

RACUN SETS NEW STANDARDS FOR STANDARD-COMPLIANT WATER TREATMENT

Racun is the new generation of intelligent cooling and heating water treatment for all applications where absolute reliability is critical

Racun Series

(Stationary water treatment for heating and cooling circuits)

The **Racun Series** comprises treatment units that reliably ensure consistently stable water quality even in complex and highly sensitive systems. Wherever failures have serious consequences – in industrial plants, hospitals, local heating networks, or data centers – Racun offers a level of safety that sets new standards.

At its core is a comprehensive monitoring and protection concept: continuous monitoring of conductivity and makeup water volume with automatic leak protection that prevents uncontrolled water leakage (optional), automatic treatment and shutdown, as well as complete logging of all operating

data in **the UWS Cloud Portal**, ensure maximum transparency and safety. Operators can detect deviations at an early stage, plan maintenance in advance, and thus ensure trouble-free system operation.



Your benefits

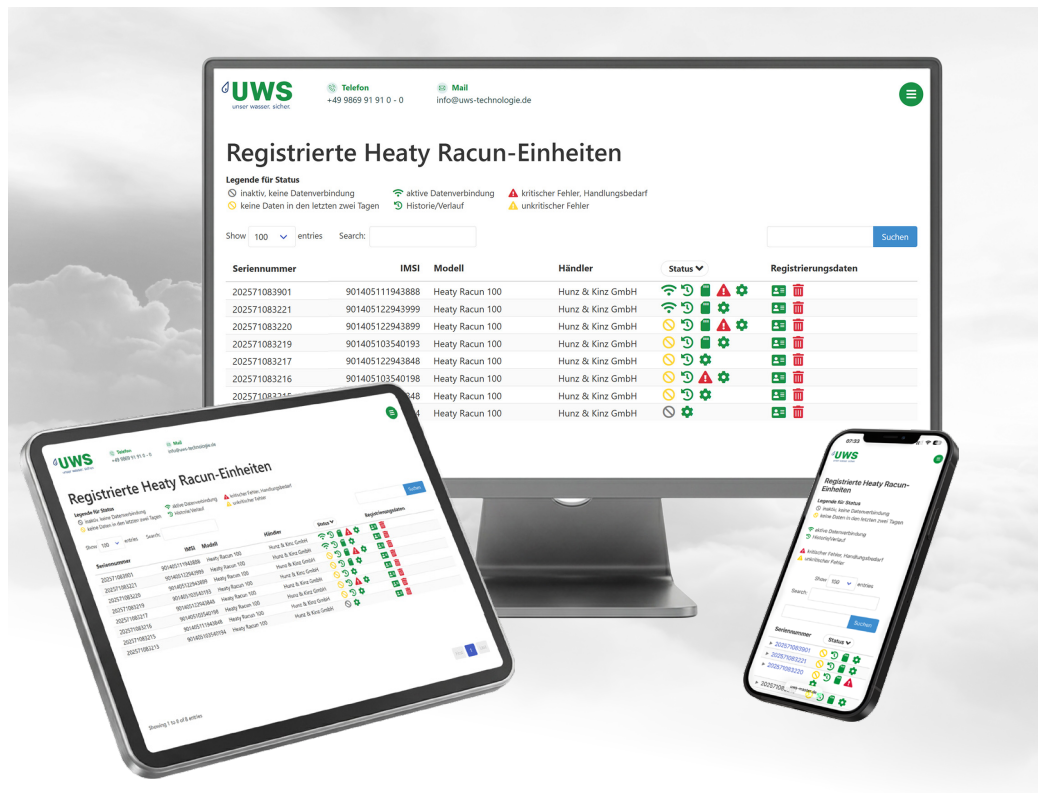
- ✓ Ideal for systems up to 1,000 m³
- ✓ Maximum safety: Cloud monitoring & proactive fault alerts
- ✓ 2-in-1 filtration: 11× 12,000 Gauss (or 6× 12,000 Gauss for RACUN 100) + 1-µm fine filter
- ✓ Intuitive control: via smartphone/laptop
- ✓ Energy-efficient & quiet: PWM pump + high-quality insulation
- ✓ Instantly online, even in the basement: integrated eSIM – no IT infrastructure required
- ✓ Optional: automatic replenishment & communication versions (MQTT, MODBUS TCP/RTU, Wi-Fi, Ethernet)
- ✓ Complete documentation of all operating data
- ✓ Up to 15% higher system efficiency
- ✓ Intelligent mixed-bed resin detection incl. Enabling additional operating modes (NFC)
- ✓ Longer service life, lower operating costs
- ✓ Integrated leak protection with solenoid valve
- ✓ Building management systems

