

Ablaze Export Pvt. Ltd.

PRODUCT CATALOG

Advance Glass Reactor System

Various Size 10,20,30,50,75,100 L



www.ablazeexport.com



Advanced Glass Pilot Reactor

Horizontal Condenser

Graduated feeding Flask Include to Valve on top with 25 GL threaded Cap in Center with bottom Valve with GL18 threaded with Flask Clamping to Frame, Connecting piping to dip pipe and lid by PTFE Tubing.

Electrical Motor, Air motor, Lab Motor OHS

Vapor line with reflux head Included horizontal coil condenser with hose connector vent valve for fume and connector for Condenser inlet and outlet for cooling.

Reaction vessel Graduated with glass lid transparent glass for visual check during reaction , jacketed vessel easy to connect the temperature control unit , large lid allows the presence of multiple nozzle.

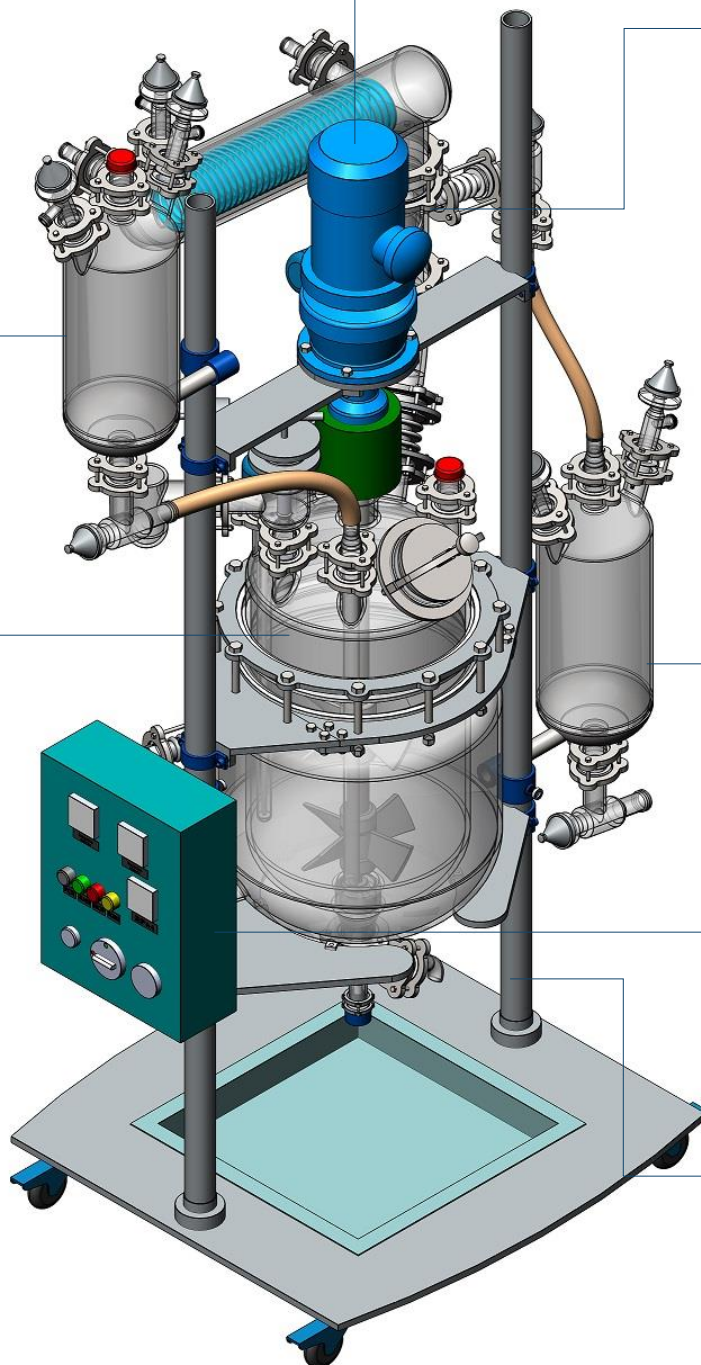
Agitator available in various MOC like SS304/SS316/ Hastelloy / with PTFE Sleeve in Propeller, Impeller, Anchor blade for Homogeneous liquid agitation. It can work continues without any damage long lasting system without breakage due to turbulences for high viscous liquids agitation.

Zero Holdup Valve for complete remover the material inside the reactor. Special design valve with sensor allow to minimum temperature sensing

Graduated Collecting Flask with tow valve GL 18 threaded Connection Center nozzle connecting with Reflux head via PTFE Tubing, Including discharge valve with flask clamping to Frame.

Control Panel with Stainless Steel Frame with RPM speed controller included two-point temperature display with PT100 temperature probe.

Compact stainless steel structure frame allow to installation vessel easily with spill tray. Included moveable wheel design according to vessel size.



Complete reactor system auto-center frame.
Economical overhead stirring system and
Industrial connections.

