

HVAC for Heavy Industry



Superior HVAC Heavy Industry

Enabling Wellbeing for people

Halton is passionate about indoor environments. With over 50 years of experience, the company offers business-enhancing solutions for safe, comfortable, and energy-efficient environments for companies that value the wellbeing and productivity of their customers and personnel.

HVAC can play a vital role in improving safety by providing good thermal conditions and protecting against hazards in the production process. In this brochure, we present an overview of Halton's superior HVAC products and solutions for Heavy Industry applications.

A strong partnership

Halton Group recently became the majority shareholder in Flamgard Calidair in an acquisition which will see the two companies share experience and expertise in order to address key global challenges more effectively.

By reassessing global trends and the development of key markets, Halton and Flamgard Calidair have refocused their strategies in order to maximise positive impact in sustainability and wellbeing, with a particular focus on helping customers and stakeholders to achieve net-zero objectives.

This new focus is illustrated clearly on the Heavy Industry 3D World, which showcases not only what Halton Marine and Flamgard Calidair can offer in a wide range of applications, but how customers can leverage the entirety of the Halton Group's expertise.

AC solutions for any applications

Halton's expertise

Quality

Designing and selecting equipment should always be done according to the operating environment. The HVAC installation should always maintain the designed performance level. New technologies that are utilizing automation enable a supervision and monitoring system that adds value to the operators.

Type approvals from the major classification societies and worldwide references are solid proof about the product quality. A reliable manufacturer has also paid attention to certifications like ISO 9001, ISO3834-2, ISO 14001, ISO 145001, ATEX, CE, and EAC.

Our way of doing business

- Halton production emphasizes tailoring, which means that solutions can be adapted for each customer's specific needs
- Own manufacturing in 9 countries
- Flexible, high-tech production with certified welders and short delivery times
- Comprehensive project management
- Testing and simulation services
- The well-established but flexible company, offering long-term business relationships and after-sales service

Towards net-zero operations and sustainability in Heavy Industry

Halton Marine and Flamgard Calidair are placing additional focus on heavy industry applications, especially sectors including nuclear, petrochemical, industrial and infrastructural. These sectors have been identified as areas in which significant strides can be made towards net-zero operations and wider sustainability.

Nuclear power

Nuclear power is an essential part of the energy strategy of countless countries around the world. Nuclear power plants enable countries to generate low-carbon energy. A good example is a next-generation facility such as Hinkley Point C in Somerset, England, which will be able to support as many as 6 million homes per year. Steps like this are a huge leap towards a country's net-zero objectives, and Halton Marine and Flamgard Calidair are ready to support the development of new nuclear facilities on a much wider scale.

As part of Halton Group, Flamgard Calidair contributes to a comprehensive product offering for the nuclear industry. In addition to Flamgard's high-integrity dampers, nuclear developers and stakeholders can access a huge range of solutions including central vacuum cleaning systems, diffusers, droplet separators and much more.

Operations and wider Heavy Industry sectors

Petrochemicals

The need for sustainable energy combined with developments in the petrochemical industry are likely to see more focus placed on hydrogen power for domestic and transport purposes in the future.

