

AGH

AXIAL FLOW WALL EXTRACT UNIT

- Mechanical extract ventilator
- Horizontal, wall installation
- Automatic weather shutters

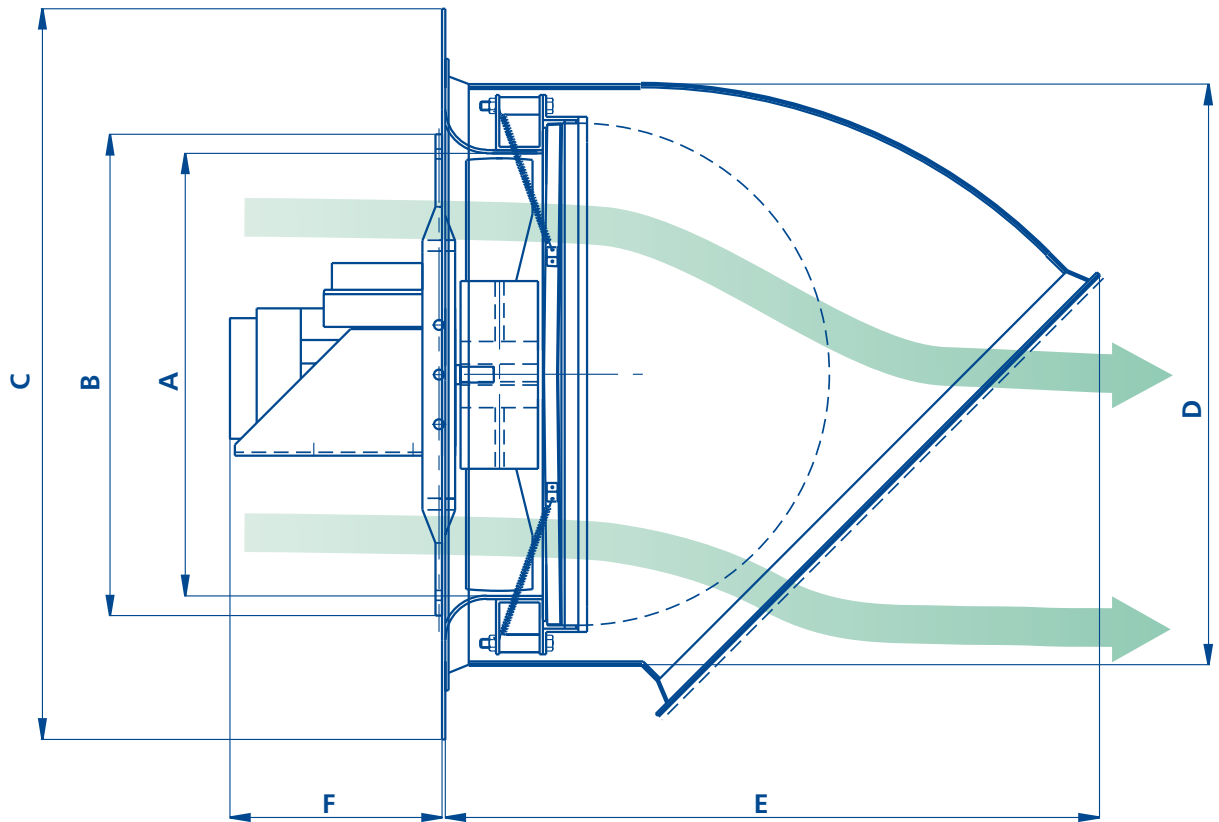


Bovema 
Konstrukties B.V.

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TECHNICAL SPECIFICATION

Sectional elevation



Type	A	B	C	D	E	F
400-4	400	450	650	550	680	210
400-6	400	450	650	550	680	210
450-4	450	480	650	550	680	235
450-6	450	480	650	550	680	210
500-4	500	550	750	650	750	235
500-6	500	550	750	650	750	210

Figures in mm

560-4 560 580
 750 700 785 235
 560-6 560



AGH MECHANICAL WALL VENTILATOR

Motor 400 V-A/C-3Ph-50 Hz

Motor 230 V-A/C-1Ph-50 Hz

Type	kW	A	RPM	kW	A	RPM	dB(A)	kg
400-4	0.25	0.83	1400	0.25	2.1	1380	60	25
400-6	0.25	0.92	920	0.25	2.2	910	50	25
450-4	0.55	1.45	1420	0.55	3.9	1400	61	28
450-6	0.25	0.92	920	0.25	2.2	910	51	28
500-4	0.55	1.45	1420	0.55	3.9	1400	63	35
500-6	0.25	0.92	920	0.25	2.2	910	54	35
560-4	0.75	1.90	1420	0.75	5.2	1400	68	48
560-6	0.25	0.92	920	0.25	2.2	910	58	45
630-4	1.50	3.45	1420	on request			72	55
630-6	0.55	1.78	930	on request			60	50
710-4	2.20	4.80	1430	on request			74	70
710-4s	3.00	6.48	1430	on request			80	73
710-6	0.75	2.36	930	on request			68	68