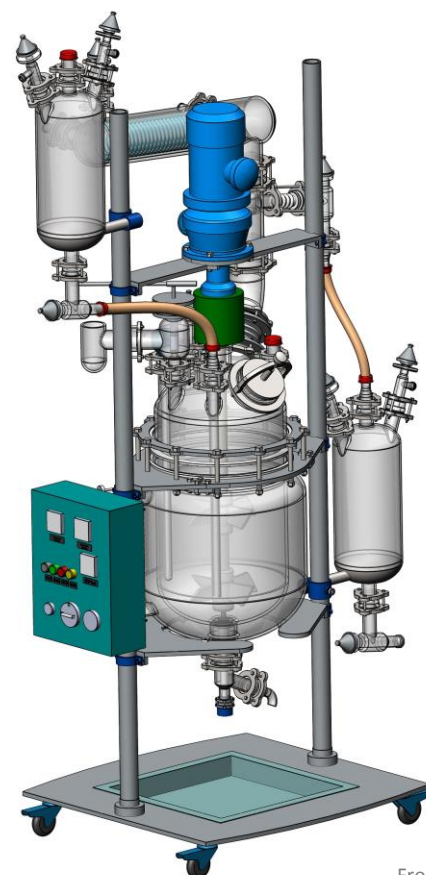
- ✓ Atex version available upon request
- ✓ Pneumatic motor upon request

10L Advanced Glass Pilot Reactor

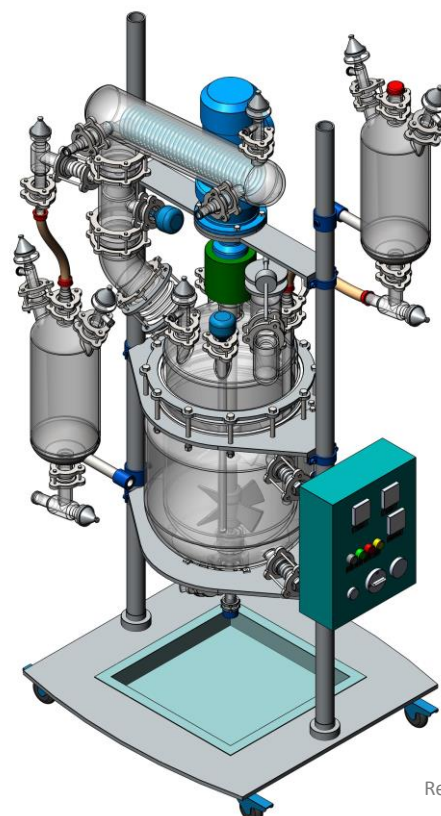
Horizontal Condenser

Ordering Details

No.	Base Code	DESCRIPTION
	AEUD0L010215	10 LTR JACKETED UNIT (LAB + HYBRID)
	AEUD0E010215	10 LTR JACKETED UNIT (ELECTRICAL MOTOR + HYBRID)
	AEUD0N010215	10 LTR JACKETED UNIT (PNEUMATIC MOTOR + HYBRID)
1	AEBD0R010215	10 LTRS. JACKETED VESSEL (GRADUATED)
2	AEAV0R050040	ZERO HOLD GLASS/PTFE FLUSH VALVE DN50/40
	AEAV1R050040	ZERO HOLD GLASS/PTFE FLUSH VALVE DN50/40 WITH SENSOR
3	AEBL0R007215	DN215 VESSEL COVER WITH 7 NOZZLES:
	AEBL1R007215	DN215 VESSEL COVER WITH 7 NOZZLES (B45):
A	N1	- DN50/B45 FOR AGITATOR & MOTOR
B	N2	- DN80 WITH QUICK RELEASE FIXTURE FOR SOLID CHARGING
C	N3	- DN25 FOR TEMPERATURE SENSOR (PT100)
D	N4	- DN50 FOR VAPOUR LINE
E	N5	- DN25 SPARE PORT
F	N6	- DN25 FOR DIP PIPE
G	N7	- DN40 FOR PRESSURE SAFTY VALVE
4	AEBB0O080050	PIPE BEND DN80/50
5	AEBR0O080000	DN80 REFLUX SEPARATOR
6	AETS0R000000	TEMPERATURE SENSOR - PT100,
7	AETS0B050000	DN50 LINE SHOCK ABSORBER
8	AETS0B025000	DN25 LINE SHOCK ABSORBER
9	AEBV0AC05100	GRADUATED VESSEL - 5 LTRS.
10	AEBC0C020080	80° SLANTED COIL CONDENSER - 0.2 m ²
11	AEMPOS040000	PRESSURE SAFETY VALVE DN40
12	AEMX0S000000	OVERHEAD STIRRER WITH HIGH TORQUE X
A	X → E	ELECTRICAL
B	X → N	PNEUMATIC
C	X → L	HIGH SPEED LAB STIRRER DRIVE
D	X → M	HIGH SPEED MAGNETIC STIRRER DRIVE
13	AETX0S010000	AGITATOR SHAFT FOR 10 LTRS. X
A	X → A	ANCHOR
B	X → P	PROPELLER
C	X → I	IMPELLER
D	X → H	HYBRID (ANCHOR + PROPELLER)
14	AEMS0S010000	STAINLESS STEEL SCAFFOLD FOR 10 LTRS. ASSEMBLY
15	AETT0D007000	FLEXIBLE PTFE TUBE
16	AERN0H000000	BOLA HOSE CONNECTOR
17	AEOX0S000000	SEALING ARRANGEMENT X
A	X → S	DRY MECHANICAL SEAL
B	X → D	DOUBLE MECHANICAL SEAL
C	X → C	COWIE SEAL
D	X → M	MAGNETIC SEAL



