

UnionClay

Laboratory Reactors, Chillers and Process Equipment

Product Catalog 2026

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Temperature Control Equipment

1 product in this range • <https://www.unionclay.com/product-category/temperature-control-equipment/>

Constant Temperature Water Bath

<https://www.unionclay.com/product/constant-temperature-water-bath/>

Recirculating Chiller

25 products in this range •

<https://www.unionclay.com/product-category/temperature-control-equipment/recirculating-chiller/>

DLSB-10-30 Non-sealed Recirculating Chiller

Model	DLSB-10 30 Technical parameters
Temperature range	-30°C to room temperature
Voltage	220V,50Hz
Total power	0.85KW
Reservoir volume	10L

<https://www.unionclay.com/product/dlsb-10-30-non-sealed-recirculating-chiller/>

DLSB-10-30 Sealed Recirculating Chiller

Model	DLSB-10 30 Technical parameters
Type	sealed type -30°C to room temperature
Temperature range	-30°C to room temperature
Voltage	220V,50Hz
Total power	1KW

<https://www.unionclay.com/product/dlsb-10-30-sealed-recirculating-chiller/>

DLSB-10-40 Non-sealed Recirculating Chiller

Model	DLSB-10 40 Technical parameters
Temperature range	-40°C to room temperature
Voltage	220V,50Hz
Total power	1.2KW
Reservoir volume	10L

<https://www.unionclay.com/product/dlsb-10-40-non-sealed-recirculating-chiller/>

DLSB-10-40 Sealed Recirculating Chiller

Model	DLSB-10 40 Technical parameters
Type	sealed type -40°C to room temperature
Temperature range	-40°C to room temperature
Voltage	220V,50Hz
Total power	1.4KW

<https://www.unionclay.com/product/dlsb-10-40-sealed-recirculating-chiller/>

DLSB-100-30 Non-sealed Recirculating Chiller

Model	DLSB-100 30 Technical parameters
Temperature range	-30°C to room temperature
Voltage	380V,50Hz
Total power	4.8KW
Reservoir volume	100L
https://www.unionclay.com/product/dlsb-100-30-non-sealed-recirculating-chiller/	

DLSB-100-30 Sealed Recirculating Chiller

Model	DLSB-100 30 Technical parameters
Type	sealed type -30°C to room temperature
Temperature range	-30°C to room temperature
Voltage	380V,50Hz
Total power	4.8KW
https://www.unionclay.com/product/dlsb-100-30-sealed-recirculating-chiller/	

DLSB-100-40 Non-sealed Recirculating Chiller

Model	DLSB-100 40 Technical parameters
Temperature range	-40°C to room temperature
Voltage	380V,50Hz
Total power	4.8KW; Total current 10A
Reservoir volume	100L
https://www.unionclay.com/product/dlsb-100-40-non-sealed-recirculating-chiller/	

DLSB-100-40 Sealed Recirculating Chiller

Model	DLSB-100 40 Technical parameters
Type	sealed type -40°C to room temperature
Temperature range	-40°C to room temperature
Voltage	380V,50Hz
Total power	5.7KW
https://www.unionclay.com/product/dlsb-100-40-sealed-recirculating-chiller/	

DLSB-20-30 Non-sealed Recirculating Chiller

Model	DLSB-20 30 Technical parameters
Temperature range	-30°C to room temperature
Voltage	220V,50Hz
Total power	1.3KW
Reservoir volume	20L
https://www.unionclay.com/product/dlsb-20-30-non-sealed-recirculating-chiller/	

DLSB-20-30 Sealed Recirculating Chiller	
Model	DLSB-20 30 Technical parameters
Type	sealed type -30°C to room temperature
Temperature range	-30°C to room temperature
Voltage	220V,50Hz
Total power	1.4KW; Total current 5.9A
https://www.unionclay.com/product/dlsb-20-30-sealed-recirculating-chiller/	

DLSB-20-40 Non-sealed Recirculating Chiller	
Model	DLSB-20 40 Technical parameters
Temperature range	-40°C to room temperature
Voltage	380V,50Hz
Total power	2.5KW
Reservoir volume	20L
https://www.unionclay.com/product/dlsb-20-40-non-sealed-recirculating-chiller/	

DLSB-20-40 Sealed Recirculating Chiller	
Model	DLSB-20 40 Technical parameters
Type	sealed type -40°C to room temperature
Temperature range	-40°C to room temperature
Voltage	380V,50Hz
Total power	2.5KW
https://www.unionclay.com/product/dlsb-20-40-sealed-recirculating-chiller/	

DLSB-30-30 Non-sealed Recirculating Chiller	
Model	DLSB-30 30 Technical parameters
Temperature range	-30°C to room temperature
Voltage	220V,50Hz
Total power	1.8KW; Total current 6.9A
Reservoir volume	30L
https://www.unionclay.com/product/dlsb-30-30-non-sealed-recirculating-chiller/	

DLSB-30-30 Sealed Recirculating Chiller	
Model	DLSB-30 30 Technical parameters
Type	sealed type -30°C to room temperature
Temperature range	-30°C to room temperature
Voltage	220V,50Hz
Total power	1.7KW
https://www.unionclay.com/product/dlsb-30-30-sealed-recirculating-chiller/	

