RAINWATER HARVESTING & UTILISATION PROGRAMME

AS-REWA

Rainwater management is supported by the Czech legislation. While building their family houses, people are required by the building control authorities to provide for the rainwater liquidation on their construction sites. In any case, the rainwater management is an issue that should be treated not only comprehensively, but already in the preparation phase of design documents for the building warrant procedures.

We can offer to you the most suitable solutions how to use and manage rainwater falling to the relevant building site. Such precipitations can be accumulated and consequently used in households, where they can replace, without any problems, drinking water for WC flushing, washing, etc. The rainwater is accumulated in underground tanks with subsequent overflows to stormwater infiltration facilities that replenish underground water reserves.

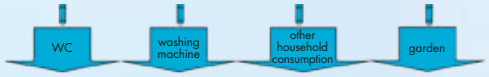
The most simple, widely used and well known to everybody is the system of bringing rainwater from a roof gutter to a drum in a garden and its consequent utilisation for irrigation purposes. In principle, the AS-REWA system for the household use is practically the same philosophy, but its design and technical level is at a substantially higher and modern levels.

The whole system for the utilisation of rainwater in households assumes:

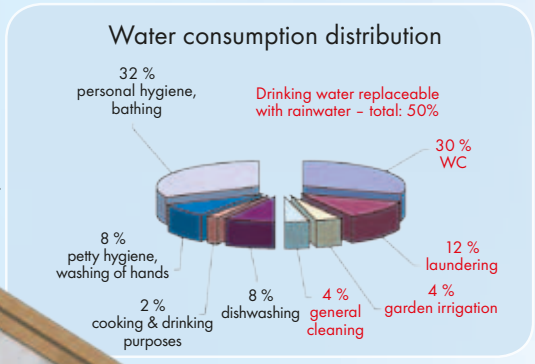
- to collect rainwater,
- to clean it from mechanical impurities,
- to accumulate it, and
- to bring it to the relevant points of consumption.

At the same time, it is necessary to provide for:

- draining of excessive rainwater outside the system, and
- possibilities of replenishment the system with drinking water (in cases of dry periods).



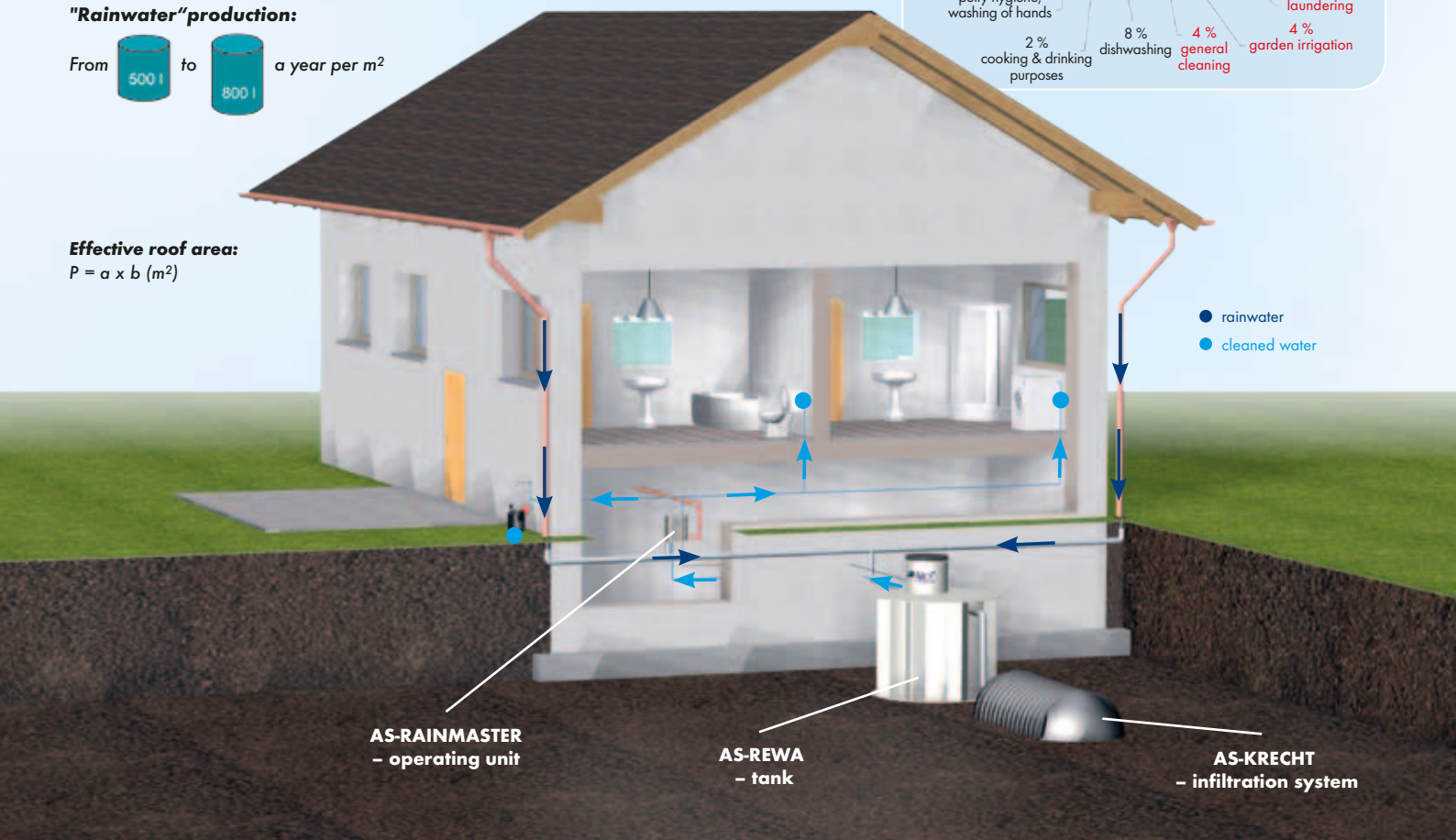
= 50% savings in drinking water consumption



