Hydrothermal Synthesis Autoclave Reactor

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Hydrothermal Synthesis Autoclave Reactor (PTFE Lined)

Max working pressure: 3mpa (gauge); Max temperature: 240℃
Made of standard stainless steel 304/3016 with high quality PTFE chamber
Hydrothermal reactor can quickly and completely dissolve the sample containing volatile elements and the sample
Autoclave reactor features good corrosion resistance, anti-fouling, leak-proof to prevent harmful substances spilling
This reactor widely applies in the petrochemical, biomedical, materials science, geochemistry, environmental science, food science, commodity inspection and other departments of the research and production
PTFE or PFA Sampling, Washing or Dosing Bottles are available.

Product description

3MPA Hydrothermal Synthesis Autoclave Reactor with PTFE Lined Vessel Teflon Chamber
The hydrothermal reactors, made of standard stainless steel 304, features high quality PTFE chamber, up to 220℃ and 3Mpa, is able to replace platinum crucible to solve sample treatment problem about the trace. With this reactor can shorten the analysis time, but get reliable data

Specifications

- Volume: 10ml ,25ml, 50ml, 100ml, 150ml, 200ml, 250ml, 300ml, 400ml, 500ml
- Seal Structure: sealed by PTFE chamber(between cover and body)
- Shell Material: stainless steel 304 /SS 316
- Chamber Material: High quality PTFE
- Max temperature: 240℃
- Work. temperature : 200℃
- Max pressure: 3Mpa

Hydrothermal Synthesis Autoclave Reactor (PPL Lined)

Product description

3MPA Hydrothermal Synthesis Autoclave Reactor with PPL Lined Vessel .
The hydrothermal reactors, made of standard stainless steel 304, features high quality PPL chamber, up to 260℃ and 3Mpa, is able to replace platinum crucible to solve sample treatment problem about the trace. With this reactor can shorten the analysis time, but get reliable data

Specifications

- Volume: 10ml ,25ml, 50ml, 100ml, 150ml, 200ml, 250ml, 300ml, 400ml, 500ml
- Seal Structure: sealed by PPL chamber(between cover and body)
- Shell Material: stainless steel 304 /SS 316
- Chamber Material: High quality PTFE
- Max temperature: 280℃
- Work. temperature : 260℃
- Max pressure: 3Mpa

Hydrothermal Synthesis Autoclave Reactor (PTFE Lined Nut n Bolt)

Product description

3MPA Hydrothermal Synthesis Autoclave Reactor with PPL Lined Vessel .
The hydrothermal reactors, made of standard stainless steel 304, features high quality PPL chamber, up to 260℃ and 3Mpa, is able to replace platinum crucible to solve sample treatment problem about the trace. With this reactor can shorten the analysis time, but get reliable data

Specifications

- Volume: 10ml ,25ml, 50ml, 100ml, 150ml, 200ml, 250ml, 300ml, 400ml, 500ml,1000ml,2000ml
- Seal Structure: sealed by PPL chamber(between cover and body)
- Shell Material: stainless steel 304 /SS 316
- Chamber Material: High quality PTFE
- Max temperature: 280℃
- Work. temperature : 260℃
- Max pressure: 3Mpa

HYDROTHERMAL SYNTHESIS AUTOCLAVE OPERATING

• Pour reaction material into PTFE / PPL liner. Charging coefficient < 0.8.

• Reactor lower gasket's salient surface is downward.

• Put in PTFE / PPL liner and upper gasket.

• Tightening reactor lid, use screw rod to tighten up until locking.

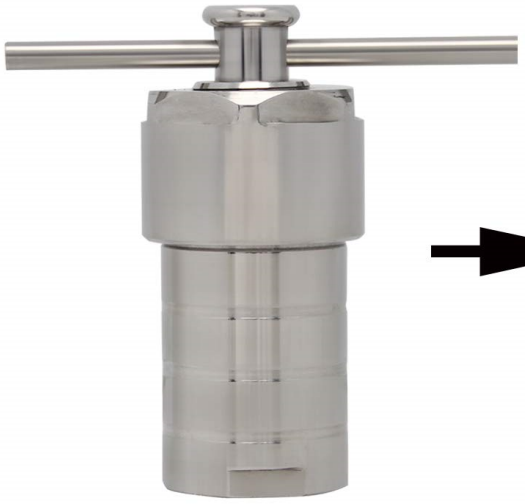
• Place reactor in heating apparatus to heat.
• Safe temperature: PTFE lined 220°C, PPL lined 280°C.

• Ensure reactor inner temp.< reaction solvent boiling point.
• Then could use screw rod to open reactor lid.

• After reaction finish, please cooling stric according to standard rate of temperature fall.
• Guarantee safe operation and reactor is service lifetime.

• Please clean reactor when every time reaction finish, aviod corrosion.

Assembly



Booster Stick

Upper SS Lid

The lid is dented and can be tightened with a wrench.

Upper SS Disc

Teflon PTFE Liner

Acid and alkali resistance, but if the reaction solution has color, it will be dyed.

SS Lower Disc

Reactor Body

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