Front View



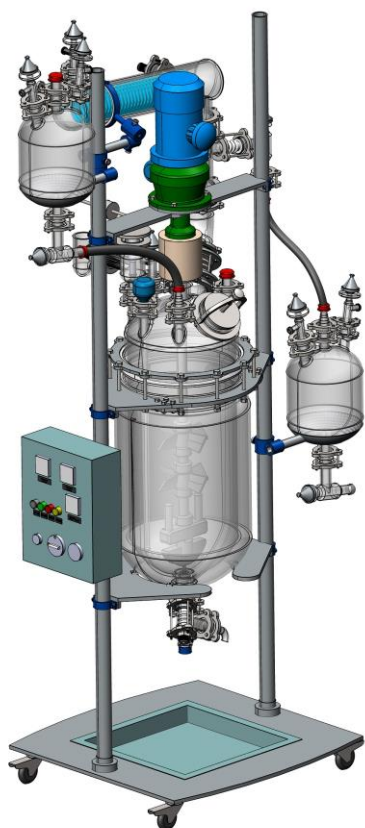
Rear View

The reactor system is frequently used in R&D and kilo plant production application. The unique features of borosilicate glass 3.3, which combine process visibility, purity, and corrosion resistance & inheritance, are one of the reasons for its extensive use.

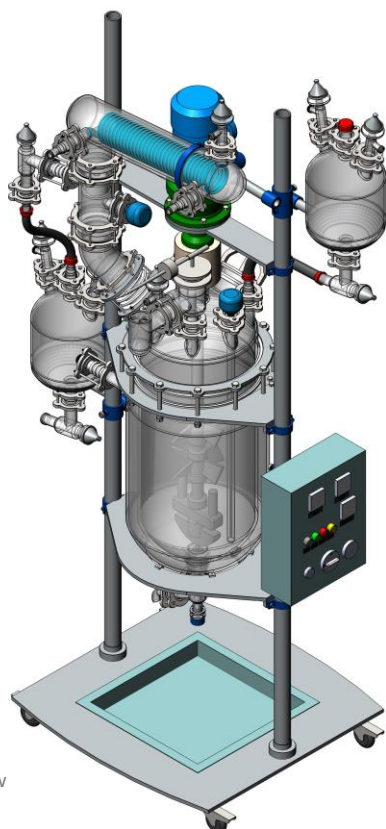
20L Advanced Glass Pilot Reactor

Horizontal Condenser

Ordering Details



Front View



Rear View

No.	Base Code	DESCRIPTION
	AEUD0L020300	20 LTR JACKETED UNIT (LAB + HYBRID)
	AEUD0E020300	20 LTR JACKETED UNIT (ELECTRICAL MOTOR + HYBRID)
	AEUD0N020300	20 LTR JACKETED UNIT (PNEUMATIC MOTOR + HYBRID)
1	AEBD0R020300	20 LTRS. JACKETED VESSEL (GRADUATED)
	AEAV1R050040	ZERO HOLD GLASS/PTFE FLUSH VALVE DN50/40 WITH SENSOR
2	AEAV0R050040	ZERO HOLD GLASS/PTFE FLUSH VALVE DN50/40
3	AEBL0R007300	DN300 VESSEL COVER WITH 7 NOZZLES:
	AEBL1R007300	DN300 VESSEL COVER WITH 7 NOZZLES (B45):
A	N1	- DN50/B45 FOR AGITATOR & MOTOR
B	N2	- DN80 WITH QUICK RELEASE FIXTURE FOR SOLID CHARGING
C	N3	- DN25 FOR TEMPERATURE SENSOR (PT100)
D	N4	- DN80 FOR VAPOUR LINE
E	N5	- DN25 SPARE PORT
F	N6	- DN25 FOR DIP PIPE
G	N7	- DN40 FOR PRESSURE SAFTY VALVE
4	AEBB0O080080	PIPE BEND DN80
5	AEBR0O080000	DN80 REFLUX SEPARATOR
6	AETS0R000000	TEMPERATURE SENSOR - PT100,
7	AETS0B080000	DN80 LINE SHOCK ABSORBER
8	AETS0B025000	DN25 LINE SHOCK ABSORBER
9	AEBV0AC10150	GRADUATED VESSEL - 10 LTRS.
10	AEB0C0C35080	80° SLANTED COIL CONDENSER - 0.35 m ²
11	AEMP0S040000	PRESSURE SAFETY VALVE DN40
12	AEMX0S000000	OVERHEAD STIRRER WITH HIGH TORQUE X
A	X → E	ELECTRICAL
B	X → N	PNEUMATIC
C	X → L	HIGH SPEED LAB STIRRER DRIVE
D	X → M	HIGH SPEED MAGNETIC STIRRER DRIVE
13	AETX0S020000	AGITATOR SHAFT FOR 20 LTRS. X
A	X → A	ANCHOR
B	X → P	PROPELLER
C	X → I	IMPELLER
D	X → H	HYBRID (ANCHOR + PROPELLER)
14	AEMS0S020000	STAINLESS STEEL SCAFFOLD FOR 20 LTRS. ASSEMBLY
15	AETT0D007000	FLEXIBLE PTFE TUBE
16	AERN0H000000	BOLA HOSE CONNECTOR
17	AEOX0S000000	SEALING ARRANGEMENT X
A	X → S	DRY MECHANICAL SEAL
B	X → D	DOUBLE MECHANICAL SEAL
C	X → C	COWIE SEAL
D	X → M	MAGNETIC SEAL

