

12 Chemtron Reaction Solutions





Bench Top Glass Reactors

All-in-one series

Chemtron reactor kits are selected by volume and comprise the basic components required for startup. For a complete application solution Chemtron is proud to offer a full range of glassware, accessories, and temperature control equipment to compliment our reactor kits.

Reactor kits include the following components:

- > Support Stand
- > Vessel with JRS Valve™
- > Shaft and agitator(s)
- > Bearing
- > Lid with clamp and o-ring
- > Overhead stirrer with shaft couplings
- > Spiral Condenser
- > Jacket adapters
- > RTD probe adapter



Specifications

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Model		BTG250	BTG500	BTG1000	BTG2000	BTG5000
	Material	Borosilicate glass				
	Volume	250ml	500ml	1000ml	2000ml	5000ml
Reaction vessel	Flange	60mm	100mm	100mm	100mm	150mm
	Bottom valve	Temperature range:	-80~200℃,10mm and	20mm are optional		
	Jacket connection	DN15	DN15	DN15	DN15	DN15
	Material	Borosilicate glass				
	Ports (total)	5	5	5	5	5
Lid	Center port	24/40(1)	24/40(1)	24/40(1)	24/40(1)	24/40(1)
	Side port	14/20(3)	24/40(3)	24/40(3)	24/40(3)	24/40(3)
	Addition port	24/40(1)	GL45(1)	GL45(1)	GL45(1)	GL45(1)
O-ring	PTFE, 60mm	PTFE,100mm	PTFE,100mm	PTFE,100mm	PTFE,100mm	PTFE,150mm
Stirrer	Stirring speed range	20~2000rpm				
Stiller	Bearing	PTFE stirring bearing]			
A - -	Volume	60ml	125ml	125ml	125ml	500ml
Addition Funnel	Port	24/40	24/40	24/40	24/40	24/40
Candanaar	Length	300mm	300mm	300mm	300mm	300mm
Condenser	Port	24/40	24/40	24/40	24/40	24/40
Receiving Vessel	Volume	50ml	200ml	500ml	500ml	500ml
Multi channel regulating valve	Optional	Optional	Optional	Optional	Optional	Optional
Stand	Smart supporting struc	ture				
Spill containment tray	Included	Included	Included	Included	Included	Included

- 1. Single-layer reactor, double-jacket reactor are also avalible
- 2. JULABO temperature contorl system is recommended
- 3. WIGGENS auto reaction system is recommended (ReacTROL)

Large Scale Glass Reactors

EasyChem series

10L, 20L, 30L, 50L and 100L EasyChem reactor. Designed for maximum diversity and ease of use, we have developed a simple base system building platform which allows any reactor system to be customized using catalog or custom designed parts. Each base system comes with the basic starting components required. Simply select the motor and accessories needed to complete the design. For customized components or application design, contact our technical department for further assistance.

- 1. Select the base system dependent on desired working volume.
- 2. Select the motor that best suits your application.
- 3. Select the components and accessories which best fit your application.