DLSB-30-40 Non-sealed Recirculating Chiller	
Model	DLSB-30 40 Technical parameters
Temperature range	-40°C to room temperature
Voltage	380V,50Hz
Total power	3.2KW; Total current 6.05A
Reservoir volume	30L
https://www.unionclay.com/product/dlsb-30-40-non-sealed-recirculating-chiller/	

DLSB-30-40 Sealed Recirculating Chiller	
Model	DLSB-30 40 Technical parameters
Type	sealed type -40°C to room temperature
Temperature range	-40°C to room temperature
Voltage	380V,50Hz
Total power	3.3KW
https://www.unionclay.com/product/dlsb-30-40-sealed-recirculating-chiller/	

DLSB-5-30 Non-sealed Recirculating Chiller	
Model	DLSB-5 30 Technical parameters
Temperature range	-30°C to room temperature
Voltage	220V,50Hz
Total power	0.58KW
Reservoir volume	5L
https://www.unionclay.com/product/dlsb-5-30-non-sealed-recirculating-chiller/	

DLSB-5-30 Sealed Recirculating Chiller	
Model	DLSB-5 30 Technical parameters
Type	sealed type -30°C to room temperature
Temperature range	-30°C to room temperature
Voltage	220V,50Hz
Total power	0.9KW
https://www.unionclay.com/product/dlsb-5-30-sealed-recirculating-chiller/	

DLSB-5-40 Non-sealed Recirculating Chiller	
Model	DLSB-5 40 Technical parameters
Temperature range	-40°C to room temperature
Voltage	220V,50Hz
Total power	0.9KW
Reservoir volume	5L
https://www.unionclay.com/product/dlsb-5-40-non-sealed-recirculating-chiller/	

DLSB-5-40 Sealed Recirculating Chiller

Model	DLSB-5 40 Technical parameters
Type	sealed type -40°C to room temperature
Temperature range	-40°C to room temperature
Voltage	220V,50Hz
Total power	1KW
https://www.unionclay.com/product/dlsb-5-40-sealed-recirculating-chiller/	

DLSB-50-30 Non-sealed Recirculating Chiller

Model	DLSB-50 30 Technical parameters
Temperature range	-30°C to room temperature
Voltage	380V,50Hz
Total power	4KW
Reservoir volume	50L
https://www.unionclay.com/product/dlsb-50-30-non-sealed-recirculating-chiller/	

DLSB-50-30 Sealed Recirculating Chiller

Model	DLSB-50 30 Technical parameters
Type	sealed type -30°C to room temperature
Temperature range	-30°C to room temperature
Voltage	380V,50Hz
Total power	4KW; Total current 7.9A
https://www.unionclay.com/product/dlsb-50-30-sealed-recirculating-chiller/	

DLSB-50-40 Non-sealed Recirculating Chiller

Model	DLSB-50 40 Technical parameters
Temperature range	-40°C to room temperature
Voltage	380V,50Hz
Total power	4.5KW
Reservoir volume	50L
https://www.unionclay.com/product/dlsb-50-40-non-sealed-recirculating-chiller/	

DLSB-50-40 Sealed Recirculating Chiller

Model	DLSB-50 40 Technical parameters
Type	sealed type -40°C to room temperature
Temperature range	-40°C to room temperature
Voltage	380V,50Hz
Total power	4.6KW
https://www.unionclay.com/product/dlsb-50-40-sealed-recirculating-chiller/	

Low Temperature Recirculating Chiller	
Temperature options	-40°C, -60°C, -80°C, -100°C and -120°C
System	Closed circulation, non-volatile coolant loop
Cooling type	Air cooling or water cooling
Control	PID or PLC options by model
Typical series	DLSB and DFY low-temperature systems
https://www.unionclay.com/product/low-temperature-recirculating-chiller/	

Heating and Cooling Integrated Machine

24 products in this range •

<https://www.unionclay.com/product-category/temperature-control-equipment/heating-and-cooling-integrated-machine/>

DFY-10-30 Heating and Cooling Integrated Machine	
Model	DFY-10 30 Technical parameters
Temperature range	-30°C to 99°C
Voltage	220V±10% 50Hz
Total power	2.9KW
Reservoir volume	10L
https://www.unionclay.com/product/dfy-10-30-heating-and-cooling-integrated-machine/	

DFY-10-40 Heating and Cooling Integrated Machine	
Model	DFY-10 40 Technical parameters
Temperature range	-40°C to 99°C
Voltage	220V±10% 50Hz
Total power	3.3KW
Reservoir volume	10L
https://www.unionclay.com/product/dfy-10-40-heating-and-cooling-integrated-machine/	

DFY-20-30 Heating and Cooling Integrated Machine	
Model	DFY-20 30 Technical parameters
Temperature range	-30°C to 99°C
Voltage	220V±10% 50Hz
Total power	4.3KW
Reservoir volume	20L
https://www.unionclay.com/product/dfy-20-30-heating-and-cooling-integrated-machine/	

