



# MAXIPLUS®

RANGE

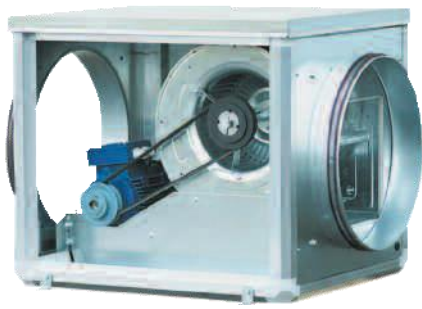
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CMV Office extraction units  
Air flow from 2000 to 17000 m<sup>3</sup>/h



# VENTILATION AHU (AIR HANDLING UNIT) **MAXIPLUS®**

DESCRIPTION



**Belt and pulley transmission**  
air flow from 2000 to 17000 m³/h

### APPLICATION

- Ventilation of premises requiring average and high air flows.
- Can be used for air extraction or blowing. Particularly suited in applications where there are severe dimensional constraints (compact AHU) and acoustic requirements (enhanced sound insulation version).

### RANGE

- Available in 4 sizes and 4 models, the **MAXIPLUS®** range covers air flows from 2000 to 17000 m³/h.

### CONSTRUCTION

- Structure in aluminium profile.
  - Corners in reinforced polyamide.
  - Access to internal components by two removable side panels
  - 10/10ths galvanized steel panels.
  - Grommet for power cable. Nuts crimped into the frame for floor fixing.
- Module fitted as standard with intake and discharge panels with in-line circular connection and double seals.

### MOTOR FAN

- Impulse centrifugal wheel with double opening.
- IP55 class F motor with belt and pulley coupling and PTO thermal cutout.

- Drive pulley can be varied when stopped for motors up to 4kW.
- Motor fan assembly mounted on the same chassis (motor mounted directly on the casing for model 315) motor fixed to the carriage for the other models.

### INSTALLATION

The **MAXIPLUS®** range can be used fixed to the floor or vertically against a wall. Can be used horizontally indoors or outdoors (requires AGC option). Ground/wall fixing brackets as standard.

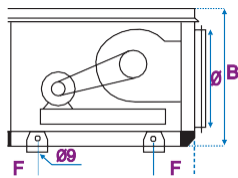
### VARIANT

PHONIC version with very high density rockwool insulation (120 kg/m³).

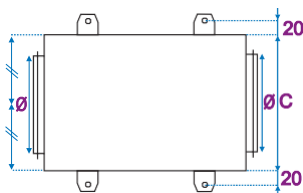
### INSTALLATION AND ELECTRICAL OPTIONS

Numerous options are available.

## DIMENSIONS CHARACTERISTICS **MAXIPLUS®**



MAXIPLUS® model	Dimensions					
	A	B	C	E	Ø	F
mm	mm	mm	mm	mm	mm	mm
450	745	645	645	322	450	80
500	845	745	745	372	500	80
630	970	845	970	422	630	100
800	1045	945	1045	472	800	100



