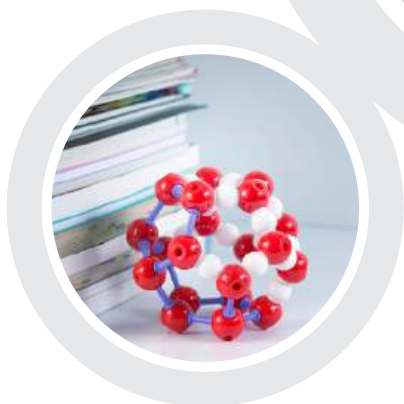
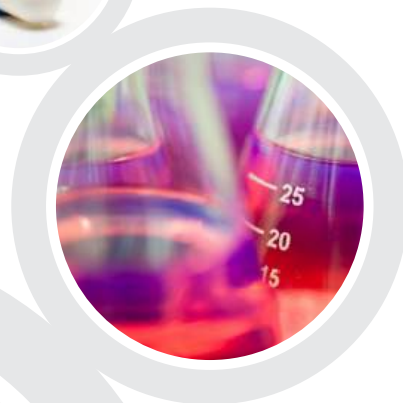




Industrial Evaporation Solutions

Reliable performance for large volumes

BUCHI offers dedicated solutions for industrial rotary evaporation whether you operate in R&D or production. Profit from highly performant, convenient and tailor-made solutions from the market leader to cover your distinct needs.



Core messages to our customers

BUCHI creates added value with “Quality in your hands”

“Quality in your hands” is the guiding principle that shapes our philosophy and our actions. It challenges us to provide outstanding services that are precisely tailored to your needs. This means that we must stay in close contact with our customers. That is why we keep in touch and continue to work very hard to understand you and your business even better.

We help you by providing high-quality products, systems, solutions, applications and services that offer you added value. This allows you to focus entirely on your processes and your work.



Easy

You handle complex processes, do challenging work and want to focus on what is essential. We support you by providing carefully designed solutions as well as instruments and systems that are easy to operate.



Competent

You need products, systems, solutions, applications and services that are precisely tailored to your needs. We have the technological expertise and decades of experience needed to provide competent support and work with you to continually improve our market services.



Reliable

You want to be able to rely completely on your partner for products, systems, solutions, applications and services. We guarantee the quality and functionality of our equipment and will continue to help you quickly and efficiently whenever something does not operate to your satisfaction.



Cost-effective

You want to achieve the best possible results using efficient solutions. We help you to handle your jobs and processes economically. We strive to create a high level of economic benefit and maximum added value for you.



Safe

You are working in an environment in which safety is a high priority. By collaborating closely with you, we do everything in our power to make our products, systems, solutions, applications and services as safe as possible for people and the environment.



Global

You value personalized service and short communication channels. As an international family-owned business with our own subsidiaries and qualified distributors, we have a presence wherever our customers are located. Our local staff and the large number of satisfied customers around the world give you the assurance that you are working with the right partner.



Sustainable

You prefer a partner who acts responsibly when it comes to current environmental challenges. We support environmentally friendly processes and manufacture products that have a long service life. We utilize advanced technologies in order to conserve energy and water and leave the smallest environmental footprint possible.



Solutions for large scale evaporation

Benefits from decades of expert knowledge

In 1957 BUCHI introduced the first commercial rotary evaporator. With our technological expertise and profound customer interaction, we have continuously developed the Rotavapor® to an ever smarter and fully integrated system. Our carefully conceived solutions meet the needs of a wide range of industries, whether you operate in R&D or production.

Pharmaceutical



The pharmaceutical industry has a need for an evaporation solution that covers a wide range of applications. The rotary evaporator is the best choice for gentle evaporation.

- Concentration
- Drying
- Re-crystallization
- Synthesis
- Solvent purification

Chemical



In the chemical industry a wide range of applications can be performed with an industrial Rotavapor®.

- Concentration
- Drying
- Solvent Recycling
- Solvent purification

Academia



Solvent reuse plays an important role in Academia. The Rotavapor® is the best choice for this and many other applications.

- Concentration
- Solvent recycling
- Distillation
- Solvent purification

From concentration or solvent recycling to drying or continuous evaporation of large volumes, our solutions cover the widest variety of specific demands. They consist of a set of fitting products combined to a complete system with comprehensive services to meet your distinct needs.