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Maximum operational reliability

The new UWS Cloud Portal immediately displays deviations through proactive fault notifications, continuous monitoring, and comprehensive data documentation, and archives them in a traceable manner. This reduces the risk of failure and provides additional security in critical infrastructures such as industrial plants, hospitals, local heating networks, or data centers. The devices can be easily operated via smartphone or notebook thanks to an integrated access point. Offline versions without eSIM are also available for safety-critical installations.



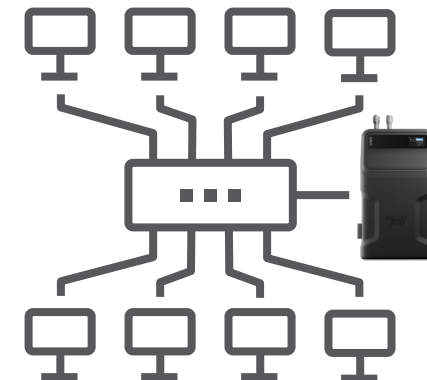
Upgrade your Racun with additional versions!

Fully automatic replenishment – FILL version

Thanks to constant system pressure, complete documentation of all make-up water quantities, and integrated leakage protection with a solenoid valve, the system automatically maintains stable pressure while protecting against uncontrolled water loss. This increases operational safety and creates full transparency regarding the replenishment quantity.

Future-proof networking – Version COM

The communication version supports MQTT, MODBUS TCP/RTU, WLAN, and Ethernet. This allows you to easily integrate the system into existing building management technology, enabling you to exploit automation potential and make future expansions possible without any effort – a real investment protection.



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Technical data

Technical data	RACUN 100	FILL	COM	FILL COM	RACUN 300	FILL	COM	FILL COM
Connection line Cooling/heating system	at least DN32 (1 1/4") > RACUN DN25 (1")				at least DN50 (2") > RACUN DN40 (1 1/2")			
Suitable for system sizes	up to 80 m ³				80 - 1.000 m ³			
Max. operating pressure	8 bar				8 bar			
Ø Circulation capacity during filtration	Pump PWM controlled. Filtration approx. 4,500 l/h				Pump PWM controlled. Filtration approx. 9,500 l/h			
Ø Circulation capacity during treatment and filtration	approx. 800 l/h				approx. 2,300 l/h			
Capacity at 420 µS/cm to < 100 µS/cm*	3,420 l				9,360 l			
Power supply	230 V / 50/60 Hz				230 V / 50/60 Hz			
Weight (including mixed bed resin filling)	59 kg				122 kg			
Dimensions D/W/H (mm)	444 / 685 / 1,209				540 / 830 / 1,581			
Contents Vadion pH-Control	23 l				63 l			
Suitable for hot water up to 80 °C	✓	✓	✓	✓	✓	✓	✓	✓
Bypass capable	✓	✓	✓	✓	✓	✓	✓	✓
Fine filter	1 µm				1 µm			
Magnetite separator	6 x 12,000 Gauss				11 x 12,000 Gauss			
Insulation according to GEG 20245	✓	✓	✓	✓	✓	✓	✓	✓
NFC technology for Vadion Tag	✓	✓	✓	✓	✓	✓	✓	✓
Integrated eSIM with automatic cloud connection	✓	✓	✓	✓	✓	✓	✓	✓
Incl. Refreshment version								
Max. filling capacity		approx. 1,200 l/h		approx. 1,200 l/h		approx. 3,000 l/h		approx. 3,000 l/h
Automatic leakage protection		✓		✓		✓		✓
Standard-compliant replenishment incl. documentation		✓		✓		✓		✓
Incl. Communication version								
MQTT, MODBUS TCP/RTU, Ethernet, WLAN			✓	✓			✓	✓
Article number	U-311010	U-311011	U-311012	U-311013	U-311030	U-311031	U-311032	U-311033

