

# Reactochem

## Reaction Unit

Filter Reactor

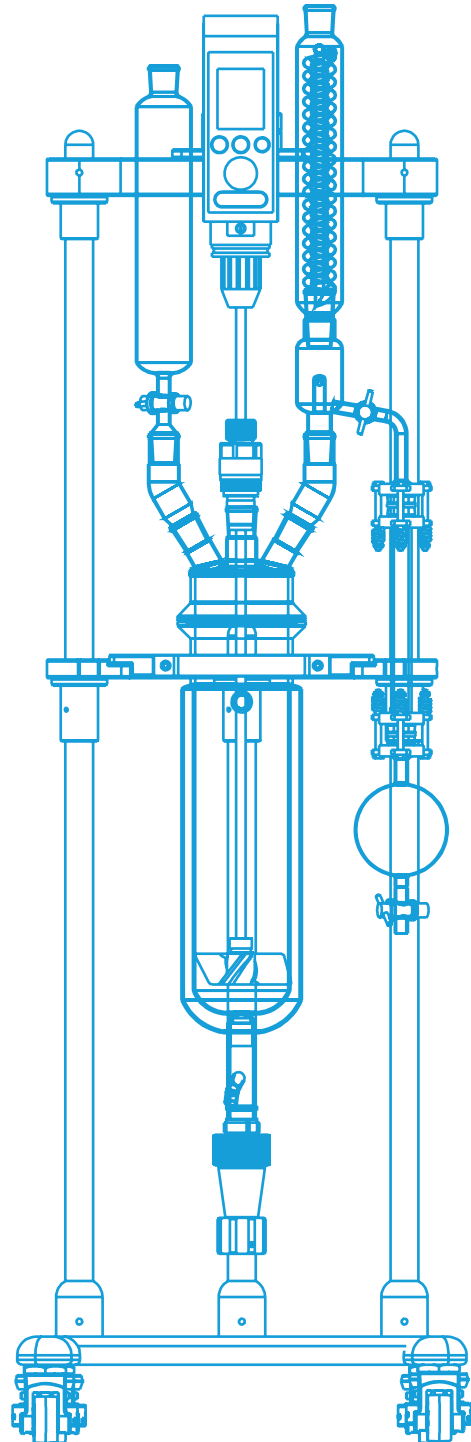
Nutsche Filter

Gas Scrubber

Thin Film Evaporator

Short Path Evaporator

Complete Package



## Product Overview 2024

DN60/DN100/DN150  
0,5 - 5 Lt.



## 1 Overhead Stirrer



2-gear mixer with  
400-2000 rpm.  
Provides mixing  
capability up to  
250,000 mpas  
viscosity value.

## 2 Mechanical Seal



- \*Wetted Parts : PEEK, Viton
- \*Shaft Sealing : Viton
- \*Housing : PEEK, Aluminium, Edelstahl
- \*Max Usage Temp. : 200°C
- \*Max RPM : 400

## 3 Stirrer Shafts



## 4 Leveling Casters



- \*Nylon 66(Shore D70)
- \*No Bearing
- \*Wheel Dia : 50mm
- \*Load Capacity : 280Kg
- \*Overall Height : 82+10mm



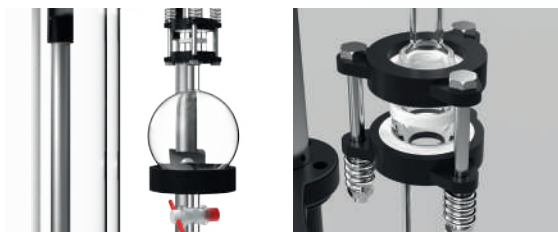


## 5 Condenser



Condenser options in different shapes and sizes

## 6 Clamps

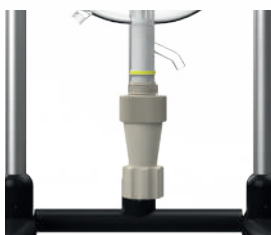


## 7 Unique Design Stand



Manufactured with lightness in mind, the aluminium stand is coated with phosphate to protect it from corrosion and external effects.

## 8 Drain Valve



The discharge valve made of teflon material is chemical resistant and user-friendly with its easy use.





# Overhead Stirrer

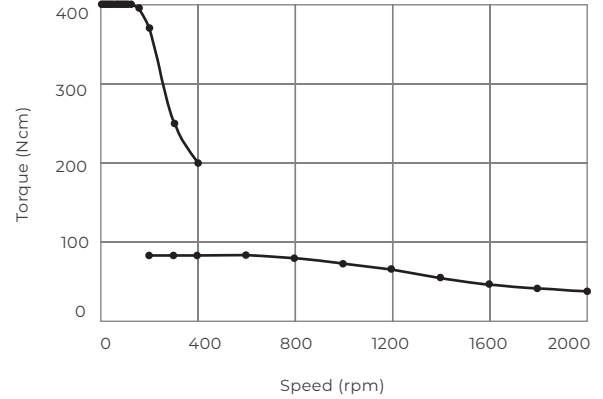
Sealed housing, which complies with the high protection class IP 54, guarantees longevity and maintenance free 24 hour operation in an aggressive environment



The intuitive touch-panel made of glass for easy operation

Safe start and stop of operation via slide touch panel to avoid unintended stirring

2 Way Rotation



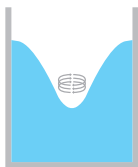
2-gear mixer with 400-2000 rpm. Provides mixing capability up to 250,000 mpas viscosity value.