	Sample volume < 10 liter	Continuous industrial evaporation	Production scale evaporation	Evaporation in Ex proof environment
Concentration				
Solvent recycling				
Distillation				
Drying				
Re-crystallization				
Characteristics				
EX protection				
Sample volume	Low : up to 10 L	High: unlimited	Medium: up to 30 L	Medium: up to 30 L
Degree of automation	Medium	High	Low	Low
Expandability	High	Low	Medium	Low
Solutions by BUCHI	«Industrial Evaporation Scale up» p. 6	«Industrial Evaporation Continuous» p. 8	«Industrial Evaporation Production» p. 10	«Industrial Evaporation Ex zone» p. 12

Find detailed information at:

www.buchi.com/industrial-evaporation/solutions





Solution «Industrial Evaporation Scale up»

Easy and flexible evaporation

You look for a versatile and convenient configuration for a wide range of application and sample volumes of up to 10 liters. The «Industrial Evaporation Scale up» solution matches various distillation needs and combines quality, comfort and safety.

Integrated Interface I-300 Pro

Option:
Flask handler



Rotavapor® R-220 Pro
with P+G coated glassware



Recirculating Chiller
F-325



Option: Foam sensor



Vacuum Pump
V-600

Your most important benefits

Easy and safe

- Maximum usability
 - Unattended automatic distillation functionality (AutoDest) and foam detection
 - Programmable standard operating procedures (SOPs)
 - Remote monitoring and push notifications on mobile devices
- Convenient flask handling with patented BUCHI flask coupling and unique flask handler
- Maximum safety guaranteed by plastic coated glassware (P+G) and additional protection shields and grids

Tailored to your needs

- Seven different glass assemblies available for dedicated applications, samples and solvents
- Various extension options or customisations for individual requirements

Made to last

- Enhanced lifetime due to exclusive use of corrosion-free stainless-steel
- Seamless 24/7 operation thanks to robust industrial design

Your solution «Industrial Evaporation Scale up»



- Rotavapor® R-220 Pro with P+G coated glass
- Recirculating Chiller F-325
- Vacuum Pump V-600
- Central Interface I-300 Pro
- Unique flask coupling
- Options: Different glass configurations, various sensors for more automation, flask handler, safety shields



- Dedicated application support
- Workshop trainings
- Service hotline
- Preventive maintenance
- FDA compliant components
- Service and documentation (IQ/OQ)

Download at App Store

www.buchi.com/rotavaporapp





Solution «Industrial Evaporation Continuous»

Concentration of large sample volumes

You want to distill large volumes with a minimized effort. The «Industrial Evaporation Continuous» solution is the most efficient way to perform unattended distillations of unlimited amounts of solvents.

Option:
Flask handler



Integrated
Interface I-300 Pro



Rotavapor® R-220 Pro
Continuous



Recirculation Chiller
F-325 with Vacuum
Pump V-600

Your most important benefits

Unattended and safe

- Continuous and unattended distillation of large amounts of solvents
- Safe operation through process control by various sensors
- Remote monitoring on mobile phone with push notifications
- Maximum safety guaranteed by safety coated glassware (P+G)

Efficient

- Time-saving thanks to minimum manual interaction during distillation
- Space-saving solution for large volumes
- Money-saving compared to multiple stand-alone distillation systems

Easy to use

- Easy to use with touchscreen display of all process parameters
- Centrally controlled vacuum pump and recirculating chiller by integrated Interface I-300 Pro
- Easy flask handling with patented BUCHI flask coupling and unique flask handler

Your solution «Industrial Evaporation Continuous»



- Rotavapor® R-220 Pro Continuous
- Recirculation Chiller F-325
- Vacuum Pump V-600
- Integrated Interface I-300 Pro
- Option: flask handler



- Dedicated application support
- Workshop trainings
- Service hotline
- Preventive maintenance
- FDA compliant components
- Service and documentation (IQ/OQ)

“With 20 liter evaporator from BUCHI, it is very easy to purify slightly contaminated solvents. This reduces the costs for solvents considerably.”

