



MINIMAX[®]

RANGE

CMV Office extraction AHUs
Air flow 50 to 3 000 m³/h





Built-in motor, Air flow 50 to 3 000 m³/h

APPLICATION

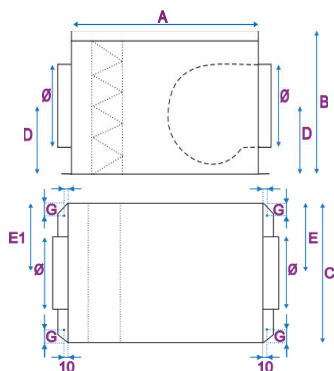
- Intended for the ventilation of rooms requiring low and average air flows.
- Can be used for air extraction or blowing.
- Particularly suited in applications where there are dimensional constraints (low height) and acoustic requirements (enhanced sound insulation version).

RANGE

- Available in 5 sizes and 7 models, the **MINIMAX®** range covers air flows from 50 to 3 000 m³/h.

CONSTRUCTION

- Housing in galvanized steel sheet, thickness 10/10ths.
- Removable cover secured by four screws.
- Circular double-seal in line branch connections (ATEC.CSTB N°13-224-V2).



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

- Proximity power switch for lockable power cable.
- Grommet for cable power.
- AHU fitted with feet with shaped slot for fixing .

MOTOR FAN

- Direct-coupled motor with integrated thermal cutout (in series with the windings).
- **MINIMAX®** 125 and 250 model: reaction wheel with single opening.
- Other models : impulse turbine with double opening.
- 3-speed motor up to model 250.

INSTALLATION

- Fitted with a rain hood, it can be installed outdoors.
- The AHU can be used ceiling- or wall-mounted in all positions.
- Easy access to all internal parts.
- Usage temperature: 40° C.

VARIANT

- Phonic version with very high density rockwool insulation (120 kg/m³).
- G4 gravimetric filter, thickness 25 mm.

INSTALLATION AND ELECTRICAL OPTIONS

- Numerous options are available.

DIMENSIONS CHARACTERISTICS

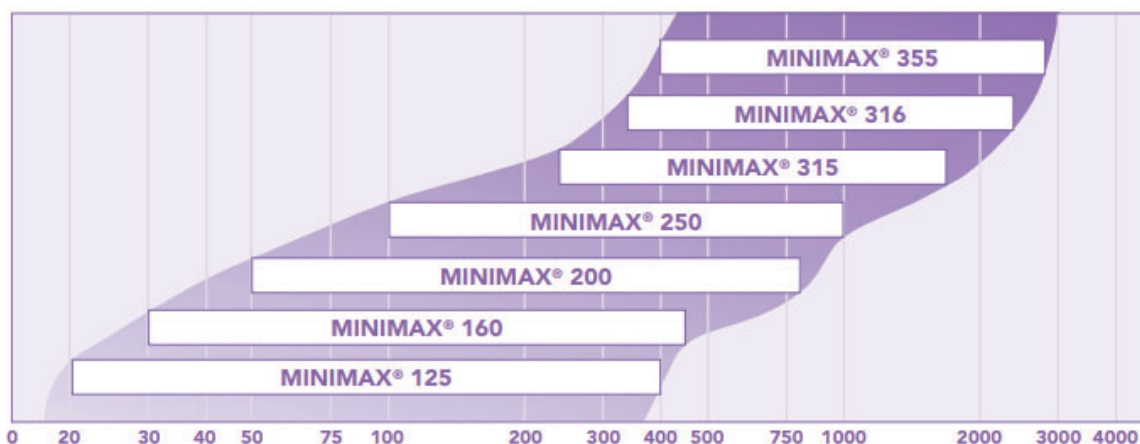
MINIMAX®

MINIMAX® model	A mm	B mm	C mm	Ø mm	D mm	E1 mm	E mm	G mm	Weight (kg)	
									NI	PHONIC
125	515	235*	370	125	120	185	185	50	10	12
160	515	235*	370	160	120	185	185	50	10	12
200	590	260*	420	200	125	210	210	60	14	16
250	540	335*	450	250	165	225	225	60	16	19
315	470	385	450	315	210	225	225	60	20	23
316	470	385	450	315	210	225	225	60	22	25
355	570	475	550	355	260	275	275	60	28	33

* AHU height PHONIC = B + 25mm

PRESELECTION TABLE

MINIMAX®





- The values L_{p4m} dB (A) (○) shown on the curves (or in the table below cons) is the sound pressure level to 4m in hemispherical free field on a reflective surface, rejection box not connected.
- The values cond Lw dB (A) (□) indicated on the curves correspond to the total sound power radiated in the MINIMAX® PHONIC upstream duct.
- For the acoustic spectrum of sound power Lw cond dB (A), upstream side, add the following values to the sound power level Lw cond dB (A) (□) mentioned on the curves.

