

AQUA'TERNE®



RAINWATER UTILIZATION FOR LARGE-SCALE CONSUMERS



RIKUTEC Group

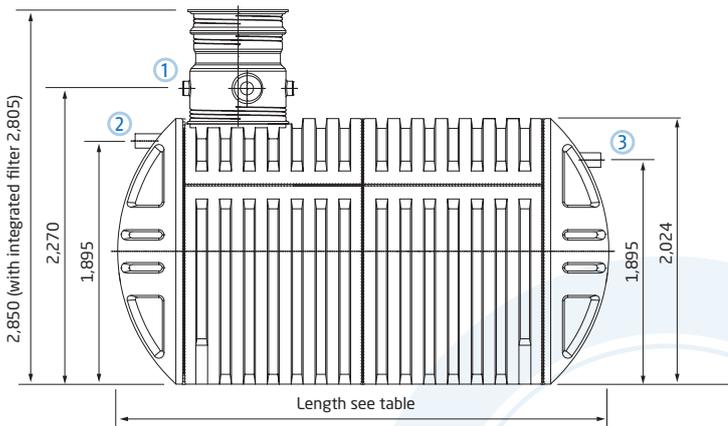
AQUA'TERNE 204 –

THE CONTAINER SERIES FOR INDUSTRIAL AND MUNICIPAL LARGE-SCALE PROJECT

The **AQUA'TERNE 204** tank series from **RIKUTEC** is an individual solution for a great number of industrial-water areas of application, with a thirty-year guarantee on the container body. The tank size can vary between 5,000 and 52,500 liters in this case. In case of projects and building constructions with a higher volume requirement, several tanks can be combined into one system.

All **AQUA'TERNE 204-Tanks** are produced from double walled, environmentally-friendly, high-molecular-weight polyethylene (HDPE) and are therefore far more lightweight than concrete cisterns. The largest model weighs just 3,080 kg with a holding capacity of 52,500 liters and a length of about 20 meters, as a result of which a cost-efficient transport and installation is guaranteed.

The ground-water-stable **AQUA'TERNE cisterns** are buried in the ground and are therefore protected against frost. After the installation, the surface remains further available: The container body is especially stable as a result of its double-walled structure, with external bracing and a smooth interior wall, and with an axle load of 11.5 tons it can be transported by road. In addition, a covering is also available as a separate accessory, which can be transported by truck. An above-ground installation is also possible.



Volume / l	Length / mm	Weight / kg
5,000	2,330	365
8,500	3,670	560
12,500	5,010	755
16,000	5,350	955
19,500	7,690	1,145
23,500	9,030	1,340
27,000	10,370	1,550
30,500	11,710	1,750
34,000	13,050	1,950
38,000	14,390	2,150
41,500	15,730	2,350
45,500	17,070	2,670
49,000	18,410	2,880
52,500	19,750	3,080

Tank diameter 2.024 mm
(applies for all sizes)

- ① Supply flow in case of design implementation with integrated filter (DN100)
- ② Supply flow in case of design implementation without integrated filter (to 8,500 / DN100, above 12,500 / DN150)
- ③ Overflow (to 8,500 / DN100, above 12,500 / DN 150) All measurements in mm

