction in user-defined intervals over a set time period to enhance drying solids.



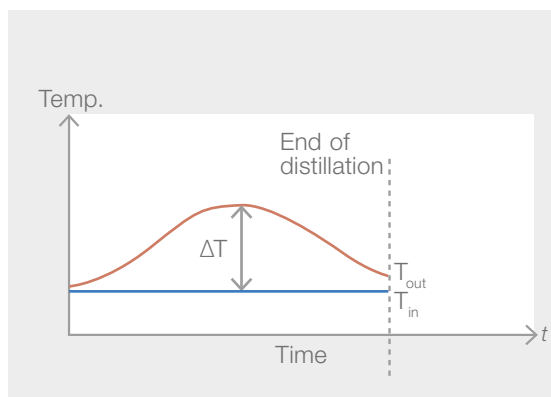
### Tightness test

An integrated test checks the tightness of the system and displays the result.

## Automatic distillation options

The AutoDest sensor automatically adjusts the vacuum according to the difference of the inlet and outlet temperature of the coolant. This algorithm enables unattended automatic distillation.

For samples with a tendency to foam, the foam sensor automatically aerates the system temporarily.



## I-300: Your most important benefits



### Convenient

- Easy plug & play integration into a Rotavapor® R-300 system at any time
- Central control of all process parameters such as rotation speed, temperature (heating, cooling, vapor) and pressure
- Remote monitoring on smart phones including push notifications and live view



### Versatile

- The flexibility of the interface allows easy installation and convenient operation from multiple positions:
  - Rotavapor® handle
  - Vacuum pump
  - Fume hood or lab bench wall
- Stand-alone operation to locally control a house vacuum system



### Efficient

- Perfectly synchronized processing thanks to centrally controlled rotary evaporator, heating bath, speed-controlled vacuum pump and recirculating chiller
- Unattended operation (optional):
  - Automatic distillation with AutoDest sensor
  - Foam sensor for foaming samples

## Complete your portfolio



**Rotavapor®  
R-300**  
Convenient and efficient  
rotary evaporation



**Vacuum Pump  
V-300**  
The economical and  
silent vacuum source



**Recirculating Chiller  
F-305 / F-308 / F-314**  
The efficient and water  
saving way of cooling



**Interface I-300 /  
I-300 Pro**  
Convenient process  
regulation and







## Interface I-300 Pro

### Central touch screen control, recording and charting

The Interface I-300 Pro offers a 7" touch screen to control and view all process parameters at a glance. Sophisticated operating modes, recording and charting capabilities increase efficiency and convenience of rotary evaporation processes.



#### Convenient

Central touch screen control of all process parameters, recording, charting, live view and notifications on mobile devices



#### Versatile

Flexible installation and convenient operation



#### Efficient

Unattended operation and synchronized processing





## Interface I-300 Pro

Key features and advantages



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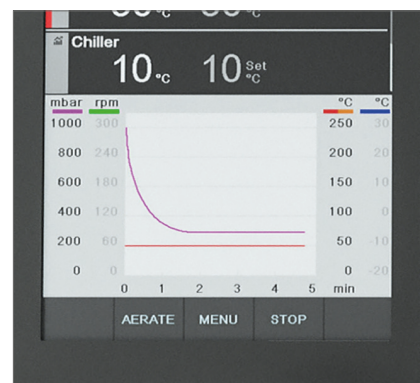
### Intuitive navigation

Convenient water-resistant touch panel, user-friendly navigation knob and instant stop button.



### Automatic distillation

With the AutoDest function and the foam sensor even foaming samples will be distilled automatically.



### Charting

All process parameters are graphically displayed to facilitate the supervision of the distillation.



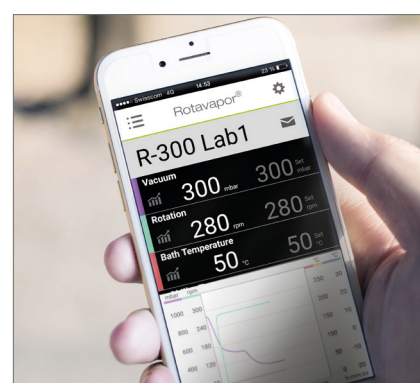
### Recording

For traceability purposes all process parameters are continuously recorded. The set of data can be exported on an SD card for further analysis.



### Remote control

Operate the interface from your most suitable place thanks to flexible installation on fume hood with an additional holder.



### Remote monitoring

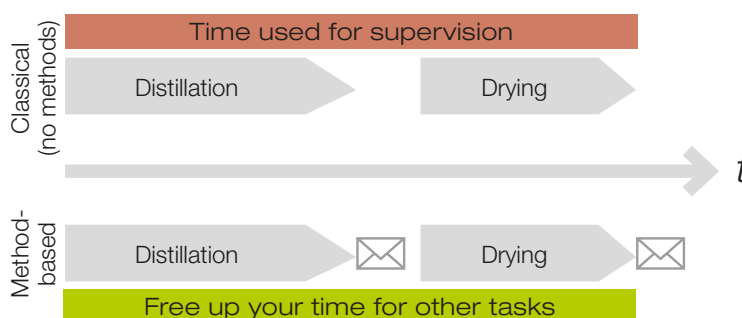
The Rotavapor® R-300 App for iOS, Android and Windows 8 offers live view and charting of all process parameters including push notifications.

## Method-based operation minimizes supervision

Until now a distillation process required regular supervision to guarantee smooth operation. The I-300 Pro now offers user-defined steps that automatically guide the operator through the process. Push notifications alert when manual interaction is required.

BUCHI's newest innovation, frees up your time by eliminating the need for on-site supervision.

Save time by using methods



## I-300 Pro: Your most important benefits



### Efficient

- Guided operation with programmable methods including push notifications on mobile devices when manual interaction is required
- Further modes enabling unattended operation:
  - Automatic distillation with AutoDest sensor
  - Foam sensor for foaming samples
- Perfectly synchronized processing thanks to centrally controlled rotary evaporator, heating bath, speed-controlled vacuum pump and recirculating chiller



### Convenient

- Easy plug & play integration to a Rotavapor® R-300 system at any time
- Central touch screen control and regulation of all process parameters at a glance such as rotation speed, heating/cooling/vapor temperature and pressure
- Remote monitoring on mobile devices including push notifications, live view and charting
- Traceability thanks to recording of all process parameters without additional software



### Versatile

- The flexibility of the interface allows installation and convenient operation from multiple positions:
  - Rotavapor® handle
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