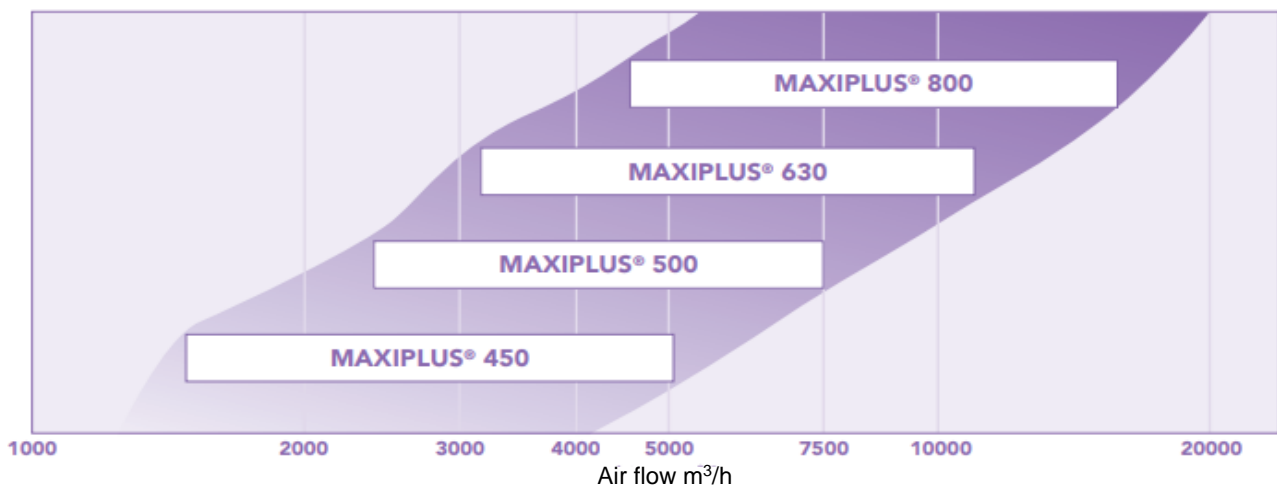
MAXIPLUS®	450	--	E	4
①	②	③	④	⑤

### REFERENCE GIVEN IN THE ORDER

- 1- Belt and pulley transmission extraction AHU .
- 2- Branch connection diameter.
- 3- PHONIC = version with enhanced sound insulation (rockwool 120 kg/m³).
- 4- Motor power.
- 5- 4 = 1 speed 4 poles

MAXIPLUS®	450	--	E	4
①	②	③	④	⑤

## PRESELECTION TABLE **MAXIPLUS®**



The values  $L_{p4m}$  dB (A) (○) shown on the curves correspond to the sound pressure level to 4m in hemispherical free field on a reflective surface, rejection not connected box on a MAXIPLUS® PHONIC.

- The values  $cond L_w$  dB (A) (□) indicated on the curves correspond to the total sound power radiated in the upstream duct of the MAXIPLUS PHONIC®.
- To obtain the spectrum of the sound power level  $L_w cond$  dB (A), upstream side, add the following values to the acoustic power  $Cond L_w$  dB (A) (□) indicated on the curves it is a MAXIPLUS PHONIC or uninsulated MAXIPLUS PHONIC®.

Upstream acoustic spectrum weighting function $cond L_w$ dB (A). Indicated on the curves										
Frequency	63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz	Global	
MAXIPLUS NON ISOLATED 450 dB(A)	-15	-8	-1	2	1	0	-6	-12	7	
MAXIPLUS NON ISOLATED 500 dB(A)	-16	-5	-2	2	1	-1	-7	-14	7	
MAXIPLUS NON ISOLATED 630 dB(A)	-16	-6	-3	4	0	-2	-6	-13	7	
MAXIPLUS NON ISOLATED 800 dB(A)	-15	-7	-3	3	1	-2	-6	-13	7	
MAXIPLUS PHONIC 450 dB(A)	-19	-11	-5	-5	-9	-15	-15	-14	0	
MAXIPLUS PHONIC 500 dB(A)	-20	-8	-5	-5	-9	-16	-15	-16	0	
MAXIPLUS PHONIC 630 dB(A)	-20	-9	-7	-3	-10	-17	-15	-15	0	
MAXIPLUS PHONIC 800 dB(A)	-19	-10	-7	-3	-9	-17	-15	-15	0	

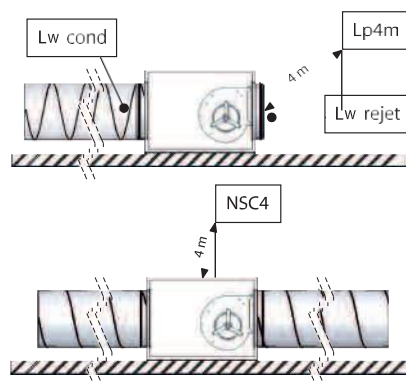
- The overall sound power radiated to the rejection of the box is given by: MAXIPLUS  
 MAXIPLUS® NON ISOLATED :  $L_w rejection$  dB (A) =  $L_{p4m}$  (○) + 22  
 MAXIPLUS® PHONIC :  $L_w rejection$  dB (A) =  $L_{p4m}$  (○) + 20
- For the sound pressure level  $L_p$  dB (A) in a hemispherical free field, at a distance, camera placed on the floor reflecting surface upstream side connected discharge side not connected, add the following values in dB(A)  $L_{p4m}$  (○) indicated on the curves.

