HOUSING VENTILATION

ECOBLUE™

RANGE

C4 - 400° C - 1/2 hrs
Very low consumption CMV/Collective extraction units
Air flow 50 to 11,000 m^3/h

Models 600 to 1 800

Models 2600 to 11 000

Econological™ solutions

Softwair.fr™

Uniclima

C4 EXTRACTION UNIT DESCRIPTION ECOBLUE™

Ventilation unit
EC MOTOR (direct current)
Air flows from 50 to 11,000 m³/h

Communicant MODBUS RS485
CTICM C4 - 400° C - 1/2 hrs approved
PV n° EFR-15-002420 (models 600 to 1 800)
PV n°EFR-19-002623 (models 2 600 to 11 000)
CSTB technical notification
for Hygro A, Hygro B and Hygro Gaz
Econological solution™

APPLICATION

- Intended mainly for air extraction in houses and public assembly buildings requiring low and average air flows.
- C4, 400°C 1/2 h certified 50 Hz and 60 Hz.

▲ **ECOBLUE™** units fitted with the EC motor (direct current) fulfil the requirements of directive ErP 2009/125/EC (2nd phase, 2018).
Featuring a simple regulation of use, **ECOBLUE™** box enables a self-regulating constant pressure operation, **LOBBY™** mode.
▲ The **ECOBLUE™** self-regulates in constant pressure mode, when the factory set is at 150 Pa. This pressure can be adjusted from the controller with digital display, user friendly and easy to use for direct pressure display.
This self-regulating fashion **LOBBY™** variable flow and constant pressure makes it possible to implement a very low consumption collective building.

RANGE

- Composed of 8 models, the range covers air flows from 50 to 11,000 m³/h.

INSTALLATION

- Can be installed indoors or outdoors.
- Its cubic shape adapts to all intake/discharge combinations to 90° (models 2600 to 11000).

▲ The technical back panel grouping the proximity switch and **LOBBY™** controller with digital display allows a 90 ° rotation adapted to the installation position to maintain the sense of reading **LOBBY™** regulator (models 600 to 1 800).

- For other models, the **LOBBY™** regulator is integrated into the rear panel that can be rotated 90° to reach the motor.

Access to all internal parts by the technical panel for easy maintenance.

CONSTRUCTION

- Unit: galvanized steel sheet. Amply dimensioned, it offers powerful air handling and acoustic performance characteristics.
- Fan and motor acces by removable panel.
- Bird protection grid on discharge.
- Two circular connections with double lip seal for watertight connections (ATEC CSTB No. 13-224-V2).
- Fixed connection panels for the models 600 to 1800.
- Removable connection panels for the models 2600 to 11000.
- Local padlockable switch on front panel.

▲ **LOBBY™** regulator, constant pressure self-regulated, with digital display, **RS485 MODBUS** communicating in IP54.

- The unit incorporates an **ECOBLUE™** airflow fault relay function. This program includes a management of :

Flaw signal by contacting a pressure less than 80 Pa (gaz pressure switch function).
Visual indication of a flashing default pressure of the green screen / red.
Mistral 60 S: 60S delay on the fault contact to not trigger false alarms.
LED: this available contact can connect a red light indicates a malfunction of the unit.

MOTOR FAN

▲ Direct drive EC motor with high efficiency electronic commutation with 0-10V signal control, a specific profile turbine (models 600 to 1800) and a reaction turbine (models 2600 to 11000).

- Coil action in specific high efficiency and low noise profile.

The association, in the **ECOBLUE™** unit, the EC motor and a coil profile ensures very high performance to very low power **econological™ solution** of the RT2012 and the requirements of the 2018 phase of the Ecodesign Directive ErP 2009/125 / EC.

CONTROL PANEL

- **ECOBLUE™** has a **LOBBY™** regulator in IP54 case with digital display to enter the setting of the user-friendly set pressure and easy to use.
- In operation, the screen displays the pressure continuously instant service.

ECOBLUE™ is communicating standard **MODBUS RS485** for integration in GTC for ERP or simple remote management of multiple buildings.

- Electrical connection on the terminal block of the disconnectable proximity switch.