DFY-20-40 Heating and Cooling Integrated Machine

Model	DFY-20 40 Technical parameters
Temperature range	-40°C to 99°C
Voltage	380V±10% 50Hz
Total power	5.5KW
Reservoir volume	20L
https://www.unionclay.com/product/dfy-20-40-heating-and-cooling-integrated-machine/	

DFY-30-30 Heating and Cooling Integrated Machine

Model	DFY-30 30 Technical parameters
Temperature range	-30°C to 99°C
Voltage	220V±10% 50Hz
Total power	4.6KW
Reservoir volume	30L
https://www.unionclay.com/product/dfy-30-30-heating-and-cooling-integrated-machine/	

DFY-30-40 Heating and Cooling Integrated Machine

Model	DFY-30 40 Technical parameters
Temperature range	-40°C to 99°C
Voltage	380V±10% 50Hz
Total power	5.5KW
Reservoir volume	30L
https://www.unionclay.com/product/dfy-30-40-heating-and-cooling-integrated-machine/	

DFY-5-30 Heating and Cooling Integrated Machine

Model	DFY-5 30 Technical parameters
Temperature range	-30°C to 99°C
Voltage	220V±10% 50Hz
Total power	1.6KW
Reservoir volume	5L
https://www.unionclay.com/product/dfy-5-30-heating-and-cooling-integrated-machine/	

DFY-5-40 Heating and Cooling Integrated Machine

Model	DFY-5 40 Technical parameters
Temperature range	-40°C to 99°C
Voltage	220V±10% 50Hz
Total power	1.8KW
Reservoir volume	5L
https://www.unionclay.com/product/dfy-5-40-heating-and-cooling-integrated-machine/	

DFY-50-30 220V Heating and Cooling Integrated Machine

Model	DFY-50 30 Technical parameters
Temperature range	-30°C to 99°C
Voltage	220V±10% 50Hz
Total power	5.5KW
Reservoir volume	50L

<https://www.unionclay.com/product/dfy-50-30-220v-heating-and-cooling-integrated-machine/>

DFY-50-30 380V Heating and Cooling Integrated Machine

Model	DFY-50 30 Technical parameters
Temperature range	-30°C to 99°C
Voltage	380V±10% 50Hz
Total power	6.9KW
Reservoir volume	50L

<https://www.unionclay.com/product/dfy-50-30-380v-heating-and-cooling-integrated-machine/>

DFY-50-40 Heating and Cooling Integrated Machine

Model	DFY-50 40 Technical parameters
Temperature range	-40°C to 99°C
Voltage	380V±10% 50Hz
Total power	7.5KW
Reservoir volume	50L

<https://www.unionclay.com/product/dfy-50-40-heating-and-cooling-integrated-machine/>

Dynamic Temperature Control System

Temperature range	-80°C to 200°C; 300°C optional on selected systems
Control accuracy	±0.5°C on GDX dynamic systems
Control mode	Material temperature and outlet temperature switching
Operation panel	7-inch MCGS HD screen or Siemens screen optional
Communication	Modbus RTU RS485; RS232/Ethernet optional

<https://www.unionclay.com/product/dynamic-temperature-control-system/>

GDX-10-30 Heating and Cooling Integrated Machine

Model	GDX-10 30 Technical parameters
Temperature range	-30°C to 200°C
Voltage	220V±10% 50Hz
Total power	4KW
Reservoir volume	7L

<https://www.unionclay.com/product/gdx-10-30-heating-and-cooling-integrated-machine/>

GDX-10-40 Heating and Cooling Integrated Machine

Model	GDX-10 40 Technical parameters
Temperature range	-40°C to 200°C
Voltage	220V±10% 50Hz
Total power	4.5KW
Reservoir volume	7L
https://www.unionclay.com/product/gdx-10-40-heating-and-cooling-integrated-machine/	

GDX-100-30 Heating and Cooling Integrated Machine

Model	GDX-100 30 Technical parameters
Temperature range	-30°C to 200°C
Voltage	380V±10% 50Hz
Total power	17KW
Reservoir volume	35L
https://www.unionclay.com/product/gdx-100-30-heating-and-cooling-integrated-machine/	

GDX-100-40 Heating and Cooling Integrated Machine

Model	GDX-100 40 Technical parameters
Temperature range	-40°C to 200°C
Voltage	380V±10% 50Hz
Total power	17KW
Reservoir volume	35L
https://www.unionclay.com/product/gdx-100-40-heating-and-cooling-integrated-machine/	

GDX-20-30 Heating and Cooling Integrated Machine

Model	GDX-20 30 Technical parameters
Temperature range	-30°C to 200°C
Voltage	220V±10% 50Hz
Total power	4.3KW
Reservoir volume	7L
https://www.unionclay.com/product/gdx-20-30-heating-and-cooling-integrated-machine/	

GDX-20-40 Heating and Cooling Integrated Machine

Model	GDX-20 40 Technical parameters
Temperature range	-40°C to 200°C
Voltage	380V±10% 50Hz
Total power	7KW
Reservoir volume	7L
https://www.unionclay.com/product/gdx-20-40-heating-and-cooling-integrated-machine/	

