



# ECONIZER®

RANGE

C4 - 400° C - 1/2 h  
Exhaust fan units  
Very low consumption  
Flow rate 50 to 5000 m³/h

# 01





## Ventilation unit

EC MOTOR (direct current), flow rate 50 to 5000 m<sup>3</sup>/h

Agréé CTICM C4 - 400° C - 1/2 h

CTICM C4 - 400°C - 1/2h approved

Report n° EFR-15-002420 and 11-F-516

CSTB technical notification for Hygro A,

Hygro B and Hygro Gas usage

Econological® solution



### APPLICATION

- Intended mainly for air extraction in housing and public buildings, requiring low and average flow rates.
- C4, 400°C 1/2 h certified 50 Hz and 60 Hz.
- ▲ **ECONIZER®** units fitted with the EC motor (direct current) fulfil the requirements of directive ErP 2009/125/EC (2nd phase, 2018). Equipped with a potentiometer, **ECONIZER®** units enable a mode of operation adapted to the installation needs.

### RANGE

- Comprising 5 models, the range covers flow rates from 50 to 5000 m<sup>3</sup>/h.

### INSTALLATION

- Can be installed internally or externally, on the ground or suspended.
- Its cubic shape adapts to all intake/discharge combinations, at 90°.
- ▲ The technical rear panel gathers the local power switch and the potentiometer. Easy access to all internal components through the technical panel, for an easy maintenance.

### CONSTRUCTION

- Casing: galvanized steel sheet. Amply dimensioned, it offers powerful air handling and acoustic performance characteristics.
- Removable access panels for models 600,1000 and 1800.
- Bird protection grid on discharge.
- Two circular branch connections with double lip seals to ensure the network sealing (ATEC CSTB n° 13-224-V2).
- Local padlockable ON/OFF switch on front panel.
- ▲ IP54 potentiometer, on the front.
- Gas pressure switch (not mounted, option).

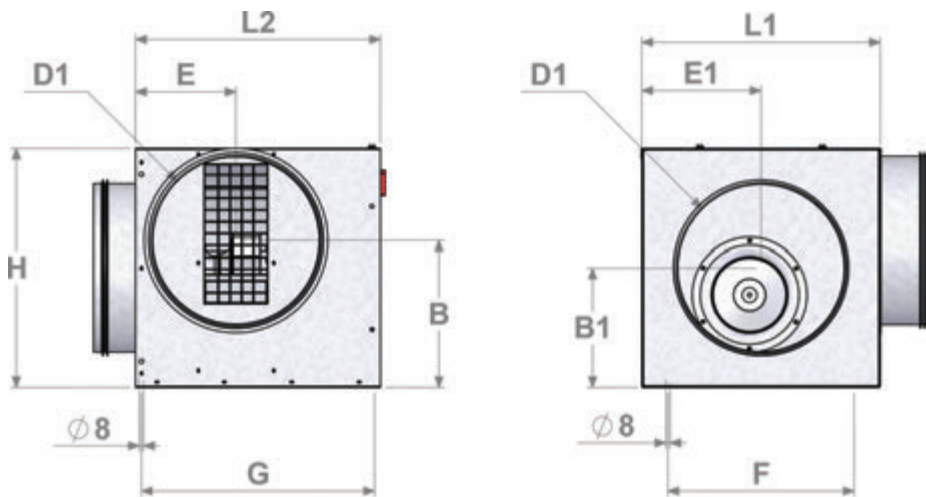
### MOTOR FAN

- ▲ Direct drive EC motor with high efficiency electronic commutation (ErP 2009/125/EC, 2nd phase 2018 compliant).
- Forward wheel with high efficiency specific profile and low noise level up to model 1800. High efficiency backward wheel, epoxy-treated (3000 and 5000).  
The association, inside the **ECONIZER®**, unit, of the EC motor and a specific profile turbine guarantees very high performance, for an **econological solution®** very low consumption compliant with all requirements of ErP 2009/15/EC, phase 2 directive.

