# Decentralized process water management

**The careful use of drinking water as a foodstuff secures the supply of water for future generations.**

The use of rainwater and treated greywater instead of valuable drinking water conserves resources, but also places high demands on operating technology.

Recontamination of the public drinking water network is a recurring concern for water utilities. Despite the clear regulations that are laid out in EN 1717, the system separation of drinking water and process water is often not carried out consistently. With the drinking water separation station Cat 5, it is easy to meet the strict requirements of the drinking water ordinance. The connect control monitors and regulates the operation, larger storage tanks from the plastic tank program eansure the operating water supply, even when the drinking water supply fluctuates.

The combination of the Rain Manager and drinking water separation stations with the extensive Dehoust tank program guarantees a tailor-made solution for nearly any requirement, up to combined rain and fire water storage tanks.

In greywater utilization, we rely on ultrafiltration, both with submerged filters and with dry filters. The new MB series guarantees maximum efficiency with high operational reliability and low maintenance costs. It also includes direct access to the system through DehoustCONNECT and in combination with our separation stations or Cat 5 Break tanks in accordance with DIN EN 1717.

**Our focus topics:**

- **We bring water to the Internet**
- **Separation stations**
- **Greywater**
- **Rainwater**

Heat.
Energy. Water.

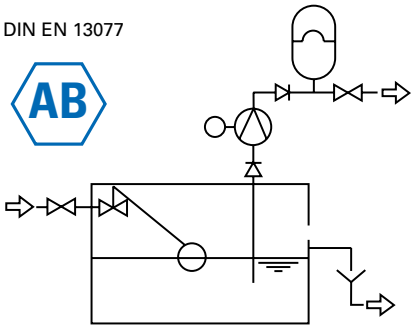
STORAGE & UTILIZATION

# 2

# For the safe separation of . . .

DIN EN 13077

AB



## Dehoust separation stations in accordance with DIN EN 1717 for process water of liquid category 5 ensure maximum safety.

**The systems developed by Dehoust offer the highest level of protection for separate drinking and process water systems, including systems with different requirements, thus making sure that you, as the operator and installer, are on the safe side.**

**System separation for process water is a professional matter – that is why you should put planning and execution in the hands of specialized companies and leave nothing to chance when it comes to drinking water protection.**

**Examples for a compulsory free outlet**

- Washing fruit and vegetables (food establishments)
- Pre-washing and washing of dishes and kitchen utensils
- Wastewater
- Water from body cleaning
- Water for animal drinking troughs
- Swimming pool water
- Washing machine water
- Toilet water
- Cleaning in slaughterhouses
- Cooling system supply
- Underground sprinkler system

# … process water and drinking water

**Drinking water separation stations for any capacity and purpose from 2 m³/hour to over 20 m³/hour also as double-pump systems.**


Wall-mounted separation station from 2 to 3.2 m³/hour


floor-standing separation station up to 5 m³/hour


floor-standing separation station up to 7 m³/hour


Compact CONNECT drinking water separation station with double pump

CONNECT separation station with large feed tank and double pump

Break tank Cat 5 EN 1717 with emergency overflow type AB in accordance with DIN EN 13077

**THE RIGHT SOLUTION FOR WHATEVER YOU NEED.**

# Wall mounted drinking water separation stations

**For the safe separation of process water and drinking water in private and commercial installations for flow rates from 2 to more than 3 m³/hour*.**