Upstream acoustic spectrum weighting function cond Lw dB (A) shown on curves

Frequency	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	Global
Weighting MINIMAX 125 dB(A)	-23	-10	-2	-1	1	1	-6	-17	6
Weighting MINIMAX 160 dB(A)	-23	-10	-2	-1	1	1	-5	-17	6
Weighting MINIMAX 200 dB(A)	-23	-10	-1	-1	1	1	-6	-16	6
Weighting MINIMAX 315 dB(A)	-16	-7	-4	-2	0	-1	-7	-13	5
Weighting MINIMAX 316 dB(A)	-16	-7	-4	-2	0	-1	-7	-13	5
Weighting MINIMAX 355 dB(A)	-16	-7	-4	-2	0	-1	-7	-13	5
MINIMAX 125 PHONIC dB(A)	-23	-12	-3	-8	-10	-15	-18	-22	0
MINIMAX 160 PHONIC dB(A)	-23	-12	-3	-8	-10	-15	-17	-22	0
MINIMAX 200 PHONIC dB(A)	-23	-12	-2	-8	-10	-15	-18	-21	0
MINIMAX 250 PHONIC dB(A)	-23	-13	-5	-9	-5	-12	-14	-18	0
MINIMAX 315 – 316 - 355 PHONIC dB(A)	-15	-8	-3	-8	-11	-18	-20	-20	0

- The overall sound power radiated to the rejection of the box is given by adding 20 dB(A) to the “ L_{p4m} dB(A)” values indicated on the curves. (○).
- For the sound pressure level L_p dB (A) in a hemispherical free field, at a distance, camera placed on the floor reflecting surface upstream side connected discharge side not connected, add the following values in dB L_{p4m} (A) (○) shown in the curves for PHONIC release or in the table below for the non-isolated against release.

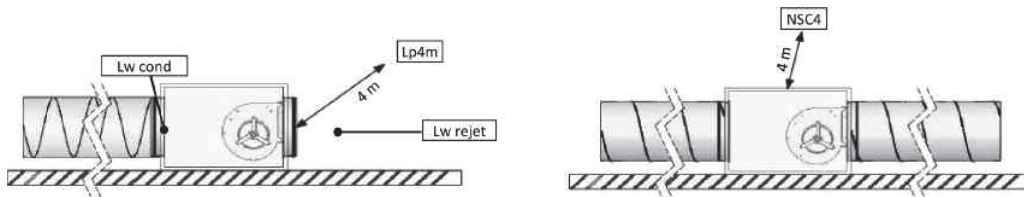
Weighted L_p at various distances depending on L_{p4m}

Distance (m)	2 m	3 m	4 m	5 m	7 m	10 m
Weighting distance dB(A)	6	2	0	-2	-5	-8

NOTA :

Tolerance = Global values +/- 3 dB(A)
Acoustic spectres
+/- 5 dB(A)

