

SAFETEC PUMP SET

To empty full containment re-usable IBC's and drums,
compatible with CDS/QC couplings



Environmental protection and sustainability

Safe handling of dangerous chemicals.

All over the world, the requirements for environmental protection and sustainability are steadily increasing. At the same time, the safety requirements for handling hazardous chemicals are increasing accordingly.

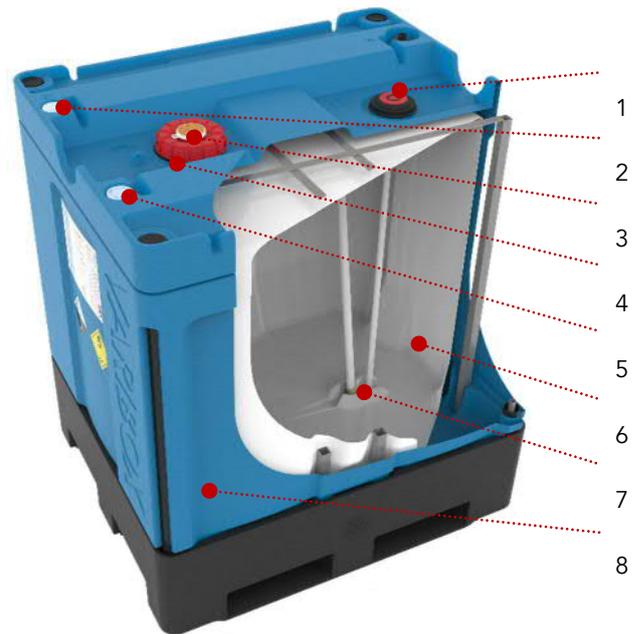
For these reasons, more and more chemical packaging is being brought onto the market in drums or IBC containers that are sealed and that are emptied using a permanently installed immersion tube using a suction process.



Picture 1

Advantages

- Completely closed and sealed container.
- **No contamination** of the contents with dirt or foreign matter.
- Optimum occupational safety even in event of **incorrect operation**, as the quick-action coupling means that no unintentional leakage of media is possible.
- **No drips**. No manual handling of parts exposed to chemicals, no need to open caps or closures.
- **Saving of cleaning costs for reusable IBC's**, since the sealing means that they can be refilled without cleaning and flushing.
- As there is no floor outlet and the option of double-walled container design, the **IBC systems can be set up without additional WHG collecting tray**.



Picture 2

Details:

1. **Connection with immersion tube**
For emptying the container
2. **Dipstick**
For leakage control
3. **Combi-Vent**
for pressure equalization when emptying and filling
4. **Screw cap**
for filling, sealed.
5. **Inspection opening**
for visual inspection of inner tank
6. **Inner container**
to carry the liquid
7. **Lowest point (swamp)**
ensures that container can be almost completely emptied
8. **Outer container**
double wall as protection

SAFETEC pump set

The solution for emptying

With Sealed classic drum or container pumps, it is not possible to empty full containment IBC's, as there are no openings for inserting a drum pump. A self-priming pump is needed for emptying the container through an immersion tube. For this purpose, SONDERMANN has developed the SAFETEC pump set. The pump set contains all the components required for safe emptying of the container.



Picture 3: pump set SAFETEC with optional accessories

Advantages:

- **All components** of the pump set are **combined** in a compact console. The console is delivered with a wall bracket, which can optionally be mounted on a trolley.
- An **integrated sensor** detects and signals when the **container is empty** and **switches of the pump**.
- With integrated **quantity measurement**, the SAFETEC pump set is suitable for filling containers or for **batch dosing**. *
- Comfortable operation via an **graphical touch panel** (can be operated with chemical gloves also). *
- **Maximum safety** through hermetically sealed self-priming pump and additional **leakage tray**
- The leakage tray can be equipped with a **leak sensor**. *

Connect the container with corresponding coupling and hose, then connect it to the pump set. Also connect the pump set to your system or your extraction point with another hose.

The pump set empties the container, reports automatically when the container is empty (option) and switches itself off. If you use a nozzle on the pressure side of the pump set, you can also use the COMFORT D version of the pump set to dose or fill the medium from the container into a smaller container.

Simply enter the desired amount via the touch panel and fill it at the nozzle. The pump set switches off automatically when the required quantity is reached.

