

ARUMAK EEC



COUNTER FLOW HEAT RECOVERY WITH EC MOTOR

MANUFACTURING FEATURES

Medium efficiency heat recovery unit (Eff. 80%) with electronic control and EC motor for optimized management. Counter flow heat exchanger, Eurovent certified. Set in insulated steel boxes with sandwich polyurethane foam panels. With total bypass and regulation control CTRL-DPH (see options in control panel), with COP and CAV modes. Configuration options: without heating, with electric or water coil (hot) integrated in the unit. With F7/F7 or F7+F9/F7 filters. Versions for vertical and horizontal installation.

CHASSIS:

- Modular structure made of extruded aluminium profiles and double skin Aluzinc.
- Made up of sandwich panels with injected polyurethane foam insulation, thickness 25 mm and density 42 kg/m3.

HEAT EXCHANGER:

- Aluminium counter flow heat exchanger with 80% efficiency.
- Eurovent certified.

FANS:

- PLUG FAN Probat EEC by Casals, ErP compliant.

FILTERS:

- F/F7 or F7+F9/F7 filters.

CONTROL:

- CTRL-DPH: manages bypass automatically, manual or automatic speed control by choosing constant flow (CAV), variable flow rate (VAV) and constant pressure (COP). It is necessary to install kit COP, VAV or CO2 sensor. Temperature regulation, errors detection, time scheduling, etc.
- CAV- CONSTANT FLOW
- COP- CONSTANT PRESSURE
- VAV - VARIABLE AIR FLOW (CO2 sensor)

APPLICATIONS

- Shopping centers, small shops, banks, hospitality, schools, office buildings, public buildings.

UNDER REQUEST

- Without control.
- Manual bypass.
- Cold water coil.
- CTRL-MAX2 with Modbus RTU protocol.
- F9/F7 filters.
- Kit COP+CAV and VAV.

CONFIGURATIONS

- Other special configurations under request

[See maintenance video](#)

Accessories



CWC

DCO2

FILTRO
S
RECUPE
RADOR
ES

GEC



HWC

SCO2

TEJ
ARUMAK

VISC

Technical data

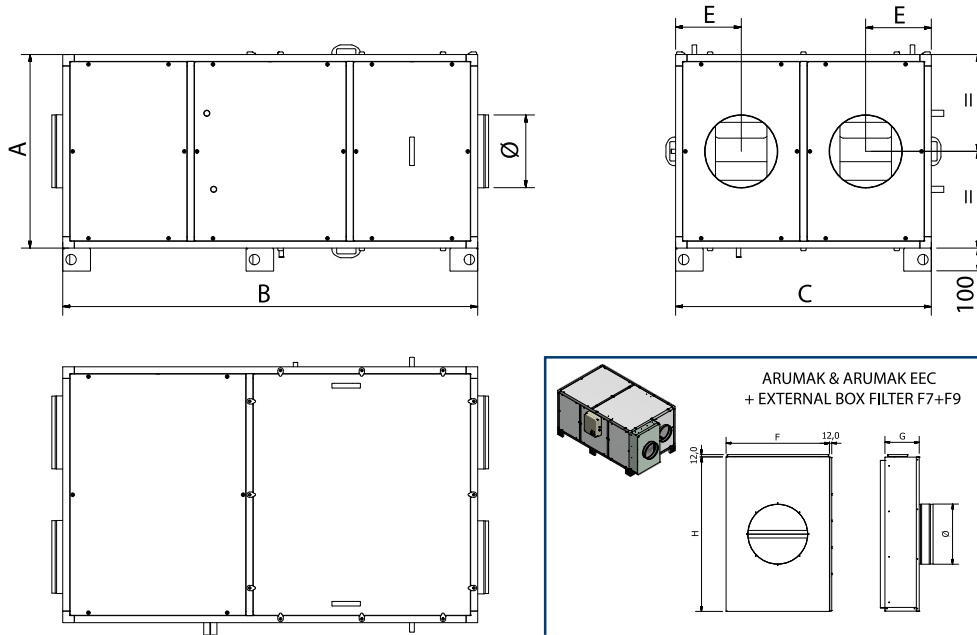
Single-phase motor

Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m ³ /h	Sound db (A)**	Weight	Connect. diagram
-	ARUMAK 430 EEC H	3200	2x0,8	0.083x2	430	38	98	1
-	ARUMAK 430 EEC V	3200	2x0,8	0.083x2	430	38	98	1
-	ARUMAK 800 EEC H	2860	2x1,4	0.17x2	800	41	114	1
-	ARUMAK 800 EEC V	2860	2x1,4	0.17x2	800	41	114	1
-	ARUMAK 2000 EEC H	3000	2x2,8	0.448x2	2.000	46	273	1
-	ARUMAK 2000 EEC V	3000	2x2,8	0.448x2	2.000	46	273	1
-	ARUMAK 2600 EEC H	2800	2x3,1	0.715x2	2.600	46	351	2
-	ARUMAK 2600 EEC V	2800	2x3,1	0.715x2	2.600	46	351	2