Specifications

Bottom valive DNSO, dead volume DNSO, de	Vlodel		SPG10	SPG20	SPG30	SPG50	SPG51	SPG100
Flange DN200 DN300 DN300 DN300 DN300 DN400 DN4		Material	Borosilicate glas	S				
Bottom valve DN50, dead volume DN50, dea		Volume	10L	20L	30L	50L	50L	100L
Jacket connection DN15(2) N25(2)	Reaction vessels	Flange	DN200	DN300	DN300	DN300	DN400	DN400
Material Borosilicate glass Security		Bottom valve	DN50, dead vol	ume				
Ports (total) 5 8 8 8 8 8 8 8 8 8		Jacket connection	DN15(2)	N25(2)	N25(2)	N25(2)	N25(2)	N25(2)
Center port 45/50		Material	Borosilicate glas	S				
Addition port 60mm 100mm 45/50(4) 45/50 DN402 DN402 DN402 DN402 DN400		Ports (total)	5	8	8	8	8	8
Addition port 60mm 100mm	tul.	Center port	45/50	45/50	45/50	45/50	45/50	45/50
Side port	.IOS	Addition port	60mm	100mm	100mm	100mm	100mm	100mm
Material PTFE PTF		C:-l	45/50(3)	45/50(4)	45/50(4)	45/50(4)	45/50(4)	45/50(4)
Diameter DN200 DN300 DN300 DN300 DN400 D		Side port		29/42(2)	29/42(2)	29/42(2)	29/42(2)	29/42(2)
Diameter DN200 DN300 DN300 DN300 DN300 DN400 DN4000 DN400 DN400 DN400 DN400 DN400 DN4000 DN400 DN400 DN4000 DN400 DN4000 DN400 DN4000 DN40000 DN40000 DN40000 DN4000 DN4000 DN40000 DN40000 DN40000 DN40000 DN40000)!	Material	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
Note Part Sturing Part Sturing Dearing Part Sturing Dearing Dearing Sturing Dearing Dearin	o-rings	Diameter	DN200	DN300	DN300	DN300	DN400	DN400
Note Part	*!	Stirring speed range	20~1800rpm					
Port 29/42 29/42 29/42 45/50	burrers	Bearing	PTFE stirring bea	aring				
Port 29/42 29/42 29/42 45/50	Addition Funnals	Volume	2L	2L	2L	5L	5L	5L
Port 45/50 4	Addition Funnels	Port	29/42	29/42	29/42	45/50	45/50	45/50
Port 45/50 4	Candansars	Cooling surface	1400cm ²					
Multi channel regulating valve Optional	Condensers	Port	45/50	45/50	45/50	45/50	45/50	45/50
Stand Smart supporting structure	Receiving Vessel	Volume	2L	2L	2L	5L	5L	5L
	Multi channel regulating valve	Optional	Optional	Optional	Optional	Optional	Optional	Optional
pill containment tray Included	itand	Smart supporting stru	ucture					
	Spill containment tray	Included	Included	Included	Included	Included	Included	Included

2. WIGGENS auto reaction system is recommended (ReacTROL)



Large Scale Glass Reactors

Plus series

Pilot plant for high performance applications scaling up to the kilolab

- > Wiggens offers a wide range of pilot plants for research and production, the system are modular, flexible, user-friendly and can be integrated anytime with various accessories.
- > Easily configurable range of pilot plant from 10L to 100L of total volume.
- > Wiggens unique open air, auto-centered frame made of AISI 316 stainless steel allow the expansion of the basic configuration.

Reactor kits include the following components:



Specifications

specifications									
Model		PPG10	PPG20	PPG30	PPG50	PPG51	PPG52	PPG100	PPG102
	Material	Borosilicate glass							
	Volume	10L	20L	30L	50L	50L	50L	100L	100L
Reaction vessels	Flange	DN300	DN300	DN300	DN300	DN400	DN450	DN400	DN450
	Bottom valve	DN50, dead volume							
	Jacket connection	DN25(2)							
	Material	Borosilicate glass							
	Ports (total)	7	7	7	7	7	7	7	7
	Center port	DN50	DN50	DN50	DN50	DN50	DN50	DN50	DN50
Lids	Addition port	DN80	DN80	DN80	DN80	DN80	DN80	DN80	DN80
	Condenser port	DN50	DN50	DN50	DN80	DN80	DN80	DN80	DN80
	Cida nart	DN40(3)	DN40(3)	DN40(3)	DN40(3)	DN40(3)	DN40(3)	DN40(3)	DN40(3)
	Side port	DN25	DN25	DN25	DN25	DN25	DN25	DN25	DN25
n rings	Material	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE	PTFE
O-rings	Diameter	DN300	DN300	DN300	DN300	DN400	DN450	DN400	DN450
7+1	Stirring speed range	20~1800rpm							
Stirrers	Bearing	PTFE stirring bearing	9						
Addition Funnels	Volume	5L	5L	5L	10L	10L	10L	10L	10L
CI	Cooling surface	0.6m ²	0.6m ²	0.6m ²	0.75m ²				
Condensers	Port	DN50	DN50	DN50	DN80	DN80	DN80	DN80	DN80
Receiving Vessel	Volume	2L	2L	2L	5L	5L	5L	5L	5L
Multi channel regulating valve	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Stand	Smart supporting str	ucture							
Spill containment tray	Included	Included	Included	Included	Included	Included	Included	ncluded	Included
1. JULABO temperature contorl s	ystem is recommended								