Temperature probes encapsulated in pure PTFE allows quicker temperature reading when compared to sensor place on lid. Product temperature can also be controlled with very low-level liquid, No risk of glass sensor breakage due to accidental impacts with solid suspensions.

30L Advanced Glass Pilot Reactor

Horizontal Condenser

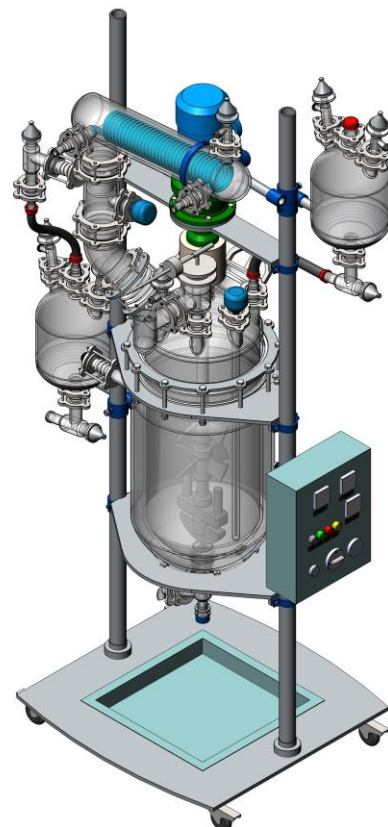
Ordering Details

No.	Base Code	DESCRIPTION
	AEUD0L030300	30 LTR JACKETED UNIT (LAB + HYBRID)
	AEUD0E030300	30 LTR JACKETED UNIT (ELECTRICAL MOTOR + HYBRID)
	AEUD0N030300	30 LTR JACKETED UNIT (PNEUMATIC MOTOR + HYBRID)
1	AEBD0R030300	30 LTRS. JACKETED VESSEL (GRADUATED)
	AEAV1R050040	ZERO HOLD GLASS/PTFE FLUSH VALVE DN50/40 WITH SENSOR
2	AEAV0R050040	ZERO HOLD GLASS/PTFE FLUSH VALVE DN50/40
3	AEBL0R007300	DN300 VESSEL COVER WITH 7 NOZZLES:
	AEBL1R007300	DN300 VESSEL COVER WITH 7 NOZZLES (B45):
A	N1	- DN50/B45 FOR AGITATOR & MOTOR
B	N2	- DN80 WITH QUICK RELEASE FIXTURE FOR SOLID CHARGING
C	N3	- DN25 FOR TEMPERATURE SENSOR (PT100)
D	N4	- DN80 FOR VAPOUR LINE
E	N5	- DN25 SPARE PORT
F	N6	- DN25 FOR DIP PIPE
G	N7	- DN40 FOR PRESSURE SAFTY VALVE
4	AEBB0O080080	PIPE BEND DN80
5	AEBR0O080000	DN80 REFLUX SEPARATOR
6	AETS0R000000	TEMPERATURE SENSOR - PT100,
7	AETS0B080000	DN80 LINE SHOCK ABSORBER
8	AETS0B025000	DN25 LINE SHOCK ABSORBER
9	AEBVOAC10150	GRADUATED VESSEL - 10 LTRS.
10	AEBCC0C050080	80° SLANTED COIL CONDENSER - 0.5 m ²
11	AEMPOS040000	PRESSURE SAFETY VALVE DN40
12	AEMX0S000000	OVERHEAD STIRRER WITH HIGH TORQUE X
A	X → E	ELECTRICAL
B	X → N	PNEUMATIC
C	X → L	HIGH SPEED LAB STIRRER DRIVE
D	X → M	HIGH SPEED MAGNETIC STIRRER DRIVE
13	AETX0S030000	AGITATOR SHAFT FOR 30 LTRS. X
A	X → A	ANCHOR
B	X → P	PROPELLER
C	X → I	IMPELLER
D	X → H	HYBRID (ANCHOR + PROPELLER)
14	AEMS0S030000	STAINLESS STEEL SCAFFOLD FOR 30 LTRS. ASSEMBLY
15	AETT0D007000	FLEXIBLE PTFE TUBE
16	AERN0H000000	BOLA HOSE CONNECTOR
17	AEOX0S000000	SEALING ARRANGEMENT X
A	X → S	DRY MECHANICAL SEAL
B	X → D	DOUBLE MECHANICAL SEAL
C	X → C	COWIE SEAL
D	X → M	MAGNETIC SEAL

The flush bottom valve with "Zero Dead Space" is designed to keep solids out of the vessel's bottom , does not block and easy to clean. in case of breakage, it can be replaced without any tool , quick to change the valve. Our valve permits total drainage of the vessel contents.



