

E N E R G Y O P T I M I S A T I O N

CLIMACIAT CONCEPT



# AIR COMPACT

• Air handling units from 1000 to over 6000 m<sup>3</sup>/h

THE ESSENCE OF PERFORMANCE  
AND MODULARITY

A I R Q U A L I T Y  
•  
C O M F O R T



# CLIMACIAT CONCEPT Air Compact

PERFORMANCE AND MODULARITY



Offices



Shopping Centres



Hotels

**Extra flat 400 mm**

**Suitable for 100 to over 1000 Pa**

**Increased efficiency of the FMA and plate heat exchanger**

**Sound level CONTAINED**

**Competitive, economic solution**

**Air Compact** is a high quality product developed to satisfy the current essentials of energy saving, indoor air quality and comfort.

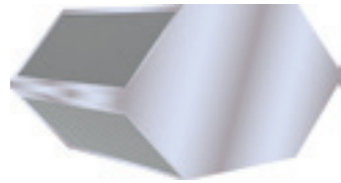
This air handling unit offers a range of technologies, matched with components and accessories to make any combination possible at a low cost.

## → ENERGY SAVINGS

The **AIR COMPACT** active energy efficiency solution ensures your consumption is fully under control.

Air Compact produces and optimises the energy flows using high-performance fans and smart measurement, control and regulation systems, like the frequency inverter available as an option.

Air compact is equipped with a high-efficiency plate heat exchanger developed by CIAT to offer efficiency of over 65%.



Plug fan, 1 or 2 direct-drive AC motor fans, (inverter optional)



EC motor providing a constant output across the entire operating range



Onboard control



## EXCEEDING THE STANDARDS!

With the ERP directive, the EU is compelling industrial companies to make their products more energy efficient. Air Compact, with its motors and turbines, actually exceeds the ERP2015 directive.

## THE BENEFITS

- With an innovative design, this mini system is one of the most reliable and compact in its category, at just 400 mm thick.
- **Modular unit** offering the best solution to your needs, according to the sector of activity
- Choice of **1 or 2 fans**

- **Plug & Play**, easy to install, quick hydraulic and electrical plugs
- **Onboard control**, factory-fitted, developed to guarantee the stated performance, practical installation.

## → IAQ

Indoor air quality has become pivotal for our health, as we spend a great deal of time indoors.

Whether in an office or a hotel complex, ventilation is now part of the energy performance health objectives. Air Compact renews the ambient air and reduces pollutants whilst optimising the indoor conditions. It can be used to control and regulate the air temperature and the concentration of dust using our filters.

### The aims of our filters:

- Gravimetric (G4 filter): this should ensure all solid particles are kept out, thereby protecting the fans.
- Opacimetric (M6 to F9): this provides cleaner air (F7 ensures approximately 20 times less dust than a G4).

**Our filter combinations fully meet the requirements of EN 13777 French standard.**



Opacimetric filter

## → COMFORT

**Acoustic:** Sound level contained by the fan/casing combination.

**Thermal:** Optimised heat exchange coil and production mastered thanks to CIAT developments.

**Air flow:** Flow rate managed by the fan variable speed control.

**Installation & maintenance:** Aesthetic design and CIAT quality product. Simplified installation thanks to the ergonomic, effective assembly systems. Wide access for easy maintenance provided by the fully unhingeable doors.