- 2. WIGGENS auto reaction system is recommended (ReacTROL)

S.S. High Pressure Reactors

CR-300 | CR-500 | CR-1000 | CR-2000 (Up to 100bar)

This high-pressure reactor is ideally suitable for universal experimental runs. This highpressure reactor is available in stainless steel with or with bottom outlet. The usable volume of the reactor can be varied between 300 ml and 2,000 ml using different reactor

The CR-300/500/1000/2000 high-pressure reactor is notable for its ease of handling. The reactor is closed using a manual guick closure that can be attached without the use of tools. The reactor seal is established using a conical flange lock and O-ring seal of PTFE, FKM, or FFKM. The appropriate fitting inserts are available in stainless steel. A total of 6 connection options are provided in the lid, which can be selected from the following:

- > Immersion tube for temperature probes
- > Rupture disc of metal for the safe limitation of maximum pressure
- > Pressure display
- > Vent valve
- > 2 Freely selectable fittings, for example for a gas sampling valve or liquid sampling

Temperature is regulated using a temperature probe which detects the inner temperature of the reactor in an immersion tube. A second temperature probe can optionally be used as an independent overheating safety. Appropriate stand systems are available.

Features

- > 300, 500, 1000 or 2000 ml / 60 bar / 300°C
- > Quick closure chain, to be operated manually without tools
- > O-seal ring made of Viton®, PTFE or Kalrez®
- > Completely made of SUS 316L
- > Heating by elctrical or thermostated mantle
- > Stiring by magnetic clutch and separate drive
- > Optionally internal heating/cooling coil
- > Optionally 2'nd thermocouple





CR-300 / 500

		CR-300	CR-500	CR-1000	CR-2000
Temperature max.		300°C	300℃	300℃	300℃
Pressure max.		100 bar	100 bar	100 bar	100 bar
	Volume	approx. 300 ml	approx. 500 ml	approx. 1,000 ml	approx. 2,000 ml
	Inner Diameter	68 mm	68 mm	90 mm	90mm
Reactor Vessel	Inner Height	108 mm	175 mm	193 mm	352 mm
	Weight	approx 4 kg	approx 6 kg	approx 11 kg	approx. 16 kg
	Bottom Drain Valve	with bottom drain valve	with bottom drain valve	with bottom drain valve	with bottom drain valve
	Standard Armatures		Rupture Disc, [Pip Tube, Valve, Tool	
	Pressure Measurement		analog a	nd/or digital	
Armatures	Ports (total)	7	7	7	7
	Ports (free)	3	3	3	3
	Type of connection	8 mm Tube Connection	8 mm Tube Connection	8 mm Tube Connection	8 mm Tube Connection
	Via Fluid	with jacket	with jacket	with jacket	with jacket
Heating Systems	Via Fluid (Heating Coil, optional)	Heating coil	Heating coil	Heating coil	Heating coil
Stirring		WB20C and RV 100-SS	WB20C and RV 100-SS	WB20C and RV 100-SS	WB20C and RV 100-SS
Stand		Electric bench-top stand	Electric bench-top stand	Electric lifting stand	Electric lifting stand



S.S. Low Pressure Reactor

$NR-500 \mid NR-1000 \mid NR-2000$ (Up to 25bar)

This low-pressure reactor is ideally suitable for larger experimental runs. This low-pressure reactor is available in stainless steel, Hastelloy, or with PTFE lining on all sides. The usable volume of the reactor can be varied between 500ml, 1,000ml and 2,000 ml using different reactor vessels.

