

Rainwater harvesting



Rain Manager highlights

- ▶ Rain Manager from Dehoust has enough pressure for sprinklers and drip irrigation
- ▶ ensure the supply of water to toilets even in the event of rainwater shortage by replenishing water as needed
- ▶ system is mounted on the wall in the technical room to save space
- ▶ protects the drinking water supply from recontamination
- ▶ can be combined with all cisterns



Yield of rainwater per year for a single building

- ▶ Average roof size: 100 m²
- ▶ Average rainfall yield: 805 liters per m²
- ▶ Runoff coefficient sloped roof: 0.8
- ▶ Filter coefficient: 0.95
- ▶ ~ Annual yield: 61,180 liters

Process water consumption

- ▶ Per person per day: approx. 40-50 liters
- ▶ Toilet flushing: 20-30 liters
- ▶ Cleaning: 5-10 liters
- ▶ Washing machine: 10-15 liters
- ▶ Total for 4 people: approx. 50,000 liters
- ▶ plus garden watering: 100 l/m²
- ▶ Total per year: up to 70,000 liters

Pressure boosting with automatic control is an indispensable component of a fully-functional rainwater system. Our Rain Manager combines the powerful pump, a flow monitor optimized for rainwater harvesting and a control system for fully automatic operation. When the rainwater cistern is empty, Rain Manager supplies only as much drinking water as is currently needed. The drinking water feeding is carried out in the free outlet in accordance with DIN EN 1717, thus ensuring compliance with the strict requirements of the drinking water ordinance.

RM3

New: Flow switch with larger membrane. Larger potable water tank for more feed volume.



Outstanding technology for the smallest of spaces

The Rain Manager RM3 is a compact device that is ideal for small technical rooms. The fully-equipped unit includes the pump for safe supply to users, the control technology for drinking water feed-in depending on demand as well as the required system separation in accordance with DIN EN 1717.

Areas of application:

One and two-family houses with medium-sized gardens for irrigation with lawn sprinklers

Technical data Rain Manager RM3

Art. no. 812240

el. Output	Flow rate		Mains-voltage	Connections			Emergency-overflow	Dimensions H x W x D mm	Weight
	Qmax	Hmax		Drinking water	Suction-side	Pressure side			
805 W	3.2 m ³ /h	44 m	230 V / 50 Hz	3/4"	1"	1"	DN 50	580 x 380 x 295	18 kg

Installation

The Dehoust Rain Manager is characterized by ease of installation. Simple wall mounting and sensible connection to the existing piping systems guarantee efficient installation.

RM5

With new domestic waterworks – even more powerful and quieter.



Performance in all areas

The fully automatic Rain Manager RM5 is the solution when high performance is required, such as in the garden. In addition to the security of supply, this Rain Manager also offers a high level of convenience and, with the DVGW certificate, a verifiably assured system separation.

Areas of application:

One and two-family houses with large gardens for pop-up lawn sprinklers

Technical data Rain Manager RM5

Art. no. 815092

el. Output	Flow rate		Mains-voltage	Connections			Emergency-overflow	Dimensions H x W x D mm	Weight
	Qmax	Hmax		Drinking water	Suction-side	Pressure side			
1,200 W	4.8 m ³ /h	52 m	230 V / 50 Hz	3/4"	1"	1"	DN 70	700 x 595 x 305	20 kg

C-Class CONNECT – Rain Manager

Rainwater harvesting

DehoustCONNECT makes the proven C-Class even safer and more user-friendly.

With an extension vessel, the switching frequency of the pump can be reduced and the service life extended.

Information on design can be found in our data sheets.



Article no.	Description	Flow rate Q_{max}	Flow volume H_{max}
814354	CONNECT 6-40 C-Class	6 m ³ /h	46 m
814355	CONNECT 8-40 C-Class	9 m ³ /h	42 m
814356	CONNECT 8-50 C-Class	9 m ³ /h	58 m

Rain Manager accessories C-Class CONNECT

Article no.	Description
812448	Rainwater tank level indicator
812483	Rainwater stop 1 1/4"



Industry 4.0

Equipment and advantages C-Class

- ▶ DehoustCONNECT control for regulating and monitoring the system functions
- ▶ Drinking water feeding type AA via KTW W270 approved solenoid valve with automatic closing should there be a malfunction (power failure)
- ▶ Powerful double pump system with pressure sensor and adjustable switching points
- ▶ **Extension vessel 8 litres**
- ▶ Moisture detector for installation room
- ▶ Web-enabled CONNECT control for remote inquiry and operation via smartphone, tablet or PC



C Class



Hybrid system

CONNECT hybrid system including feeder pump

The hybrid system, consisting of double pump system CONNECT with storage tank AQF, is intended for use in large-scale rainwater systems. It switches the submersible pump included with the system (with float switch and additional dry-running protection) in the cistern and, if required, automatically controls the switchover to drinking water operation in accordance with EN 1717.