FIELD APPLICATIONS ECOBLUE™

Applications	Legislation	Models
Housing ventilation for small buildings	Approved 400°C - 1/2h	600 to 11 000
Ventilation of cover car parks in small residential buildings	Article 89 of 31 January 1986 decree Résistance 400°C – 2h	2 600 to 11 000
Smoke extraction, trafic and stairwells in residential buildings	Articles 37 and 38 of 31 January 1986 decree Résistance 400°C – 2h	2 600 to 11 000
Ventilation of residential tall buildings	Article G4A4 of 30 December 2011 decree Résistance 400°C – 2h	2 600 to 11 000

ELECTRIC CHARACTERISTICS ECOBLUE™

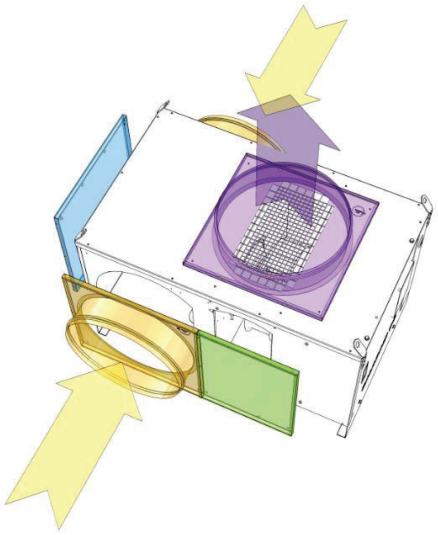
ECOBLUE™ models	Electric motor power (W)	Temp. Use (°C / °C)	Protection rate / Class	Thermal protection*	Alimentation voltage (V / Ph / Hz)	Protection intensity (A)
ECOBLUE™ 600	101 W	-20 / 50	IP44 / F	PTI	230 / 1 / 50	0,8
ECOBLUE™ 1000	150 W	-20 / 50	IP44 / F	PTI	230 / 1 / 50	1,2
ECOBLUE™ 1800	320 W	-20 / 50	IP44 / F	PTI	230 / 1 / 50	1,4
ECOBLUE™ 2600	680 W	-20 / 40	IP54 / F	PTI	230 / 1 / 50	2,3
ECOBLUE™ 4200	680 W	-20 / 40	IP54 / F	PTI	230 / 1 / 50	3,5
ECOBLUE™ 6800	1900 W	-20 / 40	IP54 / F	PTI	230 / 1 / 50	6,4
ECOBLUE™ 9100	2900 W	-20 / 40	IP54 / F	PTI	400 / 3 / 50	3,2
ECOBLUE™ 11000	2900 W	-20 / 40	IP54 / F	PTI	400 / 3 / 50	3,5

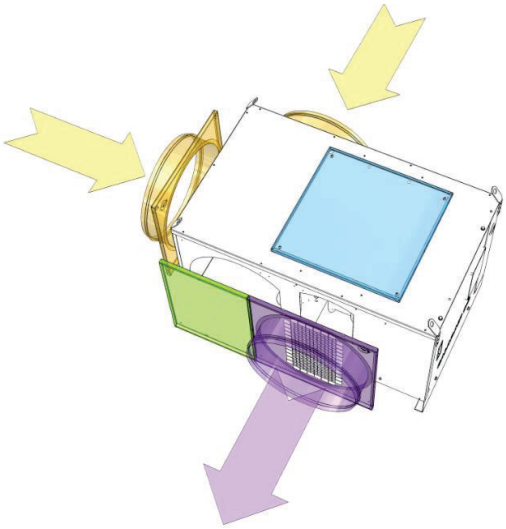
** PTI : Integrated Thermal Protection*

CONFIGURATIONS ECOBLUE™

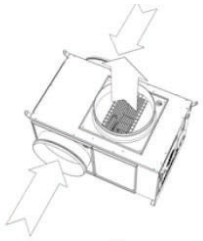
Modular configurations (models 2 600 to 11 000):

The unit is delivered in this configuration :

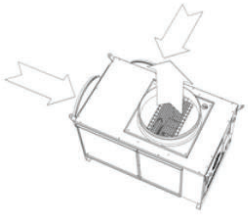




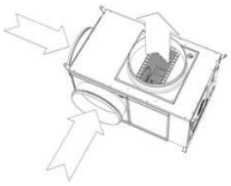
POSSIBILITY OF MODIFYING THE UNIT WITHOUT ADDITIONAL OPTION



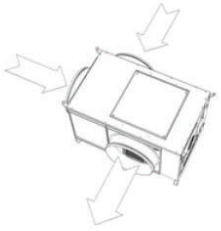
Basic configuration:
Vertical exhaust and double 180° intake.