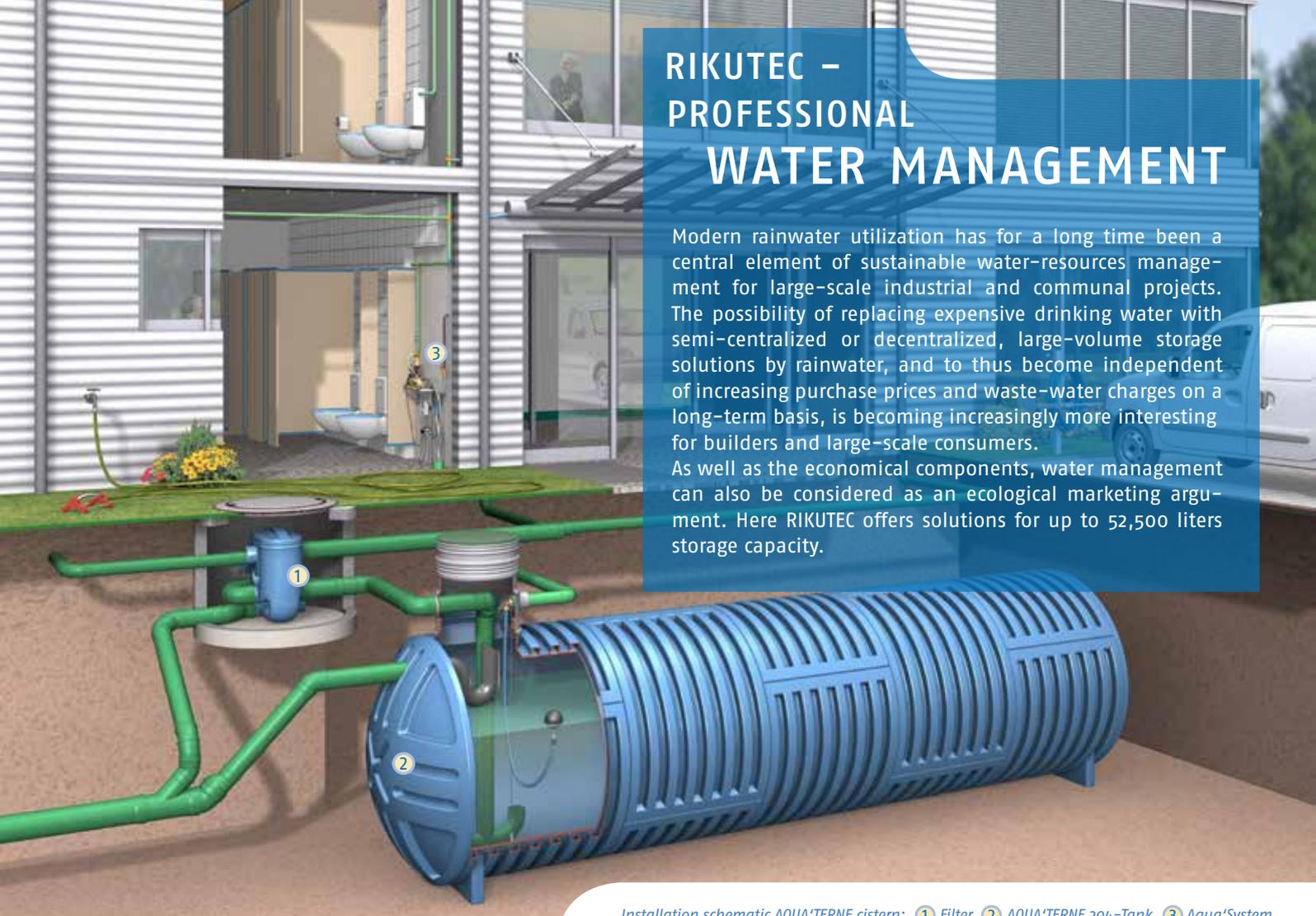


Even the largest cistern can be shipped to their final destination (delivery through special transportation vehicles).

RIKUTEC – PROFESSIONAL WATER MANAGEMENT

Modern rainwater utilization has for a long time been a central element of sustainable water-resources management for large-scale industrial and communal projects. The possibility of replacing expensive drinking water with semi-centralized or decentralized, large-volume storage solutions by rainwater, and to thus become independent of increasing purchase prices and waste-water charges on a long-term basis, is becoming increasingly more interesting for builders and large-scale consumers.

As well as the economical components, water management can also be considered as an ecological marketing argument. Here RIKUTEC offers solutions for up to 52,500 liters storage capacity.



Installation schematic AQUA'TERNE cistern: ① Filter ② AQUA'TERNE 204-Tank ③ Aqua'System

Modern rainwater management has developed with a history of success in past years, and this opens up alternative solutions to becoming independent of increasing resource costs on a long-term basis with a comparably low investment outlay and short amortization period.

