



Rotavapor® R-220 Pro

Pre-installation checklist

The following checklist will assist you in site preparation for your BUCHI instrument. Careful attention to the requirements presented in this document will help simplify instrument installation and ensure that the instrument operates as it was designed.



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All appropriate items in this checklist must be completed, signed and returned to BUCHI. Re-turn your checklist as soon as your laboratory is ready and functional for prompt installation of your Rotavapor® R-220 Pro. If you are performing self-installation, please check the box for self-installation below and return the form to BUCHI.

Environmental requirements

An air exchange rate $\geq 135\text{m}^3/\text{hour}$ should suffice for most applications. However, it is the user's responsibility to confirm the suitability of their application with their facilities' on-site safety regulations.

Ambient temperature of 5°C to 35°C

Relative humidity $\leq 70\%$

Space requirements

For a free-standing Rotavapor® R-220 Pro (including Essential, High Performance & Continuous): 1200 x 710 x 1700-1800 mm (depending on chosen glassware assembly).

For a Rotavapor® R-220 Pro mounted on an F-325 Recirculating Chiller: 1200 x 710 x 2300-2400 mm (depending on chosen glassware assembly).

Allow at least 40 cm of space between the recirculating chiller and the wall and 40 cm in front of the chiller for sufficient airflow and proper cooling of the chiller.

Allow additional space around the instrument for a comfortable working environment, preparing samples, removing glassware, etc. Take into account any additional obstacles in the area such as gas taps, water taps, drains, sloping ceilings in enclosures, etc...

Location of the unit

The unit must be installed on a clean, stable, and level surface.

If an F-325 recirculating chiller is not being used the system should also be within 1.5m of the cooling water supply. Cooling water needs to operate with unobstructed flow with no more than 2 bar of pressure. The cooling water tap needs to have a connection suitable for pushing on and securing a 10mm ID / 15mm OD hose. If a recirculating chiller is being used, then the tap can still be connected to replenish the water in the bath (optional).



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Power requirements

Note that a Rotavapor® R-220 Pro is supplied requiring either a single phase 200 or 230 V connection or a 3-phase 400 V connection. See below requirements for the two versions but in either case the instrument is provided with bare wires for a suitable plug to be connected.

Rotavapor® R-220 Pro: Single-phase, 200 or 220 - 240V, 5000 W

- A qualified electrician will be required to provide the appropriate plug and outlet for 230V, 16A supply to comply with local electrical safety directives.

Rotavapor® R-220 Pro: Three-phase, 400 V, 5000/5500/7500 W (3Ph, N, G)

- A qualified electrician will be required to provide the appropriate plug and outlet for the 400 V 3-phase supply to comply with local electrical safety directives.

V-600 Vacuum Pump: 100 – 240 VAC, 50/60 Hz 360W

- When used in conjunction with an Rotavapor® R-220 Pro, the V-600 can be powered by the R-220 Pro and no additional electrical supply is required.

F -325 Recirculating Chiller: 230 VAC \pm 10 % 50/60 Hz, max. 2850 W

- Requires plug and outlet for 230V, 16A supply to comply with electrical safety directive.

The mains circuit must:

Provide the voltage that is given on the type plate of the instrument.

Be able to handle the load of the connected instruments.

Be equipped with adequate fusing and electrical safety measures, in particular proper grounding

Mobile / stationary installation

In mobile mode, the instrument is connected to mains via a power plug. The plug must be freely accessible at any time to be unplugged in case of emergency.

In stationary mode (without power plug), an emergency power-off device must be installed within close proximity of the Rotavapor® R-220 Pro with free access granted.

Notes about the electrical connections

The Rotavapor® is meant to be installed stationary and is not equipped with a power plug. The electrical installation must be performed by an electrician or equivalent specialist in any case. After the installation procedure, an electrical safety test must be performed to verify a safe system condition such as sufficient grounding



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Other requirements

30:70 mixture of Glycol:Water (which does not freeze until at least -16°C) for the F-325 Recirculating Chiller cooling solution. Approx. 12L will fill the recirculating chiller and provide spare for future use.

Dry ice/ EtOH (If a cold trap condenser is being used)

Detailed Technical requirements

I have reviewed the detailed Technical Data on www.buchi.com/media-center.
My facility fulfills the required specifications.



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Facility sign-off

Return your checklist as soon as your facility is ready and functional for prompt installation of your Rotavapor® R-220 Pro.

Environmental Requirements as specified for your facility

Space Requirements

Power Requirements

Other Requirements

Self-Installation

Please enter the following information and sign below:

Company name

Customer name

Contact number

Purchase order no.

I certify that the preparations required for the installation of the Rotavapor® R-220 Pro have been completed and functional as described in the Rotavapor® R-220 Pro document.

I further acknowledge that if any of these requirements are not ready by the agreed upon installation date and I have not rescheduled the installation, then I will be responsible for any additional costs relating to the installation of the system.

Customer signature

Date

Please sign and return by fax or email to BUCHI as soon as your laboratory is ready for installation:

Attention:

Find your BUCHI Affiliate or partner on: <https://www.buchi.com/en/worldwide>

If you have any questions or queries, then please do not hesitate to contact us.



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Quality in your hands

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