GDX-30-30 Heating and Cooling Integrated Machine

Model	GDX-30 30 Technical parameters
Temperature range	-30°C to 200°C
Voltage	220V±10% 50Hz
Total power	6.3KW
Reservoir volume	10L
https://www.unionclay.com/product/gdx-30-30-heating-and-cooling-integrated-machine/	

GDX-30-40 Heating and Cooling Integrated Machine

Model	GDX-30 40 Technical parameters
Temperature range	-40°C to 200°C
Voltage	380V±10% 50Hz
Total power	7.7KW
Reservoir volume	10L
https://www.unionclay.com/product/gdx-30-40-heating-and-cooling-integrated-machine/	

GDX-5-30 Heating and Cooling Integrated Machine

Model	GDX-5 30 Technical parameters
Temperature range	-30°C to 160°C
Voltage	220V±10% 50Hz
Total power	3KW
Reservoir volume	1-2L
https://www.unionclay.com/product/gdx-5-30-heating-and-cooling-integrated-machine/	

GDX-5-40 Heating and Cooling Integrated Machine

Model	GDX-5 40 Technical parameters
Temperature range	-40°C to 160°C
Voltage	220V±10% 50Hz
Total power	2.9KW
Reservoir volume	2L
https://www.unionclay.com/product/gdx-5-40-heating-and-cooling-integrated-machine/	

GDX-50-30 Heating and Cooling Integrated Machine

Model	GDX-50 30 Technical parameters
Temperature range	-30°C to 200°C
Voltage	380V±10% 50Hz
Total power	11.5KW
Reservoir volume	17L
https://www.unionclay.com/product/gdx-50-30-heating-and-cooling-integrated-machine/	

GDX-50-40 Heating and Cooling Integrated Machine

Model	GDX-50 40 Technical parameters
Temperature range	-40°C to 200°C
Voltage	380V±10% 50Hz
Total power	12.2KW
Reservoir volume	17L

<https://www.unionclay.com/product/gdx-50-40-heating-and-cooling-integrated-machine/>

High-temperature Thermostatic Bath

10 products in this range •

<https://www.unionclay.com/product-category/temperature-control-equipment/high-temperature-thermostatic-bath/>

Closed High Temperature Circulating Oil Bath

Closed High Temperature Circulating Oil Bath for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/closed-high-temperature-circulating-oil-bath/>

High Temperature Circulating Bath

High Temperature Circulating Bath for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/high-temperature-circulating-bath-2/>

High Temperature Circulating Bath

High Temperature Circulating Bath for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/high-temperature-circulating-bath/>

JH-200-03 High-temperature Thermostatic Bath

Model	JH-200-03
Power supply	220V
Heating power	3KW
Circulation pump power	160W
Total power	3160W

<https://www.unionclay.com/product/jh-200-03-high-temperature-thermostatic-bath/>

JH-200-06 High-temperature Thermostatic Bath

Model	JH-200-06
Power supply	220V
Heating power	6KW
Circulation pump power	370W
Total power	6.4KW

<https://www.unionclay.com/product/jh-200-06-high-temperature-thermostatic-bath/>

JH-200-09 High-temperature Thermostatic Bath

Model	JH-200-09
Power supply	380V 50HZ
Heating power	9KW
Circulation pump power	370W
Total power	9.4KW

<https://www.unionclay.com/product/jh-200-09-high-temperature-thermostatic-bath/>

JH-200-12 High-temperature Thermostatic Bath

Model	JH-200-12
Voltage	380V
Heating power	12KW
Circulation pump power	370W
Total power	12.4KW

<https://www.unionclay.com/product/jh-200-12-high-temperature-thermostatic-bath/>

JH-200-15 High-temperature Thermostatic Bath

Model	JH-200-15
Voltage	380V
Heating power	15KW
Circulation pump power	370W
Total power	15.4KW

<https://www.unionclay.com/product/jh-200-15-high-temperature-thermostatic-bath/>

JH-200-4.5 High-temperature Thermostatic Bath

Model	JH-200-4.5
Power supply	220V
Heating power	4.5KW
Circulation pump power	160W
Total power	4.8KW

<https://www.unionclay.com/product/jh-200-4-5-high-temperature-thermostatic-bath/>

Water Bath

Water Bath for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/water-bath/>

TCU

1 product in this range • <https://www.unionclay.com/product-category/temperature-control-equipment/tcu/>

TCU Temperature Control Unit	
Model families	GDX-302A to GDX-836B examples
Temperature range	-30°C / -40°C / -80°C to 200°C; 300°C optional
Sensor	PT100
Cooling type	Air cooling; water cooling optional
Safety	Overvoltage, delay, overcurrent, overheating and leakage protection
https://www.unionclay.com/product/tcu-temperature-control-unit/	

Chemical Reactor

27 products in this range • <https://www.unionclay.com/product-category/chemical-reactor/>

Glass Reactor

1 product in this range • <https://www.unionclay.com/product-category/chemical-reactor/glass-reactor/>