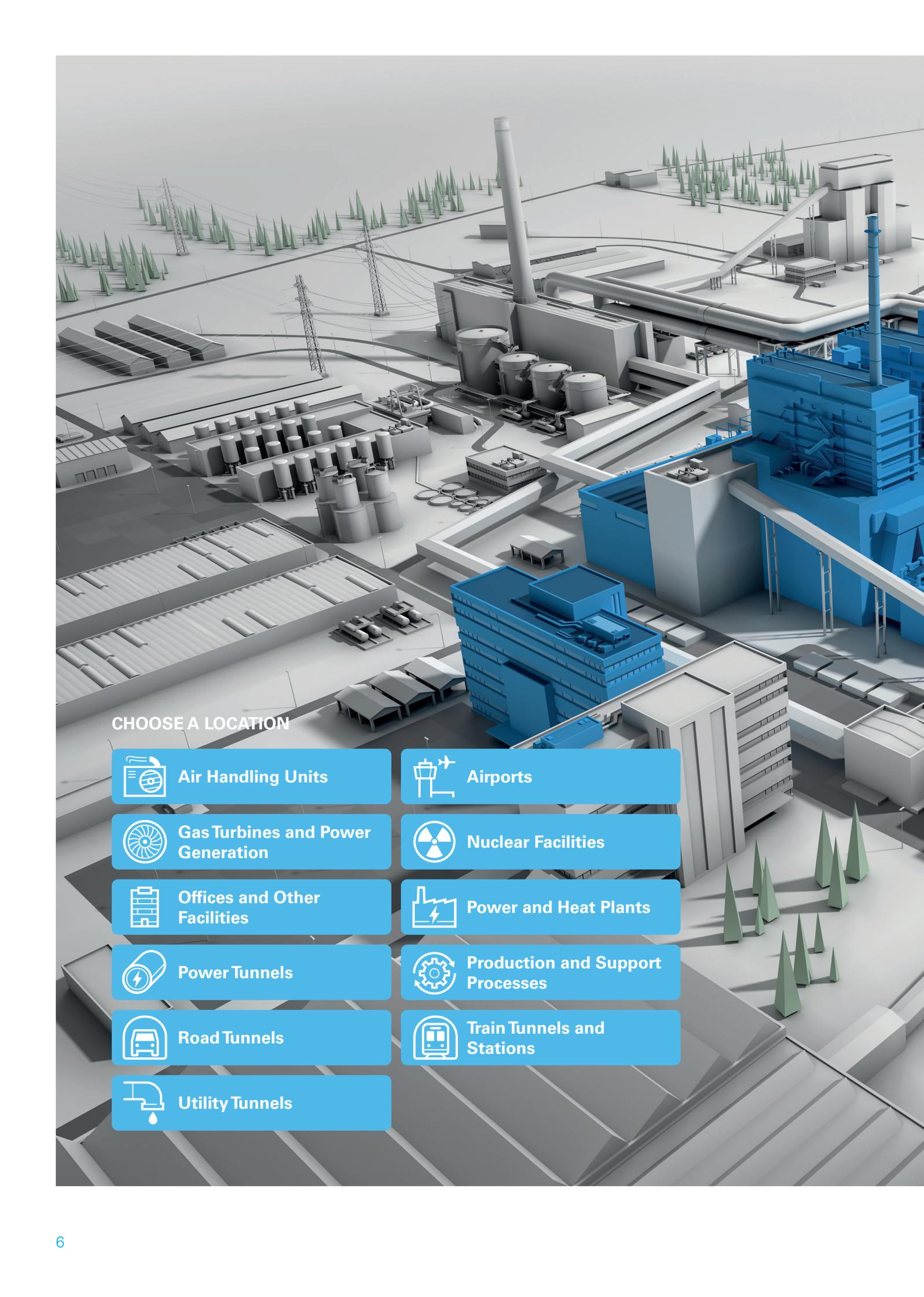
Halton Marine and Flamgard Calidair will support businesses within petrochemical sector with the transition towards safe and sustainable practices with bespoke, high-integrity damper solutions like the CID-01 Zero Leakage Damper.

Underground infrastructure

The movement of people from rural areas into cities is an ongoing trend and improving infrastructure and power frameworks will vastly improve the liveability of urban spaces. This reflects for example in the development of the rapidly growing tunnelling sector.

Around the world, increasingly ambitious underground projects are being commissioned, engineered and completed – and when it comes to tunnel applications, each operation poses unique fire and smoke safety challenges.

Underground environments must remain well ventilated, and that air quality is maintained for both users and personnel. HVAC equipment, such as tunnel dampers and fire dampers, plays a pivotal role in ensuring safety during day to day operation as well as in emergencies.