Double 90° intake and vertical exhaust.

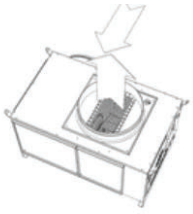


Double 90° intake and vertical exhaust.

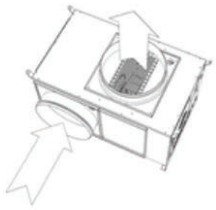


Double 90° intake and horizontal exhaust.

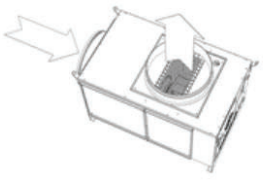
WITH THE USE OF A QUICK-RELEASE CAP (NOT SUPPLIED)



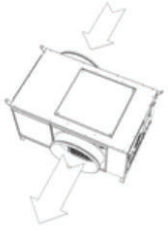
90° intake and vertical exhaust.



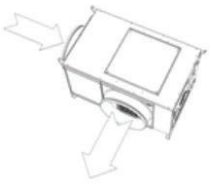
90° intake and vertical exhaust.



On line intake and vertical exhaust.



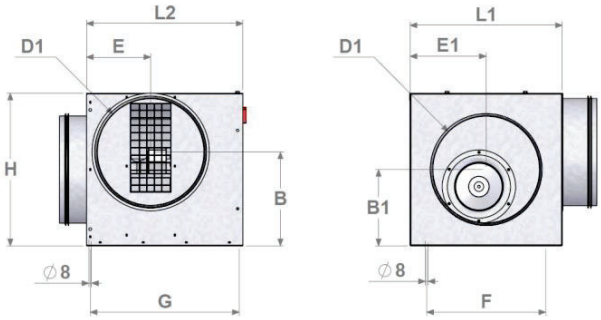
On line intake and exhaust.



Intake and horizontal exhaust at 90°.

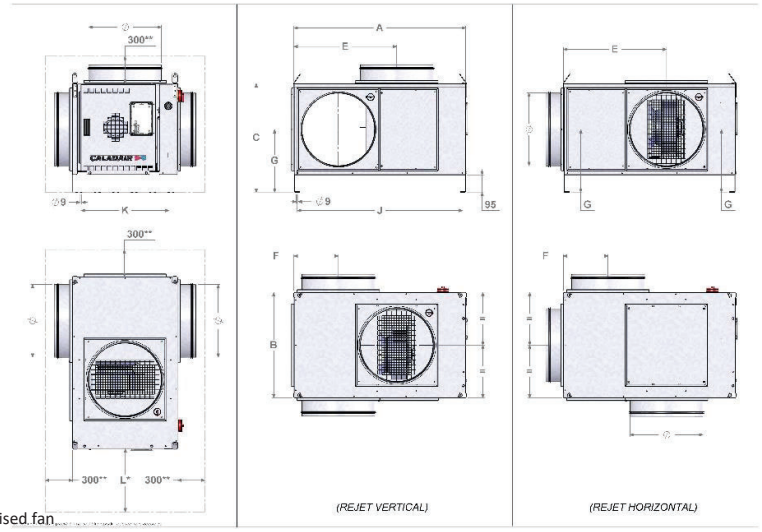
- ECOBLUE™ 600 – 1000 – 1800 (fixes connection panels) :

ECOBLUE™ models	CONNECTIONS	UNIT DIMENSIONS				EXHAUST POSITION			MOUNTING		WEIGHT
	D1	L1	L2	H	B	E	B1	E1	F	G	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
600	250	370	425	370	225	150	185	185	280	405	18
1000	315	450	460	450	275	190	225	225	350	440	24
1800	355	555	485	555	360	200	275	275	400	465	34



- ECOBLUE™ 2600 – 4200 – 6800 – 9100 – 11000 (removable panels) :

ECOBLUE™ models	Ø	A	B	C	E	F	G	J	K	L*	Weight
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg
2600	400	945	580	600	565	245	345	910	485	350	70
4200	500	1085	680	700	685	295	395	1050	585	375	85
6800	630	1265	790	830	840	365	460	1230	690	460	140
9100	710	1375	890	910	935	405	500	1340	795	510	180
11000	800	1495	980	1000	1035	445	545	1455	885	520	215



*Minimum space required to remove the motorised fan.
**Minimum space required for disassembly of peripheral elements and tool access (does not include the space necessary for accessibility for intervention)

The values "Lp4m dB (A)" (◯) shown on the curves correspond to the sound pressure level at 4 m hemispherical free field on a reflective surface, rejection not connected a subwoofer **ECOBLUE™**.