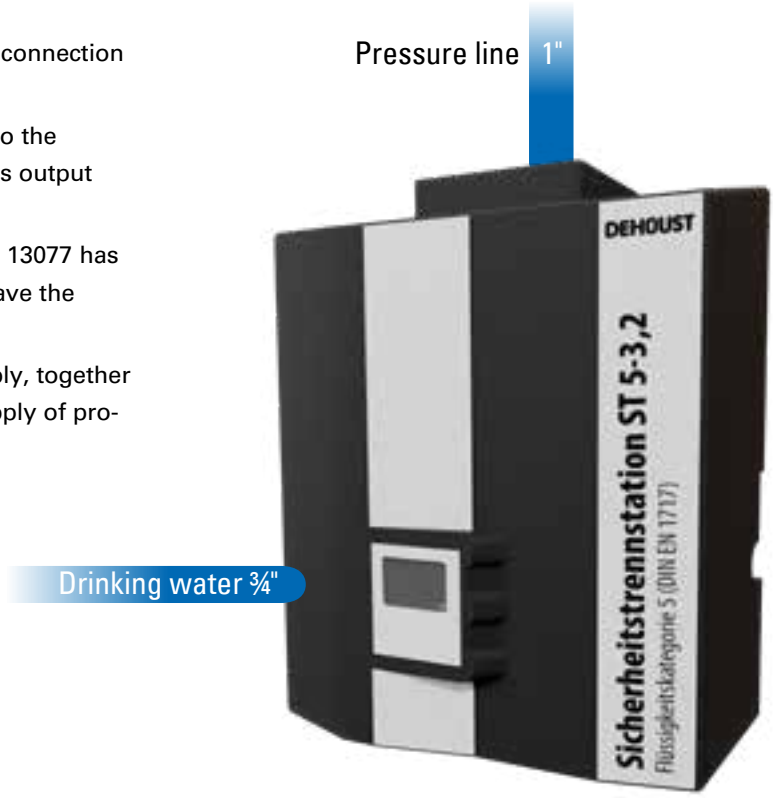
The safety separation station is supplied ready for connection in 2 power sizes.

The float valve automatically ensures refeeding into the integrated storage tank – the achievable continuous output depends essentially on the drinking water supply.

The free outlet type AB in accordance with DIN EN 13077 has been tested by TZW Karlsruhe and both devices have the DVGW CERT label.

Pumps specially developed for process water supply, together with the robust flow monitor, ensure a reliable supply of process water to users.

**DVGW**
CERT
Connection safe
W 540




| Safety separation stations | ST 5-2.7 | ST 5-3.2 |
|---|---|---|
| **Artcle no.** | **812307** | **813092** |
| max. flow rate in m³/hour* | 2.7 | 3.2 |
| max. conveying height in m | 44 | 52 |
| Switch-on pressure in bar | 2.4 | 1.5 |
| Supply voltage | 230 V / 50 Hz / 16 A | 230 V / 50 Hz / 16 A |
| Total height in mm | 580 | 700 |
| Width in mm | 380 | 595 |
| Depth in mm | 295 | 305 |
| Empty weight in kg | 18 | 25 |

*The conveying volume depends on the drinking water supply, in case of weak line pressure we recommend devices with a larger supply tank.

# No chance of recontamination

Interior view ST 5-2.7

Sprinkler systems and underground piping must also be separated by “free outlet” in private areas.

**THE STRICT RULES OF DIN 1988-100 APPLY IN CONJUNCTION WITH DIN EN 1717, ALSO IN THE PRIVATE AREA**

**ST 5-2.7**

**ST 5-3.2**

For more information, scan the QR code or enter the item number in the dehoust.com search box.

# Separation station ST 5 floor-standing

## With large storage tanks to compensate for fluctuations in the drinking water network for capacities from 4 to over 7 m³/hour.*

High volume and space-saving design are what set this separation station apart.

The arrangement of the proven float valve on type ST 5-4.3 or the water-cooled magnet valve on type ST 5-7.2 prevents splashing water at the drinking water inlet even with high feed-in volumes. Any water escaping through the free outlet type AB in accordance with DIN EN 13077 is drained off in a controlled manner. The separation stations are nevertheless placed only in rooms with floor drain.

Submerged pumps ensure extremely quiet running and the adjustable flow monitor ensures adapted operation.