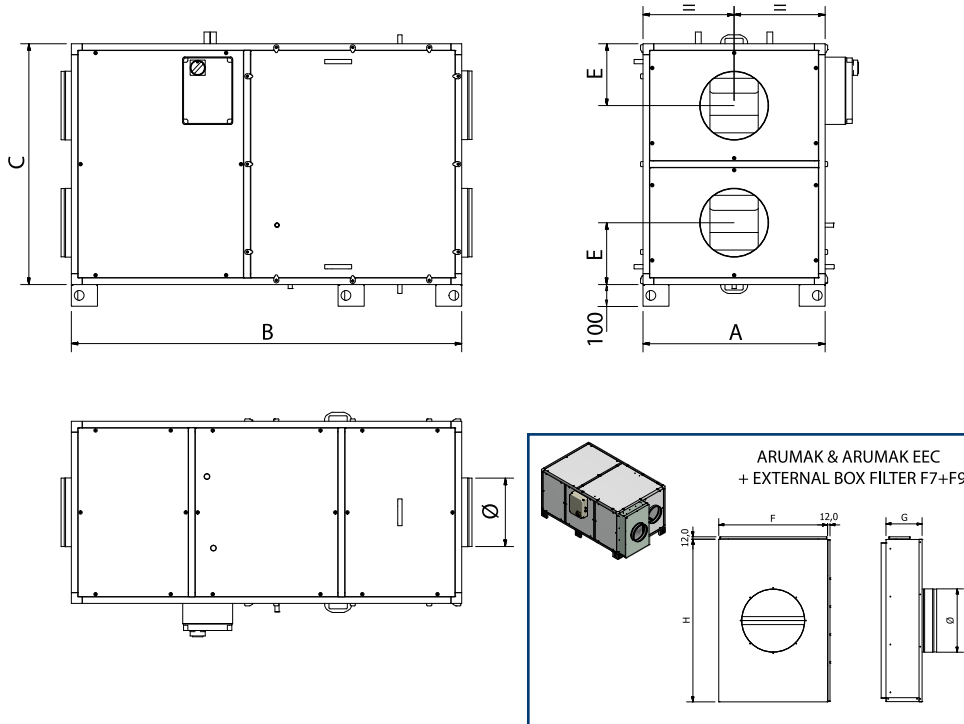
Notes:

** Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

Dimensions



Model	A	B	C	E	F	G	H	Ø
ARUMAK 430 EEC H	450	1420	900	232	405	160	390	200
ARUMAK 800 EEC H	550	1420	900	232	405	160	490	250
ARUMAK 2000 EEC H	840	1800	1100	385	545	180	815	315
ARUMAK 2600 EEC H	1050	2180	1340	342	660	180	1025	400



Model	A	B	C	E	F	G	H	Ø
ARUMAK 430 EEC V	450	1420	900	232	405	160	390	200
ARUMAK 800 EEC V	550	1420	900	232	405	160	490	250
ARUMAK 2000 EEC V	840	1800	1100	285	545	180	815	315
ARUMAK 2600 EEC V	1050	2180	1340	342	660	180	1025	400