* Optional

SAFETEC pump set

Components

Self-priming centrifugal pump MAGSON MAS

Due to the magnetic coupling, there is no shaft seal to the motor and the pump is **hermetically sealed**. Therefore no leakage is possible and the pump is almost **maintenance-free**. Manufactured with PP or ETFE body, the resistance of the pump can be selected to suit the chemicals on site. The pump is self-priming up to a suction height of 5m, produces strong suction and runs **quietly and smoothly**.

IBC Level Sensor

Protects the pump from running dry.

This sensor detects when air bubbles appear in the pipeline. As soon as the container is empty and air is sucked in, the sensor detects this and switches the pump off.



Picture 4



Tray Level sensor (option)

This sensor detects any liquid that may collect in the leakage tray. The pump is switched off and the fault is shown on the display.

Picture 5

Flow meter (option)

Included in the SAFETEC KOMFORT D pump set, records the flow rate and enables dosing and filling.



Picture 6



Picture 7

Removable Acrylic glass pane
Fitted to console for splash and intrusion protection.

BASIC version

Fitted with main switch with integrated motor protection switch for manual pump control



Picture 8

STANDARD version

Includes control panel with main switch, ON / OFF button and pump dry run protection. If the container is empty and the pump sucks in air, it is switched off automatically.



Picture 9



KOMFORT version

Touch panel displays operating states ON / OFF; Fault container empty / dry run; leakage fault (option) as well as an emergency stop button and a main switch.

KOMFORT D version

Touch Panel including dosing. Display of operating status ON / OFF; Fault container empty / dry run; leakage fault (option) as well as an emergency stop button and a main switch. Dosing is controlled via the graphical user interface.

Manual ON / OFF switching via touch panel for manual operation

In automatic mode, different filling quantities can be stored and selected. After filling has started, the pump starts and stops automatically as soon as the desired filling quantity is reached. If the container is empty and the pump sucks in air, it is also automatically switched off and the operating status is displayed on the touch panel.



Picture 10

Welded plastic console in PP

The console accommodates all components required for emptying the container and the pump, including optional control components. A hinged acrylic glass cover is attached to the front, for additional security. The inside of the console is designed as a drip tray. The console is supplied with a wall bracket or, alternatively, with a bracket for hanging on standard IBCs.

Accessories for your pump set

Couplings

- Various couplings, or extraction head connections for your container



Configured suction hoses

- 2m PVC-hose DN20 with CDS-coupling.
- 2m PVC-hose DN20 with QC-extraction head.
- 2m chemical hose DN20 with CDS-coupling.
- 2m chemical hose DN20 with QC-extraction head.



Configured discharge hoses

- 3m PVC-hose or chemical hose DN20 with hand nozzle for manual filling



- 3m PVC-hose or chemical hose DN20 with Outlet unit and integrated check valve for semi-automatic dosing. The dosing process is started with the start / stop button on the outlet unit. When the target quantity is reached, the pump stops automatically (only with the KOMFORT D).



Individual parts

- 1-ear clamps
- Hose sockets
- hoses
- hand nozzles



The SAFETEC product line at a glance

SAFETEC pump set Furnishing	BASIC	STANDARD	KOMFORT	KOMFORT „D“
Pump MAS 13/115; self-priming; PP oder ETFE; 230V; 0,75kW	●	●	●	●
PP Console with drip tray and Acrylic glass door	●	●	●	●
5m cable with Schuko-plug	●	●	●	●
Motor protection switch with ON/OFF - switch	●	–	–	–
On-site control panel with main switch, ON/OFF button	–	●	–	–
On-site control panel Komfort, operation via Touch Panel	–	–	●	●
Dosing via flow meter FMC	–	–	–	●
Sensor for low level notification / dry run protection	○	●	●	●
Leakage monitoring in the leakage tray	–	○	○	○

● included ○ Optional – not possible

Technical data

SAFETEC pump set	PP	ETFE
Pump material	PP	ETFE
Piping material	PVC	PVDF
Sealings	EPDM	FKM
Max. temperature of liquid [°C]	60	
Max. flow rate [l/min] *	40	
Max. delivery height [mWs]	13	
Motor power [kW]	0,75	
Voltage [V]	230	
Connection at suction and discharge side	G 1 ¼	
Weight [kg]	50	
Dimensions B x H x T [mm]	840 x 850 x 340	

* with 2m suction hose DN19 and CDS coupling as well as 3m pressure hose DN19 with nozzle



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www.flux-pumpen.com

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