Weighting $L_p$ at diverse distances depending on $L_{p4m}$ (○)						
Distance	2 m	3 m	4 m	5 m	7 m	10 m
Weighting distance NON-ISOLATED dB(A)	8	4	2	0	-3	-6
Weighting distance PHONIC dB(A)	6	2	0	-2	-5	-8

**NOTA :**  
 Tolerance Values = overall +/- 3 dB (A)  
 Acoustic spectra +/- 5 dB (A)

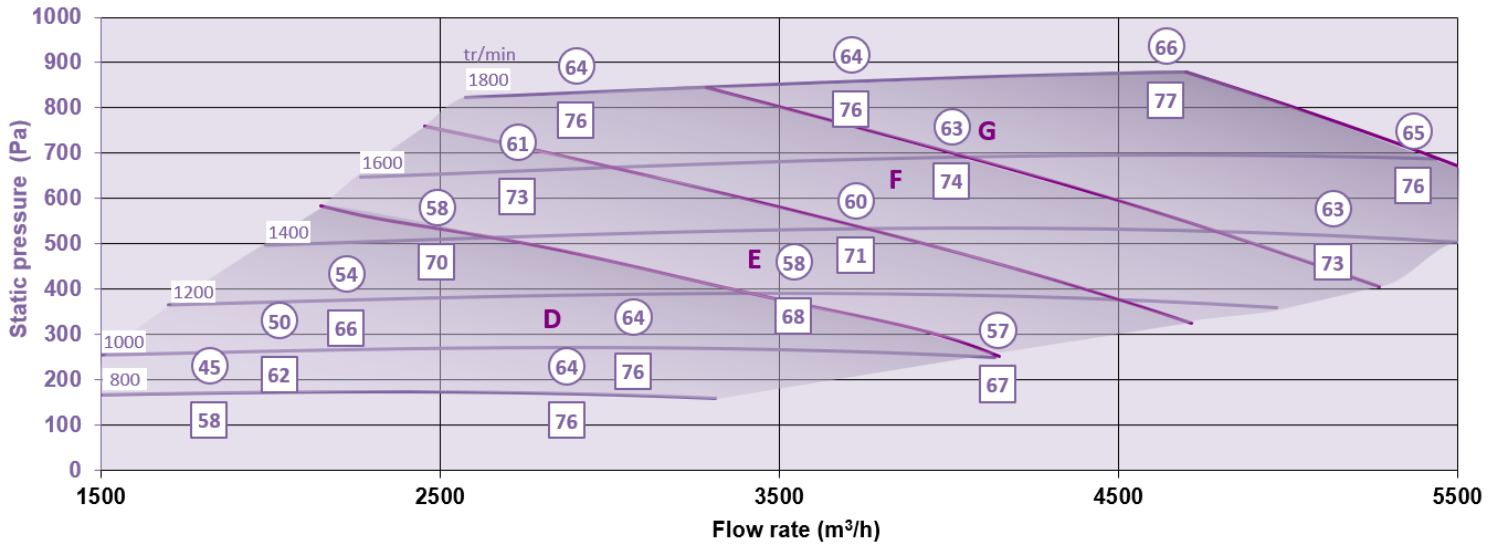
- For the sound level 4 m (NSC4) device connected to the suction and discharge by a sheath as well as the soundproofing box, apply the following weights:  
 MAXIPLUS NON ISOLATED® :  $NSC4$  dB(A) =  $L_{p4m}$  (○) - 9  
 MAXIPLUS® PHONIC :  $NSC4$  dB(A) =  $L_{p4m}$  (○) - 17

MAXIPLUS® model	Motor power (kW)	Weight MAXIPLUS® (kg)	
		NON ISOLATED	PHONIC
450 D	0,75	68	76
450 E	1,10	71	79
450 F	1,50	74	82
450 G	2,20	81	89
500 D	0,75	91	101
500 E	1,10	94	104
630 F	1,50	120	135
630 G	2,20	127	142
630 H	3,00	132	147
800 G	2,20	154	172
800 H	3,00	159	177
800 I	4,00	168	186
800 J	5,50	181	199