The values "LWA cond suction dB (A)" (□) shown on the curves correspond to the total sound power level radiated into the suction of a **ECOBLUE™** 's duct.

For the acoustic spectrum of sound power "LWA cond suction dB (A)" suction side, add the following values to the sound power level "LWA cond suction dB (A)" mentioned on the curves (□).

Weighting acoustic function of upstream suction cond LWA dB(A) □ shown on the curves								
Frequency	**63Hz**	**125Hz**	**250Hz**	**500Hz**	**1000Hz**	**2000Hz**	**4000Hz**	**8000Hz**
ECOBLUE™ 600 dB(A)	-29	-16	-4	-8	-10	-8	-11	-21
ECOBLUE™ 1000 dB(A)	-26	-13	-6	-12	-6	-7	-8	-16
ECOBLUE™ 1800 dB(A)	-26	-13	-7	-8	-6	-8	-9	-17
ECOBLUE™ 2600 dB(A)								
ECOBLUE™ 4200 dB(A)								
ECOBLUE™ 6800 dB(A)				Laboratory validation in progress				
ECOBLUE™ 9100 dB(A)								
ECOBLUE™ 11000 dB(A)								

For the sound level the global sound power level radiated into the duct to discharge "cond refoulemet LwA dB (A)", apply the following weightings: ECOBLUE™: LWA cond refoulemet dB (A) = Lp4m (◯) + 20.

To get the sound pressure level Lp dB (A), hemispherical free field, at a distance, unit floor standing on reflective surface, connected to the suction side, not connected discharge side, add the following values to Lp4m dB (A)◯) indicated on the curves.

Weighted Lp at various distances depending on Lp4m (◯)						
Distance (m)	**2 m**	**3 m**	**4 m**	**5 m**	**7 m**	**10 m**
Weighting distance dB(A)	6	2	0	-2	-5	-8

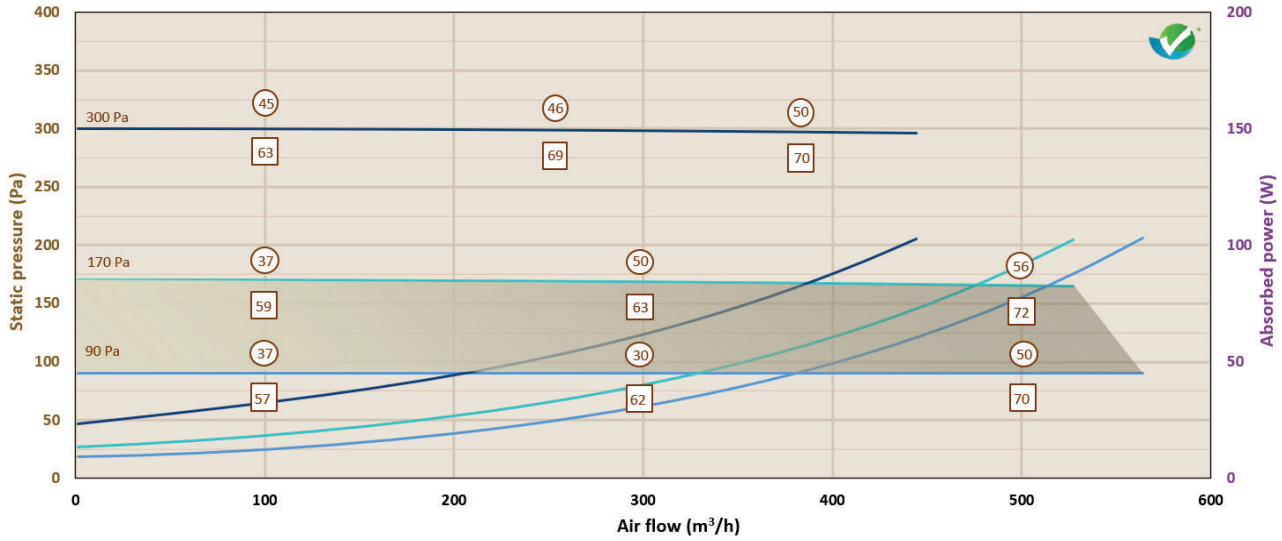
Tolerance : Overall values +/- 3 dB(A)