## ELECTRICAL CHARACTERISTICS ECONIZER®

ECONIZER® Model	Electrical motor power (W)	Usage Temp. (°C / °C)	Protection Index / Class	Thermal Protection*	Power supply voltage (V / Ph / Hz)	Protection current (A)
ECONIZER® 600	101	-20 / 50	IP44 / F	PTI	230 / 1 / 50	0.8
ECONIZER® 1000	150	-20 / 50	IP44 / F	PTI	230 / 1 / 50	1.2
ECONIZER® 1800	320	-20 / 50	IP44 / F	PTI	230 / 1 / 50	1.4
ECONIZER® 3000	650	-20 / 40	IP54 / F	PTI	230 / 1 / 50	3.5
ECONIZER® 5000	1200	-20 / 40	IP44 / F	PTI	400 / 3 / 50	2.7

\*PTI : integrated Thermal Protection



BRANCH CONNECTION		DIM. UNIT OVERALL			DISCHARGE POSITION				FIXING		WEIGHT kg
Model	D1 mm	L1 mm	L2 mm	H mm	B mm	E mm	B1 mm	E1 mm	F mm	G mm	
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
3000	450	650	565	650	410	240	325	325	450	545	50
5000	500	730	670	730	460	290	365	365	550	650	63

The Lp4m dB(A) (○) values shown on the curves relate the average overall acoustic pressure level, at 4m, radiated in an hemispheric free field, on a reflecting surface, **ECONIZER®** discharge unit not connected.

The "Lw cond suction dB(A)" (□) values shown on the curves relate the average overall acoustic power level radiated in the intake duct of the **ECONIZER®**.

To obtain the acoustic power spectrum "LwA cond suction dB(A)", suction side, add the values from the table below to the acoustic power level "LwA cond suction dB(A)" (□) shown on the curves.

Up weighting acoustic spectrum depending on LwA cond suction (dB(A)) (□) shown on the curves								
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
<b>ECONIZER 600</b>	-29	-16	-4	-8	-10	-8	-11	-21
<b>ECONIZER 1000</b>	-26	-13	-6	-12	-6	-7	-8	-16
<b>ECONIZER 1800</b>	-26	-13	-7	-8	-6	-8	-9	-17
<b>ECONIZER 3000</b>	-32	-13	-8	-6	-8	-8	-10	-17
<b>ECONIZER 5000</b>	-28	-14	-15	-5	-8	-7	-9	-16

To define the overall acoustic pressure level radiated in the discharge pipe "LwA cond discharge dB(A)", apply the following ponderation : LwA cond discharge dB(A) = Lp4m (○) + 20.

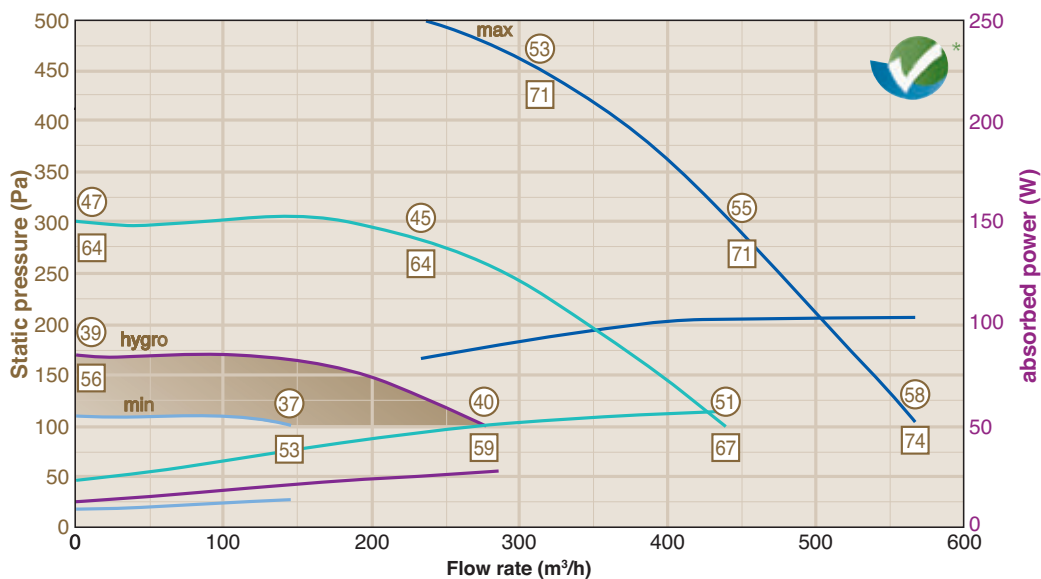
To obtain the acoustic pressure level Lp dB(A), in a radiated hemispheric free field, on a reflecting plane, at a certain distance, suction side connected, discharge side not connected, add the values from the table below to the Lp4m dB(A) (○) shown on the curves.