# Stirrer Shafts

Moon-Shaped Type (PTFE)



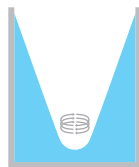
Temperature resistance: from -200°C yo +250°C  
Chemical resistance: +++ universal



Propeller-Stirrer Shafts with 4 Blades (PTFE)



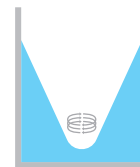
Temperature resistance: from -200°C yo +250°C  
Chemical resistance: +++ universal



Impeller Stirrer Shafts Type (PTFE)



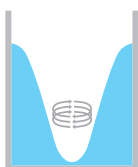
Temperature resistance: from -200°C yo +250°C  
Chemical resistance: +++ universal



U-Shaped Type (PTFE)



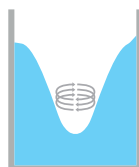
Temperature resistance: from -200°C yo +250°C  
Chemical resistance: +++ universal



Moon-Shaped Type (PTFE)



Temperature resistance: from -200°C yo +250°C  
Chemical resistance: +++ universal



Maxi Propeller Stirrer Shafts (PTFE)



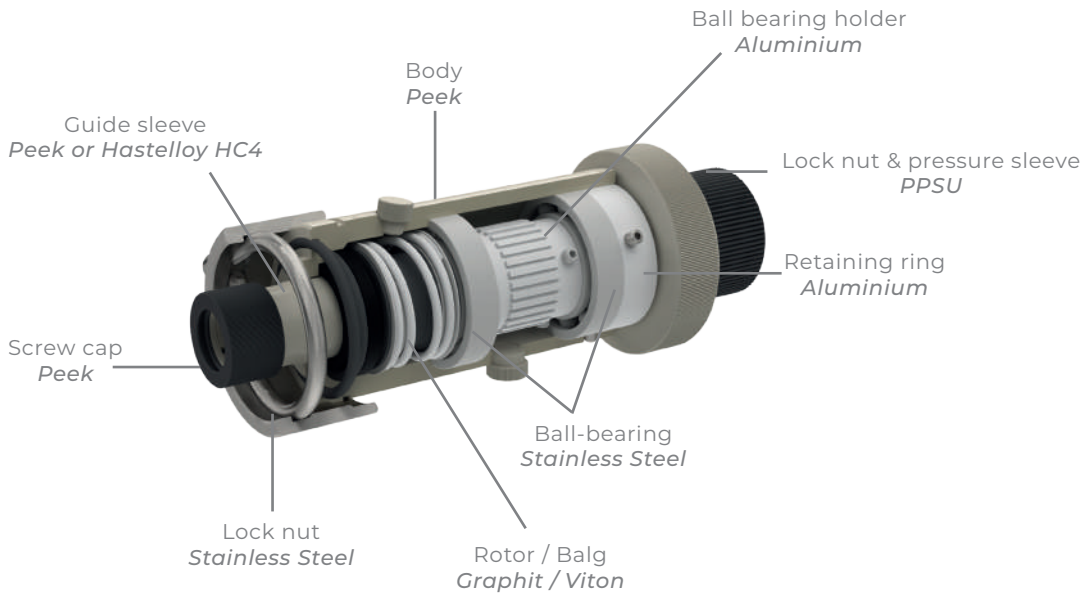
Temperature resistance: from -200°C yo +250°C  
Chemical resistance: +++ universal





# Overhead Stirrer

## Option 1

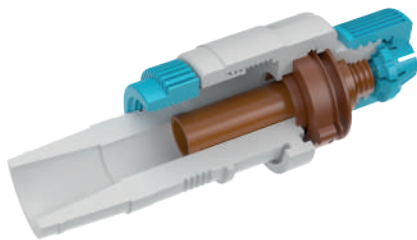


in PTFE compound with 2 encapsulated ball bearings in s/s. The planes of the ceramic seals can be used without oil and discover a high gas tightness. The co-rotating inner sleeve (in PEEK or Hastelloy HC4) permits the use of stirrers in different materials (particularly suited for coated stirrers).

max. 800 rpm, max. Temp. 200°C



## Option 2



High level of chemical resistance

Anti-whip and reduced vibration

Vacuum (~5mm Hg) and pressure (3-5psi) performance  
No shedding

Self releasing joint ring

Maximum recommended speeds: continuous 500rpm, intermittent 800rpm



Unique features of the design are a permanently loaded composite PTFE/PEEK seal and a specifically fabricated glass ball-bearing for rigidity and smoothness of operation.