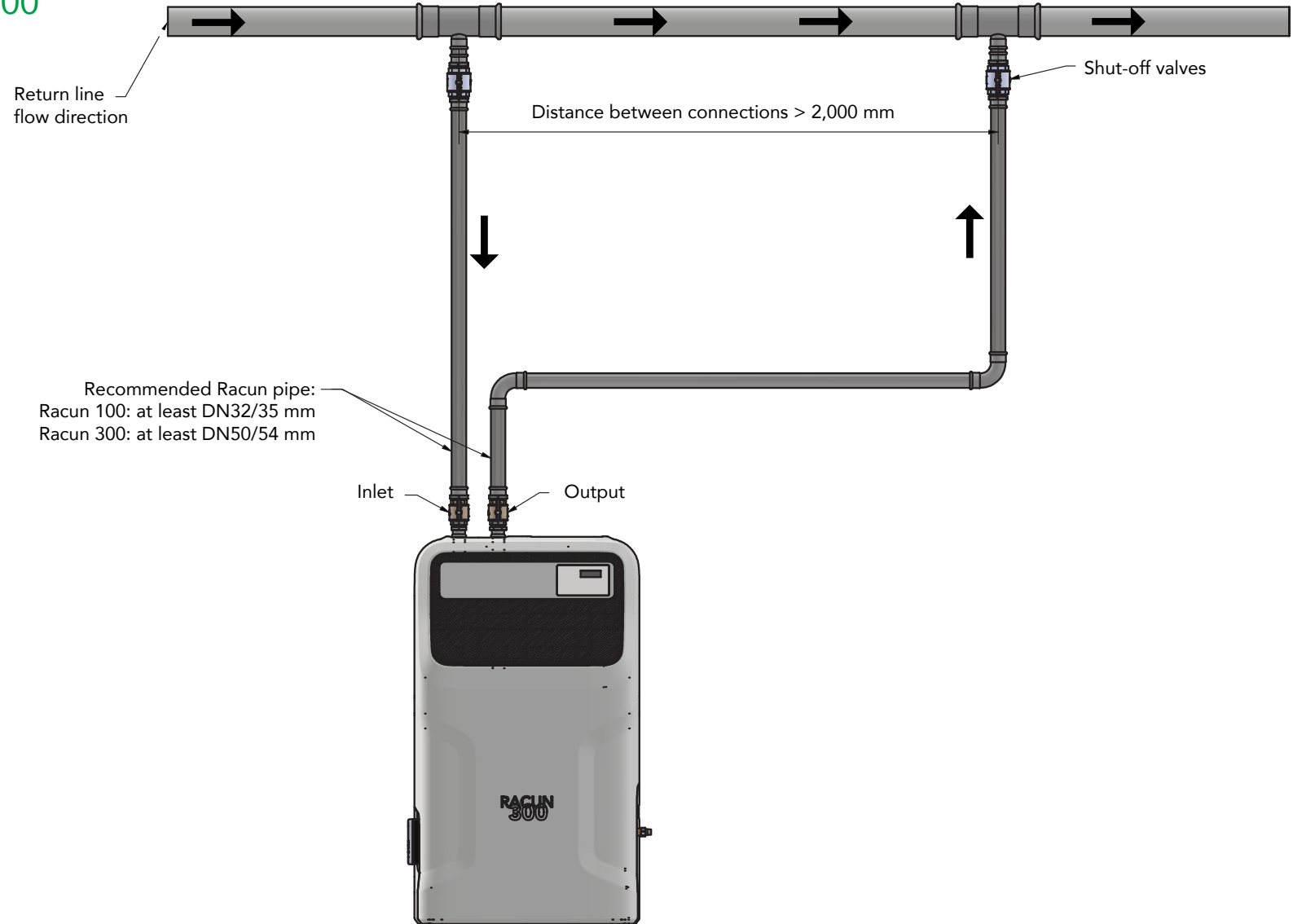
* The capacity specifications are based on the ideal case. Deviations may occur due to application errors, water quality and temperature.