ST 5-4.3 floor-standing, interior view

| Safety separation stations | ST 5-4.3 | ST 5-7.2 |
|---|---|---|
| **Artcle no.** | **814261** | **814265** |
| max. flow rate in m³/hour* | 5 | 7.2 |
| max. conveying height in m | 56 | 68 |
| Switch-on pressure in bar | zw. 0.5 und 4 einstellbar | zw. 0.5 und 4 einstellbar |
| Supply voltage | 230 V / 50 Hz / 16 A | 230 V / 50 Hz / 16 A |
| Useful volume tank in liters | 110 | 110 |
| Total height in mm | 1.010 | 1.105 |
| Width in mm | 300 | 300 |
| Depth in mm | 820 | 820 |
| Empty weight in kg | 36 | 36 |

*The conveying volume depends on the drinking water supply, in case of weak line pressure we recommend devices with a larger supply tank.

# For clear water fun

## Tested separation stations:
## Retrofitting is mandatory – no grandfathering


ST 5-7.2 floor-standing

Cleaning work in equestrian sports, animal breeding, stables but also in trade and industry only with consistent compliance with DIN EN 1717 with protection against recontamination through free outlet as is the case in our separation stations..

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Connection safe
W 540

**ST 5-4.3**

**ST 5-7.2**

For more information, scan the QR code or enter the item number in the dehoust.com

# Drinking water separation station

## Safety separation station – ST-AQF 570/SV 5-40


### Safety separation station with integrated pressure boosting system

The ST-AQF 570 safety separation station consists of a storage tank with a drinking water connection in accordance with DIN EN 1717, a mechanical float valve for regulating the drinking water replenishment and a submersible pump with integrated pressure switch for supplying the withdrawal points.

### Technical data STAQF 570/SV 540

| Art. no. 812903 | ST-AQF 570/SV 5-40 |
|---|---|
| Flow rate $Q_{max}$ | 5.5 m³/h |
| Conveying height $H_{max}$ | 48 m |
| Useful volume tank | 495 liters |
| Dimensions (HxWxD) | 1,430 x 720 x 720 mm |
| Weight | 32 kg |
| Supply voltage | 230 V / 50 Hz |

DVGW CERT Connection safe W 540

## Cat 5 Break tanks according EN 1717 with replenishment and overflow AB EN 13077

Our wide range of plastic storage tanks (PE-DF and AQF) is the basis for individual break tanks from 570 litres up to 4000 litres.

More details see rainwater storage at page 18

# DehoustCONNECT – Drinking water separation station

## Safety separation station with double pump system

DehoustCONNECT safety separation station to protect drinking water against process water of hazard class 5 in accordance with DIN EN 1717, consisting of double pump system with intelligent DehoustCONNECT control system as well as a touch screen and large AQF storage tank.

- DehoustCONNECT control for regulating and monitoring the system functions
- Large volume receiver tank type AQF
- Drinking water feeding in accordance with DIN EN 1717 type AB to protect drinking water against process water of hazard class 5
- Drinking water feeding type AB via KTW W270 approved solenoid valve with automatic closing should there be a malfunction (power failure)
- Powerful pressure boosting system with pressure sensor and adjustable switching points
- Cover for double pump unit
- Membrane expansion tank 8 liters
- Water detector for moisture monitoring in the technical room
- Web-enabled CONNECT control for remote inquiry and operation via smartphone, tablet or PC
- Stagnation protection of the drinking water line (optional auto-drain function available to prevent stagnation in the tank)
- The feed tanks can be selected as needed

## Technical data DehoustCONNECT safety separation stations

| | 6-40 STS | 8-40 STS | 8-50 STS | 14-40 STS |
|---|---|---|---|---|
| **Article no.** | **814404** | **814405** | **814406** | **814409** |
| max. flow rate pump (m³/h) | 3.3 | 4.8 | 4.8 | 7.2 |
| max. flow rate double pump (m³/h) | 6 | 9 | 9 | 14 |
| max. flow volume pump (m) | 48 | 42 | 58 | 47 |
| Useful volume tank (l) | 500 | | | |
| Dimensions: HxWxD (mm) | 1,870x730x1,800 | | | |
| Weight kg | 95 | 93 | 100 | 100 |