Acoustic spectrum +/- 5 dB(A)

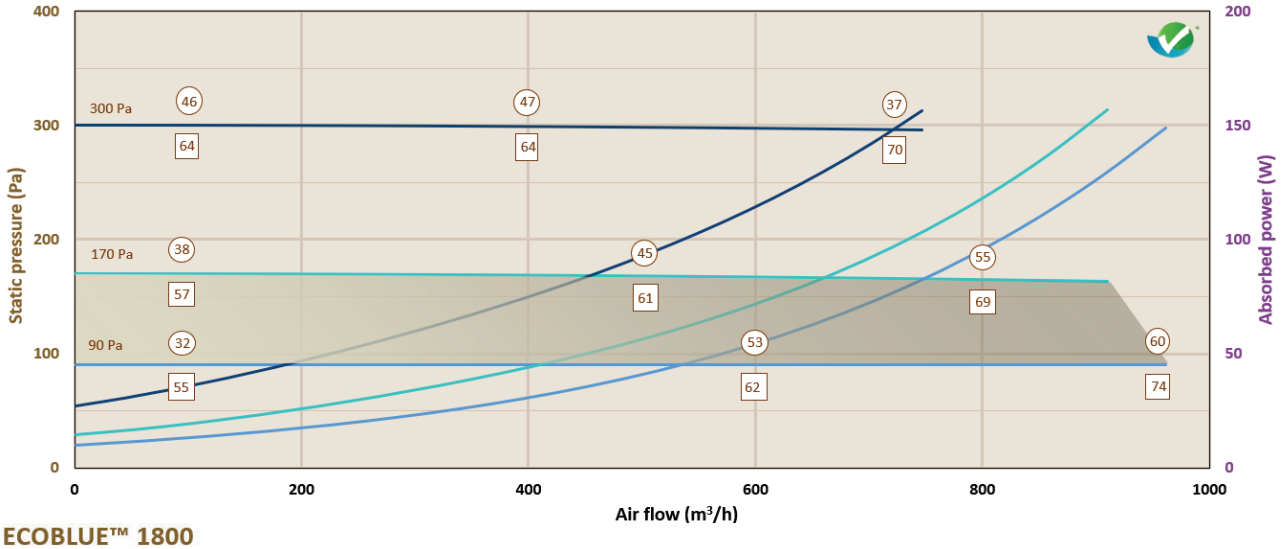
Softwair.fr™
CALADAIR MATRIX SOLUTION

SELECTION CURVES ECOBLUE™

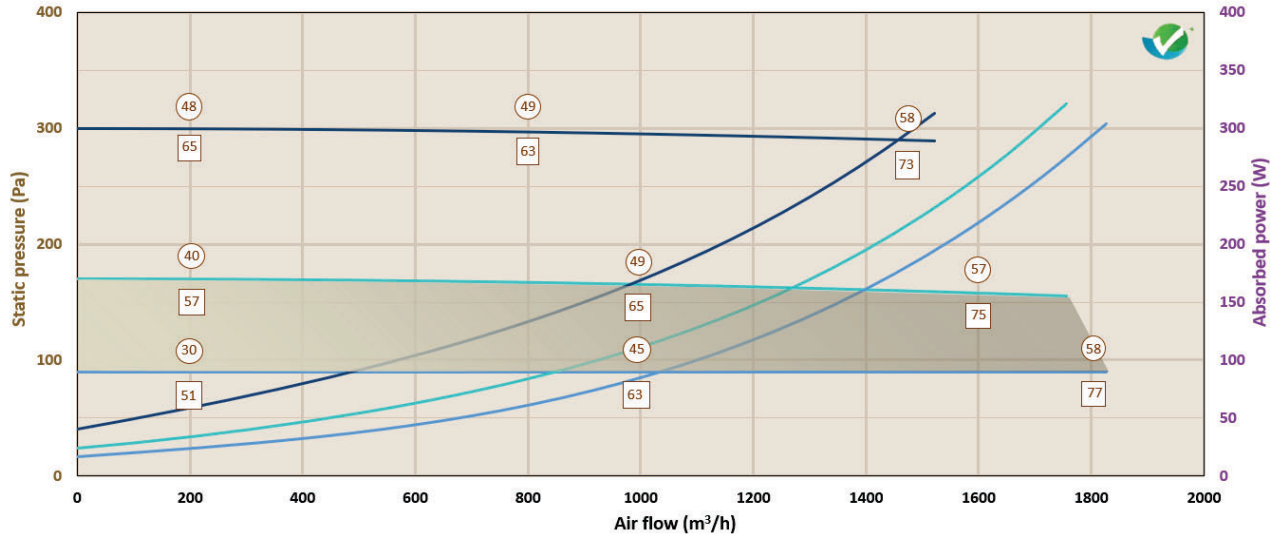
