

FLOWAY, the new generation of air handling unit

Floway the "economical and sustainable" dual-flow air handling unit.

The product of CIAT's experience and designed using new technologies, it meets all the requirements of new and renovated buildings.



EDUCATION ADMINISTRATION



New regulations have brought significant advances in the airtightness of buildings, and as a result dual-flow ventilation is the only way to guarantee high quality indoor air. Indeed, dualflow ventilation can prevent the accumulation of humidity, bad odours and contaminants, which are responsible for making buildings less hygienic.

Floway is perfectly suited to buildings which require constant or variable ventilation flow rates. Floway adapts to all sectors of activity, from public institutions and private commercial offices to educational establishments, hotels or even nursing homes. Floway fully meets the demands of the new French RT 2012 thermal regulations; this means your installation is not only compliant but also powerful and **energy efficient**.

Floway features an intelligent standalone control system equipped with ready-to-use, adaptive PLUG & PLAY functions.

This control system is also connected to a heat recovery unit and new generation eco-energy fans delivering **optimum performance** tailored to every need.



ENHANCED ECODESIGN

NATUR

Thanks to its innovative and powerful technologies, Floway is a high quality product which complies with French RT 2012 thermal regulations and the European energy performance label EPBD.

It has been developed using ecodesign principles that comply with the requirements of standard ISO 14001 and OHSAS 18001.

CIAT is committed to designing products which follow the principles of sustainable development and respect for the environment, thereby meeting the high-performance criteria of environmental labels such as HQE (High Quality Environmental), BREEAM (BRE Environmental Assessment Method), DGNB (German Sustainable Building Council), LEED (Leadership in Energy and Environmental Design)...



Validity of online certificate: www.eurovent-certification.com or www.certiflash.com

MORE ECONOMICAL

Every air handling unit is rated Class A (according to Eurovent class 2013 conditions) **High aeraulic efficiency**

• CIAT's brushless motor technology is >90% energy-efficient, going beyond current standards and exceeding our customers' expectations (compliant with the future ERP 2015 directive concerning establishments open to the public).

• A complete and integrated control system assumes the main command, control and regulation functions of all the components featured in the Floway.

The performance and technology of these systems are sized for each nominal air flow rate with a pressure drop of under 150 Pa per air flow and an efficiency of over 80% to save on energy (according to EN 308).

Connected to heat recovery units, the standard free-cooling and night cooling functions enable you to optimise thermal performance efficiency.

High energy-efficiency heat recovery unit

Depending on its arrangement, two different highly energy-efficient heat recovery systems are available:

"COUNTER FLOW" plate heat exchanger with bypass (Vertical, Ceiling-mounted & Classic models)



ENHANCED DESIGN

To reduce maintenance constraints, Floway has been designed to be as compact as possible. Measuring less than 800 mm, its small dimensions* facilitate installation and maintenance (* Vertical, ceiling-mounted and Classic RHE ≤7500 models).

Floway benefits from the latest innovations in acoustics featuring 50 mm-thick insulation and quiet fans, offering quiet operation and optimum comfort.

Clean air for clean living

Nowadays, there is greater demand than ever before for clean, filtered air; standard EN 15251 even recommends a second filtration stage for fresh air.

That is why Floway offers a choice of two different filtration efficiency levels, M5, F7 and F9 (according to EN779). This enables you to control the dust level (preventing exchangers from clogging). Additionally, the Vertical, Classic and Classic RHE models feature an option for two filtration stages for fresh air.





LATEST GENERATION Control & Supervision



The FLOWAY control is fitted as standard on all FLOWAY dual-flow air handling units.

FLOWAY control

This intelligent standalone control enables full management of each AHU as well as the control of each option and accessory.

The FLOWAY control is prewired and preprogrammed in the factory. Each unit is also factory-tested to guarantee quality.

The human-machine interface is used to manage and view all the parameters:

- Management of return air/air supply/ambient air temperatures, free-cooling, night cooling, etc.

- Management of airflow modulation for single or multiple zones (constant flow rates or constant pressure).

- Time schedule for Eco/comfort operation
- CO₂ sensor

- Safety, management of alarms for maintenance and warnings (sensor states, antifreeze protection etc.)

- CMS communication: MODBUS RTU, LON, KNX, MODBUS TCP or BACNET IP.

Remote monitoring of CIAT machines

CIAT has set up and now uses web-based services which allow CIAT equipment to be accessed remotely: CIATM2M is the new automated process based mainly on architectures for command/control, management, maintenance and supervision of installations.

Floway can be monitored on a daily basis by CIATM2M which provides full diagnostics on correct operation, detects the unit's requirements and offers appropriate solutions.

	CIATM2M kit contents					
~	- 1 GPRS modem					
22	- 1 International SIM card					
TM2M	- 1 power supply					
AT	- 1 power protection device					
Ū	- 1 GSM antenna					

- 1 terminal block (bus, supply, etc.)



