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VORTICE
FOR SCHOOL



HOW TO IMPROVE THE AIR QUALITY WITH VORTICE?

The quality of indoor air has never been as crucial for a healthy life and for the people's well-being as it is today. Air quality technologies represent essential solutions to reduce the risk of the spread of pathogens such as viruses, bacteria and moulds, but also dust, mites, seasonal pollen and fine dust.

In order to improve the air quality, it is fundamental to focus on air exchange, purification and sanitisation. Combining these three processes, it is possible to act on the pathogens, so to neutralise them and consequently to ensure the health and safety of the people in the rooms.

A suitable air exchange allows to dilute the pollutant in the air we breathe. Purification allows to filter and purify the air introduced by the air exchange. Finally, sanitisation allows to sterilise all surfaces and objects, for people's safety.

APPLICATIONS

Offices and meeting rooms



Classrooms and laboratories



Hallways and common rooms



Universities and Assembly Halls



School canteens



Locker rooms, gyms and services



AIR EXCHANGE



DECENTRALISED HEAT RECOVERY UNITS

01 VORT MONO

The VORT MONO range is composed of ventilation units able to exchange the air. They introduce filtered external air in the rooms and expel the polluted internal air to the outside while recovering energy (heat during winter and cold during summer).



WALL-MOUNTED HEAT RECOVERY UNIT

02 VORT HR 350 AVEL TOP

Centralized dual flow units with heat recovery for floor and wall installation, ideal for ventilation of homes and residential and commercial premises with a surface area of up to 240 m², characterized by high levels of thermal insulation.

Thanks to the on-board relative humidity sensor, it allows automatic speed adjustment according to the humidity level detected in the environment.



HIGH EFFICIENCY HEAT RECOVERY UNITS EQUIPPED WITH EXCHANGERS OF THE CROSS-FLOW TYPE

04 VORT NRG FLAT

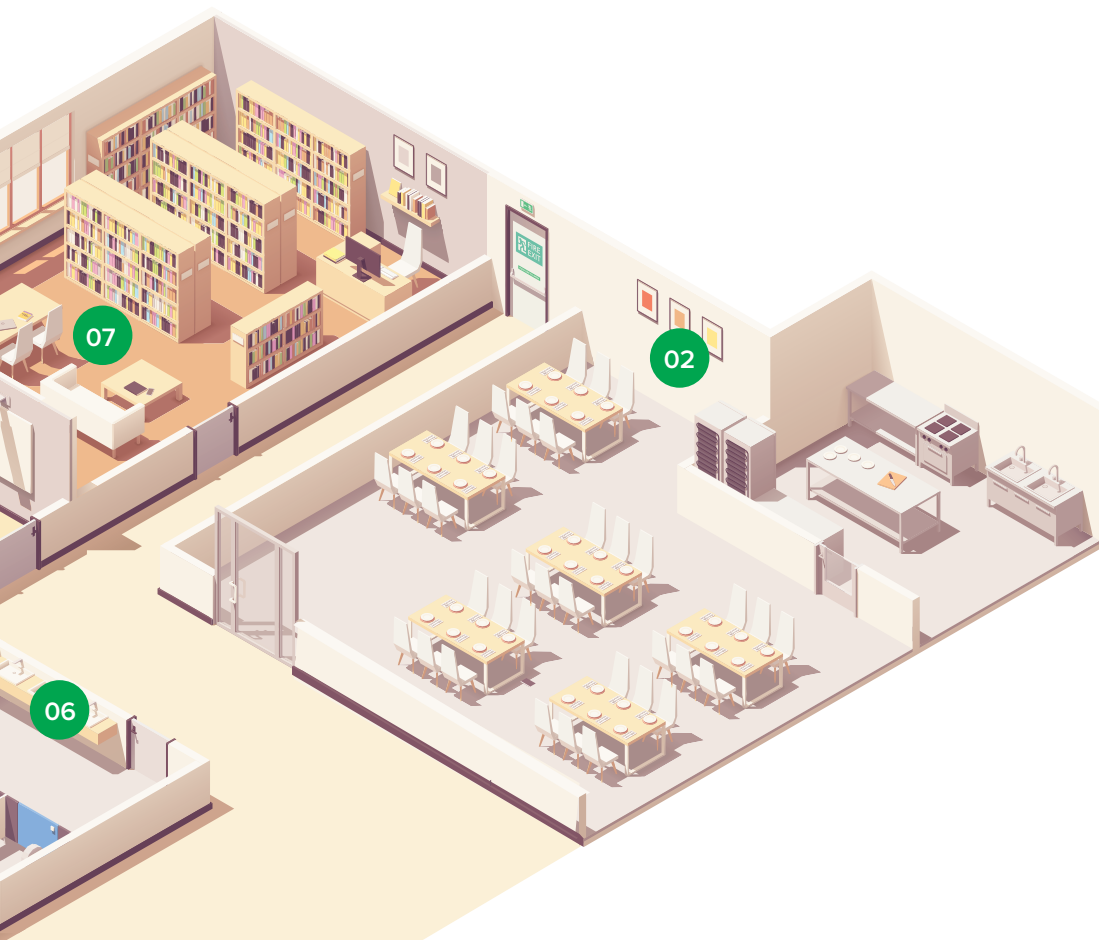
The products of the VORT NRG FLAT range are heat recovery units designed for false ceiling installation in residential and commercial contexts. The range consists of 7 sizes, with nominal flow rates between 400 and 4,000 m³/h, each one available in 3 alternative variants in order to fully meet specific functional and installation needs.

