








ROTARY EVAPORATION/ DISTILLATION

Rotary evaporation is a gentle and efficient method for liquid separation and purification. In this process, fluids are heated to the point of evaporation. The vapor is then captured as a condensate. The system comprises two components: a rotary evaporator and a vacuum system.

The most important considerations when choosing a rotary evaporator

All KNF pumps are chemical-resistant, offer a high vapor compatibility and feature a gas ballast. There are three key parameters to consider when selecting an appropriate vacuum system. Firstly, the performance of the vacuum system is dependent on the volume of the evaporating flask used. The larger the volume, the higher the flow rate required. Beyond this, it is necessary to consider the ultimate vacuum required for the evaporation process, as well as whether or not a remote control is required.

	Evaporating flask volume < 3 liters		Evaporating flask volume 3–5 liters		Evaporating flask volume > 5 liters
	Ultimate vacuum ≤ 2 mbar abs.		Ultimate vacuum ≥ 6 mbar abs.		
	With remote control		Without remote control		

Diaphragm Vacuum Pump **LABOPORT® N 820 G**



Evaporating flask volume
< 3 liters

Ultimate vacuum
≥ 6 mbar abs.

Without remote control

- Flow rate: 20 l/min
- Ultimate vacuum: 6 mbar abs.
- Adjustable motor speed control
- Ideal for solvents with high boiling points (e.g. DMF, DMSO)



[More information](#)

Diaphragm Vacuum Pump **N 920 G**



Evaporating flask volume
< 3 liters

Ultimate vacuum
≤ 2 mbar abs.


Without remote control

- Flow rate: 21 l/min
- Ultimate vacuum: 2 mbar abs.
- Adjustable motor speed control
- Ideal for solvents with high boiling points (e.g. DMF, DMSO)




[More information](#)

Vacuum Pump System **LABOPORT® SC 820 G**




- Evaporating flask volume **< 3 liters**
- Ultimate vacuum **≥ 6 mbar abs.**
- With remote control


- Flow rate: 20 l/min
- Ultimate vacuum: 6 mbar abs.
- Adjustable motor speed control
- Ideal for solvents with high boiling points (e.g. DMF, DMSO)
- Incl. wireless controller with touch screen



[More information](#)




Vacuum Pump System **LABOPORT® SC 840 G**




- Evaporating flask volume **3–5 liters**
- Ultimate vacuum **≥ 6 mbar abs.**
- With remote control


- Flow rate: 34 l/min
- Ultimate vacuum: 6 mbar abs.
- Adjustable motor speed control
- Ideal for solvents with high boiling points (e.g. DMF, DMSO)
- Incl. wireless controller with touch screen



[More information](#)




Vacuum Pump System **SC 920 G**




- Evaporating flask volume **< 3 liters**
- Ultimate vacuum **≤ 2 mbar abs.**
- Control unit

- Flow rate: 21 l/min
- Ultimate vacuum: 2 mbar abs.
- Adjustable motor speed control
- Ideal for solvents with high boiling points (e.g. DMF, DMSO)
- Incl. controller




[More information](#)

Vacuum Pump System **LABOPORT® SH 840 G**




- Evaporating flask volume **3–5 liters**
- Ultimate vacuum **≥ 6 mbar abs.**
- Without remote control


- Flow rate: 34 l/min
- Ultimate vacuum: 6 mbar abs.
- Adjustable motor speed control
- Ideal for solvents with high boiling points (e.g. DMF, DMSO)



[More information](#)




Vacuum Pump System **LABOPORT® SH 820 G**




- Evaporating flask volume **< 3 liters**
- Ultimate vacuum **≥ 6 mbar abs.**
- Without remote control


- Flow rate: 20 l/min
- Ultimate vacuum: 6 mbar abs.
- Adjustable motor speed control
- Ideal for solvents with high boiling points (e.g. DMF, DMSO)



[More information](#)




Diaphragm Vacuum Pump **N 860.3 FT 40.18**




- Evaporating flask volume **> 5 liters**
- Ultimate vacuum **≤ 6 mbar abs.**
- Without remote control

- Flow rate: 60 l/min
- Ultimate vacuum: 4 mbar abs.




[More information](#)

Diaphragm Vacuum Pump **LABOPORT® N 840 G**




- Evaporating flask volume **3–5 liters**
- Ultimate vacuum **≥ 6 mbar abs.**
- Without remote control


- Flow rate: 34 l/min
- Ultimate vacuum: 6 mbar abs.
- Adjustable motor speed control
- Ideal for solvents with high boiling points (e.g. DMF, DMSO)



[More information](#)




Vacuum Control Unit **VC 900**



Regardless of your selection parameters, the VC 900 control unit can be used with any pump.

This separate control unit allows a range of vacuum pumps to be operated remotely, easily and intuitively using a touch screen.

- Digital display for easy vacuum control
- Separate control unit with pressure sensors and valves
- Four different operating modes



[More information](#)