



Stainless Steel Jacketed Centrifuge  
**Model: XTC Series**  
XTC-20, XTC-45



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### **1 Safety Instructions and Features**

#### **1.1 Safety Instructions**

### **Do Not Over Fill Centrifuge, It Will Cause an Overload Condition.**

The use of Personal Protection Equipment (PPE) is REQUIRED.

Follow all federal, state and municipal laws, codes and ordinances.

Please make sure the power connection is correct and well-grounded. (see the technical parameters for details)

Fluid lines should be unobstructed without any hard bends in the run. Install gasket inside fittings before use.

Apply a rag to wipe the parts clean after washing away stains; do not use hard objects.

Do not use flammable, corrosive or explosive substances on, in, or near the equipment.

If there is a problem, do not continue to use the centrifuge. Contact us immediately.

## 1.2 Features

Our centrifuge systems allow users to perform botanical extraction while maintaining a closed loop system, exposing no solvents to the air. Our system is designed for easy material loading and unloading. 2" Tri-clamp drain. Reinforced sight glass. Bi-Directional agitation. Variable speed control. Explosion proof motor. Gas spring assisted lid. 4 speed levels with timer. Digital valve control (optional). Single phase converter (optional).

## 1.3 Technical Parameters

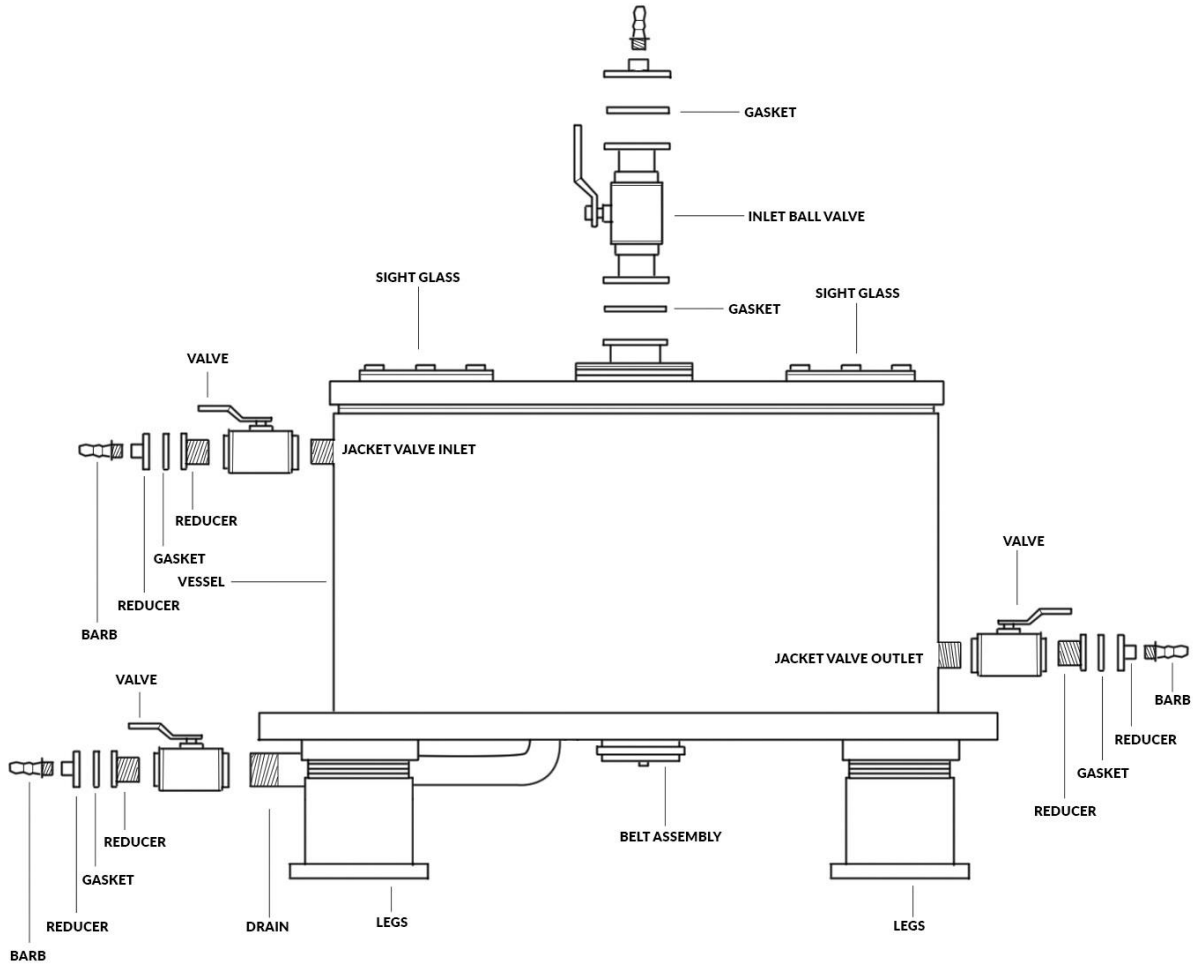
### XTC-20

Basket Diameter	450mm
Basket Volume	20L
Max Load:	30KG
Centrifugal Force:	1900G
Max Speed:	910rpm
Electrical req:	240V 3 phase (single phase converter available for a \$1800 upgrade 220v 40 amp )
Motor Power:	1.5Kw
Dimensions:	37.4" x 23.6" x 34.2"
Weight:	661 LBS

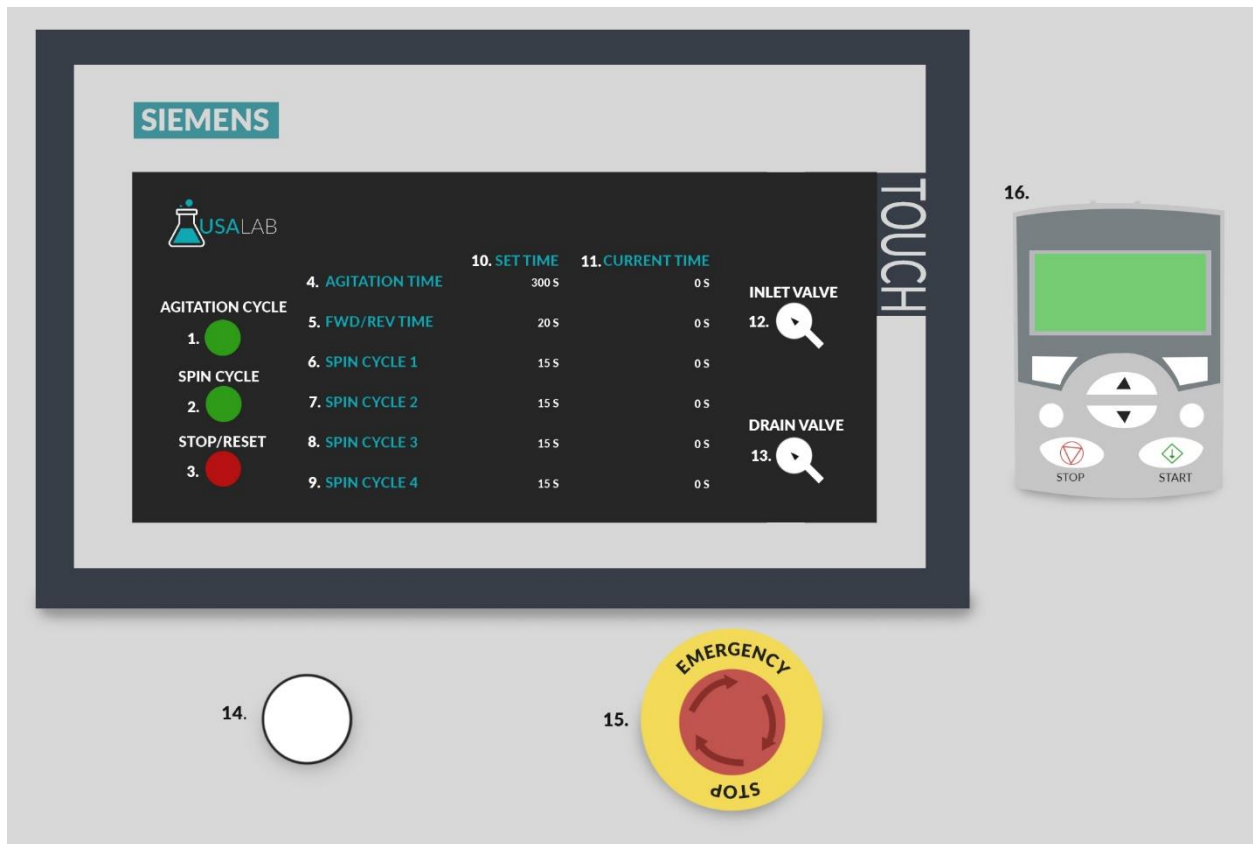
### XTC-45

Basket Diameter	600mm
Basket Volume	45L
Max Load:	60KG
Centrifugal Force:	1500G
Max Speed:	755rpm
Electrical req:	240V 3 phase (single phase converter available for a \$3000 upgrade)
Motor Power:	3Kw
Dimensions:	51" x 35" x 35"
Weight:	1984 LBS