Wiring diagram

DIAGRAM N° 1

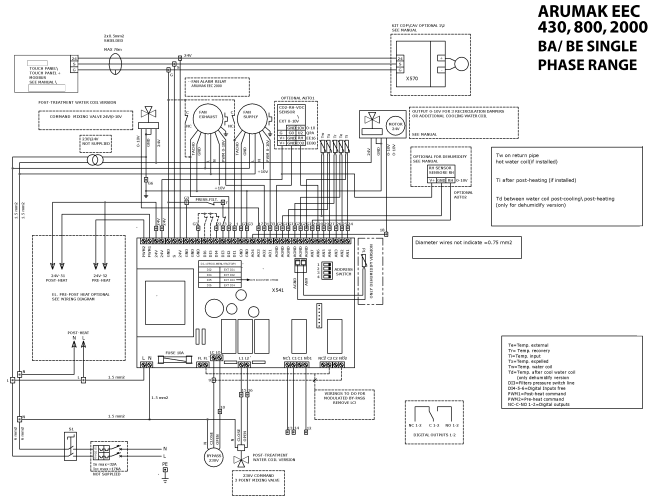
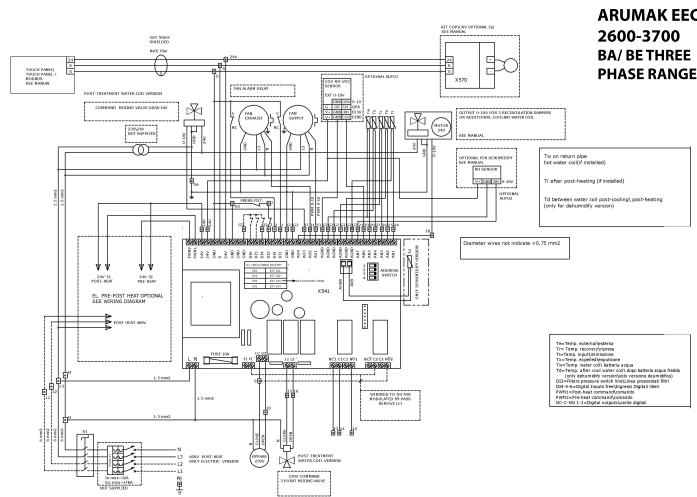