CHOOSE A LOCATION



Air Handling Units



Airports



Gas Turbines and Power Generation



Nuclear Facilities



Offices and Other Facilities



Power and Heat Plants



Power Tunnels



Production and Support Processes



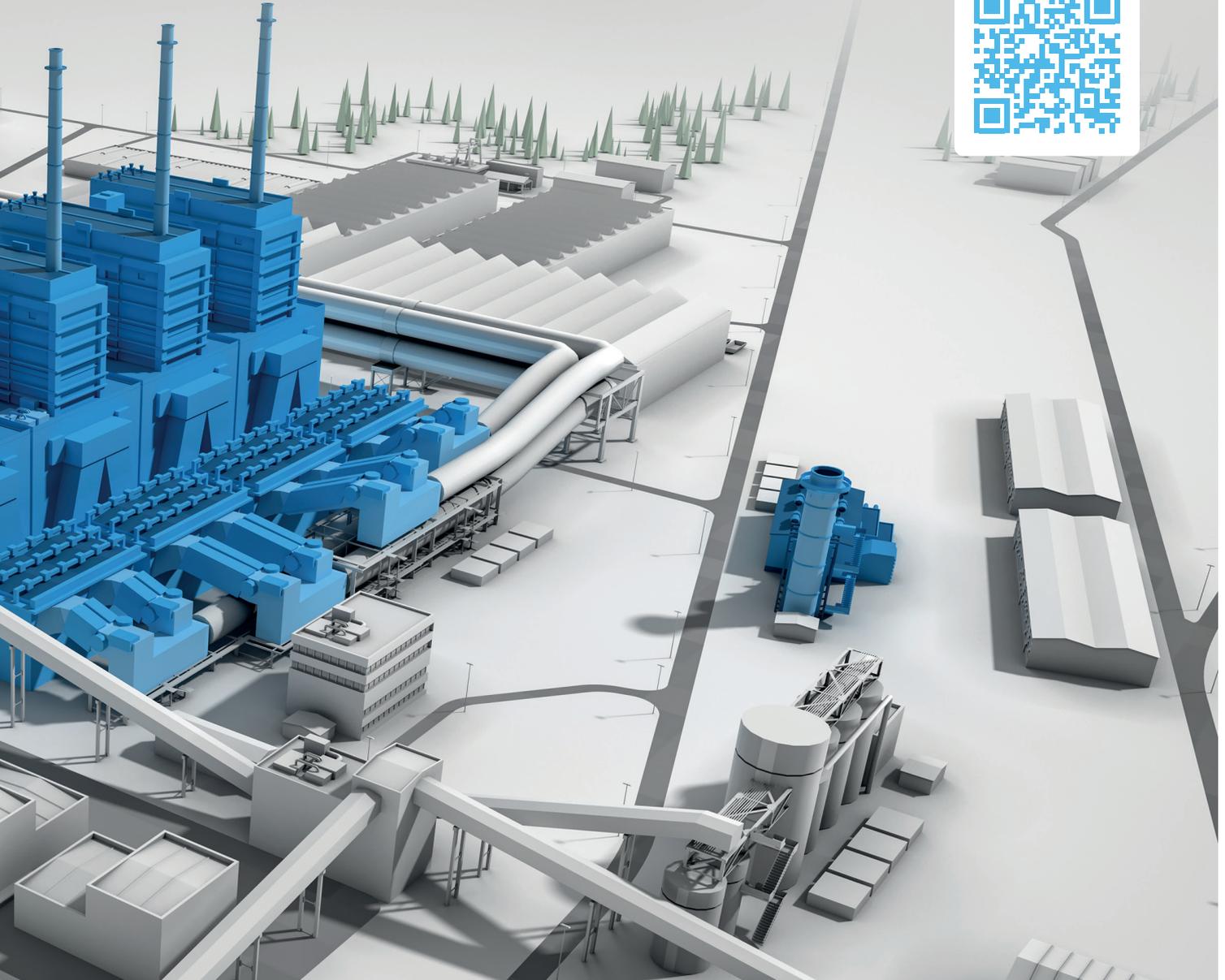
Road Tunnels



Train Tunnels and Stations



Utility Tunnels



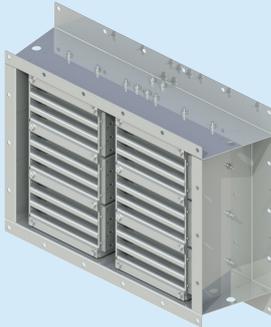
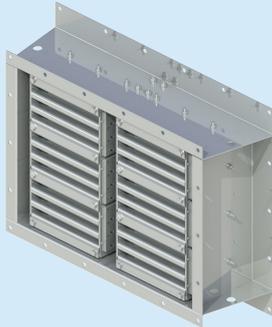
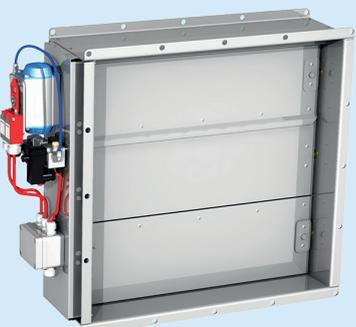
Heavy Industry 3D World

Halton's Heavy Industry 3D World provides users with a real-world visualisation of Halton and Flamgard Calidair's product offering while showcasing individual products and linking back to the main Halton website for more information. Users can

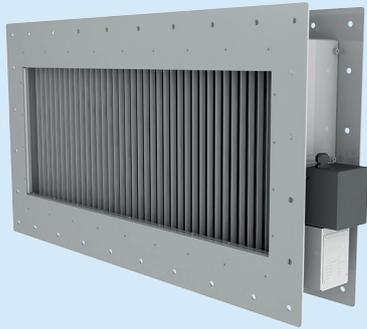
explore comprehensive offerings through a dynamic 3D experience, discovering products and benefits for applications such as nuclear facilities, power and heat plants, power tunnels and much more. Start exploring at heavyindustriesolutions.halton.com.

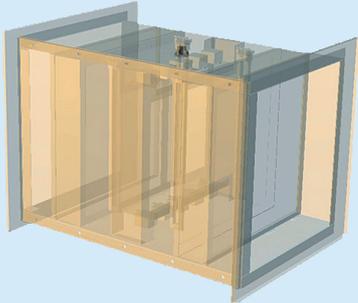
High Quality HVAC Products and Solutions for Heavy Industry

	DESCRIPTION	BLAST DAMPER	HIGH PRESSURE BLAST DAMPER
BLAST PROTECTION	<p>Blast protection in industrial applications is essential. The primary purpose of blast dampers and valves are to protect people and equipment in case of a blast. Without proper protection, a blast wave penetrates the building through air intakes and outlets in an otherwise hardened structure. ATEX certification is available as an option.</p>		
		BDH	BLD-01
	DESCRIPTION	H0(H120) FIRE AND GAS DAMPER	A0(A60) E120S FIRE DAMPER
VENTILATION FIRE SAFETY	<p>Fire safety is an important factor in industrial environments. Sudden and uncontrolled fire is not only a life-threatening risk for people and the environment, but it also creates remarkable additional costs due to the stop of operation or production. Halton provides fire and gas dampers to prevent the progress of fire and gases through ventilation ductworks. ATEX certification is available as an option.</p>		
		FDH	CFD-01
	DESCRIPTION	BALANCING DAMPER	GASTIGHT SHUT-OFF DAMPER
AIRFLOW MANAGEMENT	<p>HVAC ductwork on heavy industry projects consists of a diverse range of dampers products, each serving different airflow management functions. Halton manufactures an extensive range of dampers for these demanding applications. ATEX certification is available as an option.</p>		
		UTP	UTA