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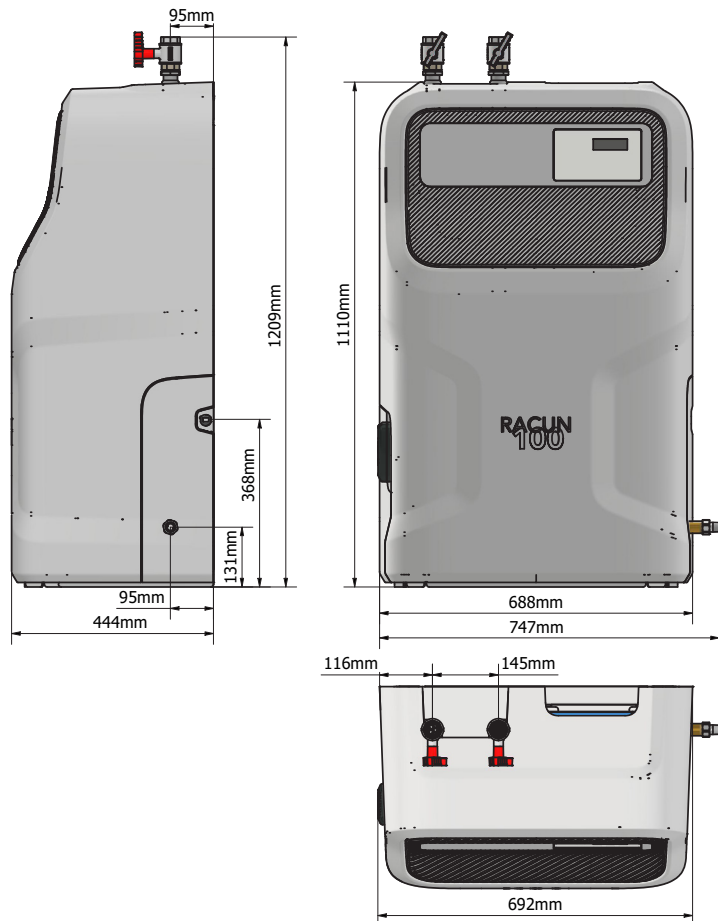
Diagram Racun 100 and 300



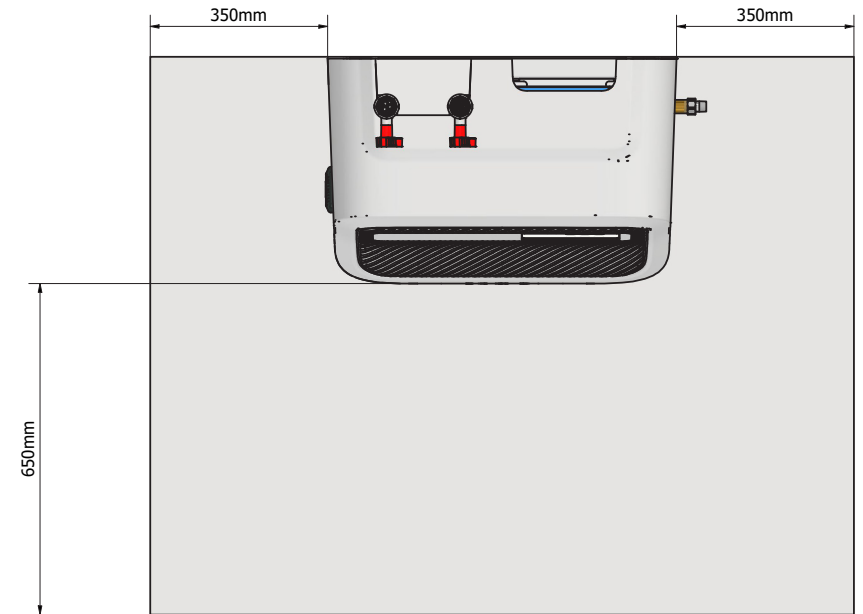
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Dimensions Racun 100