DIAGRAM N° 2

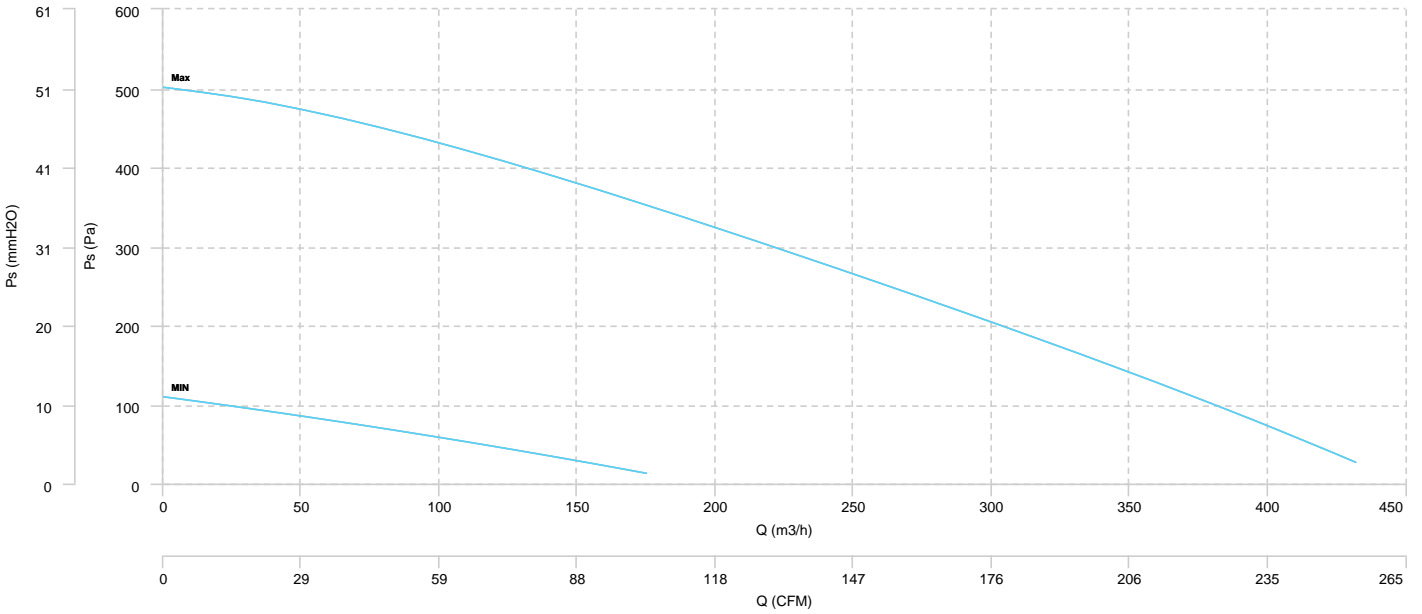


CHARACTERISCTIC CURVE

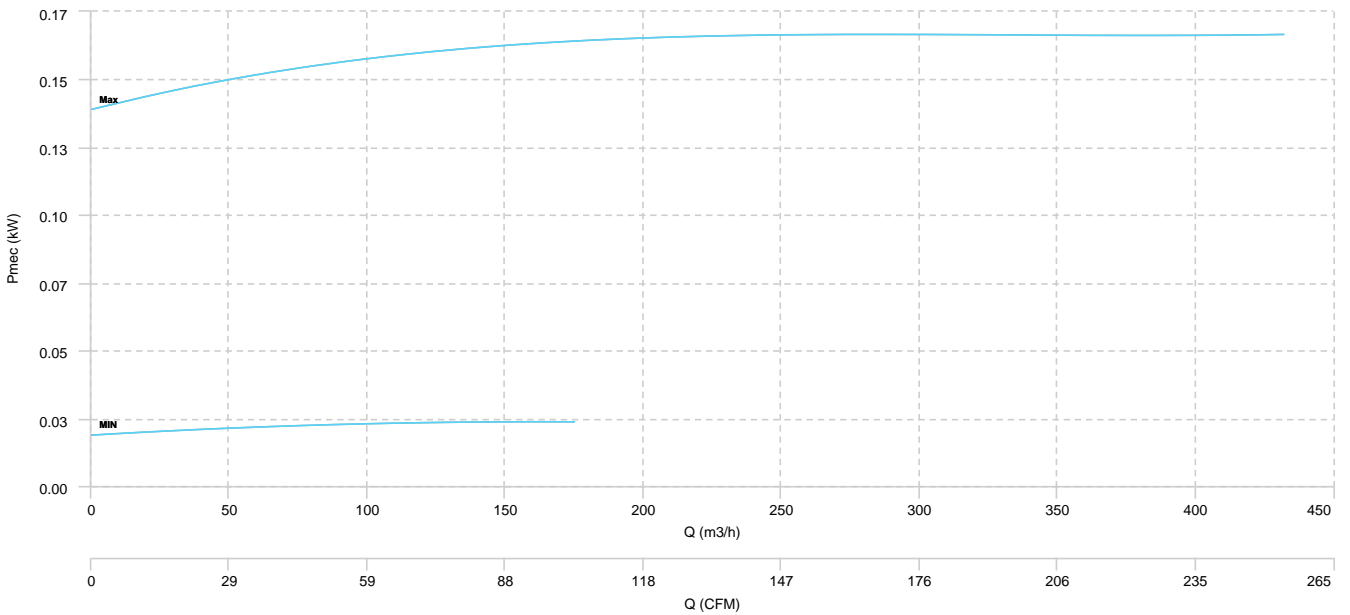
ARUMAK 430 EEC H

ARUMAK 430 EEC V

AIR FLOW - PRESSURE



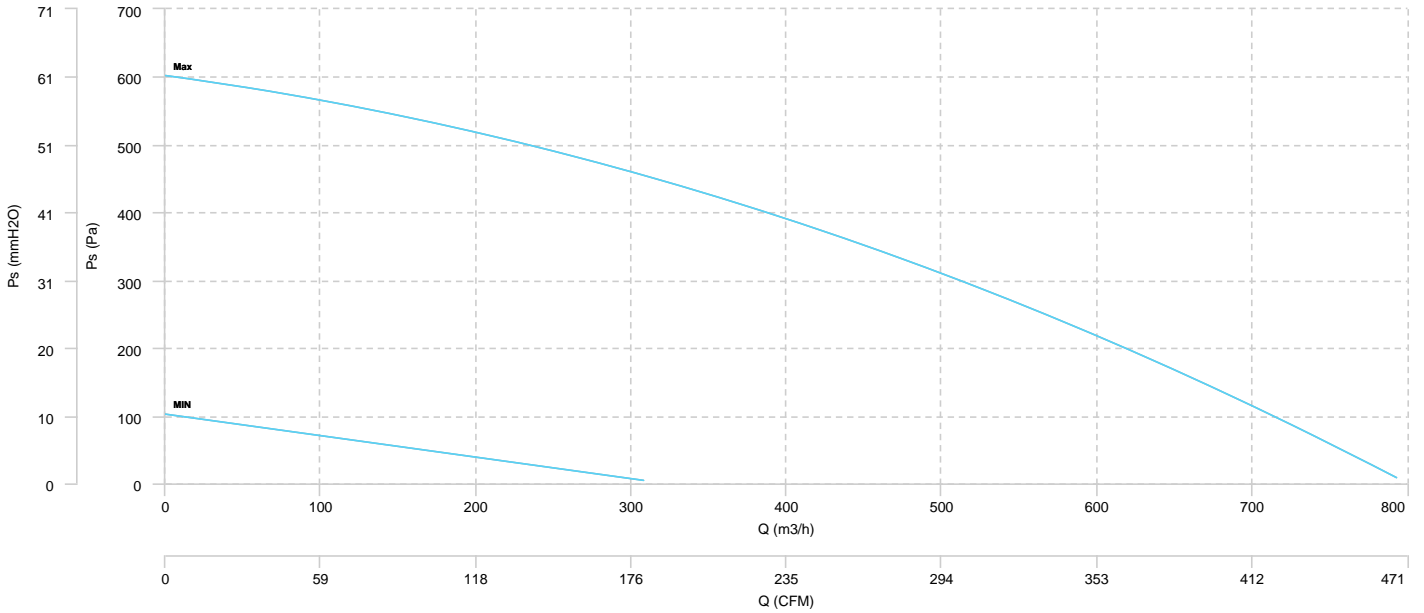
AIR FLOW - MECHANICAL POWER



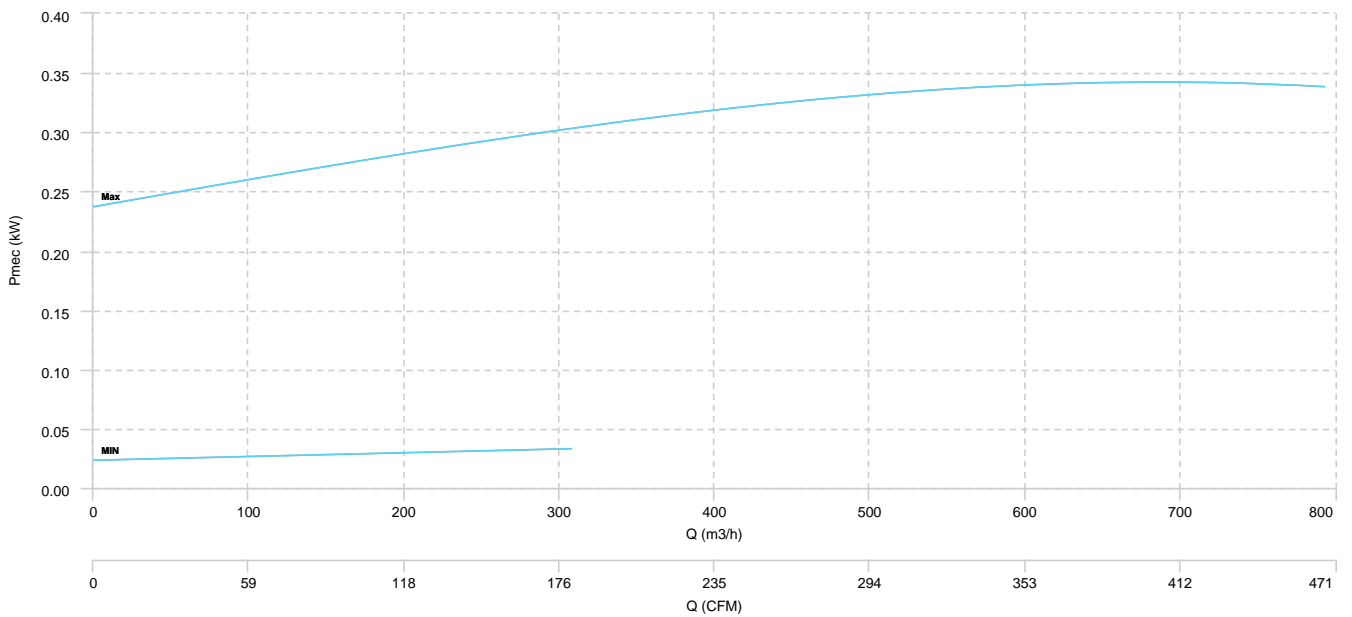
ARUMAK 800 EEC H

ARUMAK 800 EEC V

AIR FLOW - PRESSURE



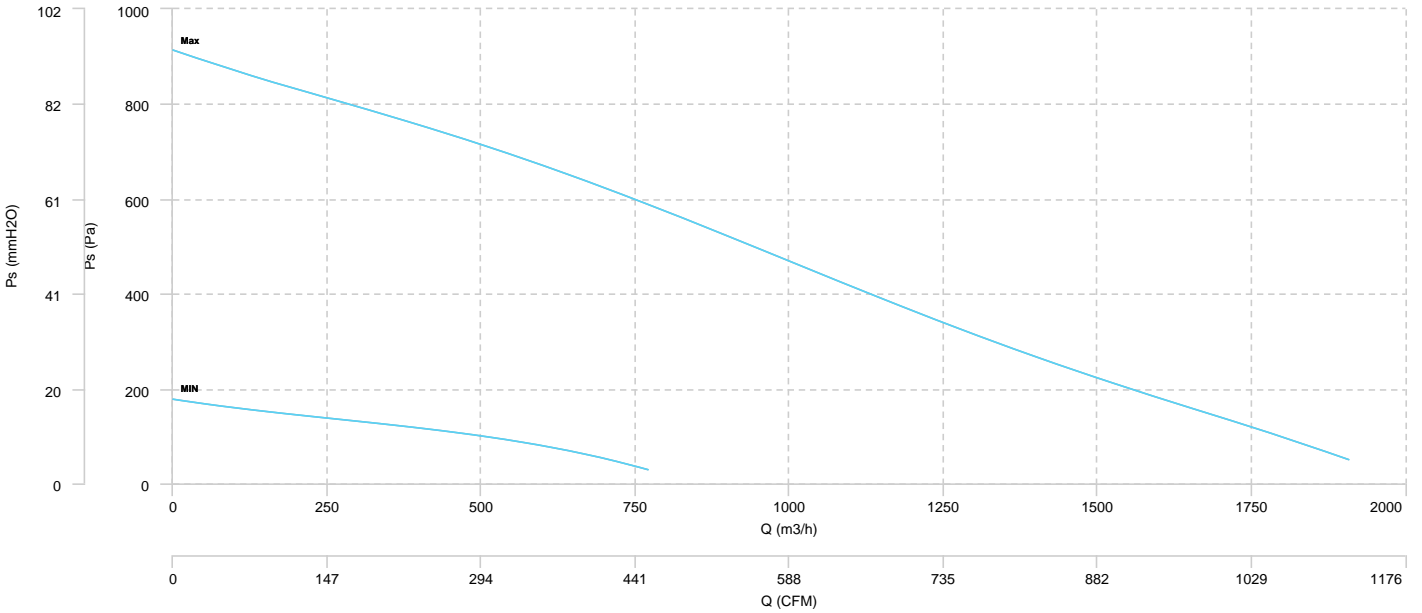
AIR FLOW - MECHANICAL POWER



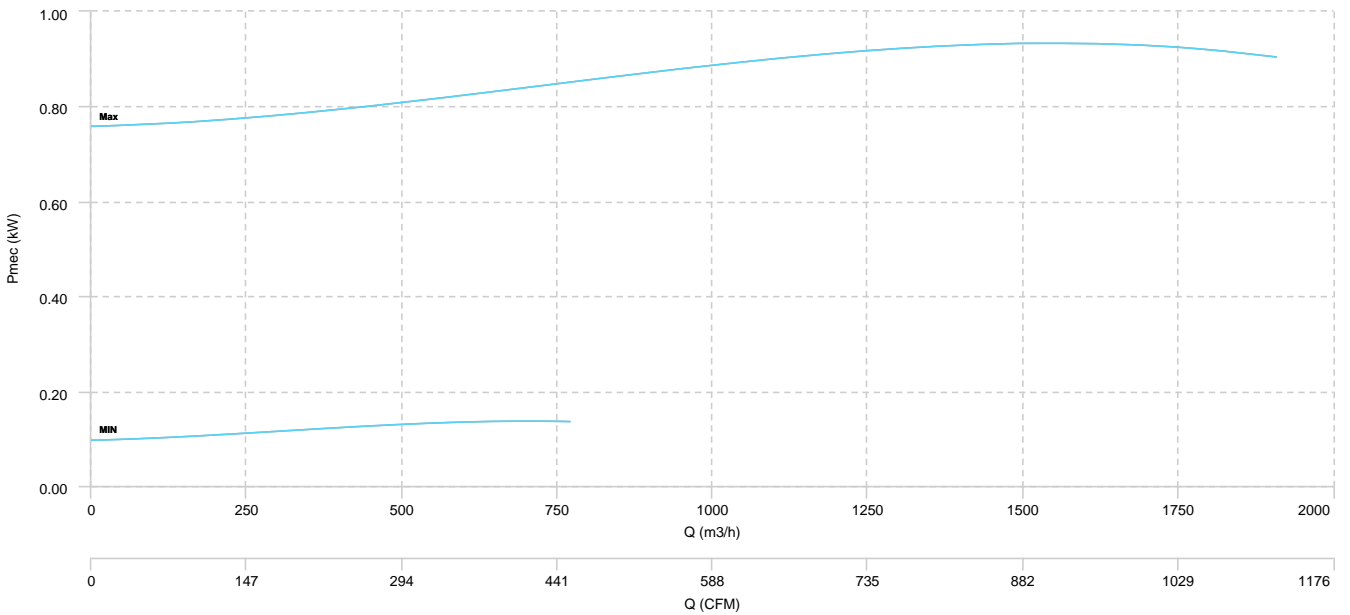
