CITYCOOL®

RANGE

Independent ventilation
of equipment rooms
Air flow from 2400 to 12000 m³/h

CALADAIR I 61 rue de Saint Véran I 71000 MÂCON LOCHÉ I Tél. 33 (0)3 85 36 82 00 - Fax 33 (0)3 85 36 82 01 I www.caladair.com

APPLICATION

- Designed for the control of condensers installed in closed rooms.
  The CITYCOOL® AHU (Air Handling Unit) is autonomous and does not require adjustment. Fitted with built-in sensors, it continually monitors the air flow generated by the condenser fan(s).
  The built-in regulator analyses the measurement and generates a control signal adapting the air flow of the CITYCOOL® to the actual requirements of the installation.
- An integrated probe monitors non stop the room's temperature.
- If the setpoint threshold is exceeded, the CITYCOOL® changes to maximum air flow in order to remove the heat given off by the other equipment installed in the room. If the condensing AHU (Air Handling Unit) stops working (normal operating cycle, stop by timer, maintenance, etc.), the CITYCOOL® AHU will stop and restart automatically. Fully factory-wired and regulated, the CITYCOOL® is a "plug and play" product.
  Power supply is 230V single phase throughout the range.

RANGE

- Available in 6 sizes and 6 models, the CITYCOOL® is combined with condensing AHUs from 4 kW - 2400 m³/h to 34 kW - 12000 m³/h (maximum calorific or cooling power of the condensing AHU under EUROVENT nominal conditions).

CONSTRUCTION

- Structure in aluminium profile.
- Corners in reinforced polyamide.
- Access to internal components by the side door on the right viewed in the air direction.
- 10/10ths galvanized steel panels.
  Nuts crimped into the frame for ground/wall fixing by bracket.
  Module fitted as standard with intake and discharge panels with in-line circular connection fitted with double lip seals.
  Regulation AHU, on the right looking in the air flow direction, mounted on the side door fitted with a handle and hinges to facilitate access to the whole of the motor fan.
  Low noise level due to the 25 mm of very high density (120 kg/m³) mineral wool acoustic insulation.

MOTOR FAN

- Impulse centrifugal wheel with double opening.
- IP55 class F motor with belt and pulley coupling and PTO thermal cutout factory wired.
- Drive belt can be changed when stopped.
  Motor fan assembly mounted on the same chassis (motor mounted directly on the casing for model 4, motor fixed to the carriage for the other models).

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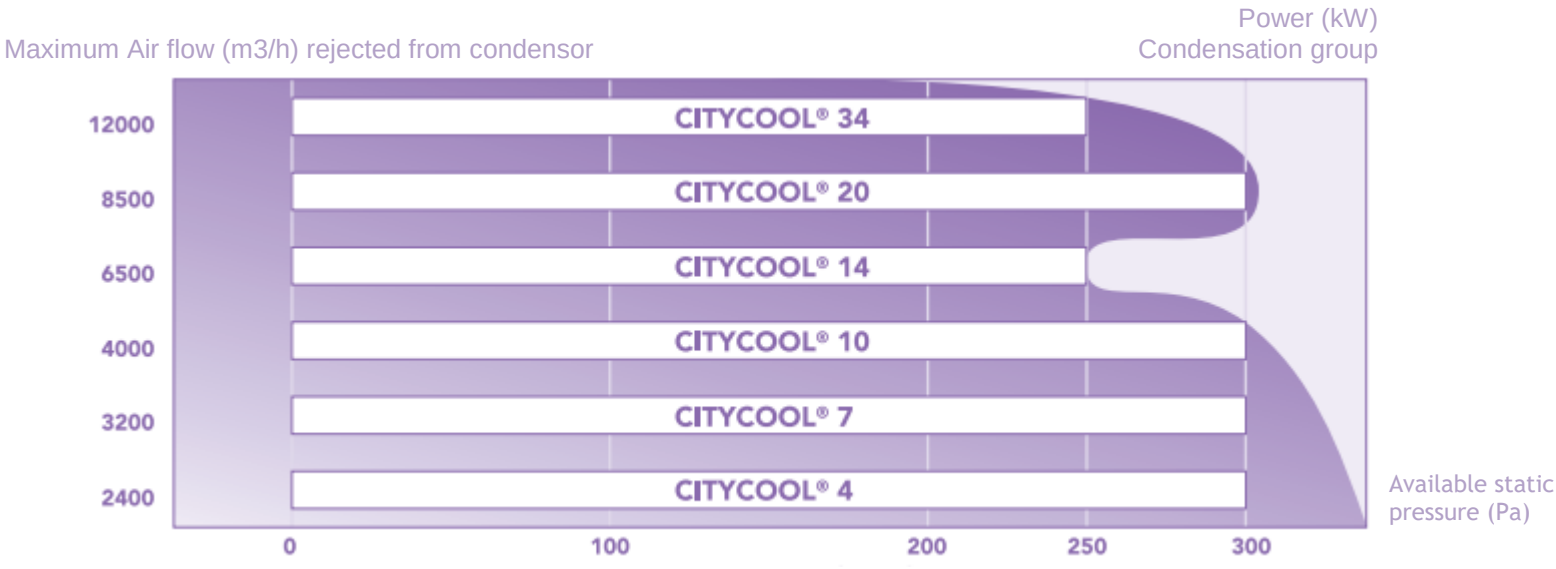
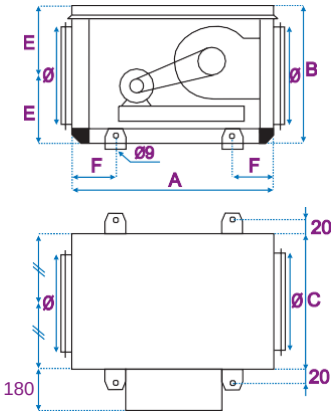
PRESELECTION TABLE CITYCOOL®



DIMENSIONS CHARACTERISTICS CITYCOOL®

CITYCOOL® model	Dimensions A mm	B mm	C mm	E mm	Ø mm	F mm	Weight kg
4	660	**445**	445	222	**315**	80	52
7	700	**545**	545	272	**400**	80	66
10	745	**645**	645	322	**450**	80	81
14	845	**745**	745	372	**500**	80	109
20	970	**845**	970	422	**630**	100	144
34	1045	**945**	1045	472	**800**	100	174



DIMENSIONS CHARACTERISTICS CITYCOOL®

CITYCOOL® model	APPLICATION kW - m³/h*	Static pressure Pa*	Motor power kW	ALIMENTATION CITYCOOL®
CITYCOOL® 4	4 / 2 400	**300**	0,75	230V MONO
CITYCOOL® 7	7 / 3 200	**300**	0,75	
CITYCOOL® 10	10 / 4 000	**300**	1,1	
CITYCOOL® 14	14 / 6 500	**250**	1,5	
CITYCOOL® 20	20 / 8 500	**300**	2,2	
CITYCOOL® 34	34 / 12 000	**250**	2,2	

** kW: maximum calorific or cooling power of the condensing AHU under EUROVENT nominal conditions.*
m³/h: maximum air flow discharged by the CITYCOOL®.
Pa: maximum static pressure of the system, i.e. pressure loss of the system as shown in the functional diagram below including the pressure drop on the fresh air intake.

INSTALLATION PRINCIPLE CITYCOOL®