The NR-500/1000/2000 low-pressure reactor is notable for its ease of handling. The reactor is closed using a manual quick closure that can be attached without the use of tools. The reactor seal is established using a conical flange lock and O-ring seal of PTFE, FKM, or FFKM. The appropriate fitting inserts are available in stainless steel or Hastelloy. A total of 7 connection options are provided in the lid, which can be selected from the following:

- > Gas sampling
- > Rupture disc of metal for the safe limitation of maximum pressure
- > Pressure display
- > Vent valve
- > Dip-tube liquid sampling
- > Thermocouple with dip-tube
- > Exhaust hose

Temperature is regulated using a temperature probe which detects the inner temperature of the reactor in an immersion tube. A second temperature probe can optionally be used as an independent overheating safety. Appropriate stand systems are available.

Features

- $>\,$ 500,1000 or 2000 ml / 25 bar / 300 $^{\circ}\text{C}$ (PTFE-Lined 230 $^{\circ}$ $\,$)
- > With or without bottom drain valve
- > Quick closure chain, to be operated manually without tools
- > O-seal ring made of Viton®, PTFE or Kalrez®
- $> \,$ Either with PTFE-insert or completely made of SUS 316L or Hastelloy $^{\otimes}$
- > Heating by elctrical or thermostated mantle
- > Stiring by magnetic clutch and separate drive
- > Optionally internal heating/cooling coil



		NR-500	NR-1000	NR-2000			
	Material	Stainless Steel or Hastelloy					
Performance and Material	Temperature max.	300℃	300℃	300℃			
	Pressure max.	25 bar	25 bar	25 bar			
	Volume	approx. 500 ml	approx. 1,000 ml	approx. 2,000 ml			
	Inner Diameter	83 mm	96 mm	127 mm			
Reactor Vessel	Inner Height	80 mm	120 mm	150 mm			
	Weight	approx 3.7 kg	approx 5.7 kg	approx. 8.1 kg			
	Bottom Drain Valve	V	V	V			
FMTM-PTFE Insert		optional	optional	optional			
	Standard Armatures	Rupture Disc, Dip Tube, Valve, Tool					
	Pressure Measurement	analog and/or digital					
Armatures	Ports (total)	7	7	7			
	Ports (free)	3	3	3			
	Type of connection	8 mm Tube Connection	8 mm Tube Connection	8 mm Tube Connection			
l - 4' C - 4	Via Fluid	with jacket	with jacket	with jacket			
leating Systems	Via Fluid (Heating Coil, optional)	Heating coil	Heating coil	Heating coil			
tirring		WB20C and RV 100-SS	WB20C and RV 100-SS	WB20C and RV 100-SS			
Stand		Electric bench-top stand (M1 and M2) Electric lifting stand (M3)	Electric bench-top stand (M1 and M2) Electric lifting stand (M3)	Electric bench-top stand (M1 and M2 Electric lifting stand (M3)			

S.S. Low Pressure Reactor

$NR-5L \mid NR-10L$ (Up to 25bar)

This low-pressure reactor is ideally suitable for larger experimental runs. This low-pressure reactor is available in stainless stee, Hastelloy, or with PTFE lining on all sides. The usable volume of the reactor can be varied between 5L and 10L using different reactor vessels.