ECOBLUE™ 600



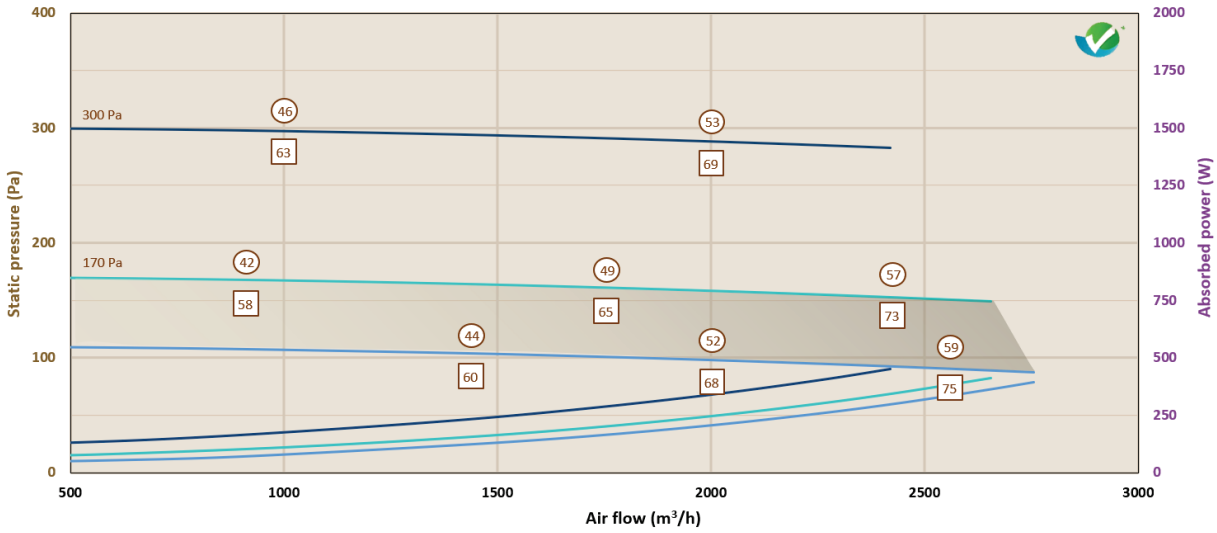
ECOBLUE™ 1000



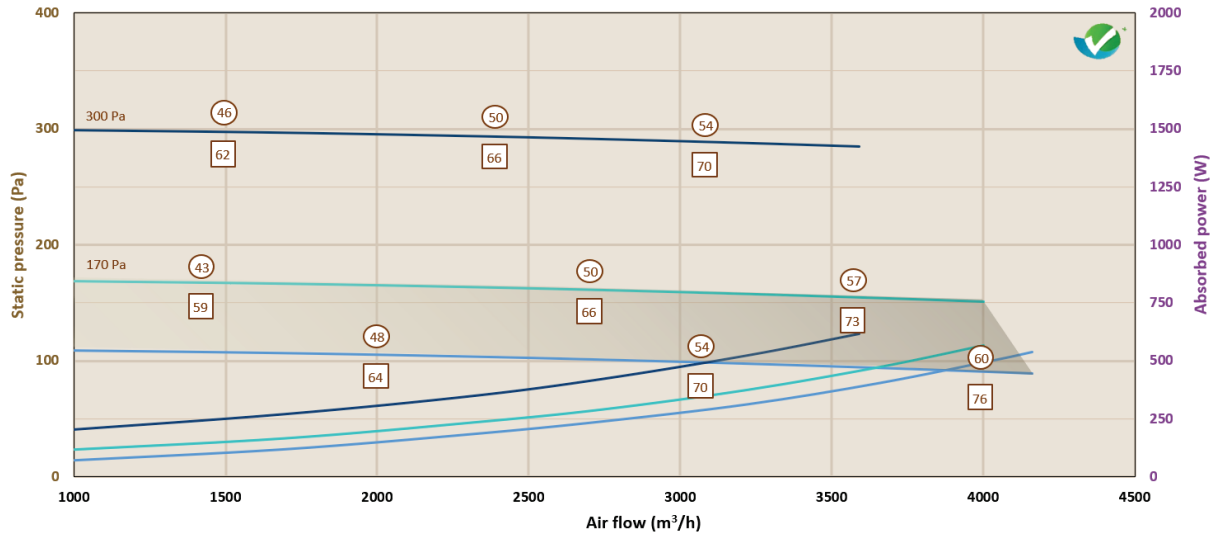
ECOBLUE™ 1800



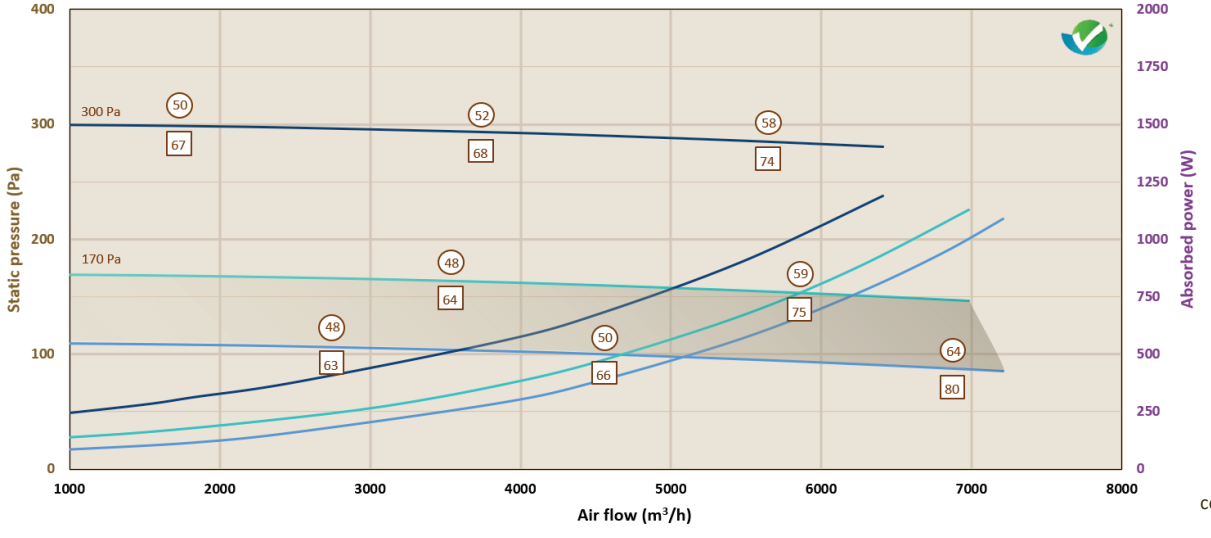