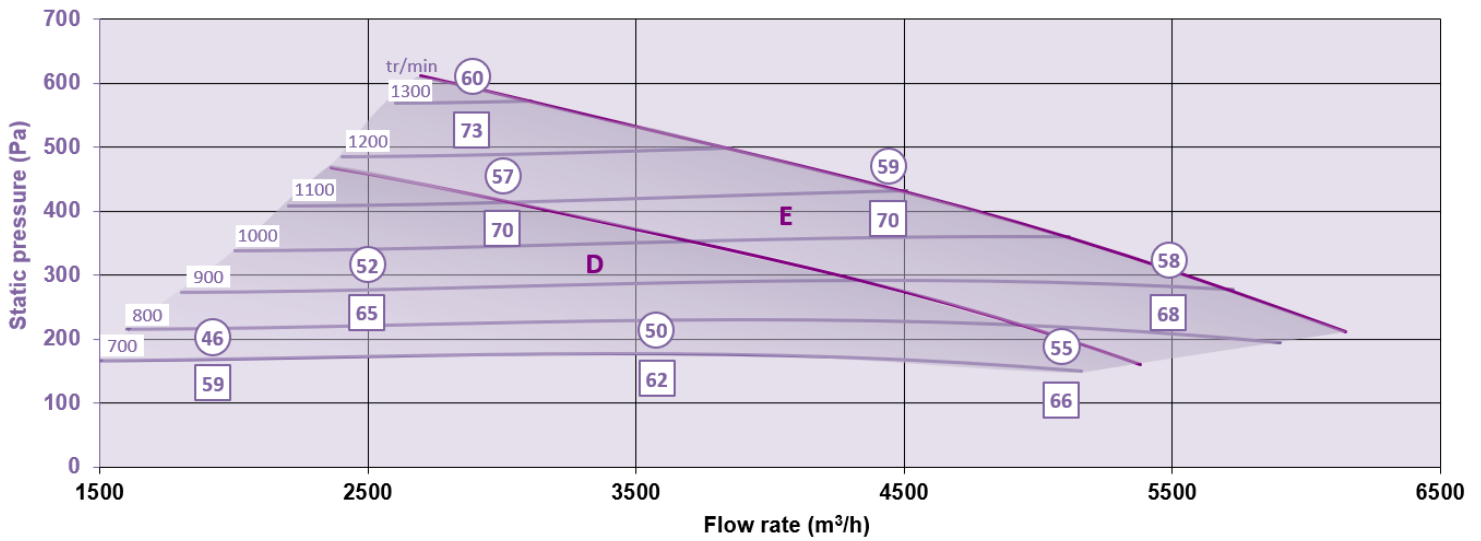




**MAXIPLUS® 450**



**MAXIPLUS® 500**



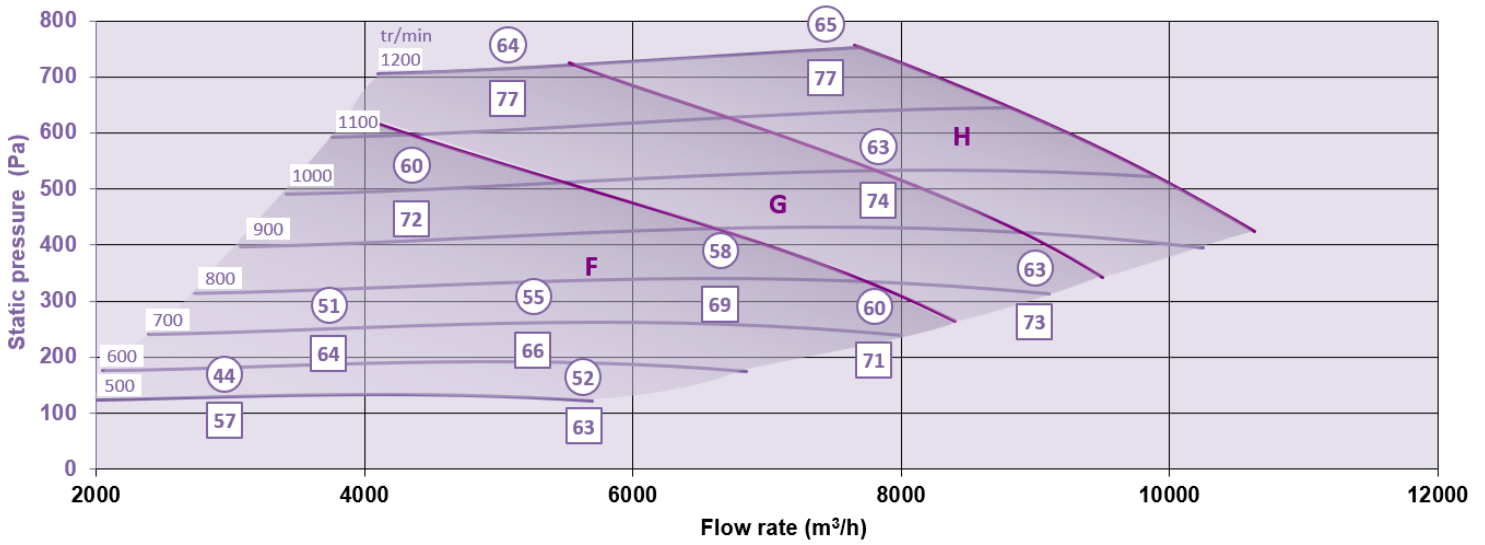
ELECTRIC CHARACTERISTICS **MAXIPLUS®**

Motor type	Motor power (kW)	Voltage (V/phase/Hz)	1 speed motor 4 poles		Frequency variator		Rotation speed <sup>(1)</sup> Tr/mn	
			Protection at 400V (A)	Cos	Alim 230 V exit 400 V	Alim 400 V exit 400 V	Maxiplus® 450	Maxiplus® 500
