



**Engineering progress  
Enhancing lives**

## **RAUTITAN**

The universal system for drinking water  
and heating

#expectmore







# How about a little something extra?

Faster, smarter, more sustainable. For ever-lower prices, with never-ending staff shortages. The sanitary, heating and air conditioning industry has it anything but easy.

So it's all the more important to be able to rely on a partner who knows their customers' needs. This is exactly why we've been successfully working to make the lives of our customers, and their customers, a little bit better every day for more than 70 years – true to our motto: "Engineering Progress. Enhancing Lives."

The result is more than just products. It's innovative solutions perfectly matched to one another which are therefore faster, easier and safer to install. On top of that, there's a comprehensive service portfolio which makes the analogue and digital aspects of everyday sanitary, heating and air conditioning work easier.

## #expectmore

### **Our system for installation professionals with added value:**

- Plumbing and heating
- Building drainage
- Underfloor heating/cooling
- District heating
- Geothermal energy
- Building ventilation

# A system with more possibilities

RAUTITAN is the universal system solution for drinking water and heating.

Whether it's new construction, renovation, a detached house or a commercial complex, you're perfectly prepared for almost every contingency with the universal RAUTITAN system. This is ensured by the flexible 16 to 40 mm RAUTITAN flex pipes, the rigid 16 to 63 mm RAUTITAN stabil pipes, matching fittings and compression sleeves, and the sophisticated RAUTOOL tool range.

All information can also be found at [www.rehau.uk/rautitan](http://www.rehau.uk/rautitan)

## The added value of RAUTITAN



### Reliability

Thanks to our Everloc™ compression sleeve jointing technology, RAUTITAN is leak-tight with no O-rings.



### Fast installation

Simple visual inspection of the joint.



### Future-proof

All drinking water system fittings are lead-free gunmetal, ensuring the highest standards of drinking water quality.



### High performance

Minimal bore reduction from the fitting when the pipe is expanded.



### Optimal hygiene

Independently certified cavity-free joint preventing the build up of residue.



**RAUTITAN flex**  
PE-Xa pipe  
16–40 mm

**RAUTITAN stabil  
with Class B fire  
rated insulation**  
manufactured to  
BS EN 13501-1:2018  
Fire classification  
of construction  
products and  
building elements

**RAUTITAN stabil**  
Multi-layer composite  
pipe 16–63 mm

**RAUTITAN RX+**  
Thread fittings  
made of lead-free  
gunmetal



**RAUTITAN PX**  
Compression sleeve jointing  
technology made of PVDF



**RAUTITAN PX**  
Fitting made of the  
high-performance  
material PPSU



  
**Tried and tested in practice**  
This pipe system and jointing  
technology have been in use for  
over 30 years in more than 50  
countries. To date, over 900 million  
compression sleeve joints have been  
manufactured.

# On the safe side. Always.

UK insurers pay out £2.2 million every day for “Escape of Water” claims. The most common causes are defective seals and connections. RAUTITAN reduces this processing and damage risk considerably.

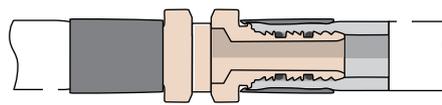
## Reliability without compromises

Compared with other drinking water systems, its pipes, fittings and compression sleeves, RAUTITAN creates a permanently sealed joint without O-rings. The pipe itself is the sealing compound, and the installation is immediately able to handle pressure loads.