<p>MEDIUM PRESSURE BLAST DAMPER</p>	<p>BLAST VALVE</p>	<p>BLAST VALVE</p>	
			<p>BLAST PROTECTION</p>
<p>BLD-02</p>	<p>PVKKS</p>	<p>PVKKSX</p>	
<p>FIRE DAMPER (EI60S)</p>	<p>EI120S INSULATED FIRE DAMPER</p>	<p>HIGH TEMPERATURE TUNNEL DAMPER</p>	
			<p>VENTILATION FIRE SAFETY</p>
<p>FCE</p>	<p>CFD-01-ICB</p>	<p>CFD-02TM</p>	
<p>GASTIGHT SHUT-OFF DAMPER</p>	<p>ZERO LEAKAGE ISOLATION DAMPER</p>	<p>NON-RETURN AND PRESSURE-RELIEF DAMPER</p>	
			<p>AIRFLOW MANAGEMENT</p>
<p>UTG</p>	<p>CID-01</p>	<p>BLD / BRD</p>	

High Quality HVAC Products and Solutions for Heavy Industry

	DESCRIPTION	DROPLET SEPARATORS	OUTDOOR LOUVRES
AIR INTAKES	Halton's droplet separators have been designed to protect capital equipment from the damage caused by the salty spray and rainwater, allowing for less maintenance and downtime higher equipment efficiency.		
		DSA	USM
	DESCRIPTION	INTEGRATED VAV CHILLED BEAM	VARIABLE AIR VOLUME CHILLED BEAM
ROOM AIR CONDITIONING	An energy-efficient, reliable and comfortable environment can be achieved by using the right room air conditioning solutions. Halton offers a variety of air distribution solutions with a variety of options for airflow balance, air temperature, sound level and performance to meet the needs of different spaces and environments.		
		HALTON REX	HALTON REX
	DIFFUSERS	GRILLES	VALVES
			
JDA	AGC	URH	

	DESCRIPTION	KITCHEN VENTILATION SYSTEMS	KITCHEN AIR HANDLING UNITS
KITCHEN VENTILATION	<p>Halton supplies the widest range of solutions for all stages of kitchen ventilation systems, including capture, extraction, discharge of the air to the atmosphere, and providing the cleanest and healthiest replacement air. Halton's kitchen air handling units have been developed to provide the healthiest fresh air for commercial kitchens while limiting the impact of food production on nearby buildings.</p>		
		KWF	PST-A
	DESCRIPTION	FOUR STAGE AIR PURIFICATION UNIT	HALTON SENTINEL MOBILE FILTRATION UNIT
VIRUS MITIGATION	<p>Halton's virus mitigations solutions offer both built-in and mobile solutions based on the application, space and occupancy levels. These solutions, along with social distancing, masks, and increased hygiene, reduce the probability of virus spread.</p>		
		HALTON QUATTRO AERO	UVGI-SA
	DESCRIPTION	CENTRAL VACUUM CLEANING SYSTEM	SEE MORE AT HEAVY INDUSTRY 3D WORLD
CENTRAL VACUUM CLEANING	<p>Good indoor air quality enables a more productive and healthier workplace. Studies have shown that indoor air can be up to five times as polluted as outdoor air, causing harmful effects on people's health. Halton's industrial central vacuum cleaning system improves indoor air quality by removing detrimental micro-dust efficiently from indoor spaces without circulating it back to the indoor air.</p>		
		HALTON PROCLEAN	<p>Welcome to discover all our products and solutions for Heavy Industry applications.</p>

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About us

Halton Marine

Halton Marine, one of the world's leading suppliers of marine HVAC, develops, manufactures and markets reliable, high-quality ventilation solutions specifically designed for different types of ships, offshore oil & gas, heavy industry and offshore wind. Our track record includes deliveries to over 150 major cruise ships, 200 oil & gas projects and 100 naval vessels.

Halton Group

Halton Group specializes in indoor environment solutions, ranging from public and commercial buildings to foodservice facilities. Founded in Finland in 1969, Halton operates today in over 35 countries around the world, with annual sales of €220 million and over 1600 employees. The company has production facilities in Brazil, Canada, China, France, Finland, Germany, Malaysia, the United Kingdom, and the USA.