D4	0,75	230-400/3/50	1,9	0,73	VFM 0,75	VFT 0,75	1010/1370	1130/1530
E4	1,10	230-400/3/50	2,6	0,79	VFM 1,1	VFT 1,1	1170/1530	890/1170
F4	1,50	230-400/3/50	3,4	0,73	VFM 1,5	VFT 1,5	1330/1680	-
G4	2,20	230-400/3/50	4,9	0,79	VFM 2,2	VFT 2,2	1410/1790	-

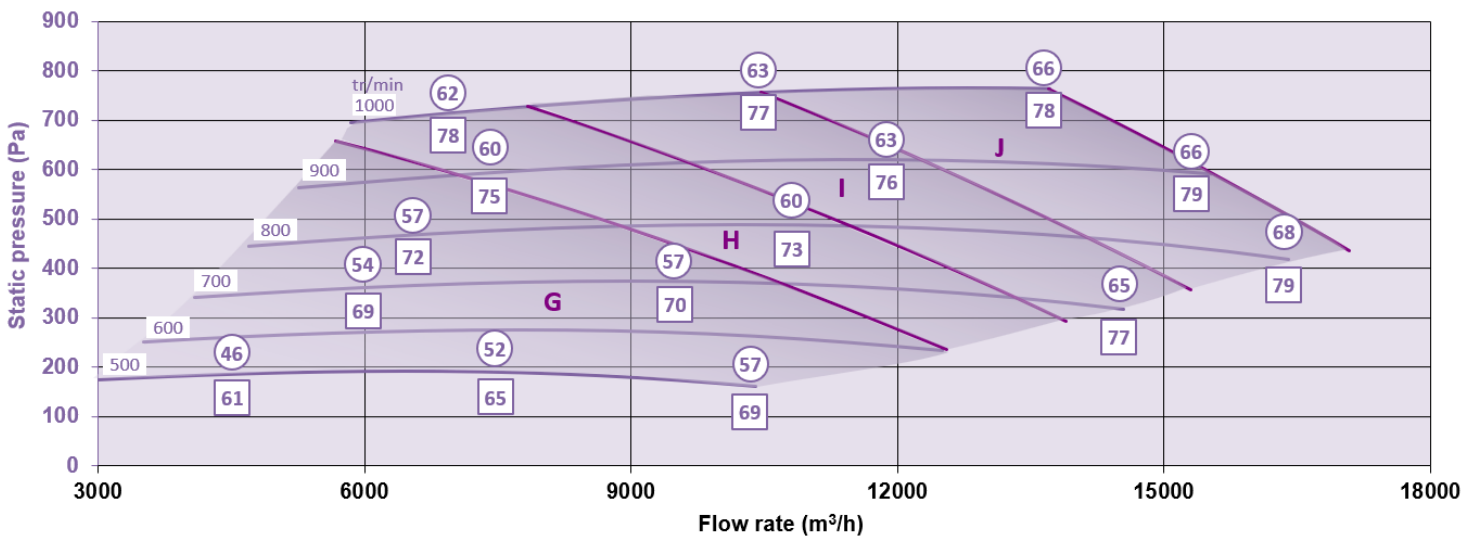
(1) Min./max. rotation speed with standard transmission