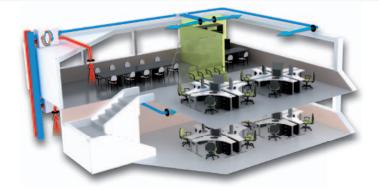
FLOWAY "Classic & Classic RHE

	Model				
	Classic RHE	Classic			
Range of flow rates	9 models ranging from	5 models ranging from			
	300 to 18,000 m³/h	300 to 6600 m ³ /h			
	Mixing	-			
	Damper and servomotor				
	Flexible sleeve				
	Roof				
	Canopies				
Accession	Built-in electric heater				
Accessories	Built-in heating coil with valves				
	Built-in mixed hydraulic coil with valves				
	External electric heater				
	External heating coil with valves				
	External cooling coil with valves				
	External mixed coil with valves				





Choose from a selection of heat recovery units to meet your needs: - The plate heat exchanger with the "Classic" model, for all applications where **airtightness** between the flow of fresh air and the flow of extracted air is essential. - The rotary heat exchanger with the "Classic RHE" model, for **optimal heat recovery** all year round and with an optional air circulation function.



	Dimensions (mm)						
		Width	Length		Air flow (m ³ /h)		
Sizes	Height		CLASSIC	CLASSIC RHE	CLASSIC	CLASSIC RHE	Voltage (V)
1000	958	810	1580	1266	300 to 1200	300 to 1200	230 V 1-Ph
2000	1158	1010	1150 + 800	510 + 800	500 to 2200	500 to 2500	
3000	1359	1210	1264 +800	800 + 800	700 to 3700	700 to 3700	
4000	1659	1510	1264 + 800	800 + 800	900 to 5100	900 to 5700	
5000	1659	1510	-	800 + 800	-	900 to 5700	400 V 3-Ph
6000	1959	1810	1407 + 850	800 + 800	1400 to 6600	1400 to 8500	400 V 3-PN
7500	1959	1810	-	800 + 800	-	1400 to 8500	
10000	2090	1920	-	1100 + 1100	-	2500 to 14,000	
15000	2340	2192	-	1100 + 1200	-	3000 to 18,000	

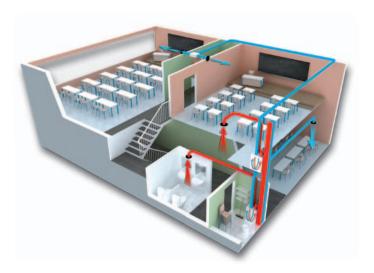




Range of flow rates	3 models ranging from 300 to 2600 m³/h			
Model	Vertical			
	Damper and servomotor			
	Flexible sleeve			
	Built-in electric heater			
Accessories	Built-in heating coil with valves			
Accessories	External electric heater			
	External heating coil with valves			
	External cooling coil with valves			
	External mixed coil with valves			

FLOWAY "Vertical" is compact and combines perfect heat exchange and ventilation for **optimum acoustic comfort**.

By virtue of its design, shape and slim dimensions, the FLOWAY "Vertical" adapts to all your requirements and can be easily integrated into all the modular spaces offered by **new or renovated buildings**.





	Dimensions (mm)			Air flow rates	Voltage	
	Height	Length	Width	(m³/h)	(V)	
Size 1000	1 340	1 272	700	300 to 1200	230 V 1-Ph	
Size 1500	1 712	1 550	800	700 to 2000	400 V 3-Ph	
Size 2000	1 854	1 692	800	700 to 2600	400 V 3-PN	

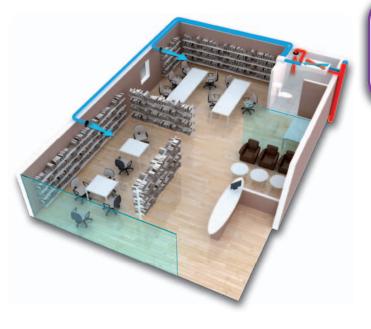
FLOWAY "Ceiling-mounted version"

Range of flow rates	3 models: 300 to 1900 m³/h			
Model	Ceiling-mounted			
	Damper and servomotor			
	Flexible sleeve			
Accessories	External electric heater			
Accessories	External heating coil with valves			
	External cooling coil with valves			
	External mixed coil with valves			

With its compact dimensions and reduced height, the FLOWAY "Ceiling-mounted" model can be integrated into any **confined space**. Its intelligently-designed acoustics and high quality components (ventilation, heat exchanger and control) guarantee **optimum comfort and cost-effectiveness**.



	D	Dimensions (mm)			Voltage	
	Height	Length	Width	(m³/h)	(V)	
Size 700	557	1 359	896	300 to 1000	- 230 V 1-Ph	
Size 1200	557	1 498	1 174	500 to 1400		
Size 1600	557	1 762	1 456	600 to 1900	400 V 3-Ph	





ed version"

> RANGE OF FLOW RATES