The electrically-controlled and monitored magnet valve avoids pressure surges in the network and closes automatically in the event of a power failure. DehoustCONNECT prevents stagnation in the supply line in line with the relevant standards.



Article no.	Description	Flow rate Q_{max}	Conveying height H_{max}
814324	CONNECT 6-40 Hybrid	6 m ³ /h	46 m
814325	CONNECT 8-40 Hybrid	9 m ³ /h	42 m
814326	CONNECT 8-50 Hybrid	9 m ³ /h	58 m
814329	CONNECT 14-40 Hybrid	14 m ³ /h	47 m
Accessories			
812448	Rainwater tank level indicator in the CONNECT control unit		
812483	Rainwater stop 1 1/4"		
814335	Additional feed-in unit 1" with receiver tank		

The feeder pump is designed for a max. conveying height of 5 m and pressure line of 25 m.

Plastic rainwater tanks – in door



Basis tank 2,000 liters



- ▶ Protection against algae formation due to lightproof black polyethylene
- ▶ integrated calmed inlet DN 100 and overflow siphon DN 100
- ▶ modular system, expandable as desired
- ▶ large opening for tank cleaning or installation of a submersible pump

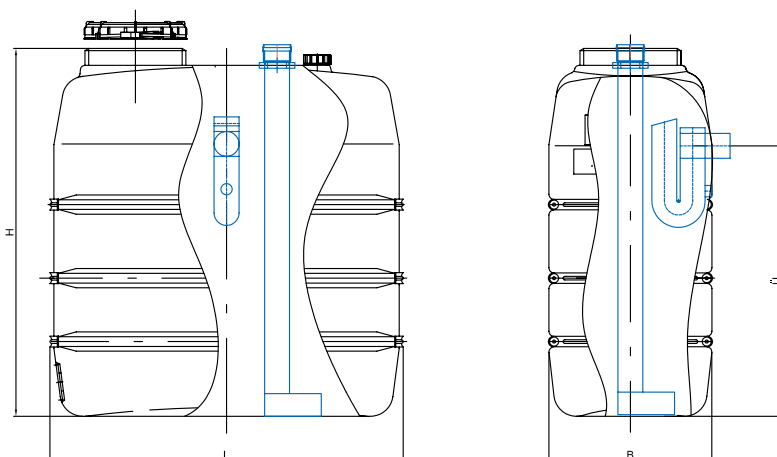
Our above-ground PE cellar tanks are quality-assured by the RAL quality seal "Rainwater systems PE storage tanks" and comply with the KTW recommendation.

Article no.	Description	Length mm	Width mm	Height mm	Height approx. mm	Height over-flow mm	Weight kg
962003	Basic tank RWN-O 1100 B	1,400	820	1,400	1,470	1,130	55
971301	Extension tank 1100 DF	1,400	720	1,400	–	–	53
962005	Basic tank RWN-O 1500 B	1,560	820	1,640	1,710	1,390	73
971303	Extension tank 1500 DF	1,560	720	1,640	–	–	71
962007	Basic tank RWN-O 2000 B	2,070	820	1,690	1,760	1,375	113
971305	Extension tank 2000 DF	2,070	720	1,690	–	–	111
962012	Basic tank RWN-O 2500 B	1,870	1,095	1,650	1,720	1,330	118
971306	Extension tank 2500 DF	1,870	995	1,650	–	–	116
962061	Basic tank RWN-O 3000 B	2,230	1,095	1,650	1,720	1,330	169
971307	Extension tank 3000 DF	2,230	995	1,650	–	–	166
962063	Basic tank RWN-O 4000 B	2,430	1,095	1,950	2,020	1,500	239
971309	Extension tank 4000 DF	2,430	995	1,950	–	–	236



Types 1100 and 1500 with a upper connection 2", 2500 to 4000 with 3 connections 2"

Basement tank with calmed inlet and overflow sip





Article no.	Description
Inline filter for underground installation and in house installation for up to 450 m² roof area	
810745	Inline filter 450 for underground installation
811184	Inline filters for in-house installation
Accessories	
810746	Revision pipe 0.75 m



Article no.	Description
Drinking water feeding for PE storage tanks	
810400	Magnet valve 1/2" with float switch 230 V and 10 m cable
810397	Magnet valve 1" with float switch 230 V and 10 m cable
810398	Magnet valve 1 1/2" with float switch 230 V and 10 m cable
810399	Magnet valve 2" with float switch 230 V and 10 m cable

Servo-controlled magnet valves for drinking water feeding with direct connection to PE storage tanks, AQF tanks or rainwater storage tanks. The lateral rectangular emergency overflow required for compliance with DIN EN 1717 can be attached to the tank at the factory upon request.