Front View

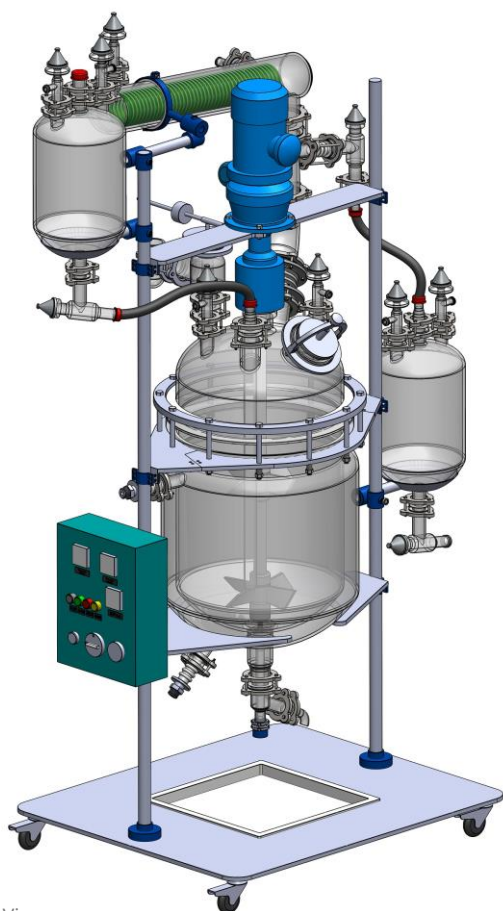


Rear View

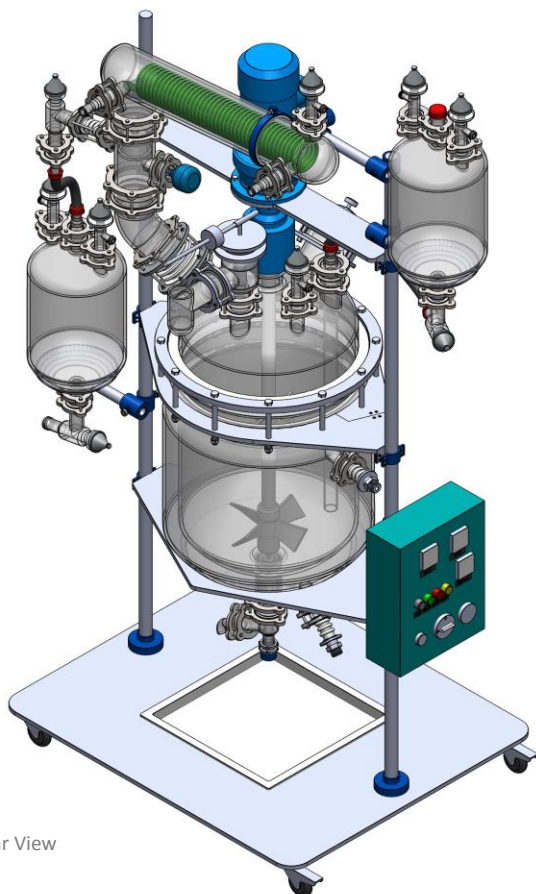
50L Advanced Glass Pilot Reactor

Horizontal Condenser

Ordering Details



Front View



Rear View

No.	Base Code	DESCRIPTION
	AEUD0L050400	50 LTR JACKETED UNIT (LAB + HYBRID)
	AEUD0E050400	50 LTR JACKETED UNIT (ELECTRICAL MOTOR + HYBRID)
	AEUD0N050400	50 LTR JACKETED UNIT (PNEUMATIC MOTOR + HYBRID)
1	AEBD0R050400	50 LTRS. JACKETED VESSEL (GRADUATED)
	AEAV1R050040	ZERO HOLD GLASS/PTFE FLUSH VALVE DN50/40 WITH SENSOR
2	AEAV0R050040	ZERO HOLD GLASS/PTFE FLUSH VALVE DN50/40
3	AEBL0R007400	DN400 VESSEL COVER WITH 7 NOZZLES:
	AEBL1R007400	DN400 VESSEL COVER WITH 7 NOZZLES (B45):
A	N1	- DN50/B45 FOR AGITATOR & MOTOR
B	N2	- DN80 WITH QUICK RELEASE FIXTURE FOR SOLID CHARGING
C	N3	- DN25 FOR TEMPERATURE SENSOR (PT100)
D	N4	- DN80 FOR VAPOUR LINE
E	N5	- DN25 SPARE PORT
F	N6	- DN25 FOR DIP PIPE
G	N7	- DN40 FOR PRESSURE SAFTY VALVE
4	AEBB0O080080	PIPE BEND DN80
5	AEBR0O080000	DN80 REFLUX SEPARATOR
6	AETS0R000000	TEMPERATURE SENSOR - PT100,
7	AETS0B080000	DN80 LINE SHOCK ABSORBER
8	AETS0B025000	DN25 LINE SHOCK ABSORBER
9	AEBV0AC20225	GRADUATED VESSEL - 20 LTRS.
10	AEBC0C050080	80° SLANTED COIL CONDENSER - 0.5 m ²
11	AEMPOS040000	PRESSURE SAFETY VALVE DN40
12	AEMX0S000000	OVERHEAD STIRRER WITH HIGH TORQUE X
A	X → E	ELECTRICAL
B	X → N	PNEUMATIC
C	X → L	HIGH SPEED LAB STIRRER DRIVE
D	X → M	HIGH SPEED MAGNETIC STIRRER DRIVE
13	AETX0S050000	AGITATOR SHAFT FOR 50 LTRS. X
A	X → A	ANCHOR
B	X → P	PROPELLER
C	X → I	IMPELLER
D	X → H	HYBRID (ANCHOR + PROPELLER)
14	AEMS0S050000	STAINLESS STEEL SCAFFOLD FOR 50 LTRS. ASSEMBLY
15	AETT0D007000	FLEXIBLE PTFE TUBE
16	AERN0H000000	BOLA HOSE CONNECTOR
17	AEOX0S000000	SEALING ARRANGEMENT X
A	X → S	DRY MECHANICAL SEAL
B	X → D	DOUBLE MECHANICAL SEAL
C	X → C	COWIE SEAL
D	X → M	MAGNETIC SEAL

The pressure safety valve made from borosilicate Glass 3.3 are equipped to safeguard complete reactor system from pressure leaved on system, build by process or instrument failure. The safety valve releases the pressure from reactor preventing accidental damages void.

