

## ARUMAK LP EEC



### LOW PROFILE COUNTER FLOW HEAT EXCHANGER WITH EC MOTOR

#### MANUFACTURING FEATURES

Medium-high efficiency heat recovery unit (Eff.79%). Low profile with electronic regulation and EC motor for an optimized management. Counter flow heat exchanger, Eurovent certified. Set in insulated steel boxes with sandwich polyurethane foam panels. With partial bypass and regulation control CTRL-F and CTRL-DPH (see options in control panel). With F7/F7 or F7+F9/F7 filters. Versions for horizontal installation and false ceiling.

#### 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 79% efficiency.
- Eurovent certified.

#### FANS:

- Direct motor centrifugal fans coupled with double suction. According to ErP 2018.

#### FILTERS:

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

#### CONTROL:

- CTRL-F: 4 speeds, ON / OFF bypass, 3 temperatures and indication of filter failure.
- CTRL-DPH: manages bypass automatically, manual or automatic speed control by choosing constant flow (CAV), variable flow rate (VAV) and constant pressure (COP). 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.
- CTRL-MAX2 with Modbus RTU protocol.
- F9/F7 filters.
- Kit COP+CAV and VAV.

#### CONFIGURATIONS

- Other special configurations under request

[See maintenance video](#)

### Accessories





## Technical data

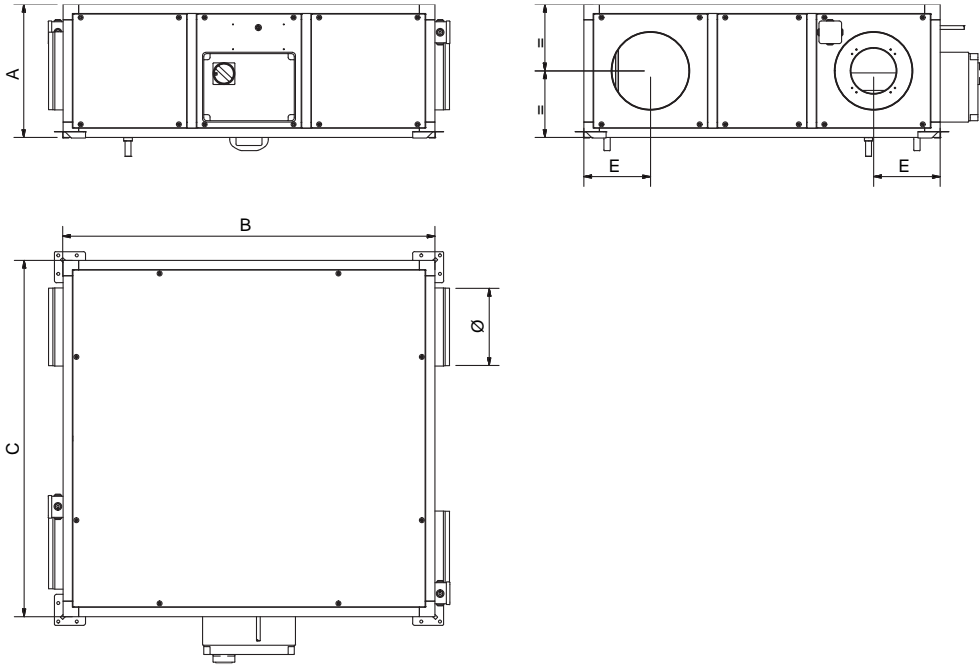
### Single-phase motor

Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m3/h	Sound db (A)**	Weight	Connect. diagram
-	ARUMAK LP 425 EEC	3200	2x0,8	0.083x2	425	-	73	1
-	ARUMAK LP 900 EEC	2860	2x1,4	0.17x2	920	-	90	1
-	ARUMAK LP 1800 EEC	3000	2x2,8	0.448x2	1.850	-	147	1
-	ARUMAK LP 2700 EEC	2800	2x3,1	0.715x2	2.650	-	261	1
-	ARUMAK LP 4000 EEC	2850	2x5,6	1.27x2	4.050	-	284	1

