

Halton

– Central vacuum cleaning system for ships



Improved air quality

Halton Puzair central vacuum cleaning system is an efficient way to improve hygiene and air quality onboard ships. The system enhances conditions for passengers and crew by cleaning and improving the quality of the air.



For safer and healthier conditions

Halton Puzair is specialized in environmental and building technology. The company designs, manufactures and markets central vacuum cleaning systems, information security systems, as well as tailor-made systems for trade and industry. When it comes to central vacuum cleaning systems for professional applications and apartment buildings, Halton Puzair is the market leader in the world. The company is a part of 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 23 countries around the world, with annual sales of € 175 million and over 1000 employees. The company has production facilities in Canada, China, France, Finland, Germany, Hungary, Malaysia, Norway, United Kingdom and USA

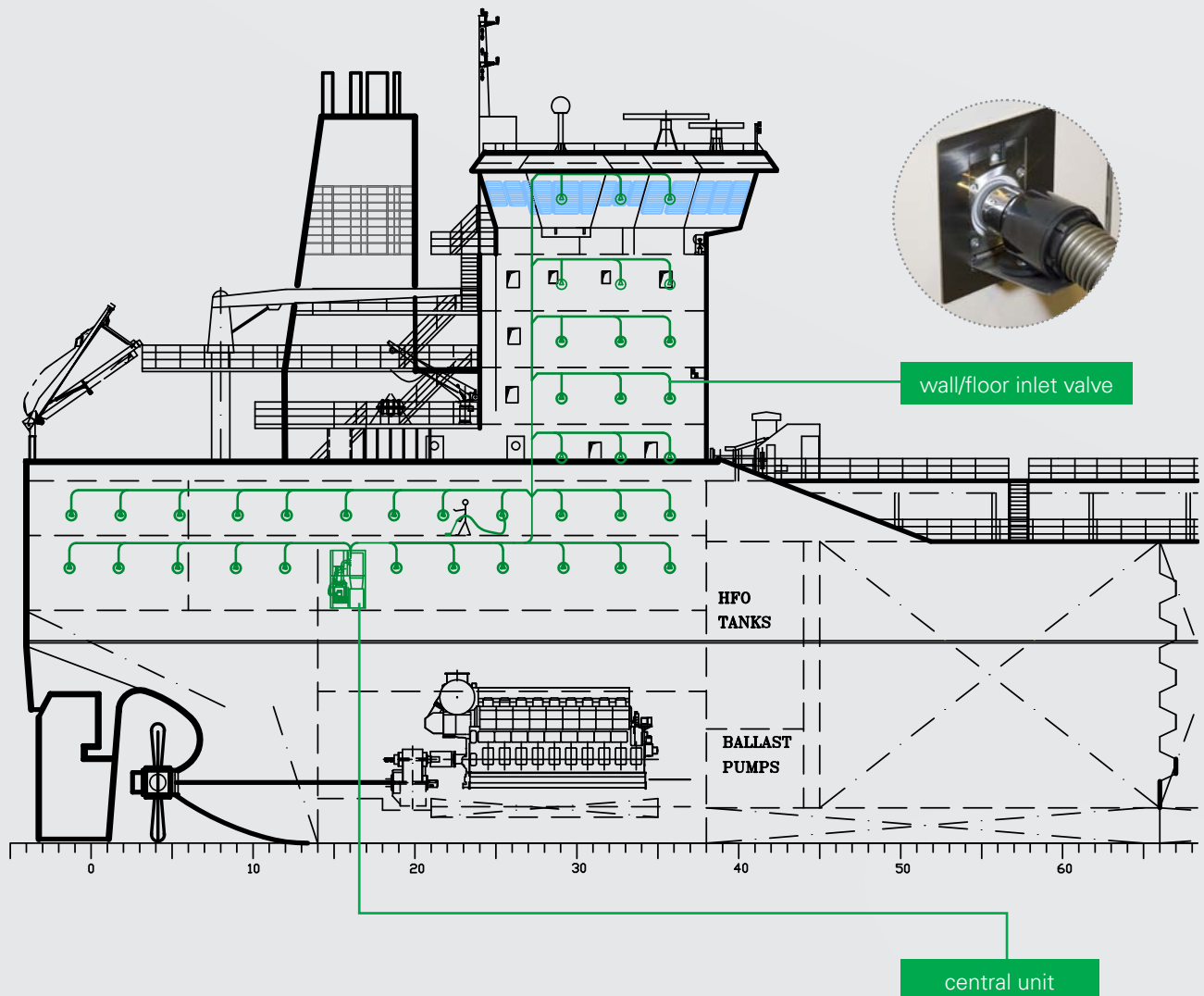
Good working conditions are important at sea. Cleanliness is essential.