Customer statement, Germany



Solution «Industrial Evaporation Production»

Large volumes and high throughput

You perform distillations and concentrations of large batches in a fast yet careful way. The «Industrial Evaporation Production» solution allows you to evaporate sample volumes of up to 30 liter at once in a comfortable way while achieving high performance.



Vacuum Controller V-850



Vacuum Pump V-600



Rotavapor® R-250



Unique flask coupling



Option: Flask handler

Your most important benefits

Highest performance

- Large batches of up to 30 liter in a 50 liter evaporating flask
- Fast distillation due to the powerful heating bath (6.6 kW)

Convenient

- Easy and safe handling of large flasks with patented BUCHI flask coupling and unique flask handler
- Unattended operation in combination with Vacuum Controller
- Automatic foam detection with optional foam sensor

Made to last

- Enhanced lifetime due to exclusive use of corrosion-free stainless-steel
- Maximum safety guaranteed by safety coated glassware (P+G)
- No risk of product contamination thanks to highly chemical resistant materials
- Seamless 24/7 operation thanks to robust industrial design

Your solution «Industrial Evaporation Production»



- Rotavapor® R-250
- Vacuum Pump V-600 with Vacuum Controller
- Options: Different glass configurations for different needs, accessories for more automation, flask handler and 20 liter evaporating flask



- Distillation Record Software
- Qualification IQ/OQ
- FDA compliant components
- Customization
- Workshops trainings
- Minimize downtime thanks to our service hotline
- Preventive maintenance

“BUCHI industrial rotary evaporators enable environmentally responsible and safe removal of toluene used in adhesives manufacturing”

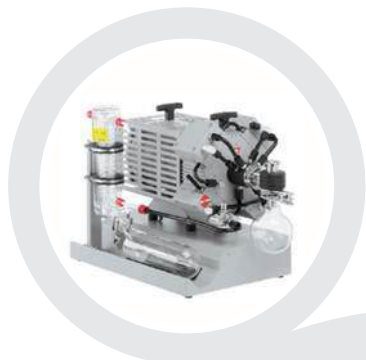
Customer statement, USA



Solution «Industrial Evaporation Ex Zone»

Explosion protection at highest level

You have to operate your Rotavapor® in an explosion protected environment. The «Industrial Evaporation Ex Zone» solution offers both, the 20 liter and 50 liter Rotavapor® in explosion-proof version with ATEX approval which guarantee a safe operation.



Ex proof
Vacuum Pump



Integrated Ex proof
Vacuum Controller



Rotavapor® R-250 EX



Rotavapor®
R-220 EX



Option: Flask handler

Your most important benefits

Safe and compliant

- ATEX approved (Ex) for highest safety level
- Fulfills highest standards by the usage of FDA compliant and highly chemical resistant materials
- Safe and easy handling of the 50 liter flask due to unique flask coupling

Highest performance

- Large batches in a 50 liter evaporating flask
- Fast distillation due to the powerful heating bath (6.6 kW)
- Highest efficiency thanks to powerful chemical resistant explosion proof Vacuum Pump

Made to last

- Enhanced lifetime due to exclusive use of corrosion-free stainless-steel
- No risk of product contamination thanks to highly chemical resistant materials
- Seamless 24/7 operation thanks to robust industrial design

Your solution «Industrial Evaporation Ex Zone»



- Rotavapor® R-250 EX (50 liter; also available as continuous version) or R-220 EX (20 liter version)
- Ex proof vacuum pump
- Ex proof vacuum controller
- Options: Different glass configurations for different needs and continuous version for large quantities



- Customized application support
- Workshops trainings
- Minimize downtime thanks to our service hotline
- Preventive maintenance
- FDA compliant components
- Qualification IQ/OQ

“A Rotary evaporator is a basic requirement of any chemistry laboratory. The name BUCHI is synonymous with this application mainly because of their quality product and ruggedness of these equipments. Various models are available for special applications/requirements. These are very useful not only in laboratory but also in production activity particularly on pilot scale/kilo lab scale.”