Jacketed Glass Reactor	
Material	GG3.3 high borosilicate glass
Capacity examples	5L to 200L
Temperature range	-120°C to 300°C with suitable external equipment
Pressure	Vacuum or normal pressure; no positive pressure unless specified
Applications	Reaction, crystallization, extraction, distillation and process development
https://www.unionclay.com/product/jacketed-glass-reactor/	

Single Layer Reactor

6 products in this range •

<https://www.unionclay.com/product-category/chemical-reactor/glass-reactor/single-layer-reactor/>

Non Openable Single Layer Spherical Glass Reactor 10L-100L
Non Openable Single Layer Spherical Glass Reactor 10L-100L for laboratory and pilot-scale process equipment applications.
https://www.unionclay.com/product/non-openable-single-layer-spherical-glass-reactor-10l-100l/

Openable Single Layer Cylindrical Glass Reactor 10L-100L
Openable Single Layer Cylindrical Glass Reactor 10L-100L for laboratory and pilot-scale process equipment applications.
https://www.unionclay.com/product/openable-single-layer-cylindrical-glass-reactor-10l-100l/

Single Layer Electric Heating Mantle Glass Reactor 10L-50L
Single Layer Electric Heating Mantle Glass Reactor 10L-50L for laboratory and pilot-scale process equipment applications.
https://www.unionclay.com/product/single-layer-electric-heating-mantle-glass-reactor-10l-50l/

Single Layer Glass Reactor 100L

Single Layer Glass Reactor 100L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/single-layer-glass-reactor-100/>

Single Layer Glass Reactor 1L-5L

Single Layer Glass Reactor 1L-5L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/single-layer-glass-reactor-1l-5l/>

Single Layer Spherical Explosion Proof Glass Reactor 10L-100L

Single Layer Spherical Explosion Proof Glass Reactor 10L-100L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/single-layer-spherical-explosion-proof-glass-reactor-10l-100l/>

Double Layer Reactor

3 products in this range •

<https://www.unionclay.com/product-category/chemical-reactor/glass-reactor/double-layer-reactor/>

Double Layer Jacketed Glass Reactor 10L-100L

Double Layer Jacketed Glass Reactor 10L-100L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/double-layer-jacketed-glass-reactor-10l-100l/>

Double Layer Jacketed Glass Reactor 1L-3L

Double Layer Jacketed Glass Reactor 1L-3L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/double-layer-jacketed-glass-reactor-1l-3l/>

Double Layer Jacketed Glass Reactor 5L

Double Layer Jacketed Glass Reactor 5L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/double-layer-jacketed-glass-reactor-5l/>

Triple Layer Reactor

3 products in this range • <https://www.unionclay.com/product-category/chemical-reactor/glass-reactor/triple-layer-reactor/>

Triple Layer Glass Reactor

Triple Layer Glass Reactor for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/triple-layer-glass-reactor/>

Triple Layer Glass Reactor 1L-3L

Triple Layer Glass Reactor 1L-3L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/triple-layer-glass-reactor-1l-3l/>

Triple Layer Glass Reactor 3L-5L

Triple Layer Glass Reactor 3L-5L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/triple-layer-glass-reactor-3l-5l/>

Solid-Phase Reactor

1 product in this range • <https://www.unionclay.com/product-category/chemical-reactor/glass-reactor/solid-phase-reactor/>

Solid Phase Reactor

Product family	Solid-phase double-layer glass reactor
Capacity range	10L-100L
Structure	Double-layer glass reactor configuration
Typical use	Solid-phase reaction, mixing and process development
Matched equipment	Temperature control, vacuum and stirring configuration confirmed by process requirement

<https://www.unionclay.com/product/solid-phase-reactor/>

Stainless Reactor

13 products in this range • <https://www.unionclay.com/product-category/chemical-reactor/stainless-reactor/>

316 Stainless Steel Reactor 10L-100L

316 Stainless Steel Reactor 10L-100L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/316-stainless-steel-reactor-10l-100l/>

316 Stainless Steel Reactor 1L-2L

316 Stainless Steel Reactor 1L-2L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/316-stainless-steel-reactor-1l-2l/>

316 Stainless Steel Reactor 3L-5L

316 Stainless Steel Reactor 3L-5L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/316-stainless-steel-reactor-3l-5l/>

BSF-100L Double-layer Stainless Steel Reactor

Model	BSF-100L
Reactor vessel Capacity	100 L
Electrical Stirring speed	60-600 rpm
Vacuum degree Vacuum degree	vacuum can reach-0.095 MPa
Power supply Power supply	220 V/50 Hz, customizable 110 V/60 Hz

<https://www.unionclay.com/product/bsf-100l-double-layer-stainless-steel-reactor/>

BSF-10L Double-layer Stainless Steel Reactor	
Model	BSF-10L
Reactor vessel Capacity	10 L
Electrical Stirring speed	60-600 rpm
Vacuum degree Vacuum degree	vacuum can reach-0.095 MPa
Power supply Power supply	220 V/50 Hz, customizable 110 V/60 Hz
https://www.unionclay.com/product/bsf-10l-double-layer-stainless-steel-reactor/	