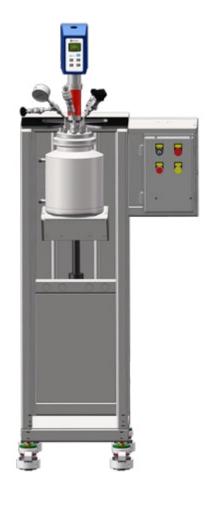
The NR-5L/10L low-pressure reactor is notable for its ease of handling. The reactor is closed using a manual quick closure that can be attached without the use of tools. The reactor seal is established using a conical flange lock and O-ring seal of PTFE, FKM, or FFKM. The appropriate fitting inserts are available in stainless steel or Hastelloy. A total of 7 connection options are provided in the lid, which can be selected from the following:

- > Gas sampling
- > Rupture disc of metal for the safe limitation of maximum pressure
- > Pressure display
- > Vent valve
- > Dip-tube liquid sampling
- > Thermocouple with dip-tube
- > Exhaust hose

Temperature is regulated using a temperature probe which detects the inner temperature of the reactor in an immersion tube. A second temperature probe can optionally be used as an independent overheating safety. Appropriate stand systems are available.

Features

- > 5L or 10L / 25 bar / 300°C (PTFE-Lined 230°)
- > With or without bottom drain valve
- > Quick closure chain, to be operated manually without tools
- $>\,$ O-seal ring made of Viton $^{\rm @}$, PTFE or Kalrez $^{\rm @}$
- $>\,$ Either with PTFE-insert or completely made of SUS 316L or Hastelloy $^{\otimes}$
- > Heating by elctrical or thermostated mantle
- > Stiring by magnetic clutch and separate drive
- > Optionally internal heating/cooling coil



·					
		NR-5L	NR-10L		
	Material	Stainless Steel or Hastelloy			
Performance and Material	Temperature max.	300℃	300℃		
	Pressure max.	25 bar	25 bar		
	Volumen	approx. 5000 ml	approx.10L		
	Innendurchmesser	195 mm	195 mm		
Reactor Vessel	Innenhöhe	239 mm	394 mm		
	Gewicht	approx. 16,4 kg	approx. 20 kg		
	Bodenablassventil	\checkmark	\checkmark		
TFMTM-PTFE Insert		optional	optional		
	Standard Armatures	Rupture Disc, Dip Tu	be, Valve, Tool		
	Pressure Measurement	analog and/o	r digital		
Armatures	Ports (total)	8	8		
	Ports (free)	4	4		
	Type of connection	8 mm Tube Connection	8 mm Tube Connection		
Llasting Cystems/antional	Via Fluid	with jacket	with jacket		
Heating Systems(optional)	Via Fluid (Heating Coil, optional)	Heating coil	Heating coil		
Ctirrina	RV-100	WB18D and RV 100-SS	WB18D and RV 100-SS		
Stirring	RV-400	WB18D and RV 400-SS	WB18D and RV 400-SS		
Stand		Electric lifting stand	Electric lifting stand		



S.S. Low Pressure Reactor

NR-20L | NR-30L | NR-50L (Up to 25bar)

This low-pressure reactor is ideally suitable for larger experimental runs. This low-pressure reactor is available in stainless steel. The usable volume of the reactor can be varied 20L, 30L and 50L using different reactor vessels.

The NR-20L/30L/50L low-pressure reactor is notable for its ease of handling. The reactor is closed using a quick closure. The reactor seal is established using a conical flange lock and O-ring seal of PTFE, FKM, or FFKM. The appropriate fitting inserts are available in stainless steel. A total of 7 connection options are provided in the lid, which can be selected from the following:

- > Gas sampling
- > Rupture disc of metal for the safe limitation of maximum pressure
- > Pressure display
- > Vent valve
- > Dip-tube liquid sampling
- > Thermocouple with dip-tube
- > Exhaust hose

Temperature is regulated using a temperature probe which detects the inner temperature of the reactor in an immersion tube. A second temperature probe can optionally be used as an independent overheating safety. Appropriate stand systems are available.