The NRG FLAT 600 (650m³/h-150pa) model is ideal for classrooms of up to 25 students

USE

- 01 VORT MONO
- 02 VORT HR 350 AVEL TOP
- 03 VORT NRG FLAT
- 04 VORT SUPER DRY
- 05 UVLOGIKA SYSTEM
- 06 SOAP AND GEL DISPENSER
- 07 DEPURO PLUS





BUILDING CATEGORIES*		INDEX OF CROWDING	AIR FLOW RATE		FOR EACH STUDENT (m³/h)
			BASED ON VOLUME (hourly exchanges)	BASED ON CROWDING (l/s pers)	
SCHOOL BUILDINGS	NURSERY SCHOOLS, PRE-SCHOOLS	0.40	-	4	14.4
	PRIMARY SCHOOL CLASSROOMS	0.45	-	5	18.0
	MIDDLE SCHOOL CLASSROOMS	0.45	-	6	21.6
	SECONDARY SCHOOL CLASSROOMS	0.45	-	7	25.2
	UNIVERSITY HALLS	0.60	-	7	25.2
	SERVICES	-	8	-	-
	LIBRARIES, READING ROOMS	0.30	-	6	21.6
	MUSIC AND LANGUAGE CLASSROOMS	0.50	-	7	25.2
	LABORATORIES	0.30	-	7	25.2
	STAFF ROOMS	0.30	-	6	21.6

* Taken from the UNI 10339:1995 Regulation - 30/06/1995 - Aeraulic systems for the well-being. General information, classification and requirements.



PURIFICATION AND SANITISATION



AUTOMATIC HAND DRYERS

04 VORT SUPER DRY Range

The VORT SUPER DRY Range consists in automatic electric hand dryers with UV germicidal lamp. They dry and sanitise the hands without the need to touch anything. Maximum hygiene and safety for the user.



SOAP AND DOSAGEL DISPENSERS

06 SOAP AND GEL DISPENSERS Range

Soap and gel dispensers are automatic electric dispensers of soap or disinfectant gel. The right amount of soap or gel - without touching anything.



GERMICIDAL UV-C LAMP

05 UVLOGIKA Range

The UVLOGIKA SYSTEM is a germicidal UV-C lamp for installation, ideal for sanitising and disinfecting surfaces. Its radiation quickly eliminates up to 99% of bacteria, viruses and other microorganisms.



07 DEPURO PLUS AIR PURIFIERS WITH HEPA H14 FILTERS DEPURO PLUS EVO AIR PURIFIERS WITH HEPA H14 FILTER AND PHOTOCATALYSIS MODULE

The DEPURO PLUS range is composed of air purifiers suitable for environments up to 160 m². The filters are able to destroy up to 99.995% of polluting microparticles, which are potential carriers of viruses and bacteria. In addition, the DEPURO PLUS EVO range, thanks to its photocatalysis module, is also effective against the SARS-CoV2 virus responsible for the COVID-19 pandemic, **as proven by the tests performed at the Biomedical and Clinical Sciences Department "Luigi Sacco" of the University of the Studies of Milan.**



Do you need more information on these products?

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