BSF-150L Double-layer Stainless Steel Reactor	
Model	BSF-150L
Reactor vessel Capacity	150 L
Electrical Stirring speed	60-600 rpm
Vacuum degree Vacuum degree	vacuum can reach-0.095 MPa
Power supply Power supply	220 V/50 Hz, customizable 110 V/60 Hz
https://www.unionclay.com/product/bsf-150l-double-layer-stainless-steel-reactor/	

BSF-200L Double-layer Stainless Steel Reactor	
Model	BSF-200L
Reactor vessel Capacity	200 L
Electrical Stirring speed	60-600 rpm
Vacuum degree Vacuum degree	vacuum can reach-0.095 MPa
Power supply Power supply	220 V/50 Hz, customizable 110 V/60 Hz
https://www.unionclay.com/product/bsf-200l-double-layer-stainless-steel-reactor/	

BSF-20L Double-layer Stainless Steel Reactor	
Model	BSF-20L
Reactor vessel Capacity	20 L
Electrical Stirring speed	60-600 rpm
Vacuum degree Vacuum degree	vacuum can reach-0.095 MPa
Power supply Power supply	220 V/50 Hz, customizable 110 V/60 Hz
https://www.unionclay.com/product/bsf-20l-double-layer-stainless-steel-reactor/	

BSF-2L Double-layer Stainless Steel Reactor	
Model	BSF-2L
Reactor vessel Capacity	2 L
Electrical Stirring speed	60-1000 rpm
Vacuum degree Vacuum degree	vacuum can reach-0.095 MPa
Power supply Power supply	220 V/50 Hz, customizable 110 V/60 Hz
https://www.unionclay.com/product/bsf-2l-double-layer-stainless-steel-reactor/	

BSF-30L Double-layer Stainless Steel Reactor	
Model	BSF-30L
Reactor vessel Capacity	30 L
Electrical Stirring speed	60-600 rpm
Vacuum degree Vacuum degree	vacuum can reach-0.095 MPa
Power supply Power supply	220 V/50 Hz, customizable 110 V/60 Hz
https://www.unionclay.com/product/bsf-30l-double-layer-stainless-steel-reactor/	

BSF-3L Double-layer Stainless Steel Reactor	
Model	BSF-3L
Reactor vessel Capacity	3 L
Electrical Stirring speed	60-1000 rpm
Vacuum degree Vacuum degree	vacuum can reach-0.095 MPa
Power supply Power supply	220 V/50 Hz, customizable 110 V/60 Hz
https://www.unionclay.com/product/bsf-3l-double-layer-stainless-steel-reactor/	

BSF-50L Double-layer Stainless Steel Reactor	
Model	BSF-50L
Reactor vessel Capacity	50 L
Electrical Stirring speed	60-600 rpm
Vacuum degree Vacuum degree	vacuum can reach-0.095 MPa
Power supply Power supply	220 V/50 Hz, customizable 110 V/60 Hz
https://www.unionclay.com/product/bsf-50l-double-layer-stainless-steel-reactor/	

BSF-5L Double-layer Stainless Steel Reactor	
Model	BSF-5L
Reactor vessel Capacity	5 L
Electrical Stirring speed	60-1000 rpm
Vacuum degree Vacuum degree	vacuum can reach-0.095 MPa
Power supply Power supply	220 V/50 Hz, customizable 110 V/60 Hz
https://www.unionclay.com/product/bsf-5l-double-layer-stainless-steel-reactor/	

Fermentation Tank

10 products in this range • <https://www.unionclay.com/product-category/fermentation-tank/>

Edible Mushroom Fermentation Tank	
Application	Edible mushroom fermentation and microbial cultivation
Material options	Glass / 316L stainless steel configurations according to scale
Controls	Temperature, pH, DO, feeding, air flow and tank pressure as required
Scale	Laboratory, pilot or production configuration by project
Customization	Vessel volume, aeration, agitation and monitoring options confirmed before quotation
https://www.unionclay.com/product/edible-mushroom-fermentation-tank/	

Enzymolysis Tank	
Total volume	10L-5000L, customizable
Material	316L stainless steel cylinder + 304 stainless steel jacket
Stirring	Top mechanical stirring or magnetic stirring
Basic controls	Temperature, speed, pH, feeding, tank pressure and liquid level
Optional cleaning/sterilization	SIP and CIP options
https://www.unionclay.com/product/enzymolysis-tank/	

Fermentation Post-processing Equipment	
Application	Downstream processing after fermentation
Process role	Solid-liquid separation, membrane filtration, drying and recovery
Selection basis	Material properties, throughput, solids content and separation target
Customization	Process line configuration confirmed case by case
https://www.unionclay.com/product/fermentation-post-processing-equipment/	

Glass Fermentation Tank	
Total volume	1L, 2L, 3L, 5L, 7L, 10L and multi-vessel configurations
Material	316L stainless steel + borosilicate glass
Stirring	Magnetic-drive mechanical stirring; top or bottom pin-free magnetic coupling options
Sterilization	Off-site autoclave sterilization
Basic controls	Temperature, speed, pH, DO, foam control and feeding
https://www.unionclay.com/product/glass-fermentation-tank/	