## RAUTITAN



## Press fitting systems



## Certainty at first glance

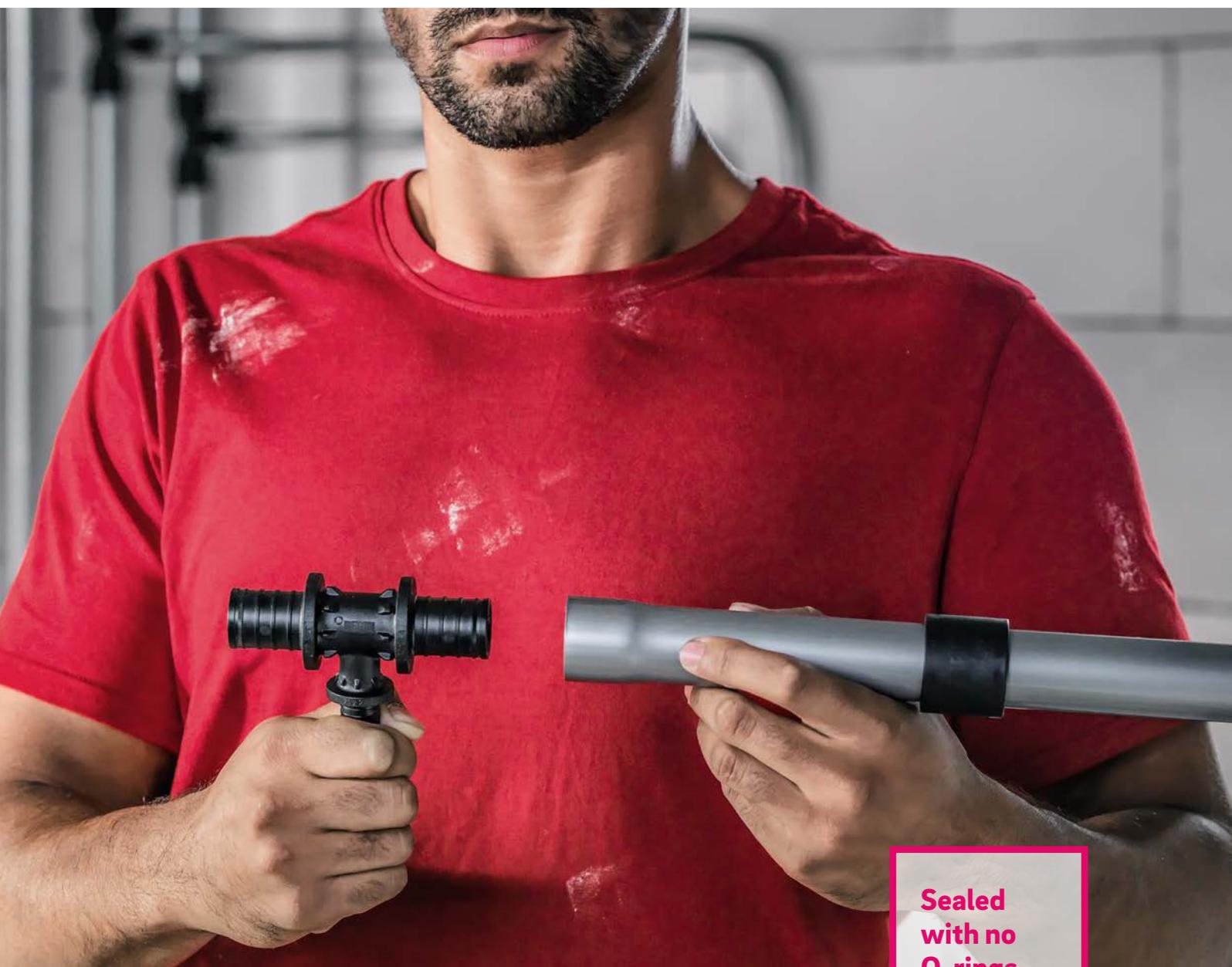
Even before pressure testing, a simple visual check is enough to be certain: if the compression sleeve is pressed right up to the fitting collar, the connection is finished. Time-consuming manual markings for testing, like those needed for many press fittings, simply aren't required.

## A future-proof service

RAUTITAN universal pipes with cross-linked polyethylene liners are especially robust, making them perfectly armed for rough, everyday construction site work. This is ensured by additional comprehensive quality-assurance measures and tests during the production process as well as regular testing by independent testing institutes.

Source:  
Association of British Insurers (ABI), 2019





**Sealed  
with no  
O-rings**



**RAUTITAN has the hang of it**

In comparison to conventional multi-layer composite pipes, RAUTITAN impresses with a considerably reduced risk of kinking, especially in small dimensional ranges. Flexibility is still retained, though, so it can very simply be bent around your thumb even at low temperatures and without any additional tools.



## **More than just a clean affair**

Drinking water is our most important resource. This makes choosing a hygiene-optimised installation solution a matter of absolute trust.