Features

- > 20L,30L or 50L / 20 bar / 250 $^{\circ}$ C
- > With bottom drain valve
- > Quick closure chain
- > O-seal ring made of Viton®, PTFE or Kalrez®
- > Temperature controlled by heating and cooling circulators from JULABO
- > Stiring by magnetic clutch and separate drive

		NR-20L	NR-30L	NR-50L
	Material		Stainless Steel	
Performance and Material	Temperature max.	250℃	250℃	250℃
	Pressure max.	20bar	20bar	20bar
	Volume	20L	30L	50L
	Inner diameter	250mm	312mm	265mm
	Inner height	557mm	550mm	737mm
Reactor vessel	Bottom drain valve	$\sqrt{}$	$\sqrt{}$	V
	With jacket	$\sqrt{}$	\checkmark	\checkmark
	Max. pressure on jacket	3bar	3bar	3bar
	Volume of jacket	≈5.3L	≈15.8L	≈20.0L
Seal ring	Viton	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
	Standard armatures	Rupture o	disc., Pressure gauge, Pt-sensor and ga	as valve
Aumonturas	Pressure measurement	Analog and/or Digital		
Armatures	Ports (total)	7	7	7
	Type of connection	8mm tube connection		
Heating Systems	Double jacket (JULABO unit)	\vee	V	V
Strring (Magnetic clutch)	RV-400	√	\checkmark	√

^{*} The number of free ports can be enlarged by the use of T-connections

^{**} When using PTFE inserts the maximum allowable temperature is 230 $^{\circ}\text{C}$

S.S. Reactor

$VR-500 \mid VR-1000 \mid VR-2000 \mid VR-5000 \ \ (\text{-1}\sim\text{5bar})$

Bench top reactors are ideally suitable for small experimental runs. This series reactor is available in stainless steel, with or without jacket, The usable volume of the reactor can be varied between 500 ml and 5,000 ml using different reactor vessels.

The VR-500/1000/2000/5000 reactor are notable for its ease of handling. The reactor is closed using a manual quick closure. The reactor seal is established using a conical flange lock and O-ring seal of PTFE, FKM, or FFKM. The appropriate fitting inserts are available in stainless steel. A total of 5 connection options are provided in the lid from VR-500 to VR-2000, VR-5000 has 7 connecting options.





Features

- > 500, 1000, 2000 or 5000 ml / 5 bar / 200°C
- > With or without jacket, with or withour bottom outlet
- > Quick closure chain design
- > O-seal ring made of PTFE,Viton or FFKM
- > Heating by elctrical or thermostated mantle
- > Stiring by overhead stirrer
- > Optionally internal heating/cooling coil



Model		VR-500	VR-1000	VR-2000	VR-5000			
	Material	316L S.S.	316L S.S.	316L S.S.	316L S.S.			
Performance and Material	Max. Temperature	300℃	300℃	300℃	300℃			
	Max. Pressure	≤5bar	≤5bar	≤5bar	≤5bar			
	Volume	500ml	1000ml	2000ml	5000ml			
Indicated useral	Flange	DN89	DN102	DN133	DN153			
Jacketed vessel	Inner Dia.	83mm	96mm	127mm	147mm			
	Inner Height	80mm	120mm	150mm	280mm			
O rin a	Material	PTFE (Viton, FFKM fo	PTFE (Viton, FFKM for optional)					
O-ring	Size	89mm	102mm	133mm	153mm			
	Flange	DN89	DN102	DN133	DN153			
Lids	Center Ports	M38X2	M38X2	M38X2	M38X1.5			
	Other ports	1/4" and 1/2" NPT						
Heating unit (Optional)	JULABO unit	Yes						
	Type of sealling	Double mechanical se	Double mechanical seal					
Stir	Motor	Overhead stirring mot	Overhead stirring motor					
	Speed	20~1800rpm(Other model for optional)						
	Туре	SS Frame	SS Frame					
	Size	600*360/700mm(L*V	V*H)					
	Liquid receiving tray	Stainless steel						



Large Scale S.S. Reactors

$VR\text{-}10L \mid VR\text{-}20L \mid VR\text{-}30L \mid VR\text{-}50L \quad (\text{-}1\sim\text{5bar})$

Pilot Plant are ideally suitable for big volume experimental runs. This series reactor is available in stainless steel, with or without jacket, The usable volume of the reactor can be varied between 10L and 50L using different reactor vessels.