The use of rainwater brings considerable savings in drinking water charges. The water obtained through a cistern is ready for action in a trouble-free hygienic state and immediately as industrial water. The cushioning of increasing energy costs resource-efficiently and providing for a generally-increasing level of environmental awareness of consumers do not stop at the door of the private freehold dwelling owner.

These features also apply increasingly for cities, municipalities or private-economic large-scale projects where energy consumption can be lowered and resources used more efficiently. As well as the cost-economizing effects of modern waterresources management, ever more marketing arguments arise regarding the keyword **„Greenwashing with rainwater“**: In times of climate change and increasing energy costs, rainwater utilization is at the same time also a marketing aspect for builders and investors and a strong argument for communal and urban decision-makers.



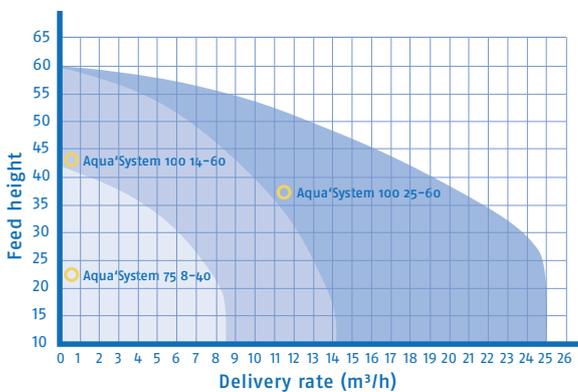
Transport and installation of the AQUA'TERNE tank are possible everywhere – we reach even the most faraway locations ...

CONTROL ENGINEERING FOR COMMERCIAL USE

The **Aqua'System 75/100** is a completely-equipped rainwater central unit for ground installation with integrated receiver tank, double-pump, pressure-boost system and electronic control with 4-cell LCD display.

The rainwater central unit supplies the connected consumers with rainwater, such as e.g. toilets, urinals, exterior tap points and rainwater lawn sprinklers. Also in case of a lack of rainwater, the operational readiness is continuously maintained over a requirement-oriented drinking-water backfeed of the rainwater central unit. The control monitors the filling levels in the collection and receiver container. By means of the feed pump in the collection tank, rainwater is conveyed automatically and demand-driven into the receiver tank. In case of a lack of rainwater or manual

switchover, drinking water according to **DIN EN 1717** is back-fed automatically and demand-driven over a solenoid valve into the receiver tank. Furthermore, the rainwater central unit control-activates the solenoid valve at regular intervals in order to avoid stagnation in the drinking water lines. The **Aqua'System 75/100** is provided with an integrated pressure-boosting system with intelligent pressure-sensor control, which is operated over the controls of the central units. Optical and acoustic signals indicate any malfunctions. The rainwater central unit identifies faults and reacts to these in order to maintain operational readiness. Furthermore, the zero-potential fault-signaling unit enables a remote indication of the fault. As well as this, the control has an **RS 232 interface** to the data transfer.



RAINWATER FILTER ALSO FOR INDUSTRIAL OBJECTIVES

The **Twinfilter** is a rainwater filter for roof-surface areas up to 1,254 m² and can be installed in a pilot shaft or in frost-proof regions directly on the wall. As a result of its two-step cleaning principle, it has a high level of efficiency, independently of the volume flow. As a result of the steep setting of the filter inserts, the filtered-out dirt is flushed continuously in the direction of the sewage system and the clean water is routed into the storage.

For light, accessible cisterns the installation of filter units, such as e.g. the **retention filters XL** for roof surfaces up to 627 m², is also possible. The dirt is collected in the filter basket and thus 100% cleaned water is ensured. For loaded surfaces, such as roads and metal roofs, the employment of the **Hydrosystem** is possible. Dissolved materials are also filtered out of the rainwater by means of different substrates and thus cleaned for use and/or subsequent ground drainage.



RIKUTEC – WATER MANAGEMENT

FOR DIVERSE AREAS OF APPLICATION



... NOT ONLY „ONE“ TANK!



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Certified according to DIN ISO 9001



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