Lp weighting at various distances depending on Lp4m (○)						
Distance	2 m	3 m	4 m	5 m	7 m	10 m
Distance weighting dB(A)	6	2	0	-2	-5	-8

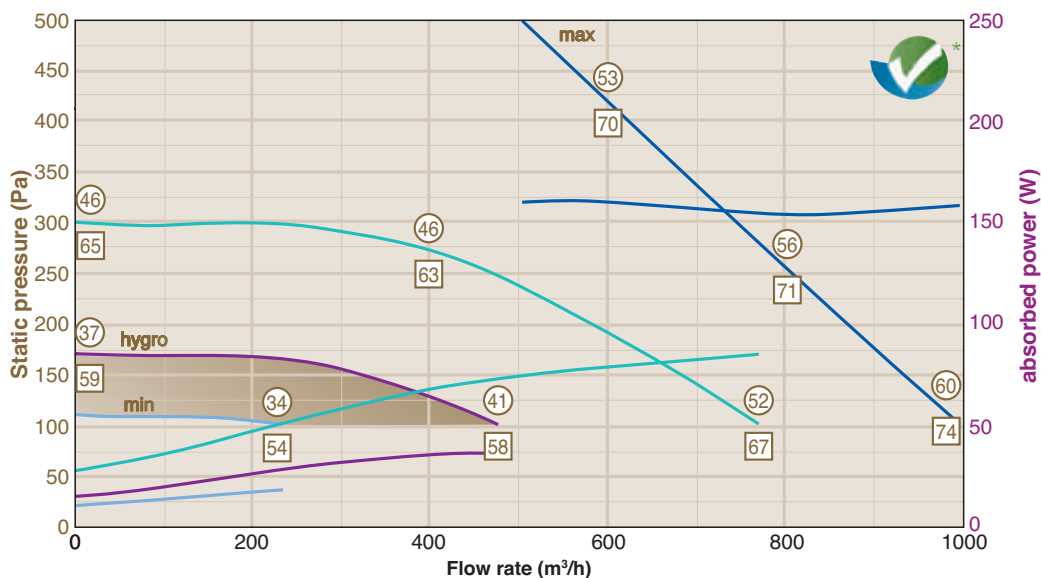
**Tolerance:** Overall values +/- 3 dB(A)  
Acoustic spectrum +/- 5 dB(A)