Industrial Stainless Steel Fermentation Tank	
Volume coverage	From laboratory and pilot sizes to production-scale configurations
Material	316L / 304 stainless steel
Sterilization	In-situ steam sterilization
Core controls	Temperature, agitation speed, pH, DO, foam, feed, air flow and pressure
Project format	Single tank or multi-stage fermentation system
https://www.unionclay.com/product/industrial-stainless-steel-fermentation-tank/	

Laboratory Bio Fermentation Tank	
Total volume	10L, 15L, 20L, 30L, 50L, 75L, 100L, 150L, 200L, 300L and 500L
Material	316L / 304 stainless steel
Stirring	Top mechanical stirring or magnetic-drive mechanical stirring
Sterilization	In-situ steam sterilization
Basic controls	Temperature, speed, pH, DO, foam control, feeding, air flow and tank pressure
https://www.unionclay.com/product/laboratory-bio-fermentation-tank/	

Mixing Tank	
Total volume	10L-5000L, customizable
Material	316L stainless steel cylinder + 304 stainless steel jacket
Stirring	Top mechanical stirring or magnetic stirring
Basic controls	Temperature, speed, pH, feeding, pressure and liquid level
Optional functions	SIP and CIP options
https://www.unionclay.com/product/mixing-tank/	

Seed Expansion Machine	
Typical volume examples	50L, 100L and 200L image references supplied
Process role	Seed culture expansion before fermentation
Mixing/aeration	Configured according to microbial culture requirement
Controls	Temperature, air flow and process monitoring according to project scope
Customization	Tank volume, automation and utilities confirmed before quotation
https://www.unionclay.com/product/seed-expansion-machine/	

Stainless Steel Solid State Fermentation Tank	
Total volume	20L, 30L, 50L, 100L, 200L, 500L, 1000L and 2000L
Loading coefficient	20-60%
Material	316L stainless steel
Stirring	Rotary-shaft mechanical stirring; tray-type option available
Sterilization	External steam in-situ sterilization
https://www.unionclay.com/product/stainless-steel-solid-state-fermentation-tank/	

Vacuum Concentrator	
Typical equipment	Single-effect or double-effect concentration equipment
Image reference volumes	500L, 1000L and 2000L examples supplied
Process	Vacuum concentration / evaporative concentration
Application	Bioprocess liquid concentration and post-processing
Configuration	Heating, vacuum, condenser and receiver system selected by process
https://www.unionclay.com/product/vacuum-concentrator/	

Rotary Evaporator

6 products in this range • <https://www.unionclay.com/product-category/rotary-evaporator/>

Automatic Lift Rotary Evaporator 10L-50L

Automatic Lift Rotary Evaporator 10L-50L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/automatic-lift-rotary-evaporator-10l-50l/>

Automatic Lift Rotary Evaporator 1L-2L

Automatic Lift Rotary Evaporator 1L-2L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/automatic-lift-rotary-evaporator-1l-2l/>

Manual Lift Rotary Evaporator 10L-50L

Manual Lift Rotary Evaporator 10L-50L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/manual-lift-rotary-evaporator-10l-50l/>

Rotary Evaporator 1L-3L

Rotary Evaporator 1L-3L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/rotary-evaporator-1l-3l/>

Rotary Evaporator 5L

Rotary Evaporator 5L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/rotary-evaporator-5l/>

Rotary Evaporator System

System	Rotary evaporation, vacuum concentration and solvent recovery
Heating options	Water bath or oil bath by temperature requirement
Control	Digital temperature and rotation control options
Support equipment	Vacuum pump, chiller and condenser matching
Applications	Laboratory separation, evaporation, concentration and extraction workflows

<https://www.unionclay.com/product/rotary-evaporator-system/>

Vacuum Filtration

6 products in this range • <https://www.unionclay.com/product-category/vacuum-filtration/>

Ceramic Vacuum Filtration Unit 10L-100L

Ceramic Vacuum Filtration Unit 10L-100L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/ceramic-vacuum-filtration-unit-10l-100l/>

Corrosion Resistant Vacuum Filtration Unit 10L-100L

Corrosion Resistant Vacuum Filtration Unit 10L-100L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/corrosion-resistant-vacuum-filtration-unit-10l-100l/>

High Pressure Stainless Steel Vacuum Filtration Unit 10L-100L

High Pressure Stainless Steel Vacuum Filtration Unit 10L-100L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/high-pressure-stainless-steel-vacuum-filtration-unit-10l-100l/>

PP Vacuum Filtration Unit 10L-100L

PP Vacuum Filtration Unit 10L-100L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/pp-vacuum-filtration-unit-10l-100l-2/>

PP Vacuum Filtration Unit 10L-100L

PP Vacuum Filtration Unit 10L-100L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/pp-vacuum-filtration-unit-10l-100l/>

Stainless Steel Vacuum Filtration Unit 10L-100L

Stainless Steel Vacuum Filtration Unit 10L-100L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/stainless-steel-vacuum-filtration-unit-10l-100l/>