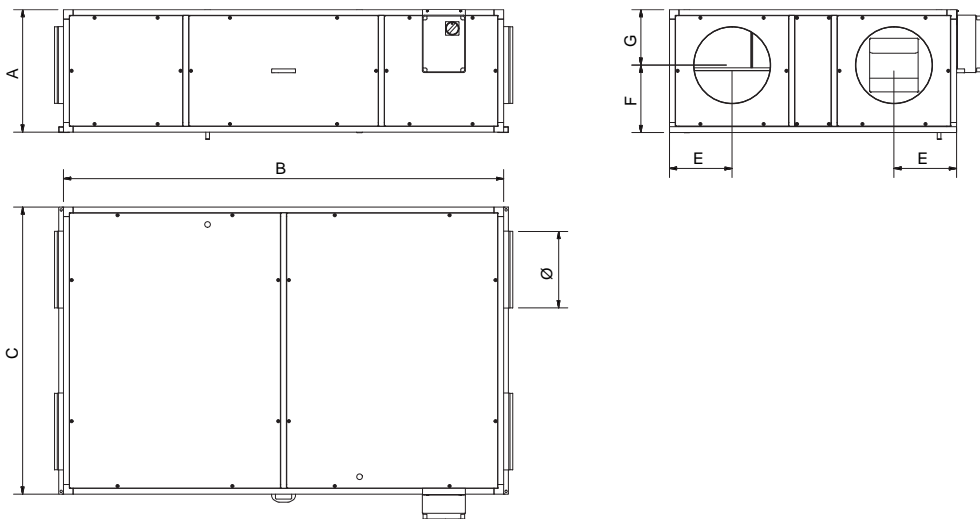
**Notes:**

\*\* 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	Ø
ARUMAK LP 425 EEC	370	1100	1050	185	200
ARUMAK LP 900 EEC	430	1200	1150	215	250
ARUMAK LP 1800 EEC	550	1460	1300	283	315



Model	A	B	C	E	F	G	Ø
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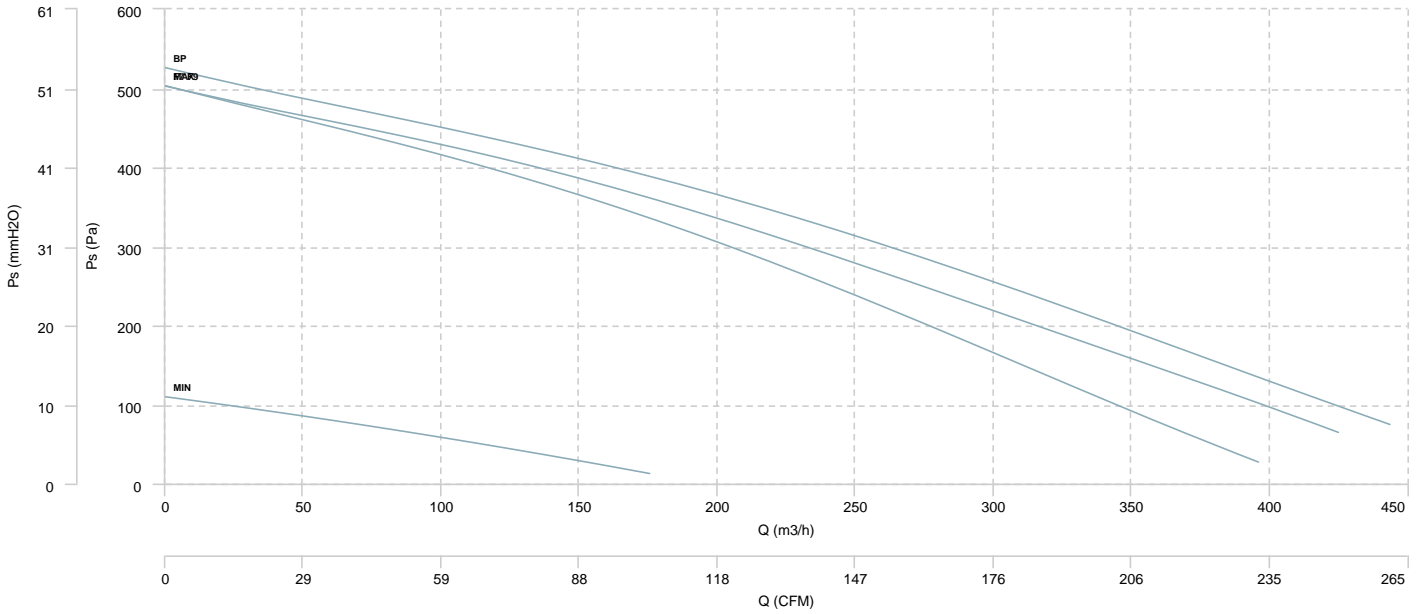
Model	A	B	C	E	F	G	Ø
ARUMAK LP 2700 EEC	640	2300	1500	327	350	290	400
ARUMAK LP 4000 EEC	640	2300	1980	327	350	290	400