Dr. K.S.Bhide, Director R&D, AstraZeneca Pharma India Ltd., India

The best solution for your need

Comparison by customer needs, application and characteristics



Rotavapor® 20 Liter

Needs/Solutions	Page	R-220 Pro Essential	R-220 Pro	R-220 Pro HP
«Industrial Evaporation Scale up»	6	●	●	●
«Industrial Evaporation Continuous»	8			
«Industrial Evaporation Production»	10			
«Industrial Evaporation Ex Zone»	12			

Characteristics

I-300 Pro features (remote control/monitoring, programmable methods, automatic distillation, data recording and more)		●	●
EX Protection			
Distillation rate of ethanol [L/h]	13.5	16.0	18.0
Temperature range [°C]	20 - 180	20 - 180	20 - 180
Display type	Segment	Graphical	Graphical

Flexibility

Evaporating flask size [L]	20	6, 10, 20	20
Available glass configurations	1	7	1
System expandability with options	High	High	Moderate

Configuration options

Pump	V-600	V-600	V-600
Vacuum controller	Optional	I-300	I-300
Recirculation chiller	F-325	F-325	
Available voltage [V]	200 / 230 / 400		400



Rotavapor® 20 Liter

R-220 Cont

R-220 EX



R-250

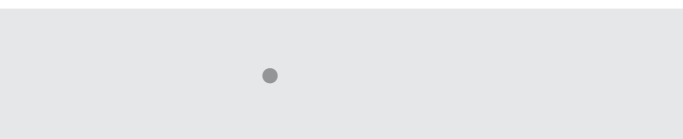
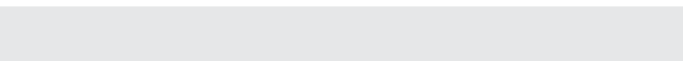
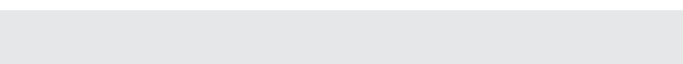


R-250 Cont EX



R-250 EX

Rotavapor® 50 Liter



16.0

13.5

20 - 180

20 - 150

Graphical

Segment

20

6, 10, 20

1

7

High

Moderate

V-600

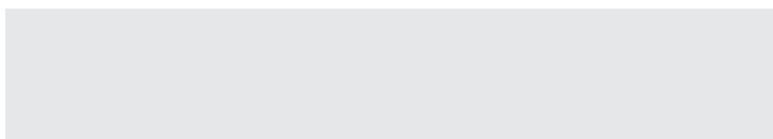
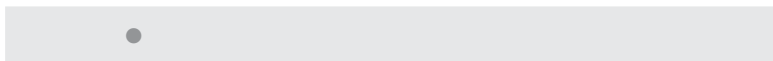
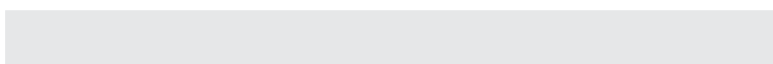
MD4C EX

I-300

Built-in

F-325

200 / 230 / 400



19.5

19.5

19.5

20 - 180

20 - 150

20 - 150

Segment

Segment

Segment

20, 50

50

20, 50

4

4

4

Moderate

Moderate

Moderate

V-600

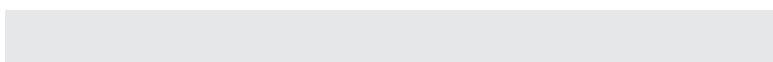
MD4C EX

MD4C EX

Optional

Built-in

Built-in



400

400

400

The best solution for your needs

Expert advice to select the ideal configuration

The following guide helps you to configure your Industrial Rotavapor® according to your specific needs. First, the guide leads you through the condenser configuration, and then assists you in compiling the full setup. Note down the condenser part codes (in brackets) and insert them in the order number configurator on page 18.

Application challenges: Reflux applications

You run syntheses, extractions or recrystallizations typically under reflux.



We recommend the Reflux dedicated glass assembly available in two versions:

- Standard reflux (R)
- Cold trap (C)

Sample challenges: Bumping or foaming samples

Some of your samples (e.g. extracts of natural products, water or alcohol mixtures) tend to bump or foam when vacuum is applied.



We recommend the descending glass assembly to extend the void between sample and condenser coil:

- standard descending (D)
- with additional condenser for highly volatile solvents (D2 or D3)

Solvent challenges: Boiling points and volatility

You use high boiling solvents that tend to condense in the expansion vessel already and flow back into the evaporation flask.