## 2 Diagrams



### 3 Control Panel



1. Agitation Cycle Start
2. Spin Cycle Start
3. Stop Current Cycle
4. Agitation Total Time (press the seconds to change the value)
5. Agitation Time Per Direction (press the seconds to change the value)
6. Spin Cycle Stage 1 (press the seconds to change the value)
7. Spin Cycle Stage 2 (press the seconds to change the value)
8. Spin Cycle Stage 3 (press the seconds to change the value)
9. Spin Cycle Stage 4 (press the seconds to change the value)
10. Set Time Value Column (press the seconds to change the value)
11. Current Time in Stage
12. Inlet Valve (optional) ON / OFF
13. Outlet Valve (optional) ON / OFF
14. Power Indicator
15. Emergency Shut-off Switch, Press IN to Shut Down.
16. Driver / Motor Controller. DO NOT CHANGE PARAMETERS.

**Notes:** The driver / motor controller plugs into the touch screen and is only for display of the Hz of the motor. Do not change the parameters unless instructed to do so by a USA Lab Technician.



## **5 Instructions for Installation**

- Mount the centrifuge to the floor of the facility
- Mount the control box outside of the C1D1 area
- Have a certified electrician run the wiring between the centrifuge and the controller
- Have the electrician run the wiring from the 240V 3-phase supply to the controller
- (Optional) Have the electrician wire and install the phase converter
- (Optional) Have the electrician wire and install the solenoid valves

## **6 Notes**

This system has a Delta Style 3-phase power input.

Inside the controller is a circuit breaker, make sure that it is enabled when using the centrifuge.

Valves should be closed during the agitation cycle and open during the spin cycle.

Recommended time settings:

### Agitation

- Total Time 240s
- Forward / Reverse 30s

### Spin

- Stage 1 60s
- Stage 2 60s
- Stage 3 60s
- Stage 4 180s

Typically, there is 20-30 seconds lag time in between cycles.

Total run time is around 15 minutes including lag.

## **7 Maintenance**

- Shut off the power switch and disconnect the power cord before any maintenance.
- Use a damp soft cloth to wipe clean. Stubborn stains should be cleaned by neutral detergents.
- The maintenance of internal electrical parts must be performed by professionals or trained electricians.
- Do not directly splash water over the product or use abrasive powder, diluent, oil, kerosene, acidic material and similar substances during cleaning, or else shock or other accidents will occur.

## **8 Service**

Our company provides limited warranty for any product with failures due to manufacturing quality within 12 months after the date of delivery on the premise of normal operation by users. Reasonable repair costs will be charged for damage caused by improper use. After-sales service Tel : (734) 855-4890 or [sales@usalab.com](mailto:sales@usalab.com)

USA Lab reserves the right of ultimate interpretation of the instruction manual. Additionally, USA Lab is not responsible for damages or injuries caused by improper use; knowingly or unknowingly. Glassware is not covered under warranty. We ship all glassware products with additional care, but sometimes they arrive broken. If glassware arrives broken, please contact us within 3 days of receiving your product and we will either send you a brand new piece or send you a refund. Any glassware broken 3 days after or later will not be covered by warranty. Maintenance items such as seals and gaskets are not covered under the warranty. Thank you for understanding!

### **Return Policy:**

We offer a 30-day return policy from when your package is delivered to your shipping address. By placing an order with USA Lab, you express that you have read and agreed to the following return policies.

- We do not accept returns for customized items. When purchasing a customized item, you agree that there are no returns due to the nature of the item(s) being specific to your needs.
- By default, a 15% restocking fee is applied on all items that are in original packaging and unused with no damage. This applies to all items returned within 30 days. No exceptions. You will be responsible for the return shipment unless deemed defective by USA Lab. In that case, we will pay for return shipment and replacement shipment costs.
- The item(s) must be returned in original packaging and in undamaged condition. The item(s) must have no signs of usage or wear including stickers, scratches, dents, resins, non-standard fluids, plant matter, or any other wear not representing a new, unused item. Products deemed defective with any signs of usage or wear will result in a 25% restocking fee.
- Once the returned item is received, tested, inspected, and processed, a refund will be issued. If your item(s) are in original packaging and unused, you will be refunded the initial purchase price with the 15% restocking fee deducted. If your item(s) are deemed damaged or used, you will be refunded the initial purchase price with the 25% restocking fee deducted.
- If an item has been deemed to be severely misused, modified resulting in catastrophic failure, operated anywhere but inside of a climate-controlled facility. A minimum of 25% restocking fee will be deducted from the refund.

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