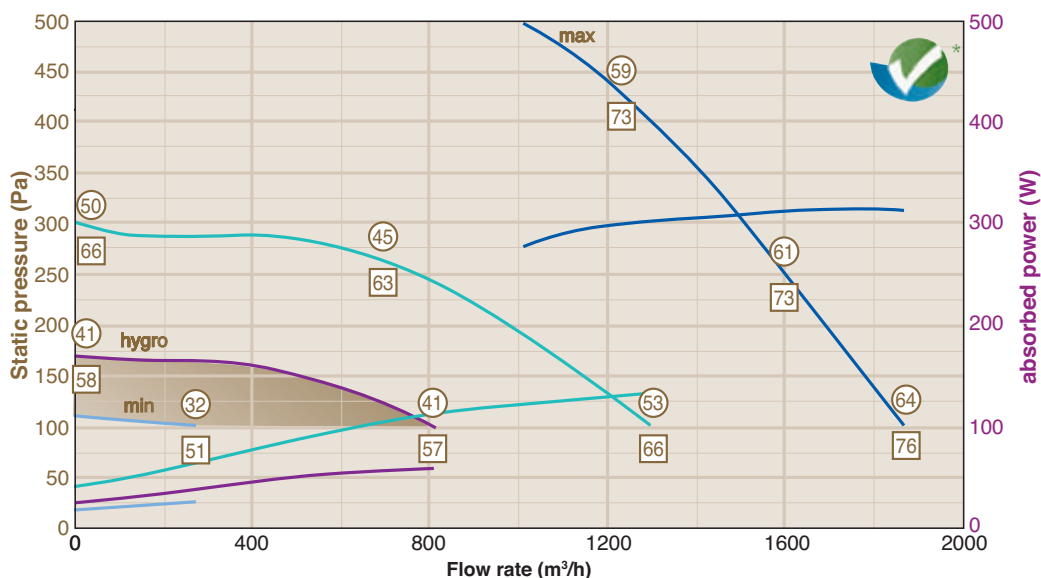
ECONIZER® 600



ECONIZER® 1000

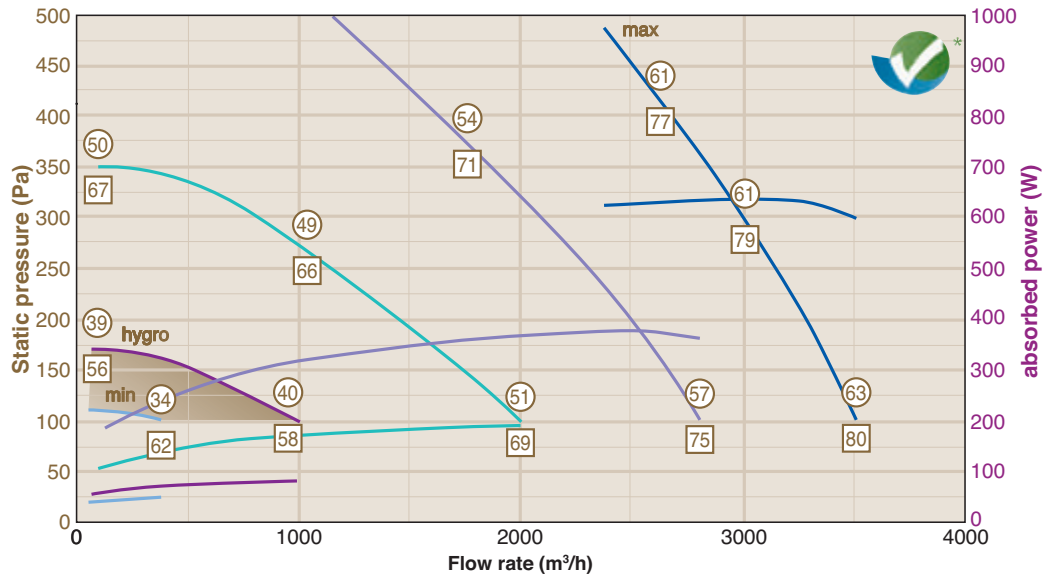


ECONIZER® 1800



NOTA : The curves are made with a suction and discharge nozzle connected subwoofer is not connected (C configuration according to NF N 13141-4).

**ECONIZER® 3000**



**ECONIZER® 5000**