The VR-10L/20L/30L/50L reactor are notable for its ease of handling. The reactor is closed using a manual quick closure. The reactor seal is established using a conical flange lock and O-ring seal of PTFE, Silicon or Viton. The appropriate fitting inserts are available in stainless steel. A total of 7 connection options are provided in the lid from VR-10L to VR-50L



Features

- > 10, 20, 30 or 50L / 5 bar / 200℃
- > The vessel with jacket and bottom outlet
- > Strong device is used to fix the reaction vessel and lid
- > O-seal ring made of PTFE, Silicon or Viton
- > Temperature control by heating and cooling circulator, such as JULABO unit
- > Stiring by overhead stirrer
- > Optionally internal heating/cooling coil
- > With distillation unit and Receiver





Model		VR-10L	VR-20L	VR-30L	VR-50L			
	Material	316L S.S.	316L S.S.	316L S.S.	316L S.S.			
Performance and Material	Max. Temperature	300℃	300℃	300℃	300℃			
	Max. Pressure	≤5bar	≤5bar	≤5bar	≤5bar			
	Volume	10L	20L	30L	50L			
In alleste allesses all	Inner Dia.	250mm	300mm	350mm	400mm			
lacketed vessel	Inner Height	250mm	300mm	300mm	350mm			
	Thickness	4mm	4mm	4mm	4mm			
	Material	PTFE (Viton, FFKM for optional)						
O-ring	Size	283mm	333mm	383mm	433mm			
	O.D.	300mm	350mm	400mm	450mm			
ids	I.D.	250mm	300mm	350mm	400mm			
	Thickness	28mm	28mm	28mm	28mm			
Heating unit (Optional)	JULABO unit	Yes						
	Type of sealling	Double mechanical seal						
Stir	Motor	Overhead stirring motor						
	Speed	20~1800rpm(Other mode	el for optional)					
Frame	Туре	SS Frame						
	Liquid receiving tray	Stainless steel						



Chemtron Reaction Solutions

ReacTROL III

Powerful and extensible PLC system

- $>\,$ The system can provide independent Power to all equipment in the system and has security protection function
- > Integrated Siemens PLC technology, with high quality, stable and reliable.
- > Integrated Auto-Reactor (Industrial) V2.0 software
- Animated and intuitive main interface, easy operation, real-time monitoring
- Curve interface (Real-time curve interface, and history curves can be called from database)
- Programming control interface, save and invoke a set of parameters, Easy to carry out repetitive experiments, parameter optimization experiments and parallel experiments.
- System Parameter Settings Interface, includes Setting and calibration of system and equipment parameters, Data Corresponding Settings
- Data recording and storage, Ability to customize fileDescription and data acquisition frequency(.csv format)

Doumentation:

- In compliance with FDA and GMP directives
- Operating manual
- P&ID
- Layout drawing
- FAT.SAT.IO/OO
- ATEX certification
- CE/GMP certification
- CIP certification

Safety features

- Rupture disc
- Relief valve
- Safety valve
- Emergency discharge
- Solvent dilution
- ATEX Version

Mode of communication:

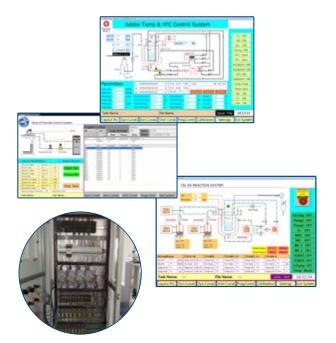
- Ethernet interface
- Modbus
- RS-485
- RS-232
- Analog

Instruments and parameters include:

- Temperature of the TCU
- Temperature of the sample in reactor
- Stirring speed
- Vacuum
- Pressure
- pH / DO
- liquid dosing pump
- loading balance
- Turbidity
- Various electronic valves



ATEX Version







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