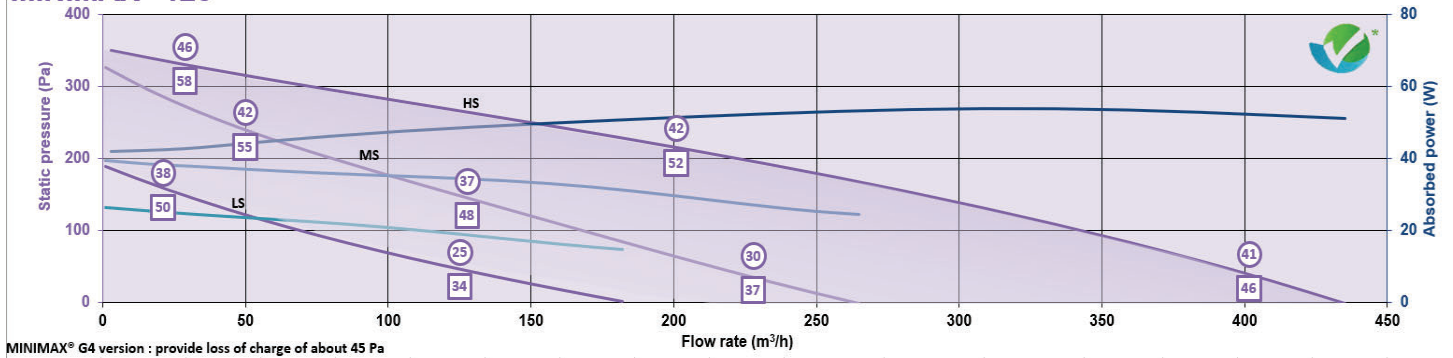
- For the sound level 4m (NSC4) connected to the suction and discharge by a sheath as well as the soundproofing box, apply the following AHU weights:
PHONIC MINIMAX ®: NSC4 dB (A) = L_{p4m} dB (A) (○) - 17
MINIMAX ® non-isolated NSC4 dB (A) = L_{p4m} dB (A) (see table below cons) - 9



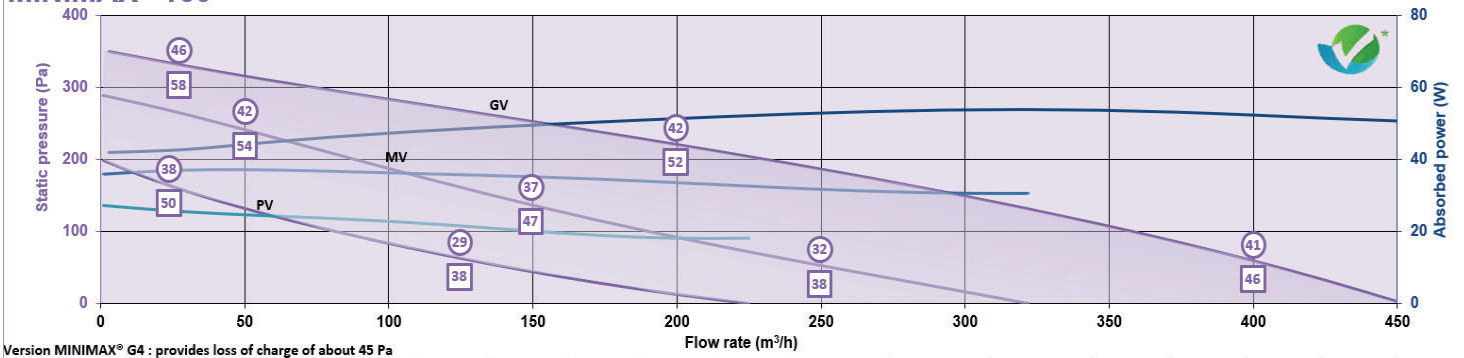
MINIMAX® Model	Power supply voltage (V / Ph / Hz)	Power rating (W)	Protection current (A)	Usage temp. (°C / °C)	Motor IP/Class	Thermal cutout *	Speed variation
MINIMAX® 125	230 / 1 / 50	50	0,23	-20 / 60	IP44 / B	PTI	AUTOTRANSFORMER OR ELECTRONIC
MINIMAX® 160	230 / 1 / 50	63	0,23	-20 / 60	IP44 / B	PTI	
MINIMAX® 200	230 / 1 / 50	170	0,45	-25 / 60	IP44 / F	PTI	
MINIMAX® 250	230 / 1 / 50	155	0,68	-25 / 60	IP44 / B	PTI	
MINIMAX® 315	230 / 1 / 50	147	1,6	-20 / 40	IP55 / F	PTI	
MINIMAX® 316	230 / 1 / 50	300	2,4	-20 / 40	IP55 / F	PTI	
MINIMAX® 355	230 / 1 / 50	420	3,9	-20 / 40	IP55 / F	PTI	