"Rainwater" production:

From 500 l *to* 800 l *a year per m²*

Effective roof area:
P = a x b (m²)



AS-REWA Kombi COMPACT UNIT

The whole unit provides for:

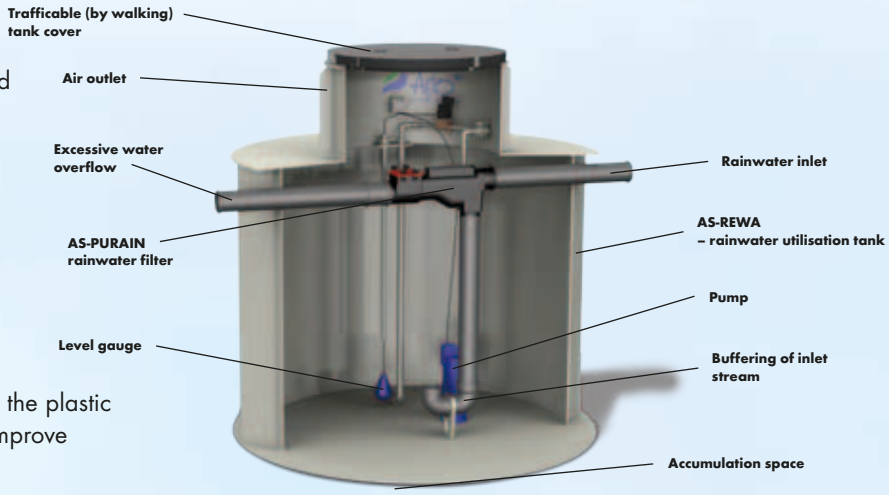
- rainwater filtration,
- rainwater accumulation,
- pumping of rainwater to the distribution system, and
- replenishment with drinking water (in case of insufficient precipitations).

The unit is supplied in standard accumulation volumes from 1 to 10 m³.

Tank design:

- plastic, self-supporting,
- plastic, prepared for concrete encasement,
- double-jacket for concrete pouring (PB – marking); the plastic materials are for isolation and concrete elements improve load-bearing properties of the structure.

AS-REWA Kombi – plastic tank for rainwater



AS-REWA Kombi EO**							
Name	Accumulation volume [m³]	External dimensions				Piping	Weight
		LxBxH [mm]	H_v	H_o	H*	DN	[kg]
AS-REWA Kombi 1 EO	1.02	Ø 1000/1510	1350	1300	1810	100	150
AS-REWA Kombi 2 EO	2.00	Ø 1400/1510	1350	1300	1810	100	180
AS-REWA Kombi 3 EO	2.78	Ø 1650/1510	1350	1300	1810	100	200
AS-REWA Kombi 4 EO	4.21	Ø 1800/2000	1770	1720	2300	150	240
AS-REWA Kombi 5 EO	4.70	Ø 1900/2000	1770	1720	2300	150	260
AS-REWA Kombi 6 EO	6.30	Ø 2150/2000	1770	1720	2300	150	280
AS-REWA Kombi 7 EO	7.20	Ø 2300/2000	1770	1720	2300	150	300
AS-REWA Kombi 8 EO	8.00	Ø 2400/2000	1770	1720	2300	150	330
AS-REWA Kombi 9 EO	8.80	Ø 2550/2000	1770	1720	2300	150	350