Accessories lower circulation line for unlimited storage volume



Article no.	Description
Accessories Battery installation with individual shut-off for storage tank PE-DF	
971565	Basic package DF connecting pipe DN 50 for 2 PE Dom tanks with two 1 1/2" taps
971570	Extension DF for connecting further PE Dom tanks with a 1 1/2" tap

Lower connection line with connection flange and stopcock 1 1/2" for PE storage tanks for on-site connection plastic pipe DN 50 (outer diameter 63 mm).



Article no.	Description
Accessories Battery installation with individual shut-off for storage tank PE-DF	
971555	Basic package DF connecting pipe DN 50 for 2 PE-Dom tanks
971560	Extension DF for connecting additional PE-Dom tanks
71645	Stopcock 2" for shutting off the connecting line DN 50
62276	Venting hood 2"

71645 Stopcock with 2" IT for shutting off the connecting line.

Rainwater harvesting

Domestic waterworks Aspri 15 4 GG with Kit 02



The Aspri cast iron domestic waterworks is a high quality, specially designed for rainwater harvesting, self-priming, multi-stage, horizontal centrifugal pump. It is highly efficient and is suitable for continuous operation. The domestic waterworks is equipped with a flow monitor Kit 02 for automatic operation of the pump. The pressure gauge that is included shows important information about the current pressure.

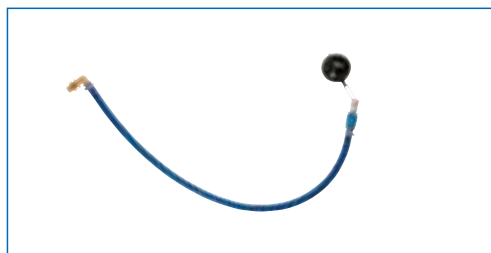
Domestic waterworks Aspri with Kit 02

Article no.	Description	kW	Flow rate Q_{max}	Conveying height H_{max}	Connection voltage
810875	Aspri 15-4 GG	0.80	3.5 m ³ /h	44 m	230 V /50 Hz



Drinking water feed into the cistern

Article no.	Description
	Electric TWNSP consisting of solenoid valve ½" 230 V, hopper DN 50 for free outlet, intermediate plug and float switch
810393	TWNSP with 10 m cable
810394	TWNSP with 20 m cable



Floating extraction

Article no.	Description
810541	Floating extraction TWIST 2 m
810542	Floating extraction TWIST 3 m



Tank accessories

Article no.	Description
810442	Calmed inlet DN 100
810439	Overflow siphon DN 100

You will find a wide range of accessories at www.dehoust.com under Products/Accessories in the Process Water section.

Safe supply for home and garden



Submersible pumps – bringing the pressure you need

Irrigation of large gardens places high demands on the pressure boosting system. Sprinkler systems require appropriate pre-pressure for pop-up sprinklers to extend.

Submersible pump SubDive 900

With integrated automatic switch and floating extraction. With dry-running protection and electronically controlled automatic reset.

Ideal for use without a make-up device and for garden irrigation in small and medium-sized systems.

If replenishment is required, it is possible to combine it with an electric drinking water replenishment (Art. No. 810393 or 810394), which fills the cistern with drinking water.

	SubDive 900
Article number:	810043
Electrical power	900 W
Flow rate Q_{\max}	6 m ³ /h
Conveying height H_{\max}	45.8 m

Domestic waterworks FU 5



The FU 5 is an automatic pressure boosting system with frequency converter that consists of:

- ▶ a highly efficient self-priming pump
- ▶ an expansion tank
- ▶ a pressure and flow sensor
- ▶ a check valve

A very compact, quiet, autonomous and powerful system.

A sophisticated electronic frequency converter at the heart of the unit intuitively controls the entire:

- ▶ Keeps the pressure of the system constant by regulating the speed of the pump in coordination with the water required.

Article no.	Description	
814286	max. flow rate in m ³ /h	7.2
	max. conveying height in m	55
	Supply voltage	230 V / 50 Hz / 16 A
	Rated current in A	10
	Connected load in W	1,500

Can also be combined to form a double pump!