* PTI: Integrated thermal cutout

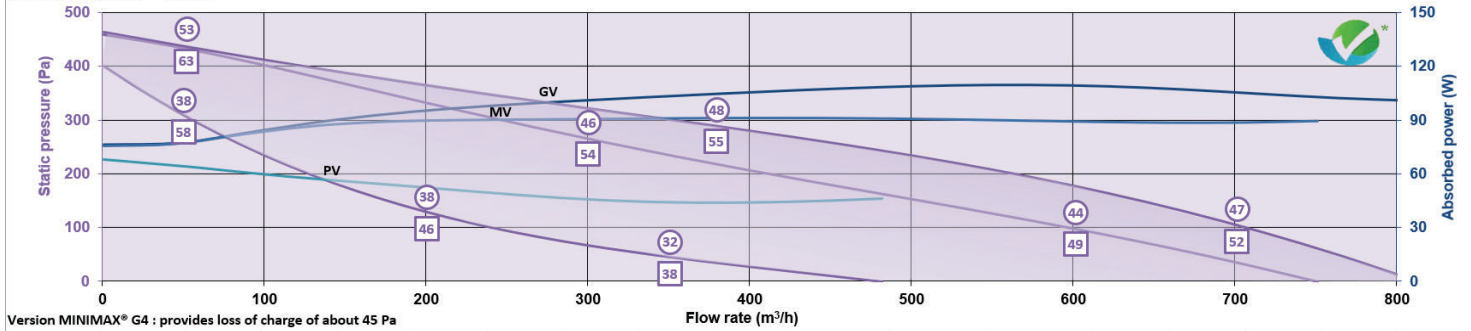
MINIMAX® 125



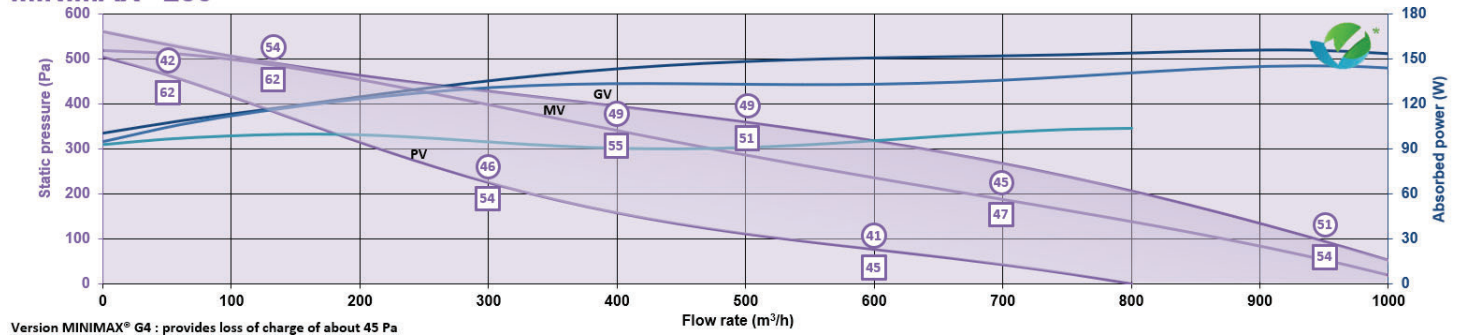
MINIMAX® 160



MINIMAX® 200



MINIMAX® 250



Acoustic characteristics for a PHONIC MINIMAX

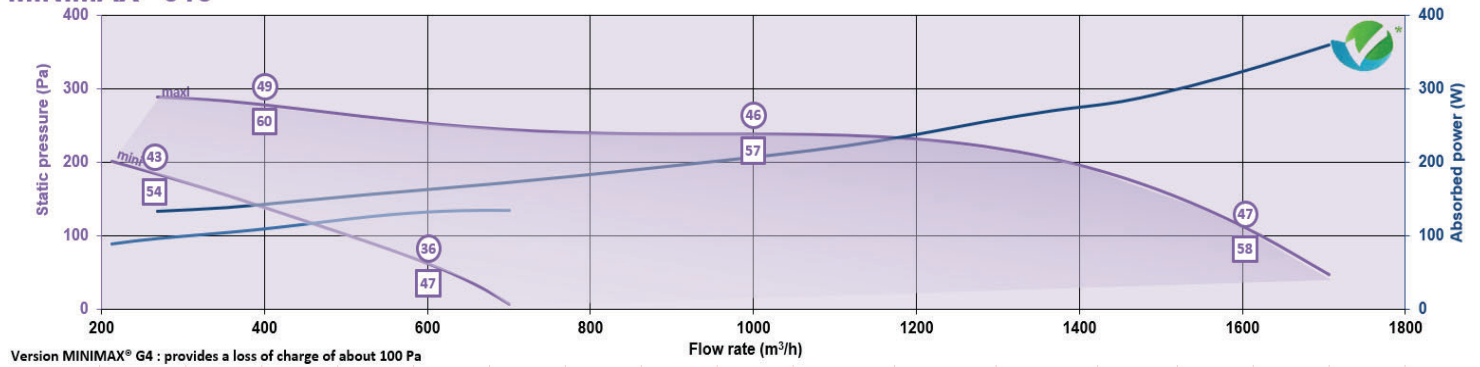


Acoustic pressure level at 4m, in open field, connected aspiration Lp4m (dBA)