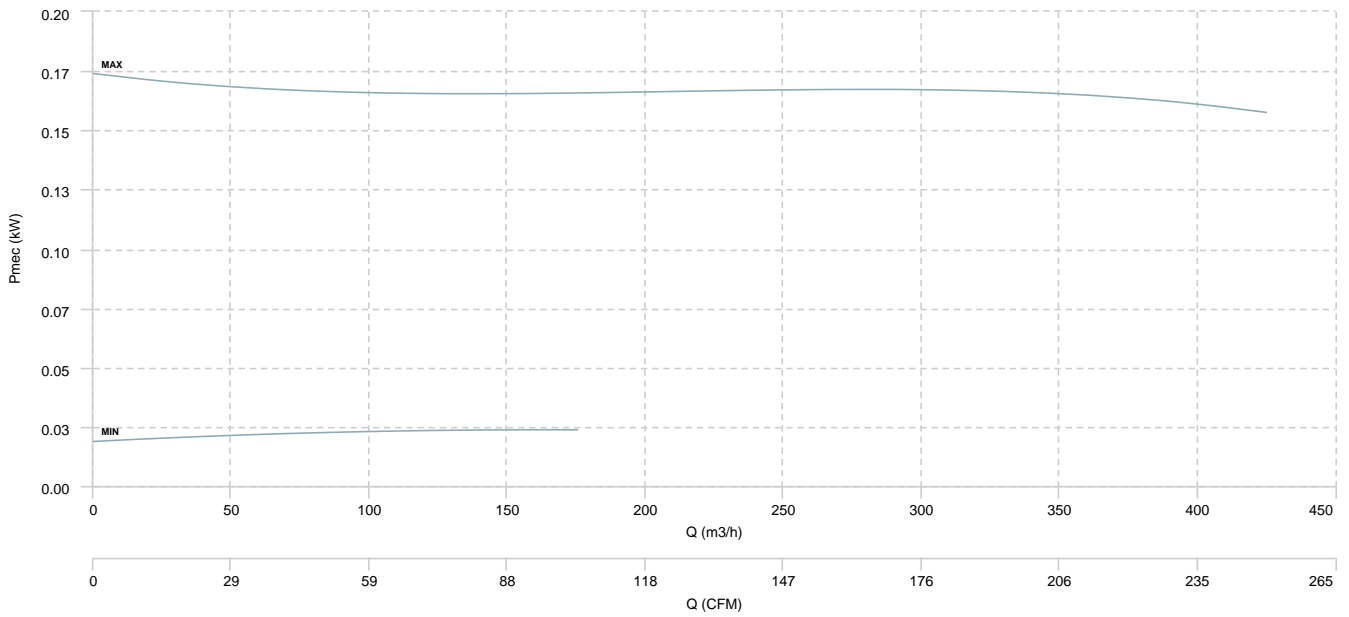
# CHARACTERISCTIC CURVE

ARUMAK LP 425 EEC

## AIR FLOW - PRESSURE