Vapor exhaust of highly volatile solvents must be minimized to avoid contamination of the lab atmosphere and environment.



We recommend the following setup for the different solvent types:

- High boiling solvents: Reflux assemblies (except for bumping or foaming samples)
- Low boiling solvents: Descending assemblies, and an additional condenser for highly volatile solvents

Size challenges: Height limitations

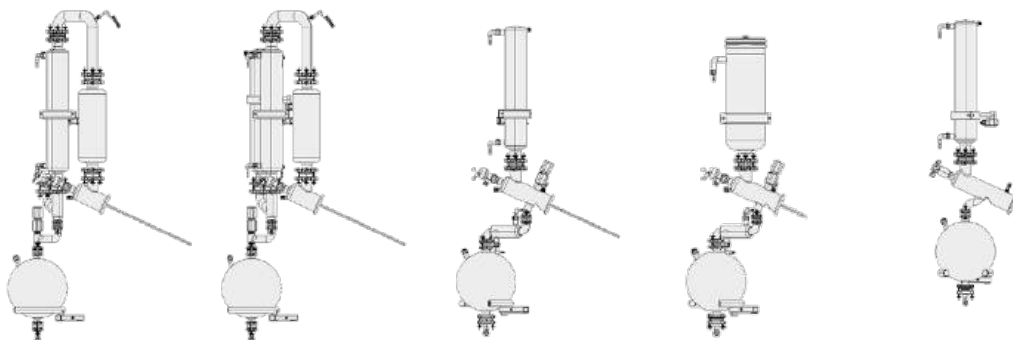
Your fume hood or cabinet is limited in height. An Industrial Evapoartor R-220 Pro with standard assembly on a trolley (0.5 m) reaches 2.3 m.



We can customize the configuration and reduce the height yet guarantee the same efficiency. Reduced height is available for reflux (RB) or descending versions (DB) (see table).

Available glass configurations

Condenser assemblies



Glass type	Descending (D)		Reflux		Essential (V)
		W/ additional condenser	Cooling coil (R)	Cold trap (C)	
Application	Standard distillation, drying		Extractions, reactions under reflux, recrystallization, distillation		Basic distillation
Sample	Bumping and foaming samples drying		Non-critical samples		Non-critical samples
Solvent	Low boiling solvents		High boiling solvents		
		Very volatile solvents		Very volatile solvents	
Height	Available also in reduced height (RB, DB...)				

Available with

[illegible]

Receiving flasks: Distillation of different solvent types

You want to distill difficult mixtures of solvent of different boiling points?

Once, the low boiling component is distilled, the pressure is lowered to evaporate the rest which results in re-evaporation of the previously condensed fraction.



 We recommend you to use two receiving flasks; the first fraction can be drained while the distillation process will continue in the second receiving flask



Your configuration guide

Select the right type of Rotavapor®

Rotavapor® R-220 Pro



Rotavapor R-220 Pro Standard

- 1 230 V, 3.6 kW, oil and water
- 2 200 V, 3.6 kW, oil and water
- 6 400 V, 3.6 kW, oil and water
- 9 400 V, 4.2 kW, water bath



Rotavapor R-220 Pro Essential

- 1 230 V, 3.6 kW, oil and water
- 2 200 V, 3.6 kW, oil and water
- 6 400 V, 3.6 kW, oil and water



Rotavapor R-220 Pro Continuous

- 1 230 V, 3.6 kW, oil and water
- 2 200 V, 3.6 kW, oil and water
- 6 400 V, 3.6 kW, oil and water
- 9 400 V, 4.2 kW, water bath



Rotavapor R-220 Pro High Performance (6.6 kW)

Rotavapor® R-220 EX



- 1 230 V, 3.6 kW, oil and water
- 2 200 V, 3.6 kW, oil and water
- 6 400 V, 3.6 kW, oil and water
- 2 T3 (up to 150 °C)
- 3 T4 (up to 135 °C)

Rotavapor® R-250



400 V, 6.6 kW, oil and water

Rotavapor® R-250 EX



400 V, 6.6 kW, oil and water

- 1 T3 (up to 150°C)
- 2 T4 (up to 135°C)