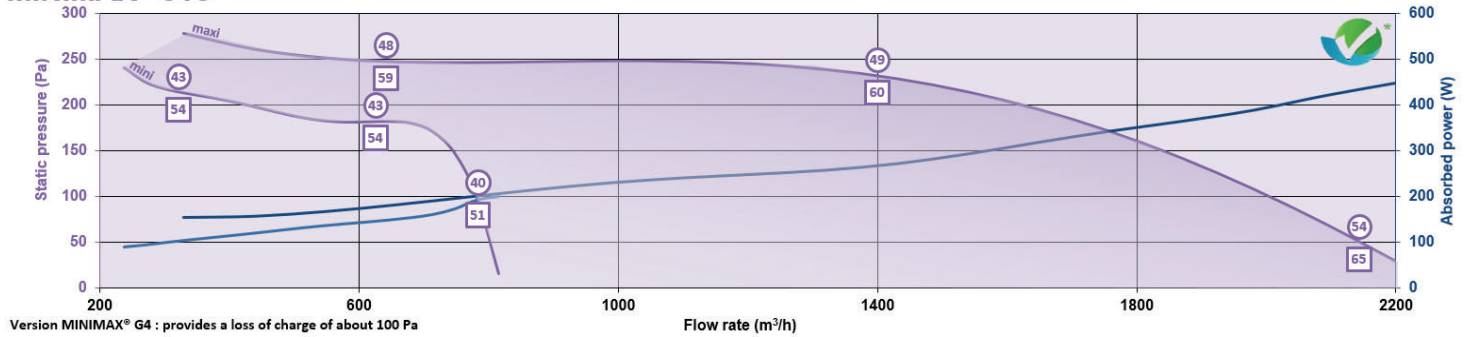


Sound power AHU aspiration LWcond (dBA)

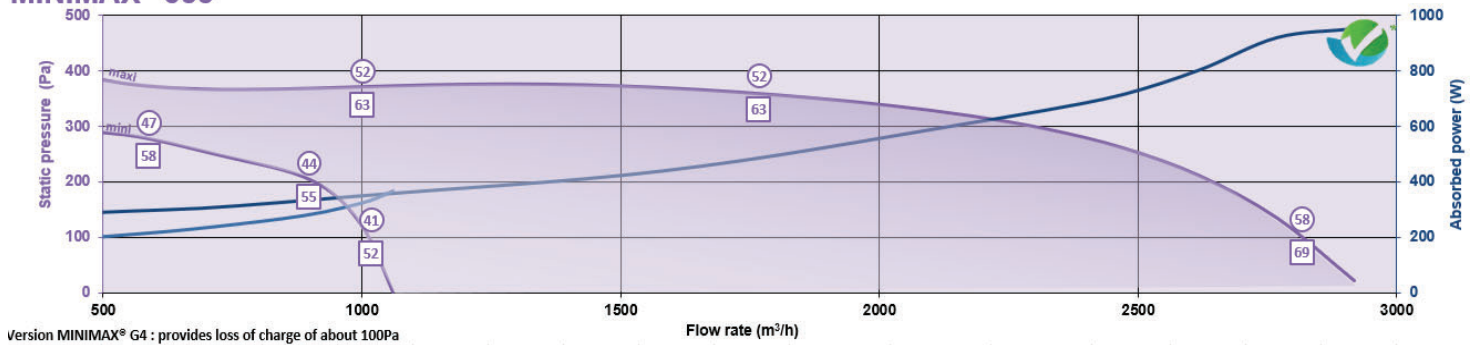
MINIMAX® 315



MINIMAX® 316



MINIMAX® 355



Acoustic characteristics for a PHONIC MINIMAX



Acoustic pressure level at 4m, in open field, connected aspiration Lp4m (dBA)



Sound power AHU aspiration LWcond (dBA)