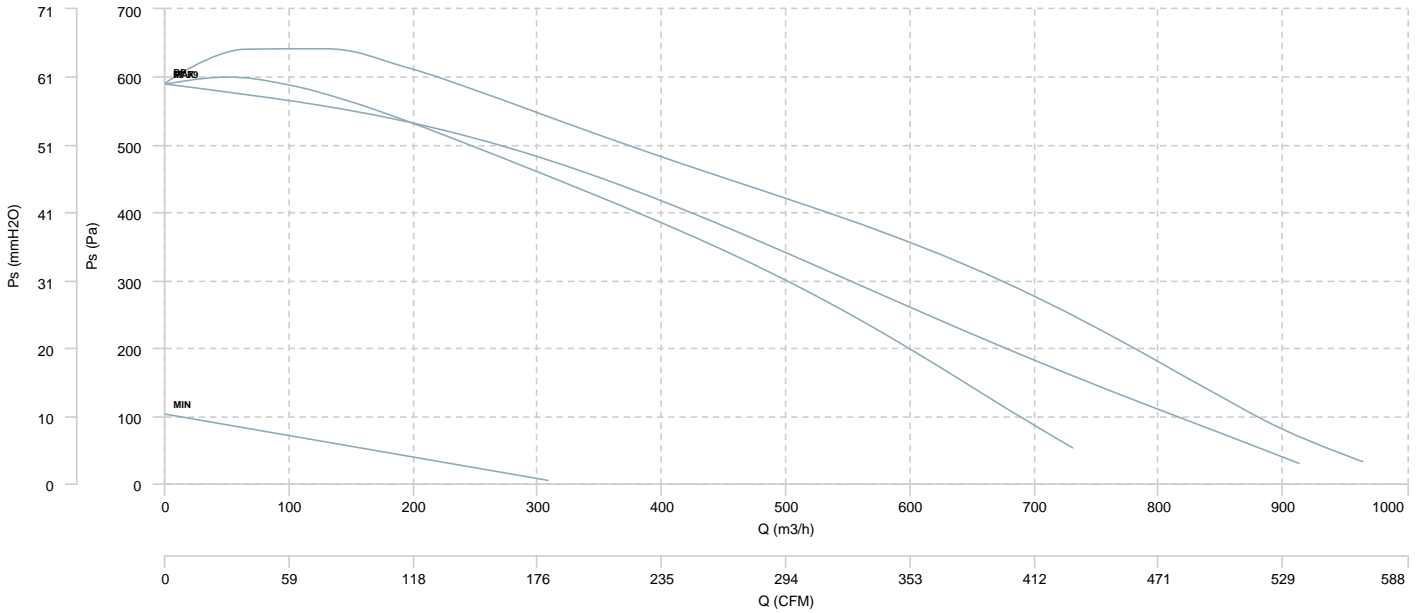


## AIR FLOW - MECHANICAL POWER

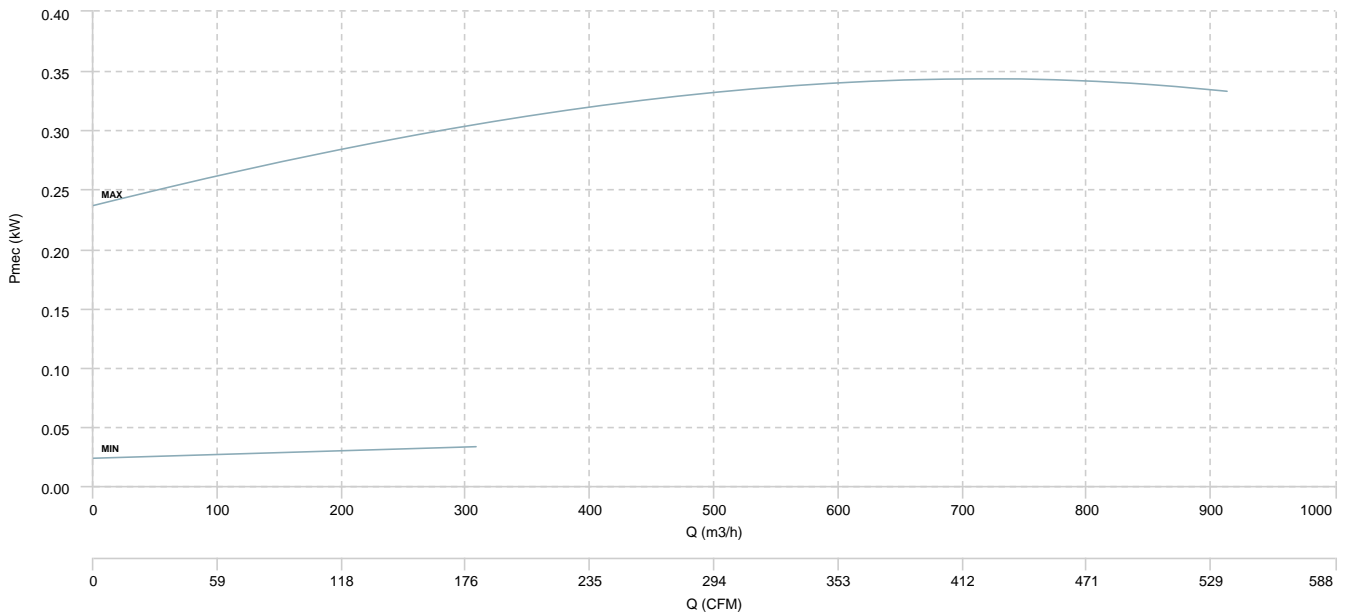