ARUMAK 2000 EEC H

ARUMAK 2000 EEC V

AIR FLOW - PRESSURE



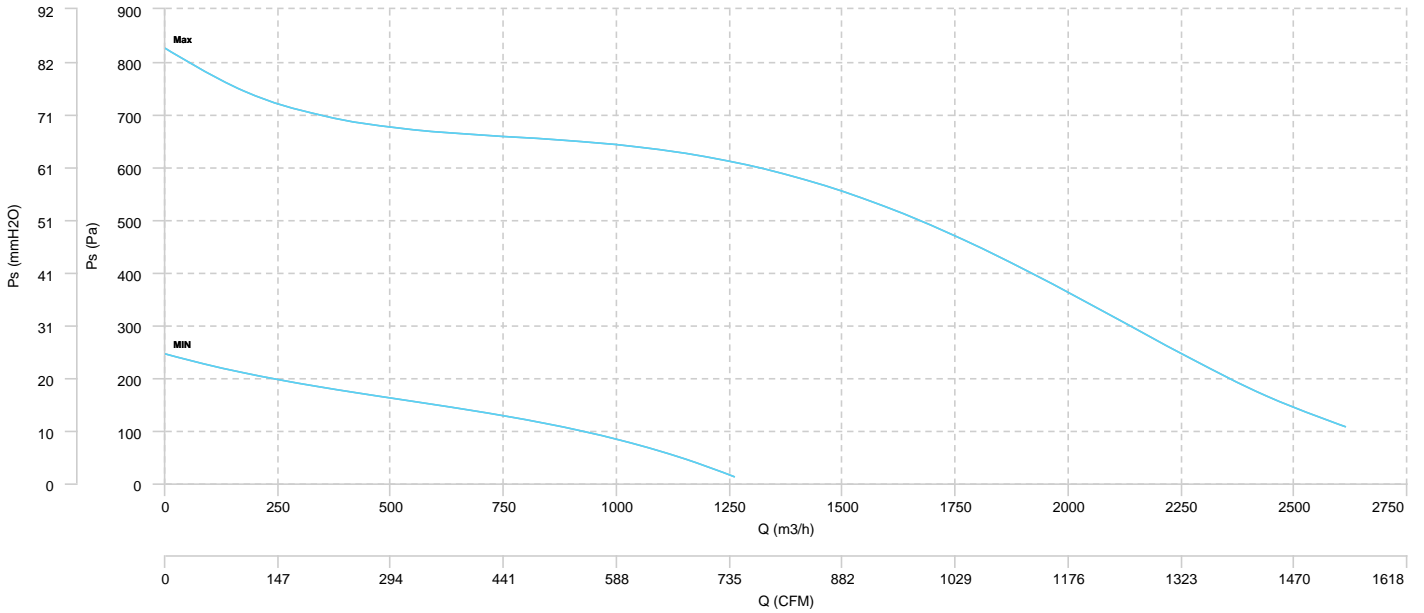
AIR FLOW - MECHANICAL POWER



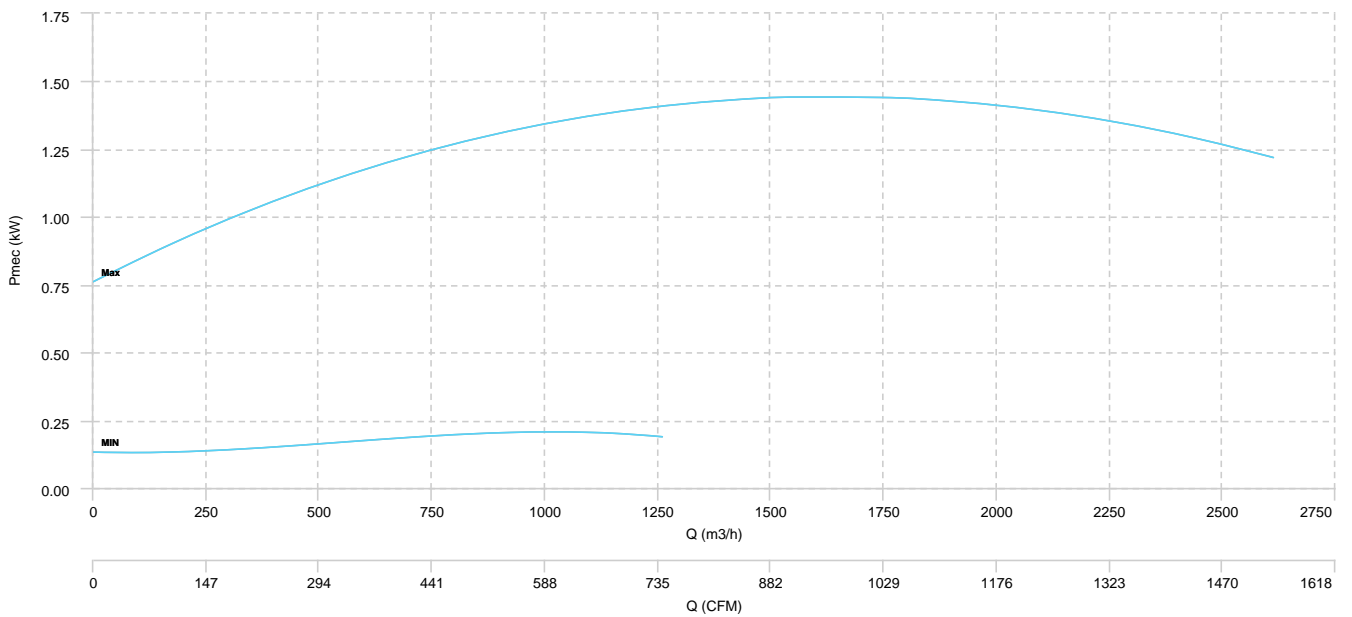
ARUMAK 2600 EEC H

ARUMAK 2600 EEC V

AIR FLOW - PRESSURE



AIR FLOW - MECHANICAL POWER



Sound data

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
ARUMAK 430 EEC H	Inlet	-	64	70	61	53	44	38	38	64
	Radiated	-	68	70	65	55	58	58	65	69
ARUMAK 430 EEC V	Inlet	-	64	70	61	53	44	38	38	64