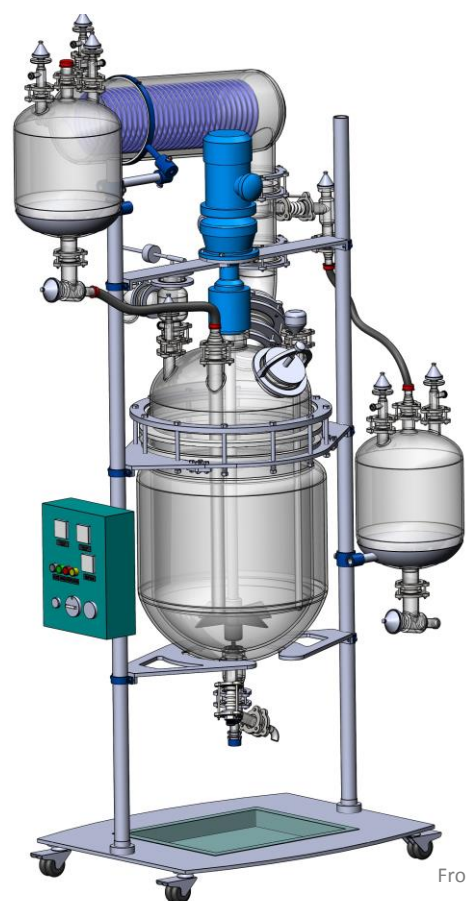
75L Advanced Glass Pilot Reactor

Horizontal Condenser

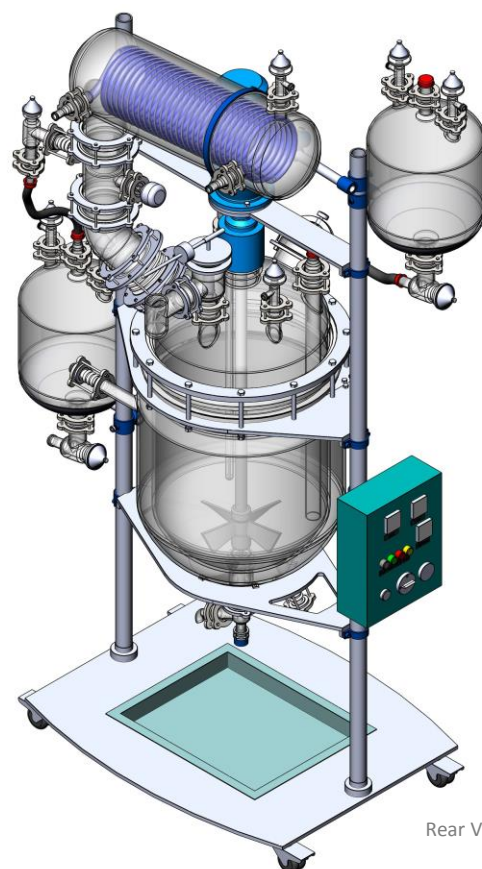
Ordering Details

No.	Base Code	DESCRIPTION
	AEUD0L075450	75 LTR JACKETED UNIT (LAB + HYBRID)
	AEUD0E075450	75 LTR JACKETED UNIT (ELECTRICAL MOTOR + HYBRID)
	AEUD0N075450	75 LTR JACKETED UNIT (PNEUMATIC MOTOR + HYBRID)
1	AEBD0R075450	75 LTRS. JACKETED VESSEL (GRADUATED)
	AEAV1R050040	ZERO HOLD GLASS/PTFE FLUSH VALVE DN50/40 WITH SENSOR
2	AEAV0R050040	ZERO HOLD GLASS/PTFE FLUSH VALVE DN50/40
3	AEBL0R007450	DN450 VESSEL COVER WITH 7 NOZZLES:
	AEBL1R007450	DN450 VESSEL COVER WITH 7 NOZZLES (B45):
A	N1	- DN50/B45 FOR AGITATOR & MOTOR
B	N2	- DN100 WITH QUICK RELEASE FIXTURE FOR SOLID CHARGING
C	N3	- DN25 FOR TEMPERATURE SENSOR (PT100)
D	N4	- DN80 FOR VAPOUR LINE
E	N5	- DN25 SPARE PORT
F	N6	- DN25 FOR DIP PIPE
G	N7	- DN40 FOR PRESSURE SAFTY VALVE
4	AEBB0O100080	PIPE BEND DN100/80
5	AEBR0O100000	DN100 REFLUX SEPARATOR
6	AETS0R000000	TEMPERATURE SENSOR - PT100,
7	AETS0B080000	DN80 LINE SHOCK ABSORBER
8	AETS0B025000	DN25 LINE SHOCK ABSORBER
9	AEBV0AC20225	GRADUATED VESSEL - 20 LTRS.
10	AEBCC0C150080	80° SLANTED COIL CONDENSER - 1.5 m ²
11	AEMP0S040000	PRESSURE SAFETY VALVE DN40
12	AEMX0S000000	OVERHEAD STIRRER WITH HIGH TORQUE X
A	X → E	ELECTRICAL
B	X → N	PNEUMATIC
C	X → L	HIGH SPEED LAB STIRRER DRIVE
D	X → M	HIGH SPEED MAGNETIC STIRRER DRIVE
13	AETX0S075000	AGITATOR SHAFT FOR 75 LTRS. X
A	X → A	ANCHOR
B	X → P	PROPELLER
C	X → I	IMPELLER
D	X → H	HYBRID (ANCHOR + PROPELLER)
14	AEMS0S100000	STAINLESS STEEL SCAFFOLD FOR 100 LTRS. ASSEMBLY
15	AETT0D007000	FLEXIBLE PTFE TUBE
16	AERN0H000000	BOLA HOSE CONNECTOR
17	AEOX0S000000	SEALING ARRANGEMENT X
A	X → S	DRY MECHANICAL SEAL
B	X → D	DOUBLE MECHANICAL SEAL
C	X → C	COWIE SEAL
D	X → M	MAGNETIC SEAL

Reactor system are equipped with standard connectors to provide flexibility to user to connect with utilities as per choice and convenience such as Huber / Lauda / Julabo / etc. Easy flow manifold system with M30 x 1.5 circulator fitting and insulated hose available on request .