### MAXIPLUS® 630



### MAXIPLUS® 800



## ELECTRIC CHARACTERISTICS **MAXIPLUS®**

Motor type	Motor power (kW)	Voltage (V/phase/Hz)	1 speed motor 4 poles		Frequency variator	
			Protection at 400V (A)	Cos	Alim 230 V exit 400 V	Alim 400 V exit 400 V
F4	1,5	230-400/3/50	3,4	0,73	VFM 1K5	-
G4	2,2	230-400/3/50	4,9	0,79	VFM 2K2	VFT 2K2
H4	3,0	230-400/3/50	6,5	0,79	-	VFT 3K0
I4	4,0	230-400/3/50	8,6	0,79	-	VFT 4K0
J4	5,5	230-400/3/50	11,1	0,80	-	VFT 5K5

Rotation speed <sup>(1)</sup> Tr/mn	
Maxiplus® 630	Maxiplus® 800
650/860	-
790/1000	570/720
900/1140	650/820
-	770/960
-	780/980

(2) Min./max. rotation speed with standard transmission



**CHAMFERED DUCT  
TERMINATION WITH MESH  
ref. BBG**

With safety and bird protection mesh for  
MINIMAX® AHU's.



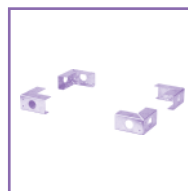
**RAIN COWL ref. AGC**

With safety and bird protection mesh for  
MAXIPLUS® AHU s.



**FLEXIBLE MO SLEEVES  
ref. MTS MO**

Fire classification: M0.  
Diameter: 125 to 800 mm



**SUPPORT FEET ref. PCB  
(set of 4 feet)**

Are used when necessary to replace the sup-  
port brackets supplied with MAXIPLUS® AHU s.



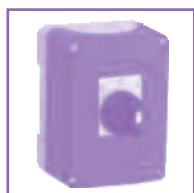
**DIFFERENTIAL PRESSURE  
SWITCH ref. DEP**

(factory-fitted)  
Ventilation fault detection.  
Filter fouling detection.



**PADLOCKABLE SWITCH  
ref. IPC**

(factory wired and fitted)  
Meets safety regulations.  
Standard on MINIMAX®.



**COMFORT CONTROL  
ref. CDC**

For MINIMAX® 125 to 250  
(2 speeds as standard).  
CDC 2V2: STOP/LS-HS positions  
CDC PVGV: LS and HS positions



**SPEED CONTROLLER**

Regulates fan speed by varying the power  
supply frequency.  
**ref. VFM:** power supply 230 V single phase /  
output 230 V three-phase.  
**ref. VFT:** power supply 400 V three-phase /  
output 400 V three-phase.  
Option of remote potentiometer.



**2-SPEED CONTROL BOX  
ref. CDA**

**ref. CDA:** DAHLANDER coupling  
Controls and protects two-speed motors.



**AUTOTRANSFORMER  
SPEED CONTROLLER  
ref. VATM**

Adjusts the fan speed through a 5-position  
manual selector (230V SINGLE-PHASE ONLY)



**ELECTRONIC SPEED  
CONTROLLER ref. REG**

Manual adjustment of fan speed by integrated  
or remote potentiometer (230V single-phase  
only).



**LOBBY® SELF-REGULATING  
CONSTANT PRESSURE AHU**

Adapts the fan rotation speed instantaneously  
to the requirements of the installation. Energy  
consumption from 30 to 60% and a reduction  
of sound levels radiated by the system.