Halton Puzair's central vacuum cleaning system is an efficient way to improve hygiene on board ships. When the central vacuum cleaning system is installed onboard, working and recreational spaces stay clean and the air quality stays in a good level even after vacuuming as the harmful micro dust is expelled externally (see table on the following spread).

The scope of supply

1. System design
2. Complete supply of machines and components of Halton Puzair cvc
3. Warranty, service and maintenance agreement
4. System extension to bottle and can removal system

Halton Puzair central vacuum cleaning system

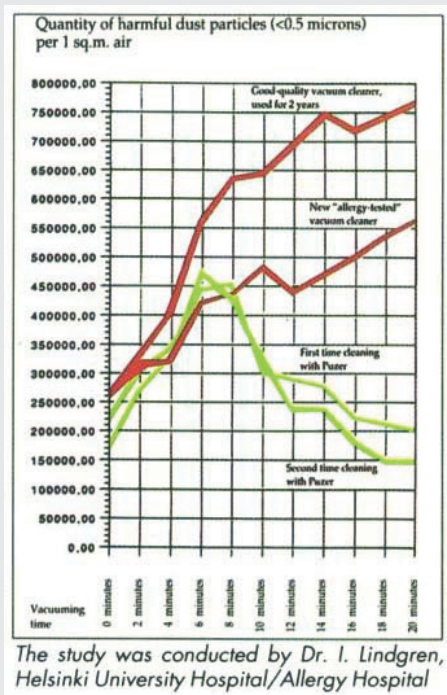


System description

Halton Puzair has developed a unique module design of cvc together with the Technical University of Tampere. One module serves 1-7 simultaneous users. The module design minimizes investment and maintenance. Usually one module serves for one fire department. A module contains central unit (complete unit with cyclone and cartridge filter, dust container/dust pack, electric and logic control cabin, compressor), pipes, cable to inlet valves, inlet valves, cleaning valves and pneumatic pipes (for 3-7 users only) and cleaning tools (hose length of 10-15 m). When a cleaning hose is plugged in an inlet valve, it starts a central unit. Sensors control how many users are joined and optimizes vacuum and minimizes electric consumption continuously. When plug off, engine stops. The system needs a minimum maintenance.



Proven efficiency for cleaner and more hygienic conditions



The health factor

Using central vacuum system is the only way to remove hazardous micro dust from interior. This has a direct impact on health. Halton Puzair cvc's health effects have been studied by Dr. Ilmari Lindgren (Allergy Hospital of the University Hospital of Helsinki). The chart shows the health effects of Halton Puzair equipment in use.

The Finnish Allergy Association recommends central vacuum cleaners.

Advantages

- Better indoor air quality, the only way to remove hazardous micro dust from interior which can cause lung disease, even for healthy persons
- Increases customer and user comfort
- Quieter than other methods
- No smell during the cleaning, air will be sucked outside the ship
- Up to 50% faster than conventional methods
- Saves in day-to-day costs
- Central vacuum system can be utilized during the construction of the ship
- Long life cycle, same as the ship's
- Represents sustainable development and green values
- Available from components to whole scope
- Low maintenance and services needed
- For new buildings and refurbishments

Marine references

vessel	cabin capacity
MS Baltic Princess	927
MS Star	520
MS Superstar	1256
MS Romantica	727
MS Baltic Queen	927
MS Galaxy	822
MS Victoria	729
MS Birka Paradise	700
MS Nils Dacke	323
MS Robin Hood	323
MS Nils Holgersson	620
MS Peter Pan	640
Multipurpose ice breaker, MSV Botnica	
The Cost Guard Vessel	
MT Tempera	
Stena Hollandica	
Stena Britannica	

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