## Reliable cavity free joint

### Lead-free and future-proof

The newly developed RAUTITAN RX+ gunmetal fittings make it possible: The RAUTITAN drinking water system has been lead-free since 2020, thus creating more safety reserves for the hygiene standards of tomorrow.

### Germ-free as verified by the Fraunhofer Institute

The high impermeability of the compression sleeve joint technology effectively prevents microbial contamination. RAUTITAN has been independently certified as having a connection area free from dead space. You can download the scientific assessment on microbial contamination potential and the freedom from dead space of RAUTITAN at [www.rehau.uk/cavityfree](http://www.rehau.uk/cavityfree).

### Hygiene-optimised design

In addition to cavity-free joints, smooth pipe inner walls prevent coarse deposits, which helps reduce germ growth. This makes RAUTITAN optimally suitable for areas of use with special hygiene requirements, such as hospitals.

### Everything flows

RAUTITAN is optimally designed for intelligent pipe routings, particularly for pass-through and ring pipe solutions. If individual tapping points or even entire pipe sections are out of use temporarily or for the long term, the water still keeps flowing. A variety of double-walled brackets in dimensions 16, 20 and 25 ensure corresponding flexibility and greater planning security.



### Hygienic leak testing

With RAUTITAN, leak testing can be carried out with water, air or inert gases. This prevents the growth of harmful micro-organisms like Legionella bacteria as a result of longer periods of water stagnation between testing and commissioning.



# Strong performance

Pipe installations have to be designed to be as demand-oriented and efficient as possible.

This is why increasingly smaller pipe diameters are being used, as these require less pipeline content and shorter output times. However, this often comes with the risk of greater pressure loss. This is something that can be avoided with the flow-optimised RAUTITAN system solution.



## **Bottleneck connection area? Not with RAUTITAN!**

Compared with other jointing technologies, RAUTITAN enables nearly unobstructed flow even in the connection area. Constrictions are minimised by the expansion technology. Together with the hydraulically optimised inner contours of the fittings, RAUTITAN has been impressing with minimal pressure loss for decades.



## **The pipe elbow guide makes a difference too**

RAUTITAN pipes can be installed with radii favourable to flow, where sharp-angle deflections are eliminated. In conjunction with the hydraulically optimised fittings, they yield very good flow rate values.



Higher-performance  
**for high rise  
buildings**

RAUTITAN stabil  
50 and 63

#### **Greater efficiency for high rise**

The addition of the 50 and 63 mm pipe sizes to the RAUTITAN stabil product range allows for larger and taller buildings to be installed quickly with the compression sleeve jointing technology. No compromises necessary.

#### **Straightforward mixed installations**

RAUTITAN can be used in mixed installations with metal pipelines. Contact REHAU UK Technical team for more information.



#### **Optimised for economical installation**

As RAUTITAN is a complete system where all the components are perfectly matched to one another, you'll benefit from outstanding performance values and other features that accelerate installation. This includes, among other things:

- pre-insulated pipes for extra time savings;
- innovative components for radiator connection through the flooring, wall or skirting board; and
- a range of holders for easy and secure installation.



New:  
**even  
 faster  
 expansion**

## Simply convenient

Reliable and well-designed tools are essential for achieving optimal installation results. RAUTOOL, the comprehensive tool concept, makes installation especially easy.

### Permanently sealed in just 3 steps:

Once you've cut the pipe to length you can start expanding it immediately, with no deburring or calibration required. Thanks to the new backward-compatible QC1 expander heads, this can now be done in one step, which also saves time. The installation can immediately be placed under pressure and corrected radially if necessary.



**Step 1:**  
 Expand the pipe once using the QC1



**Step 2:**  
 Insert the fitting



**Step 3:**  
 Apply the compression sleeve



### Just twist it

Thanks to the triple yoke, dimensions 16, 20 and 25 mm can be expanded and fitted without changing yokes.



### Quick Change® for turbo-charged changing

With our patented Quick Change® system, changing expander heads becomes child's play with just a quarter turn to screw off or on. Your RAUTOOL is ready for use again in just seconds.



### RAUTOOLA-light2 Kombi – the all-rounder

With the highlight of the RAUTOOL series – RAUTOOL A-light2 Kombi – and its combined expansion and compression unit, you always have the right tool to hand. Simply expand, turn 180° and slide on – no conversion required.