Magnetic Stirrer

6 products in this range • <https://www.unionclay.com/product-category/magnetic-stirrer/>

DF-101S Magnetic Stirrer

Model	DF-101S
Maximum stirring capacity	2000ml
Temperature range	Room temperature to 300°C
Stirring speed	0-2600 r/min
Power supply	220V / 50Hz

<https://www.unionclay.com/product/df-101s-magnetic-stirrer/>

DF-101T-10 Magnetic Stirrer

Model	DF-101T-10
Maximum stirring capacity	10000ml
Temperature range	Room temperature to 300°C
Stirring speed	0-2600 r/min
Power supply	220V / 50Hz

<https://www.unionclay.com/product/df-101t-10-magnetic-stirrer/>

DF-101T-15 Magnetic Stirrer	
Model	DF-101T-15
Maximum stirring capacity	15000ml
Temperature range	Room temperature to 300°C
Stirring speed	0-2600 r/min
Power supply	220V / 50Hz
https://www.unionclay.com/product/df-101t-15-magnetic-stirrer/	

DF-101T-5 Magnetic Stirrer	
Model	DF-101T-5
Maximum stirring capacity	5000ml
Temperature range	Room temperature to 300°C
Stirring speed	0-2600 r/min
Power supply	220V / 50Hz
https://www.unionclay.com/product/df-101t-5-magnetic-stirrer/	

DF-101Z Magnetic Stirrer	
Model	DF-101Z
Maximum stirring capacity	800ml
Temperature range	Room temperature to 300°C
Stirring speed	0-2600 r/min
Power supply	220V / 50Hz
https://www.unionclay.com/product/df-101z-magnetic-stirrer/	

Magnetic Stirrer	
Models	DF-101Z, DF-101S, DF-101T-5, DF-101T-10, DF-101T-15
Maximum stirring capacity	800 ml, 2000 ml, 5000 ml, 10000 ml, 15000 ml
Temperature range	Room temperature to 300°C
Stirring speed	0-2600 r/min
Power supply	220V / 50Hz
https://www.unionclay.com/product/magnetic-stirrer/	

Glass Liquid Separator

4 products in this range • <https://www.unionclay.com/product-category/glass-liquid-separator/>

Drum Type Vacuum Glass Dispenser 10L-50L
Drum Type Vacuum Glass Dispenser 10L-50L for laboratory and pilot-scale process equipment applications.
https://www.unionclay.com/product/drum-type-vacuum-glass-dispenser-10l-50l-2/

Drum Type Vacuum Glass Dispenser 10L-50L

Drum Type Vacuum Glass Dispenser 10L-50L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/drum-type-vacuum-glass-dispenser-10l-50l/>

Spherical Vacuum Glass Dispenser 10L-50L

Spherical Vacuum Glass Dispenser 10L-50L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/spherical-vacuum-glass-dispenser-10l-50l-2/>

Spherical Vacuum Glass Dispenser 10L-50L

Spherical Vacuum Glass Dispenser 10L-50L for laboratory and pilot-scale process equipment applications.

<https://www.unionclay.com/product/spherical-vacuum-glass-dispenser-10l-50l/>

Vacuum Pump

2 products in this range • <https://www.unionclay.com/product-category/vacuum-pump/>

Circulating Water Vacuum Pump

Model	SHZ-D(III)
Power	180 W
Flow rate	60 L/min
Single tap pumping speed	10 L/min
Voltage	220 V

<https://www.unionclay.com/product/circulating-water-vacuum-pump/>

Circulating Water Vacuum Pump for 5L and Above Equipment

Model	SHZ-95B
Flow rate	80 L/min
Suction capacity	10 L/min per tap; 50 L/min total
Maximum vacuum	0.098 MPa
Voltage	220 V or 110 V

<https://www.unionclay.com/product/circulating-water-vacuum-pump-for-5l-and-above-equipment/>

Distillation Equipment

1 product in this range • <https://www.unionclay.com/product-category/distillation-equipment/>

Molecular Distillation Equipment	
Product type	Molecular / short-path distillation equipment
Process role	Vacuum distillation, separation, purification and concentration
Typical structure	Evaporator, condenser, receiving system and vacuum support selected by process
Application materials	Heat-sensitive or high-boiling-point materials requiring gentle separation
Available basis	Customer image folder plus reference link; final technical sheet should be confirmed https://www.unionclay.com/product/molecular-distillation-equipment/

Request a Quote

UnionClay supplies laboratory reactors, recirculating chillers, heating and cooling circulators, rotary evaporators, fermentation tanks and supporting vacuum equipment. Every system is quoted against your specific process requirements.

How to request a quote

1. Pick the model or product family in this catalog and note the page URL.
2. Tell us your working volume or capacity, target temperature range and voltage.
3. Describe the medium or process step the equipment will run.
4. Mention any certification, documentation or export packaging requirements.
5. Send the details by email or WhatsApp - we reply with a model recommendation and quotation.

Website	www.unionclay.com
Email	info@unionclay.com
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Contact form	www.unionclay.com/contact-us/