Your configuration guide

Select the right glass assembly

 Evaporating flask

Rotavapor R-220 Pro or R-220 EX

- B 10 L evaporating flask
- C 20 L evaporating flask
- X No flask 6L flask or drying flasks (10 L or 20 L)
has to be ordered separately

Rotavapor R-250 or R-250 EX

- C 20 L evaporating flask
- D 50 L evaporating flask
- F 20 L drying flask
- G 50 L drying flask

 Condenser assembly

Rotavapor R-220 Pro or R-220 EX

- 21 R, reflux
- 22 RB, reflux reduced height
- 23 C, cold trap
- 24 D, descending
- 25 DB, descending reduced height
- 26 D2, descending w/ sec. cond.
- 27 DB2, descending reduced heightw/ sec.
condenser

Rotavapor R-250 or R-250 EX

- 51 R2, double reflux
- 52 RB2, double reflux reduced height
- 54 D2, double descending
- 55 D3, double descending w/ secondary condenser

 Receiver assembly

- 1 One receiving flask
- 2 Two receiving flasks

Example:

Needed: Industrial evaporator for scale-up purposes (sample volume: 10 L). Foaming and highly volatile samples are an issue. Drainage of condensate without interruption is a must.

Solution:

1. Type of Rotavapor®: R-220 Pro Standard in 230 V (scale-up purposes)



2. Evaporating flask: 20 L flask (max. flask size)



3. Glass assembly: descending with secondary condenser (foaming and volatile samples)



4. Receiver assembly: two receiving flasks (drainage w/o interruption)



Benefit from the market leader

Reduce your time in front of the Rotavapor®

Push notifications – Supervise your process remotely

The Rotavapor® App for iOS, Android and Windows offers live views of all process parameters. It shows settings, current readings and even progression graphs of temperatures (heating, cooling, vapor), pressure and rotation. Push notifications on the smartphone directly alert if manual interaction should be required or in an unexpected event



Methods – Program your SOPs

Until recently, the distillation process required regular supervision to guarantee smooth and safe operation. The R-220 Pro now offers programmable methods that automatically guide the operator through standard operating procedures (SOPs). Push notifications alert the user if required.

Example for a typical method:

Distillation
gradient, AutoDest or fixed pressure

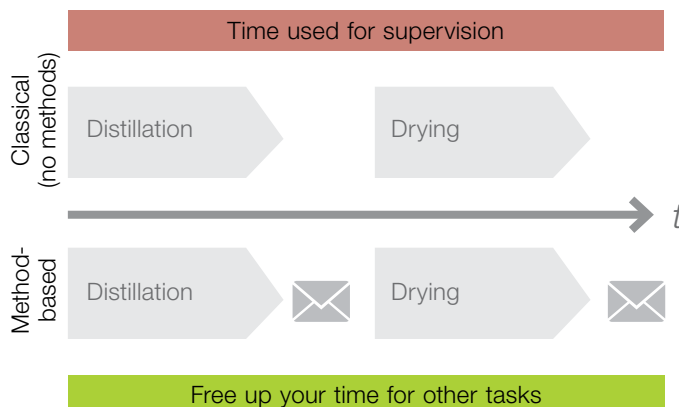


Draining
alert user when distillation needs to be drained



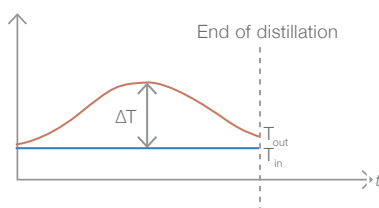
Aeration
alert user when process is finished

Save time by using methods



AutoDest – Distill automatically without supervision

The AutoDest sensor combined with the Interface I-300 Pro enables unattended automatic distillation by automatic vacuum adjustment according to the required cooling capacity of the condenser. Solvent emissions into the laboratory atmosphere are thus minimal as condenser overload is avoided.



Sensors and valves – Define your degree of automation

Different automation levels are possible depending on the accessories chosen:

- Foam sensor: automatic detection of foam formation
- Temperature sensors: detection of vapor and/or coolant temperatures for process monitoring purposes
- Flow sensor: automatic coolant flow control (interrupts when capacity is insufficient)
- Level sensors: condensate level detection for safety reasons, for defined concentration levels, or to prevent the sample from drying
- Suction device: to remove sample from evaporating flask without detaching the flask
- Valves: feed, shut-off, drain and aeration valves allow distillate drainage without interrupting the distillation process.