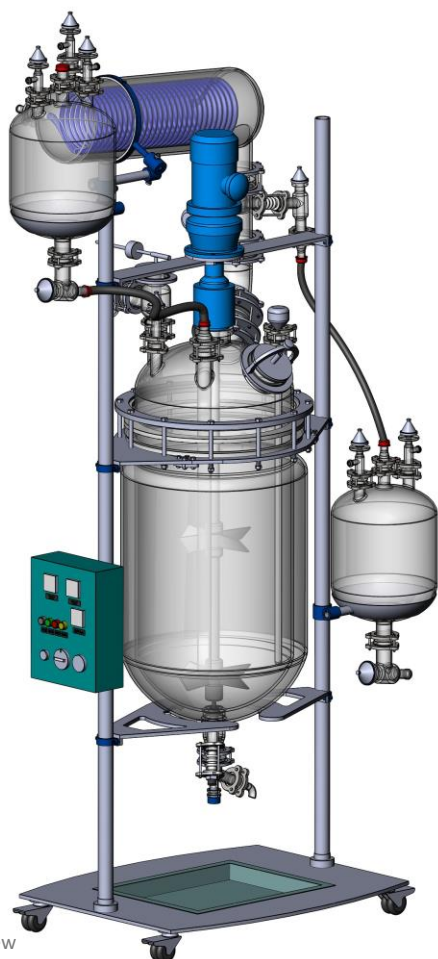
Front View



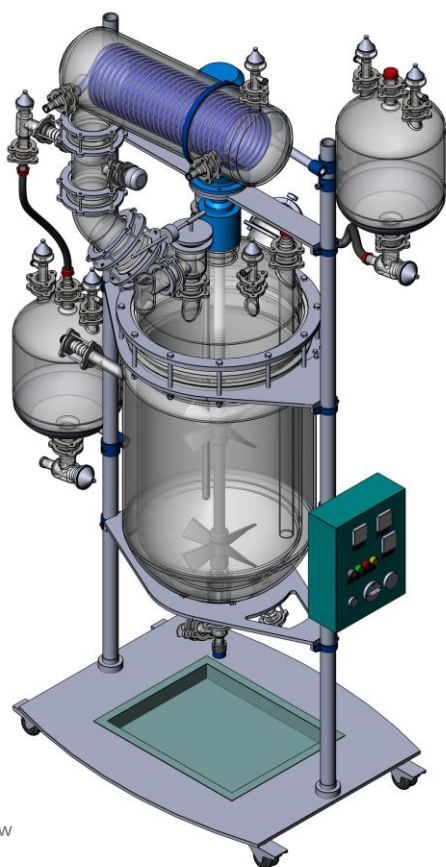
Rear View

100L Advanced Glass Pilot Reactor Horizontal Condenser

Ordering Details



Front View



Rear View

No.	Base Code	DESCRIPTION
	AEUD0L100450	100 LTR JACKETED UNIT (LAB + HYBRID)
	AEUD0E100450	100 LTR JACKETED UNIT (ELECTRICAL MOTOR + HYBRID)
	AEUD0N100450	100 LTR JACKETED UNIT (PNEUMATIC MOTOR + HYBRID)
1	AEBD0R100450	100 LTRS. JACKETED VESSEL (GRADUATED)
	AEAV1R050040	ZERO HOLD GLASS/PTFE FLUSH VALVE DN50/40 WITH SENSOR
2	AEAV0R050040	ZERO HOLD GLASS/PTFE FLUSH VALVE DN50/40
3	AEBL0R007450	DN450 VESSEL COVER WITH 7 NOZZLES:
	AEBL1R007450	DN450 VESSEL COVER WITH 7 NOZZLES (B45):
A	N1	- DN50/B45 FOR AGITATOR & MOTOR
B	N2	- DN100 WITH QUICK RELEASE FIXTURE FOR SOLID CHARGING
C	N3	- DN25 FOR TEMPERATURE SENSOR (PT100)
D	N4	- DN100 FOR VAPOUR LINE
E	N5	- DN25 SPARE PORT
F	N6	- DN25 FOR DIP PIPE
G	N7	- DN40 FOR PRESSURE SAFTY VALVE
4	AEBB0O100100	PIPE BEND DN100
5	AEBR0O100000	DN100 REFLUX SEPARATOR
6	AETS0R000000	TEMPERATURE SENSOR - PT100,
7	AETS0B100000	DN100 LINE SHOCK ABSORBER
8	AETS0B025000	DN25 LINE SHOCK ABSORBER
9	AEBV0AC20225	GRADUATED VESSEL - 20 LTRS.
10	AEBC0C150080	80° SLANTED COIL CONDENSER - 1.5 m ²
11	AEMPOS040000	PRESSURE SAFETY VALVE DN40
12	AEMX0S000000	OVERHEAD STIRRER WITH HIGH TORQUE X
A	X → E	ELECTRICAL
B	X → N	PNEUMATIC
C	X → L	HIGH SPEED LAB STIRRER DRIVE
D	X → M	HIGH SPEED MAGNETIC STIRRER DRIVE
13	AETX0S100000	AGITATOR SHAFT FOR 100 LTRS. X
A	X → A	ANCHOR
