



## AlfaPure Z3 – a sample of clear thinking

For cleaning water-based liquids, e.g. coolants and wash liquids

Using high-speed centrifugal separation it is possible to greatly extend the life of your service liquids. Alfa Laval's disc-stack centrifuges provide fast, efficient, simultaneous three-phase separation of, for instance, water, oil and sludge.

AlfaPure Z3 removes contaminating oil, grease and solid particles from water-based liquids, e.g. coolants and wash liquids. The result is lower costs due to reduced fluid consumption, lower disposal costs and improvements in both product quality and working environment.

AlfaPure Z3 is a complete system, including separator, feed pump, sludge pump and control system. The touch screen based control system makes it extremely easy to operate. The AlfaPure Z3 has a high capacity-to-size ratio. The module requires less than 1.7 m<sup>2</sup> of floor space and can handle tanks with volumes of up to 150 m<sup>3</sup>. In most cases, AlfaPure Z3 is installed in a bypass system and operates continuously.

### User-friendly operation

Operator convenience was a key parameter in the design of the AlfaPure Z3. The PLC-based control system is operated by means of a touch screen. All symbols and messages are easily understandable, simplifying the interaction between operator and machine. The control system handles all settings of valves and pumps automatically. The separator is accessible from the front and the openable cabinet gives easy access to process components. Quick couplings ensure that all components can be serviced quickly and simply.

The system is compact. The stainless steel cabinet is mounted on a 1030 x 1600 mm stainless steel frame. Wheels attached to the frame simplify installation and service by providing mobility, and allowing the system to be wheeled easily from tank to tank. The connection interface makes installation simple.

### Modularized system

The modular design of the AlfaPure Z3 makes it easy to adapt the system to the specific needs of the user. Several options and optional equipment are available:



AlfaPure Z3

- Siemens or Allen-Bradley PLC control system,
- Surface suction device,
- Crossflow filter for heavily contaminated coolants,
- One or two dosing pumps for addition of chemicals,
- Stainless steel design of all components that come into contact with the fluid.

### Meeting your needs

To meet all your needs, Alfa Laval offers a wide range of stationary or mobile separator systems for all types of fluids. Our offering ranges from systems with capacities suitable for smaller workshops, to larger systems designed to clean complex and heavily contaminated fluids. Our global organization guarantees easy start-up and, if you need a helping hand, an Alfa Laval service engineer is always close by. We call this Nonstop Performance.

**Technical Data**

**Capacity**

Coolants & wash liquids	1000 - 3000 l/h
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**Operating requirements**

Separation temperature	15 – 100°C
pH	6 – 14
Operating water pressure	200 – 600 kPa
Instrument air pressure	300 – 800 kPa
Installed power	max 4 kW
Ambient temperature	5 – 55°C

**Dimensions**

Length x width x height	1600 x 1030 x 1400 mm
Weight	800 kg

**Electrical system**

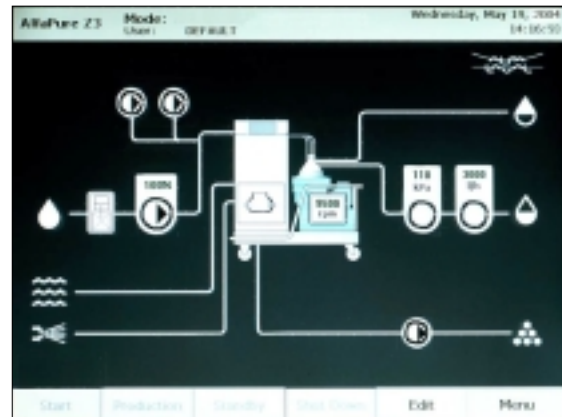
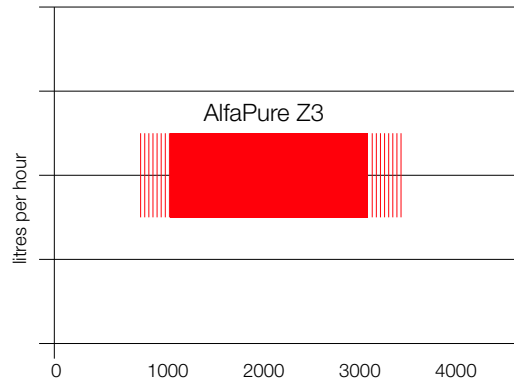
Multiple voltage supply	210 – 690 V
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**Connections**

Process liquid inlet	ISO-Rp 1 1/4"
Heavy liquid outlet	ISO-Rp 1"
Light liquid outlet	ISO-Rp 1/2"
Sludge outlet	ISO-Rp 1/2"
Operating water	ISO-Rp 1/2"
Instrument air	ISO-Rp 1/4"

**Shipping data**

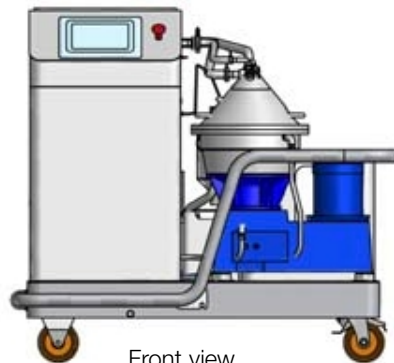
System incl. centrifuge, bowl and motor	800 kg
Bowl weight	150 kg
Gross weight	1245 kg
Volume	1.9 m <sup>3</sup>



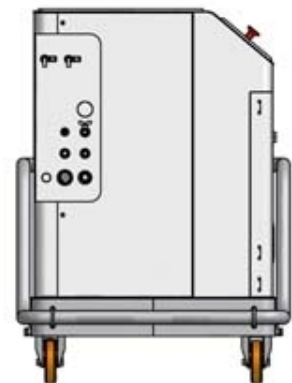
The AlfaPure Z3 user-friendly touch screen.



Separator from above.



Front view.



Side view, connections.

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Alfa Laval reserves the right to change specifications without prior notification.

**How to contact Alfa Laval**

Contact details for all countries are continually updated on our website. Please visit [www.alfalaval.com](http://www.alfalaval.com) to access the information direct.