H – height with the standardised air outlet 300 mm, **EO – cylindrical tank*

AS-REWA Kombi EO/PB**						
Name	Accumulation volume [m³]	External dimensions			Piping	Weight
		DxH [mm]	H_v	H_o	DN	[kg]
AS-REWA Kombi 4 EO/PB	3.94	Ø 2000/2220	1790	1740	150	790
AS-REWA Kombi 5 EO/PB	5.13	Ø 2240/2220	1790	1740	150	1080
AS-REWA Kombi 6 EO/PB	6.48	Ø 2480/2220	1790	1740	150	1300
AS-REWA Kombi 8 EO/PB	7.99	Ø 2720/2220	1790	1740	150	1395

**EO/PB – cylindrical tank, above the groundwater level*

AS-REWA Kombi EO/PB-SV**						
Name	Accumulation volume [m³]	External dimensions			Piping	Weight
		DxH [mm]	H_v	H_o	DN	[kg]
AS-REWA Kombi 4 EO/PB-SV	3.94	Ø 2000/2370	1940	1890	150	860
AS-REWA Kombi 5 EO/PB-SV	5.13	Ø 2240/2370	1940	1890	150	1150
AS-REWA Kombi 6 EO/PB-SV	6.48	Ø 2480/2370	1940	1890	150	1370
AS-REWA Kombi 8 EO/PB-SV	7.99	Ø 2720/2370	1940	1890	150	1465

**EO/PB-SV – cylindrical tank, under the groundwater level*

AS-REWA Kombi ER**							
Name	Accumulation volume [m³]	External dimensions				Piping	Weight
		LxBxH [mm]	H_v	H_o	H*	DN	[kg]
AS-REWA Kombi 6 ER	6.41	2080/2080/2100	1805	1755	2400	150	570
AS-REWA Kombi 8 ER	8.08	2580/2080/2100	1805	1755	2400	150	800
AS-REWA Kombi 10 ER	10.19	2580/2580/2100	1805	1755	2400	150	890

H – height with the standardised air outlet 300 mm, **ER – square tank*

AS-REWA ECO COMPACT UNIT

The whole unit provides for:

- rainwater filtration, and
- rainwater accumulation.

The unit is supplied in standard accumulation volumes from 1 to 10 m³.

Tank design:

- plastic, self-supporting,
- plastic, prepared for concrete encasement,
- double-jacket for concrete pouring (PB – marking); the plastic materials are for isolation and concrete elements improve load-bearing properties of the structure.

AS-REWA ECO – plastic tank for rainwater

AS-REWA ECO EO**							
Name	Accumulation volume [m³]	External dimensions				Piping	Weight
		DxH [mm]	H_v	H_o	H*	DN	[kg]
AS-REWA ECO 1 EO	1.02	Ø 1000/1510	1350	1300	1810	100	100
AS-REWA ECO 2 EO	2.00	Ø 1400/1510	1350	1300	1810	100	130
AS-REWA ECO 3 EO	2.78	Ø 1650/1510	1350	1300	1810	100	150
AS-REWA ECO 4 EO	4.21	Ø 1800/2000	1770	1720	2300	150	220
AS-REWA ECO 5 EO	4.70	Ø 1900/2000	1770	1720	2300	150	240
AS-REWA ECO 6 EO	6.30	Ø 2150/2000	1770	1720	2300	150	260
AS-REWA ECO 7 EO	7.20	Ø 2300/2000	1770	1720	2300	150	280
AS-REWA ECO 8 EO	8.00	Ø 2400/2000	1770	1720	2300	150	300
AS-REWA ECO 9 EO	8.80	Ø 2550/2000	1770	1720	2300	150	330

H – height with the standardised air outlet 300 mm, **EO – cylindrical tank*

AS-REWA ECO EO/PB**						
Name	Accumulation volume [m³]	External dimensions			Piping	Weight
		DxH [mm]	H_v	H_o	DN	[kg]
AS-REWA ECO 4 EO/PB	3.94	Ø 2000/2220	1790	1740	150	770
AS-REWA ECO 5 EO/PB	5.13	Ø 2240/2220	1790	1740	150	1060
AS-REWA ECO 6 EO/PB	6.48	Ø 2480/2220	1790	1740	150	1280
AS-REWA ECO 8 EO/PB	7.99	Ø 2720/2220	1790	1740	150	1375

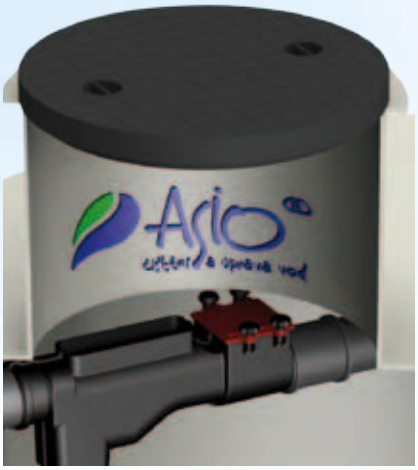
***EO/PB – cylindrical tank, above the groundwater level*