B	X → P	PROPELLER
C	X → I	IMPELLER
D	X → H	HYBRID (ANCHOR + PROPELLER)
14	AETT0D007000	FLEXIBLE PTFE TUBE
15	AETT0D007000	FLEXIBLE PTFE TUBE
16	AERN0H000000	BOLA HOSE CONNECTOR
17	AEOX0S000000	SEALING ARRANGEMENT X
A	X → S	DRY MECHANICAL SEAL
B	X → D	DOUBLE MECHANICAL SEAL
C	X → C	COWIE SEAL
D	X → M	MAGNETIC SEAL

The versatile design of scaffold makes reaction system easy to assembly and disassemble. The sturdy and steady structure provides usage confidence to user and skids adheres system portability.

Ablaze Leading Global Supplier

Ablaze was founded in 1985 with the goal of providing consumers with high-quality scientific glass equipment with over 35 years of experience working with customers all around the world

Ablaze is now a leading manufacturer and supplier of borosilicate glass 3.3 reactors and accessories at all scales, from R&D to pilot plant to production. For our clients in the chemical, pharmaceutical, petrochemical, and allied industries, we provide a complete corrosion resistant solution.

11 FACTS ABOUT US...

2 COMPLETE RANGE OF GLASS REACTORS LAB TO PILOT SCALE

4 ISO 9001: 2015 CERTIFIED

6 EXCELLENCE MADE IN INDIA

8 PLANT DESIGN, ENGINEERING AND INSTALLATION

10 WORLDWIDE SUPPLY & NETWORK

1 EXPERT IN GLASS PILOT PLANTS & TURNKEY PROJECTS

3 35 YEARS OF EXPERIENCE

5 REACTION, FILTRATION, EVAPORATION, DISTILLATION

7 AGITATOR NUTSCHE FILTER DRYER IN GLASS

9 INOVATION DESIGN & DEVELOPMENT ...

11 THIN FILM EVAPORATION





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