### Extra convenient when working overhead

The practical tools from the RAUTOOL series make it easier for you to work overhead and in cramped conditions, such as with cramped pipeline routes or chamber installations.

## The right tool for every need

RAUTOOL	Expansion	Pressing	Dimensions	Drive
A-one	●	●	16–32 mm	Battery
A-light2	–	●	16–40 mm	Battery
A-light2 Kombi	●	●	16–40 mm	Battery
Xpand QC	●	–	16–40 mm	Battery
Xpand big	●	–	40–75 mm	Battery
A5	●	●	40–75 mm	Battery
C	●	●	10, 14, 16 mm	Manual
M1	–	●	16–40 mm	Manual



Fast expansion thanks to the new QC1 expander heads for 16 to 32 mm RAUTITAN stabil and flex.



### Equipped for anything

As a tool range with diverse accessories, you always have everything to hand with RAUTOOL. For more information on our RAUTOOL range, please visit [www.rehau.uk/rautool](http://www.rehau.uk/rautool)

# Achieving success together

As a well-known, owner-operated family company, partnership is more than just a word to us. We stand by your side with innovative services – locally, whenever you need us – with our decades of experience and more than 20,000 employees around the world.

## **Planning support and consultation**

Our sales team are at your service in every way and provide assistance with both technical and commercial questions, from planning and implementation through to operation – including on-site training.

## **BIM**

BIM is a means for modelling buildings digitally. All building data is combined and networked before the start of construction here. The result is a virtual building model with which everyone involved in a project can work. We can provide you with the BIM content of a variety of REHAU products. [www.rehau.com/bim](http://www.rehau.com/bim)

## **REHAU Academy**

Further your knowledge by booking the CIBSE Approved CPD on polymer pipe for heating and plumbing. This CPD will provide an understanding on the different properties for the diverse range of materials available for pipework, how to get the optimum performance from each one, the applications they are best suited for and best practice in design. Learn more at [www.rehau.uk](http://www.rehau.uk).

## **Sales support**

We support you with professionally prepared advertising materials customised to fit your requirements. For you, this translates to cost savings and, above all, more time for other activities.

## **Support**

Should you need support for the selection of REHAU system solutions or for their installation, call our specialists on +44 1989 762600 (Mon. - Fri. from 8 a.m. to 5:00 p.m.) or email [support.uk@rehau.com](mailto:support.uk@rehau.com).

## **ePaper**

Here you'll find an overview of all the relevant documentation on heating, cooling, ventilation and sanitary installation. We provide technical information, catalogues, tender documentation, calculation software and lots more on REHAU products for you at [www.rehau.uk/epaper](http://www.rehau.uk/epaper).



# More sales, without more effort

As a holistic system supplier, REHAU enables you to thrill customers with additional innovative drinking water products, in addition to regular pipe installation.

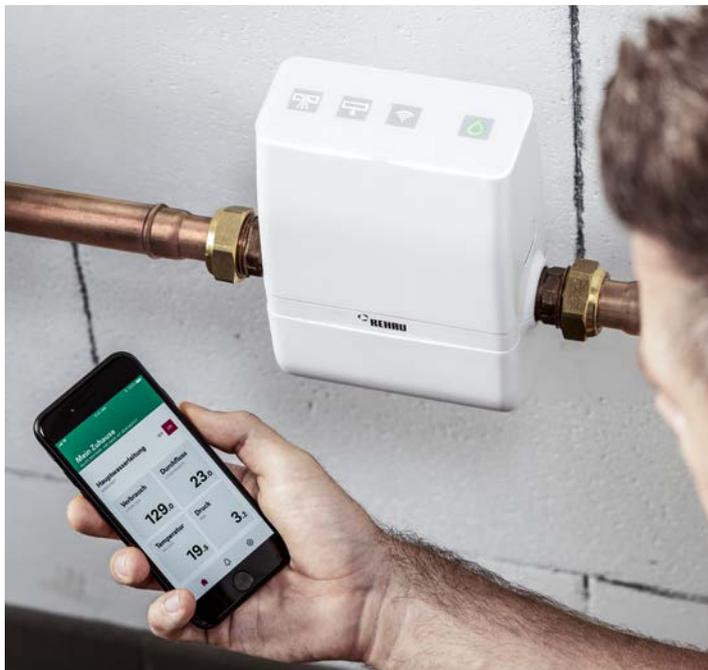


**REHAU plumbing boxes:**

**save up to 70% installation time**

With fully prefabricated REHAU plumbing boxes, you can install sink connections three times faster, for example, and also benefit from many other advantages. Find out more at