Note; PEEK has a very high level of chemical resistance with some susceptibility only to strong mineral acids

## Option 2



Ground joint cone made of PTFE with sealing rings on the outside to prevent sticking of the connection and to reduce danger of breaking glass. A special gasket made of PTFE and an FPM o-ring which is compressed by a GL screw cap provide a good sealing of the stirrer shaft. This gasket can be exchanged after wearing.





# Aluminium Stand

“Manufactured with lightness in mind, the aluminum stand is meticulously designed and coated with phosphate to form a robust barrier against corrosion, oxidation, and other environmental factors. This protective coating ensures longevity and maintains the integrity of the chemical glass reactor, safeguarding it during rigorous chemical processes and varied environmental conditions. Our unique design features ergonomic elements that enhance stability and ease of use, ensuring precise positioning and reliable performance in laboratory and industrial settings. The combination of lightweight aluminum, advanced corrosion resistance, and innovative design makes it a standout choice for researchers and professionals alike.”



Our unique, easy-to-use stand design is adjustable and suitable for use with reactor vessels of different volumes, mechanical mixers and reactor lids.

\*Available Lid: DN60, DN100, DN150

\*Impeller : 10 mm Dia Shaft

\*Vessel Volume / Design :  
250 ml - 5000ml / Jacketed - Standart

\*Drain Valve: Chemical Resistant





# Leveling Casters



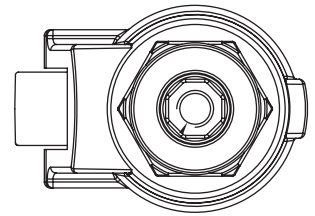
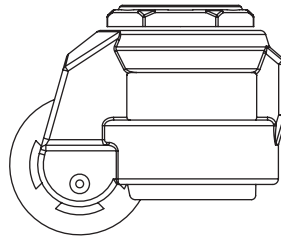
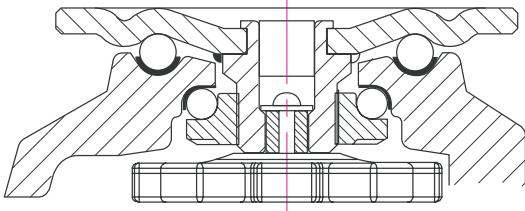
\*Brackets: Pressed steel plate, double ball bearing with hardened bearing seats in the swivel head, ivory-colored aluminum frame, height adjustment with integrated orange handle or spanner, anti vibration NBR pad

\*Surface Treatment: Powder coating, zinc plated

\*Wheel: Nylon 66 (Shore D70), No bearing

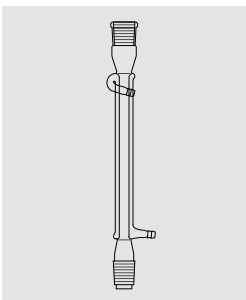
60~1,500kg **RoHS** -10~90°C

\* Recommended Load = Load Cp. x2



Swivel	Wheel type	mm	mm	Kg	mm	mm	mm	mm	mm
GD-60-F	NYN	50	25	280	82+10	36	73 x 73	58 x 58	7 or 8.5

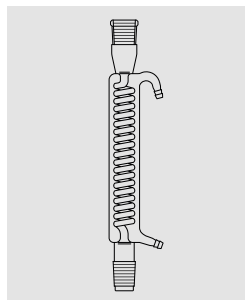
# Condenser



Liebig Condenser

Height	SJ/NS
300 mm	14.5/23
300 mm	29/32
400 mm	29/32

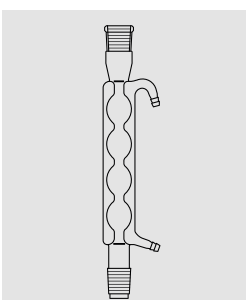
\*Can be ordered without SJ



Spiral Condenser

Height	SJ/NS
300 mm	14.5/23
300 mm	29/32

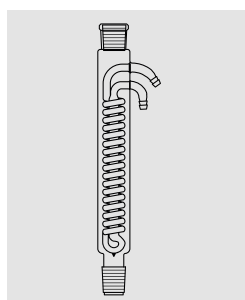
\*Can be ordered without SJ



Allihn Condenser

Height	SJ/NS
300 mm	14.5/23
300 mm	29/32
400 mm	29/32

\*Can be ordered without SJ



Dimroth Condenser

Height	SJ/NS	Height	SJ/NS
160 mm	14.5/23	200 mm	29/32
200 mm	14.5/23	250 mm	29/32
300 mm	14.5/23	300 mm	29/32
		400 mm	29/32

\*Can be ordered without SJ