Remote control – Operate from outside the fume hood

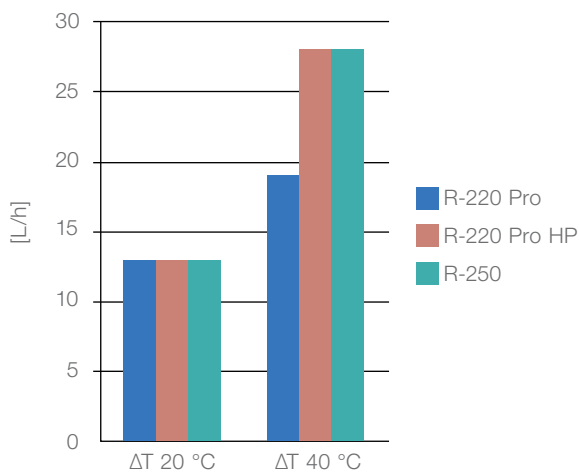
The Rotavapor® R-220 Pro includes the detachable Interface I-300 Pro, a user-friendly and convenient combination of a capacitive 8.7" touchscreen and additional navigation elements. The interface gives a comprehensive overview of settings, current readings and progression graphs of relevant process parameters at any time. The optional 15 m communication cable allows for remote control outside a fume hood or clean room.



How can I optimize the distillation rate?

Various factors influence the distillation rate of a Rotavapor®. The following tips help you to improve the efficiency of your distillation process, to conserve energy and to reduce the environmental impact.

The following charts show the distillation rate of acetone as a function of temperature, rotation speed and flask size, respectively.



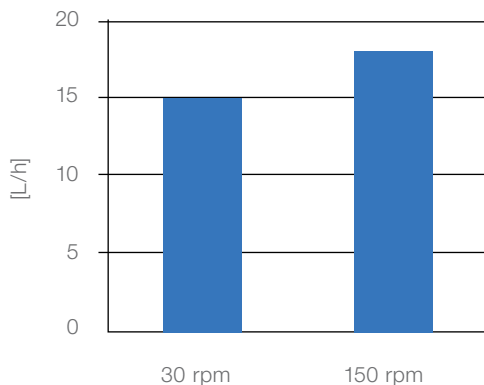
Distillation of 10 L acetone at max. rotation speed

Heating bath temperature:

A high heating performance (i.e. > 3.6 kW) only affects the distillation rate at high heating bath temperatures. For a difference of 20 °C or less between the vapor and bath temperature, distillation rates of a R-220 Pro, R-220 Pro High Performance or R-250 are identical.



To make use of the high heating power of a R-220 Pro High Performance or a R-250, set the bath temperature as high as possible



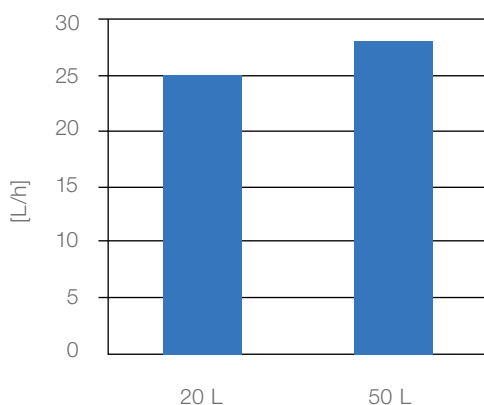
Distillation of 10 L acetone at different rotation speeds with the R-220 Pro.

Rotation speed:

High rotation speed produces maximum turbulence inside the flask resulting in higher evaporation rates. However, for highly viscous samples, some foaming products, or spillage of heating media (e.g. when a drying flask is used), high rotation speed is not applicable.



Recommendation: The higher the rotation speed, the faster the distillation.



Distillation of 10 L acetone on a R-250 using two different flask sizes.

Flask size:

The larger the surface of the sample inside the flask, the higher the evaporation performance. On the other hand, large flasks are more difficult to handle and the sample is distributed over a larger area when evaporating to dryness.



Recommendation: The sample volume ideally fills 1/3 to 1/2 of the flask size.