	Radiated	-	68	70	65	55	58	58	65	69
ARUMAK 800 EEC H	Inlet	-	69	72	64	62	52	46	44	67
	Radiated	-	66	80	62	60	74	54	69	77
ARUMAK 800 EEC V	Inlet	-	69	72	64	62	52	46	44	67
	Radiated	-	66	80	62	60	74	54	69	77
ARUMAK 2000 EEC H	Inlet	-	75	78	70	65	56	51	49	72
	Radiated	-	77	84	74	82	75	70	76	85
ARUMAK 2000 EEC V	Inlet	-	75	78	70	65	56	51	49	72
	Radiated	-	77	84	74	82	75	70	76	85
ARUMAK 2600 EEC H	Inlet	-	71	76	67	67	60	54	53	72
	Radiated	-	79	81	80	81	78	71	79	86
ARUMAK 2600 EEC V	Inlet	-	71	76	67	67	60	54	53	72
	Radiated	-	79	81	80	81	78	71	79	86

erp data

ERP

Fan type	Unit for non-residential ventilation (LOT 6)
Typology	Bidirectional
Others	Filter and heat recovery
Type of driver	None

Maximum efficiency point data

Model	Motor power (kW)	Eff.Heat recovery (%)	Max. efficiency (%)	Pabs (kW)	Air Flow (m3/h)	Ps (Pa)	Speed (m/s)	SFP (W/m3/s)
ARUMAK 430 EEC H	0.083x2	79,30	100	0,17	380,50	100	3.36	818,00
ARUMAK 430 EEC V	0.083x2	79,30	100	0,17	380,50	100	3.36	818,00
ARUMAK 800 EEC H	0.17x2	77	100	0,34	708,10	100	4.01	889,00
ARUMAK 800 EEC V	0.17x2	77	100	0,34	708,10	100	4.01	889,00
ARUMAK 2000 EEC H	0.448x2	78,80	100	0,91	1.223	350	4.36	1.216,00
ARUMAK 2000 EEC V	0.448x2	78,80	100	0,91	1.223	350	4.36	1.216,00
ARUMAK 2600 EEC H	0.715x2	81,90	100	1,42	2.026	350	4.48	1.022,00
ARUMAK 2600 EEC V	0.715x2	81,90	100	1,42	2.026	350	4.48	1.022,00