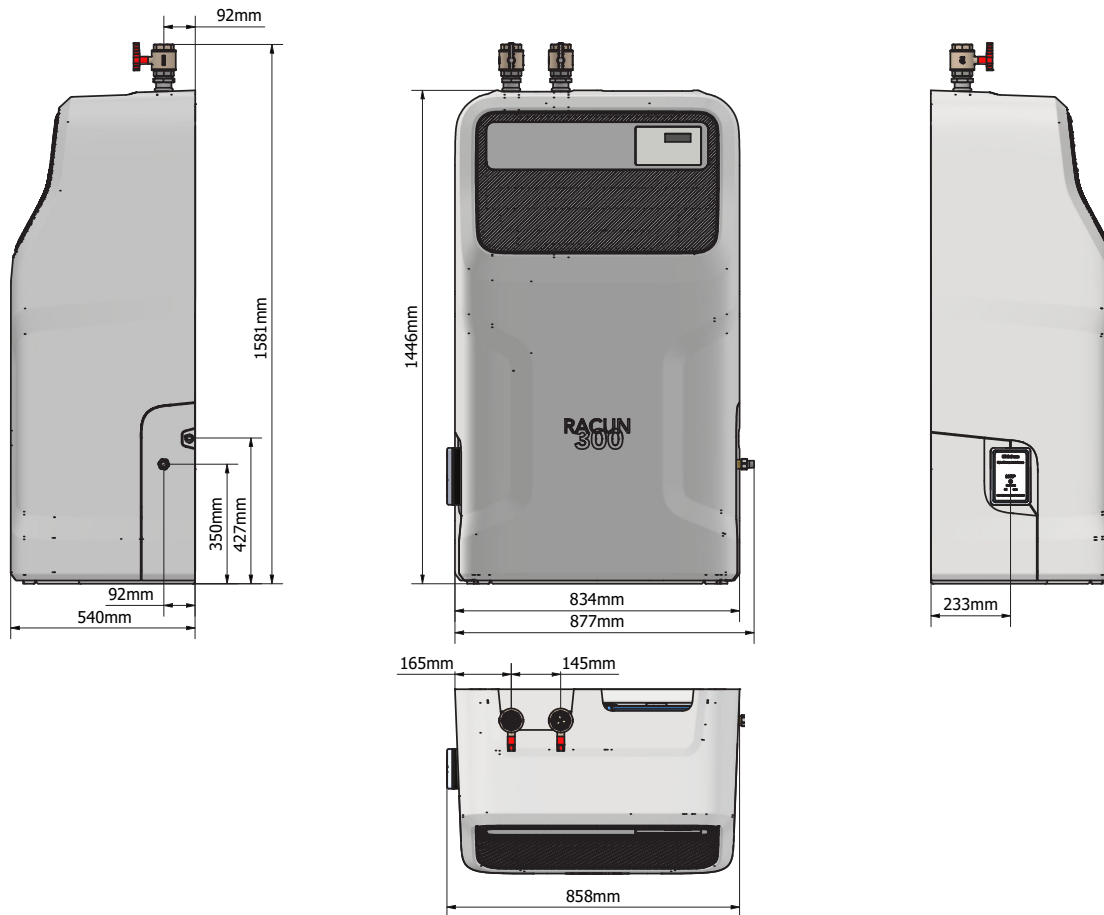
Minimum clearance Racun 100



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Dimensions Racun 300



Minimum clearance Racun 300