AS-REWA ECO EO/PB-SV**						
Name	Accumulation volume [m³]	External dimensions			Piping	Weight
		DxH [mm]	H_v	H_o	DN	[kg]
AS-REWA ECO 4 EO/PB-SV	3.94	Ø 2000/2370	1940	1890	150	840
AS-REWA ECO 5 EO/PB-SV	5.13	Ø 2240/2370	1940	1890	150	1130
AS-REWA ECO 6 EO/PB-SV	6.48	Ø 2480/2370	1940	1890	150	1350
AS-REWA ECO 8 EO/PB-SV	7.99	Ø 2720/2370	1940	1890	150	1445

***EO/PB-SV – cylindrical tank, under the groundwater level*

AS-REWA ECO ER**							
Name	Accumulation volume [m³]	External dimensions				Piping	Weight
		LxBxH [mm]	H_v	H_o	H*	DN	[kg]
AS-REWA ECO 6 ER	6.41	2080/2080/2100	1805	1755	2400	150	550
AS-REWA ECO 8 ER	8.08	2580/2080/2100	1805	1755	2400	150	780
AS-REWA ECO 10 ER	10.19	2580/2580/2100	1805	1755	2400	150	870

H – height with the standardised air outlet 300 mm, **ER – square tank*



RAINWATER UTILISATION SYSTEM – INDIVIDUAL SEGMENTS

AS-RAINMASTER

OPTIMISED EQUIPMENT FOR RAINWATER UTILISATION IN FAMILY HOUSES

AS-RAINMASTER is a fully automated operating and monitoring unit with a pump, control system and integrated replenishment with drinking water..
The equipment can be installed in a cellar, garage, or a groundfloor plantroom of any family house. Over the suction pipe, the water is sucked from the reservoir and then it is brought for garden irrigation purposes, flushing of toilets and filling of washing machines. If there is a lack of rainwater or grey water, AS-RAINMASTER will replenish the system automatically with drinking water over the integrated accumulation tank.

Type	Dimensions LxBxH [mm]	Mains voltage/ absorbed power [V/kW]	Max. flow rate [l/min]	Max. operating pressure [bar]	Noise level [dB]
AS-RAINMASTER Eco 10	398x353x200	230V / 0.09W	10	3.5	48
AS-RAINMASTER Favorite 20	595x550x265	230 V/ 0.8 kW	80	2.0-4.5	35-60
AS-RAINMASTER Favorite 40	595x550x265	230 V/ 1.25 kW	110	2.0-5.5	36-65
AS-RAINMASTER Favorite 20-SC	595x550x265	230 V/ 0.8 kW	80	2.0-4.5	35-60
AS-RAINMASTER Favorite 40-SC	595x550x265	230 V/ 1.25 kW	110	2.0-5.5	36-65

AS-PURAIN

RAINWATER FILTER FOR INSTALLATIONS INSIDE THE TANK WITH UNIQUE PATENTED SELF-CLEANING – WATER JUMP

AS-PURAIN filter (DN 100-400) is intended for filtering of rainwater collected from building roofs to accumulation tanks for its further use.
Collected rainwater cleaned from impurities with the AS-PURAIN filter offers excellent quality. Water can be further used for garden irrigation purposes, flushing of toilets or laundering. Furthermore, with the use of "soft" rainwater you can reduce your consumption of washing powders. In addition, soft water is friendly to the connected appliances and they in turn tend to be less contaminated with calcium deposits / incrustations.
This is also one of reasons speaking for its use in other areas, e.g. in business/commercial applications.

AS-KRECHT

SYSTEMS FOR RAINWATER A ACCUMULATION

AS-KRECHT is a tunnel-shaped accumulation and draining system consisting of a lightweight plastic semicircular receiver body (bodies) closed at its both sides with plastic ends. This creates a large-capacity underground space suitable for accumulation and gradual infiltration of rainwater brought there from hard surfaces and areas.

Technical specifications

AS-KRECHT
– T 1600 M MEDIUM-SIZED TUNNEL
Dimensions: 2,3 x 0,81 x 1,3 m (L x H x W)
Effective length: 2,25 m
Weight: 32 kg
Volume (net): 1,6 m^3

AS-KRECHT
– T 100/100E, front and rear ends
Dimensions: 0,48 x 0,78 x 1,3 m (L x H x W)
Effective length: 0,44 m
Weight: 5 kg

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