How is operator safety guaranteed and the environmental impact minimized?

BUCHI's Industrial Rotavapor® features various safety measures:

- P+G coating: All glass parts of R-220 Pro / R-250 are coated with transparent and highly robust plastic (except evaporating flask)
- Protection shields/grids: Optional accessories to protect glass assemblies from potential damages by external influences
- Additional condensers: Volatile solvents are trapped using glass assemblies with additional condensers (see glass assemblies)
- Safety cut-off: Overtemperature switch to protect operator and sample
- System failure: Automatic system shut down into safe mode in case of major failure



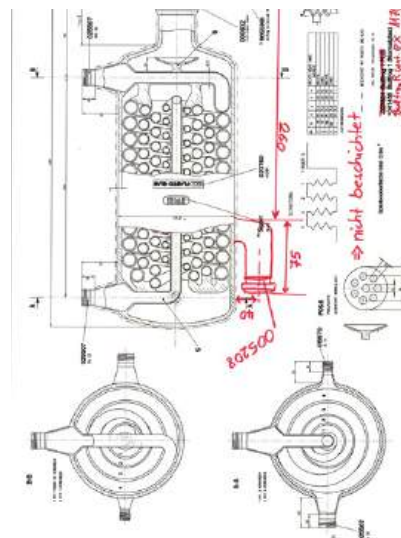
What kind of customization is available?

Despite the wide range of glass assemblies and accessories, customer-specific needs often require customization of standard items such as:

- Additional sensor port on the condenser
- Overall height reduction to fit Rotavapor® into a small fume hood
- Additional coil for active cooling of the heating bath
- Electroconductive glass coating for Ex zones

BUCHI's vast experience and profound knowledge make us the ideal and competent partner in advising customers.

We develop and produce our instruments ourselves, which allows us to modify certain instruments or even manufacture a special part according to specific customer's need.



When is an Ex proof Rotavapor® recommended?

Some laboratories and production facilities are defined as "explosion proof areas". In such areas it is mandatory to operate only Ex proof instruments. The BUCHI Rotavapor® R-220 EX and R-250 EX are approved instruments for EX zone operation.

The Rotavapor® R-220 EX and the R-250 EX comply according to international standards (IEC and CENELEC) as well as the EC directive 94/9 (ATEX 95). Both instruments are designed for Zone 1, group IIC and available in Temperature class T3 and T4



Vacuum Pump



The Vacuum Pump V-600 is an integral component of the Industrial evaporation solution. Its quiet operation is conveniently controlled directly from the Rotavapor's interface.

ATEX Vacuum Pump



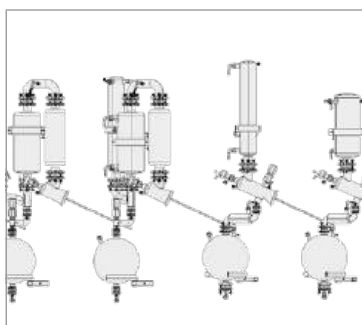
The Ex proved vacuum pump MD4C EX is designed to operate in areas where an explosive mixture is likely to occur. It is complementary to our "Ex zone" solutions.

Recirculation Chiller



The Recirculation Chiller F-325 can be directly controlled from the Interface of the R-220 Pro. Located below the Rotavapor®, it offers a very space-saving design.

Glass assemblies



BUCHI offers the widest range of glass assemblies for various application needs. Find the full range on p. 17.

Bath Shield



A dedicated heating bath protection shield in combination with a protection grid ensures maximum safety whilst operation.

Condenser Shield



Robust and transparent PMMA plastic shield to protect Rotavapor® R-220 Pro glass assemblies from potential damages caused by external influences.

Foam Detector



Foam generation is automatically detected and subsequently suppressed by a short aeration pulse. The foam detector is compatible with descending glass assemblies.

Sensors



Various sensors monitor crucial process parameters automatically such as: temperature, coolant flow, distillate level. Only for Rotavapor® R-220 Pro.

Flask Handler



This plastic coated stainless steel tool is designed for the convenient and safe handling of even 50 L flask.

Trolley



The trolley offers easy transportation and a space-saving location for the Vacuum Pump V-600, with four safety retainers each at one corner.

NIR-Online



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