ECOBLUE™ 2600



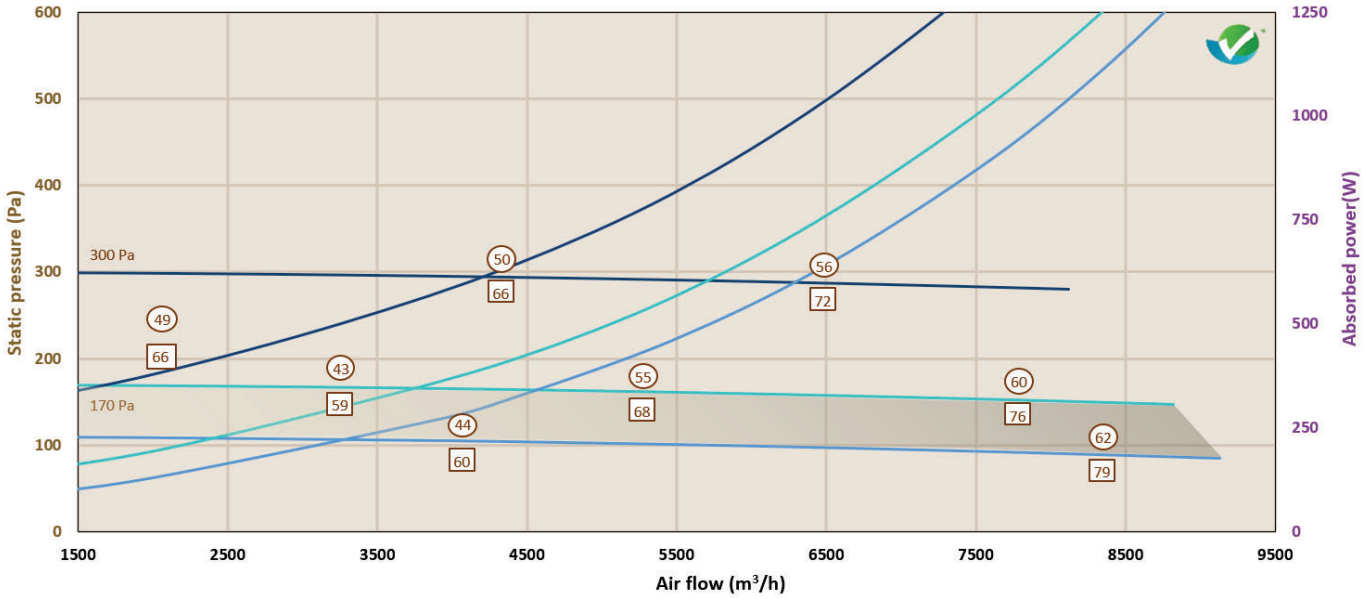
ECOBLUE™ 4200



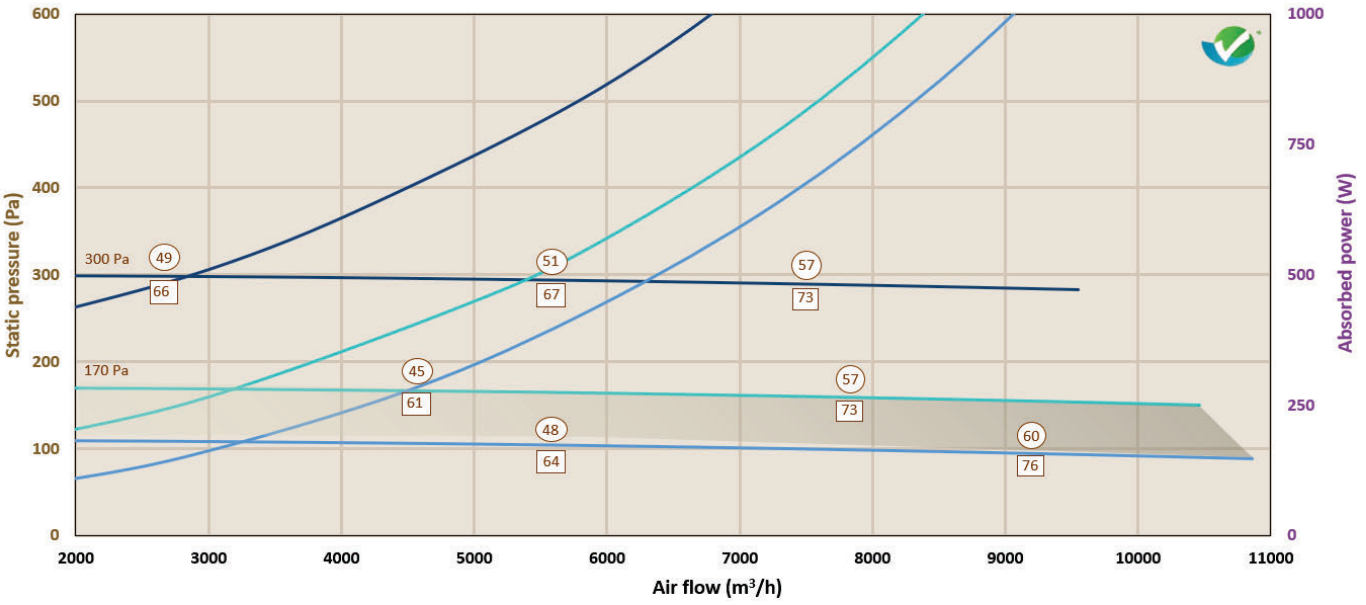
ECOBLUE™ 6800



ECOBLUE™ 9100



ECOBLUE™ 11000



NOTA : The curves are made with a suction connection connected and the unit reject not connected (configuration C selon la norme NF N 13141-4).

The curves above are provisional.