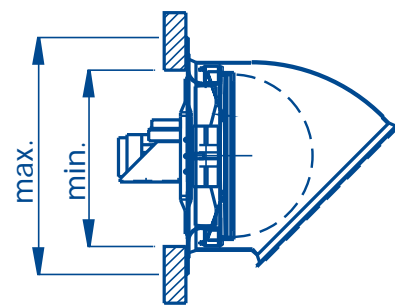
dB(A) at 4 m. (free field)

Two speed motor 400 V A/C-3Ph 50Hz

Type	kW	Amp	RPM	Winding
400-4/6	0.30/0.10	0.90/0.56	1400/950	separated
400-4/8	0.37/0.09	1.20/0.49	1390/680	Dahlander
450-4/6	0.45/0.15	1.30/0.73	1400/960	separated
450-4/8	0.55/0.11	1.60/0.54	1380/700	Dahlander
500-4/6	0.45/0.15	1.30/0.73	1400/960	separated
500-4/8	0.55/0.11	1.60/0.54	1380/700	Dahlander
560-4/6	0.65/0.22	1.70/0.94	1400/960	separated
560-4/8	0.75/0.16	2.00/0.70	1390/700	Dahlander
630-4/6	1.50/0.45	3.50/1.60	1400/940	separated
630-4/8	1.50/0.31	3.70/1.50	1420/710	Dahlander
710-4/6	2.00/0.60	4.50/2.00	1430/960	separated

Size of flange
Wall opening (mm) ∇

Type	min.	max.
400	450	700
450	480	700
500	550	800
560	580	800
630	680	900
710	750	1200



Air capacity in m³/hr, at system resistance in Pa

Type	0	10	20	30	40	60	80	100
400-4	4800	4700	4600	4475	4350	4100	3850	3550
400-6	3000	2850	2650	2450	2200	-	-	-
450-4	6750	6650	6500	6400	6250	6000	5700	5350
450-6	4300	4100	3900	3700	3450	3200	-	-
500-4	9000	8750	8550	8450	8300	8000	7700	7250
500-6	5800	5450	5250	5050	4700	3950	-	-
560-4	12200	12000	11750	11500	11300	11000	10750	10400
560-6	7650	7500	7200	7000	6750	5850	4600	-
630-4	17100	16900	16700	16500	16250	15850	15300	14850
630-6	11000	10700	10300	10000	9650	8750	7650	-
710-4	21800	21500	21300	21050	20850	20400	19800	19450
710-4s	25350	25100	24950	24500	24300	23700	23150	22650
710-6	14000	13650	13300	12850	12550	11700	10500	9300

General information

DESCRIPTION

The **Bovema** AGH ventilator is an aluminium wall extract unit, with an axial flow fan, designed to remove large volumes of air with low energy consumption. It is particularly suitable for the exhaust of free air from large buildings, and has low system resistance. The aerodynamic aluminium wall cowl prevents water penetration even when the fan is not operating, and the internal airflow shutter provides further weather protection to prevent air losses when closed. The lightweight aluminium construction is suitable for installation into all types of wall construction and various types of vertical glazing systems. The AGH ventilator is manufactured to NEN-EN-ISO 9002 quality control standards, from high quality corrosion resistant aluminium, for long life and low maintenance.

OPERATING PRINCIPLES

The electric motor is directly connected to the fan shaft to minimise transmission losses, and the fan extracts the air, which is discharged via the horizontal cowl. This air cools the fan motor. Where fitted the optional non-return shutters close when the fan stops, to cover the opening and prevent air losses through the ventilator, in winter or at other times when ventilation is not required. The external screen prevents birds or rubbish from entering the ventilator. The AGH ventilator is suitable for continuous operation.

DESIGN

Standard:

- Full welded aluminium wall frame and flange for installation into structural openings, curtain wall or glazed walling systems.
- Aluminium cased motor to IP55 rating and class F insulation
- Aluminium axial flow fan, with adjustable blade angles
- Aluminium wall cowl.
- Motor with frequency speed control
- Stainless steel bird guard

Options:

- Motor protection for 100% Relative Humidity (Moisture proof)
- Explosion proof motor
- Polypropylene fan
- Motor rated at 300 °C / 30 min for smoke extract
- Motor for non-standard voltages
- Spring operated non-return shutter
- Electro-magnetic damper lock
- Local isolation switch

CAPACITY

1800 m³/hr up to 25000 m³/hr (0.5 m³/s to 6.9 m³/s)

MATERIALS

Installation flange and fan housing	Aluminium Al99.5 / 1S HH alloy
Wall hood	Aluminium Al99.5 / 1S alloy
Electric motor casing	Cast aluminium
Fan	Cast aluminium (fully balanced)
Non-return shutter	Aluminium AlMg3 alloy
Motor connection brackets	Stainless steel
Bird screen	Stainless steel

GENERAL

The AGH mechanical extract fan unit is supplied fully assembled and is tested before despatch. As standard the unit is manufactured in natural mill finished aluminium but can be polyester powder paint finished, to any RAL colour, selected from the Bovema standard colour range.

SERVICE

The Bovema group offers a comprehensive service covering the specification and installation of our products.

