



**RVTGROUP<sup>TM</sup>**  
Protecting long-term health on site

## Health hazard control solutions for the water industry

RVT provides contractors with specialist hazard control equipment for water and sewage construction projects





# Supporting water and sewage contractors

## Tailored Health Hazard Control Solutions for the Water and Sewage Industry

Every day, over 50 million premises receive good quality water, sanitation, and drainage services, thanks to the UK's fantastic framework of utility engineers. More than £130 billion has been invested in maintaining and improving assets and services over the past 30 years, and the RVT Group are proud to be supporting this exceptional industry.

Water and sewage engineers come across a variety of challenges that could pose significant risks to their health every day. The RVT Group is on board to provide you with fully approved health hazard control solutions that will protect your workforce.

- ✓ Ventilation Solutions
- ✓ Confined Space Equipment
- ✓ Noise Control
- ✓ Environmental Monitoring



# Understanding your challenges

## Working in Enclosed and Confined Spaces

Whether you are working in an enclosed tank, treatment facility, sewage pipe, shaft or tunnel, there is a high possibility that you will be exposed to noxious gases. In many instances, the shafts and tunnels you are operating in will be subject to the Confined Space Regulation 1997. This is because the area is not only enclosed, but there is also a serious risk of either explosion, loss of consciousness, drowning or asphyxiation. RVT Group will conduct a survey and tailor a ventilation solution which will supply clean air and remove gases, fumes and vapours. We also offer a range of confined space equipment to assist with access, egress, monitoring and emergency situations.

## Controlling Noise Above Ground

Noise breakout from site works, over-pumping and similar processes can be a problem in sensitive neighbourhood areas. RVT Group offers a wide range of acoustic quilts and curtains which can either line the perimeter or fully enclose the noise source. Unique frames can be clad with Soundex curtains to effectively absorb noise and reduce the impact on the surrounding environment. It is easy-to-use and transport and provides up to 32.9dB noise reduction. RVT also offers Monitex Noise Monitoring with web-based software that allows you to monitor noise levels on site in real-time, so there is no need to install complicated software.





# Understanding your challenges

## Water Contamination and Odour Control

People living or working nearby need to be protected from the risk of contaminated water and adverse odours. RVT's Ventex Ventilation solutions can provide fresh air supply to displace and dilute contaminated air. The Ventex solution can also be used to create negative or positive pressure, to ensure that contaminants and odours are kept contained.

## Working to Strict Deadlines

We understand that it is essential to keep Capital Projects and Framework Contracts on track and to prevent unnecessary or unforeseen delays.

Major contractors across the UK trust our proven, flexible, and tailored solutions to ensure projects flow smoothly and safely, leaving them to concentrate on delivering projects on schedule and to budget. Furthermore, our fast response to enquiries, efficient site surveys and next day delivery, all ensure a timely service.



Capture  
Contain  
Control

Construction work took place in Scotland's Biggest Wastewater Tunnel with minimal disruption to surrounding residents thanks to RVT's noise control solutions.

**Capture** - RVT position the barrier close to the noise source.

**Contain** - We broke the line of sight by ensuring the noise barrier is seamless.

**Control** - High-quality noise barriers were used to absorb excessive noise.





# Providing a solution

## Ventex Ventilation

From shafts and tunnels and pipelines, to contacts tanks, reservoirs and CSO's, we understand the challenges you may face when trying to maintain good air quality. Through years of experience, we have found that our centrifugal fans are best suited to the ventilation challenges faced by the water and sewage industries.

## Confined Space Equipment

In addition to ventilation equipment, RVT are a one-stop-shop for a wide range of specialist confined space equipment. We can offer a wide range of gas detectors, breathing apparatus, harnesses, lanyards, cable locators, davit arm systems, rescue and resuscitation equipment, and ventilation systems, to protect the health and safety of workers.

## Soundex Acoustic Barriers

RVT's Soundex acoustic solutions are ideal for controlling noise during site works, over-pumping and similar processes. These high-quality noise barriers not only offer excellent sound attenuation, but are durable and easy to install. Furthermore, all Soundex products have been tested by third party approval bodies for fire resistance, water resistance, scaffolding compliance and wind loadings.