[www.rehau.uk/plumbing-boxes](http://www.rehau.uk/plumbing-boxes)



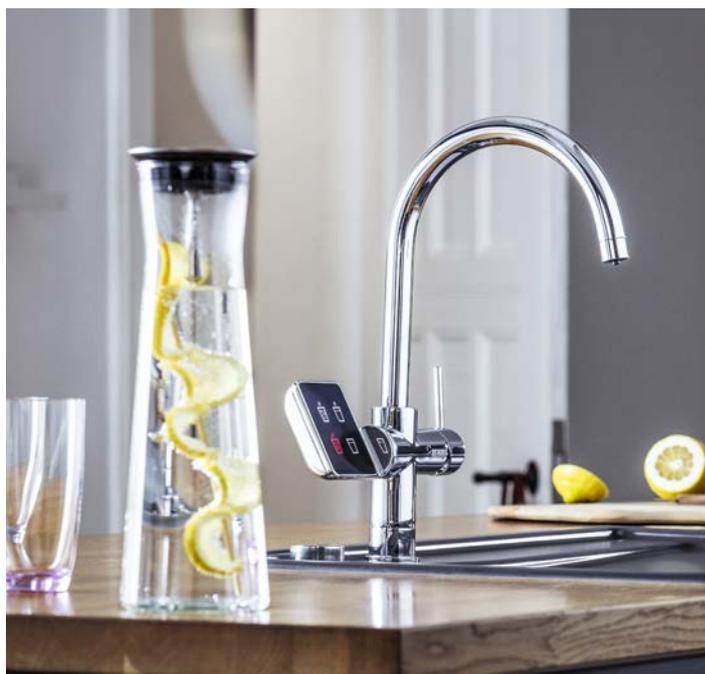
#### **RE.GUARD: the smart water control**

From now on, you can enjoy peace of mind whenever you leave home. RE.GUARD works as a fully autonomous unit. Burst pipes and drip leaks can be detected independently by the device itself. Find out more at

[www.rehau.uk/reguard](http://www.rehau.uk/reguard)

#### **RE.SOURCE: the smart drinking water tap**

Greater convenience and taste for your customers. At the touch of a button, RE.SOURCE turns regular water into filtered, chilled, carbonated or boiling water, straight from the tap. Very easy to control using a smart, innovative touchscreen display.



#### **The advantages are clear**

High-margin additional sales with minimal additional effort and self-presentation as innovative sanitary, heating and air conditioning operation with a modern, smart product portfolio. Your REHAU contact will be happy to advise you any time.



# Good reasons for good business

As an installation professional, you have expert knowledge of the technical requirements and refinements related to drinking water and heating installations – and with RAUTITAN, you are always on the safe side. All you have to do now is convince your customers.

## **#fewerworries**

Long standstill times are an ideal breeding ground for legionella and other pathogens. The right system from drinking water specialist REHAU, professional installation, proper operation and regular servicing can prevent this in an efficient way.

## **#moresecurity**

Standard requirements and stipulated limit values are becoming stricter all the time. RAUTITAN already makes completely lead-free drinking water installations a possibility today – continuously providing impeccable water.

## **#morequality**

As early as the shell construction phase, drinking water pipelines vanish “behind the wall” – and ideally stay there. Being able to rely on the installed material becomes all the more important. Because repairs are especially laborious and expensive.

This document is protected by copyright. All rights based on this are reserved. No part of this publication may be translated, reproduced or transmitted in any form or by any similar means, electronic or mechanical, photocopying, recording or otherwise, or stored in a data retrieval system.

Please observe the relevant technical product information, which can be obtained online at [www.rehau.com/ti](http://www.rehau.com/ti).  
Subject to technical changes.

[www.rehau.uk](http://www.rehau.uk)

© REHAU Ltd  
Hill Court, Walford,  
Ross-on-Wye,  
HR9 5QN

893723 EN 04.2022