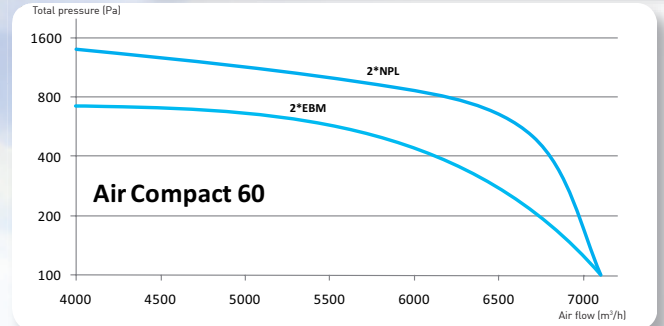
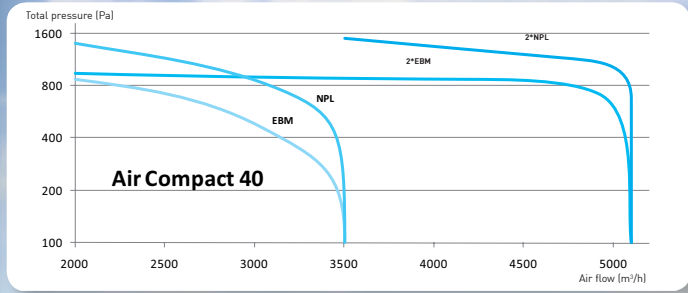
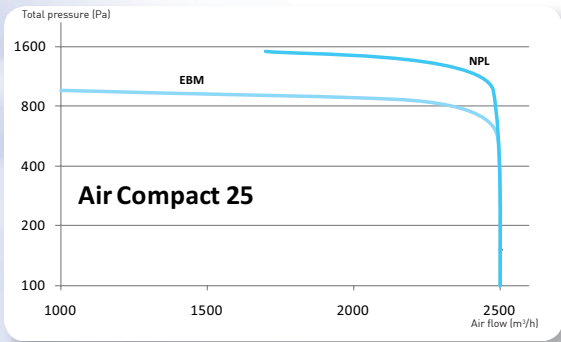


Unhingeable hinges/handles



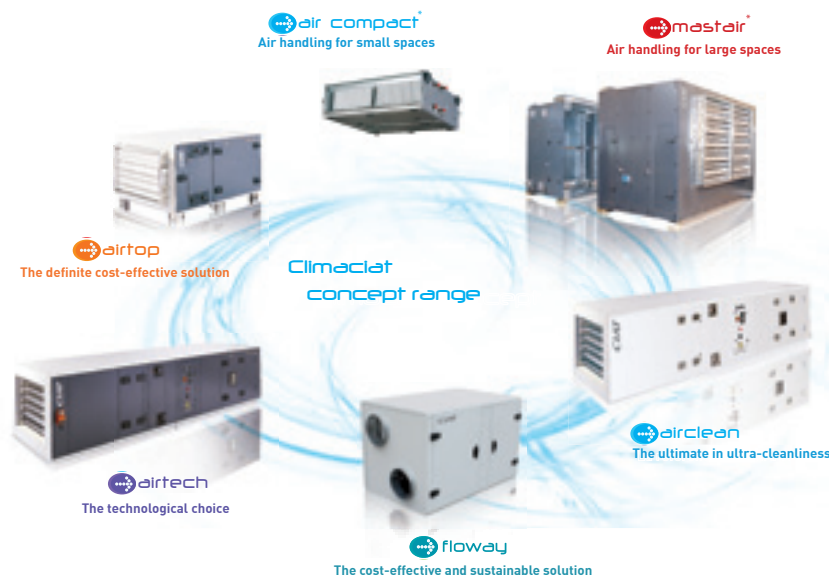


# TECHNICAL CHARACTERISTICS



## Technical details

Air Compact		25	40	60
Assembly		Ceiling-/floor-mounted/vertical		
Width/Height		750*400	1310*400	1880*400
Nominal air flow (m³/h) (Speed: 3.1 m/s across finned layer)		2000	4000	6000
Asynchronous motor NPL technology	Plug fan	1	1	2
	Electric motor	1	1	2
	Available power	0.55 kW - 4-pole/1.1 kW - 2-pole/1.4 kW - 2 pole		
	Number of inverters	1	1	1
"EC motor EBM technology"	Plug fan	1	1	2
	EC motor	1	1	2
	Available power	1 kW		
Pleated filters		G4/F5/F7 HEE/F9 HEE		
Opacimetric filters (Short flexible pockets)		F6/F7/F8		
Opacimetric filters (Rigid pockets)		F6/F7/F8/F9		
Hydraulic heating coil		1/2/3 rows	1/2/4 rows	1/2/4 rows
Hydraulic cooling coil		3/4/6 rows		
Direct expansion cooling oil		3/6 rows		
Electric heating coil		15 kW	24 kW	33 kW
Adjacent plate heat exchanger		Yes	Yes	No



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