## Personal and Environmental Monitoring

RVT offer gas, dust, noise and vibration monitors, allowing you to check that exposure limits are not being breached throughout the project. Monitex Vibration consists of telemetry field instruments and sensors packaged with our cloud based platform, which gives you all you need to manage real-time vibration data online. Noise levels should be monitored to ensure workers are not exposed to more than 85 dB. Please enquire for more information about our range of monitoring equipment.

# Superior equipment tailored to your project

Here are some exclusive RVT products used by contractors when working in a sensitive environment. To view more products visit [www.rvtgroup.co.uk/hire-equipment](http://www.rvtgroup.co.uk/hire-equipment)



## Ventex Centrifugal Fan 450S

Ideal for forced ventilation or extraction for confined spaces, such as basements and tunnels.



## Monitex BM25 Area Gas Monitor

Monitor gas concentration levels in real-time to ensure that you are always adhering to COSHH regulations.



## Monitex Vibration Monitor

This vibration monitor will help to ensure compliance with the Control of Vibration at Work Regulations 2005.



## Soundex Quilt

Excellent for general noise control with a BSEN rated attenuation of 28.2dB. Velcro side connection enables a seamless noise barrier.



## Confined Space Equipment

RVT offers a wide range of safety equipment specifically designed for confined space projects. Please enquire for more information.



## Monitex Area Noise Monitor

Monitor noise levels and ensure workers are not exposed to more than 85 dB. Receive noise updates via text or email.







# Case study: Effective tunnel ventilation supplied at Reservoir

## Overview

The Thames Water AMP6 Framework was a design and construct programme that comprised of multidisciplinary activities, including the maintenance of water & wastewater treatment works, pipelines, pumping stations, and reservoirs. Under this programme, maintenance at the King George V reservoir was necessary, and ventilation was required whilst site operatives cleaned out two of the reservoir's underground tunnels.

## Challenge

Dangerous levels of Ammonia were present within the tunnels that required cleaning. Exposure to this dangerous gas can cause severe burns if it comes into contact with your eyes and skin, even causing burns to your respiratory tract and lungs if inhaled.

## Solution

The tunnels that required cleaning ran from the King George V Reservoir to Albany and from Albany to Maidensbrook. At all three locations are large underground shafts leading down into the tunnels, accessible via manholes. To achieve effective ventilation of the tunnels, a 450S Ventex® centrifugal fan was placed at the shafts of both the King George V Reservoir and Maidensbrook. Flexible duct runs were then fed through the manholes of the shafts, allowing these fans to vent in fresh air at each end of the tunnels. The contaminated air then exited through the manhole at the top of the Albany central shaft.







Site operatives working at Haweswater Aqueduct were required to work underground in the pipeline for long periods of time.

RVT installed centrifugal fans at multiple access points to supply fresh air to the long areas of pipeline to keep workers safe.



# Peace of mind and quality assured

By choosing to work with RVT Group, you are choosing to work with a sustainable and reliable supply chain partner, who will deliver superior equipment, exceptional expertise and outstanding service.

- ✓ Hazard control solutions that are fully compliant with legislation
- ✓ Best practice advice from highly experienced and qualified consultants
- ✓ High quality, robust and reliable equipment
- ✓ Next day delivery and installation service available
- ✓ Responsive customer service and access to technical support
- ✓ Your project remains on track and within budget
- ✓ Most importantly, people remain safe and healthy

RVT Group is an ethical company that genuinely cares for people's lives, and it is our vision to achieve a world where the impact of site work on life and health is effectively zero.

If you would like to discuss a project, please call us on 0808 178 3286.

For product information or best practice papers, please visit [www.rvtgroup.co.uk](http://www.rvtgroup.co.uk).

## Trusted by

**babcock™**

 **bam**

 **Barhale**

 **GallifordTry plc**

 **KIER**

**SKANSKA**

## Testimonials

"RVT have always been a valuable allied providing technical support and visiting the site when required and supplying equipment for bespoke solutions matching H&S standards.." – **Barhale**

"We called in RVT Group to ensure we are protecting the health and wellbeing of the personnel working down the shaft. Given the challenging spacial restraints, RVT Group provided the best possible solution. We are very pleased with the service provided." – **Thames Tideway**



### Contact us

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