## ARUMAK LP 900 EEC

### AIR FLOW - PRESSURE



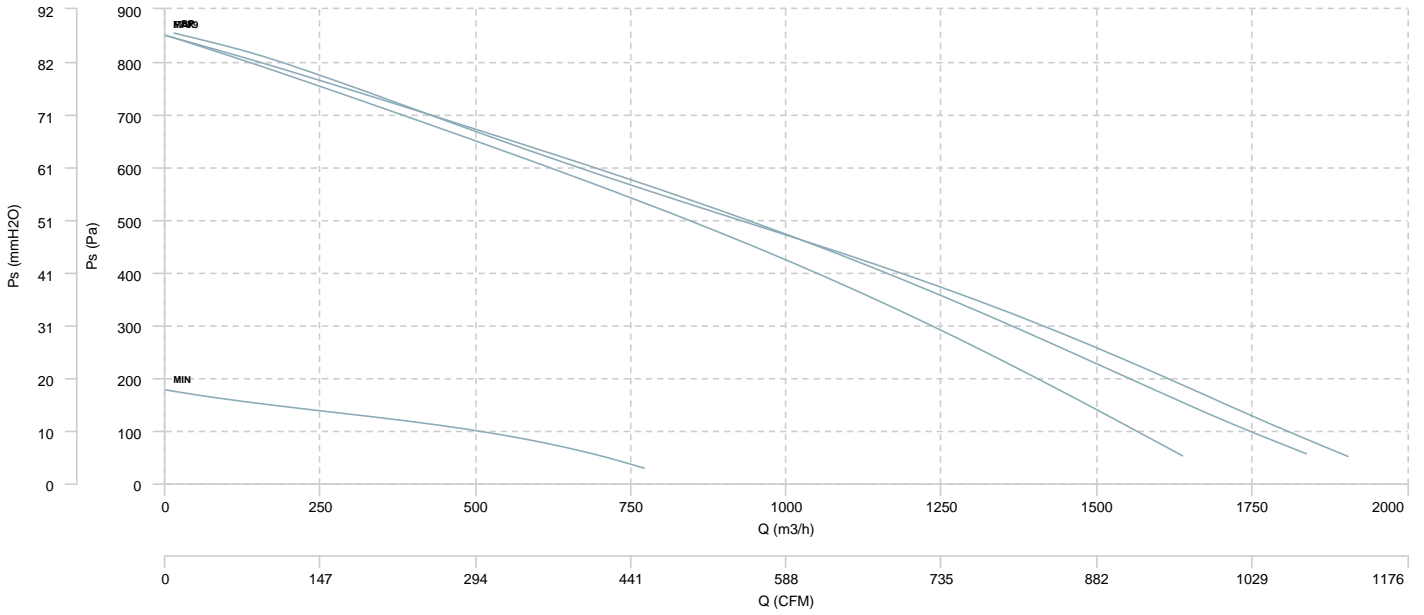
### AIR FLOW - MECHANICAL POWER



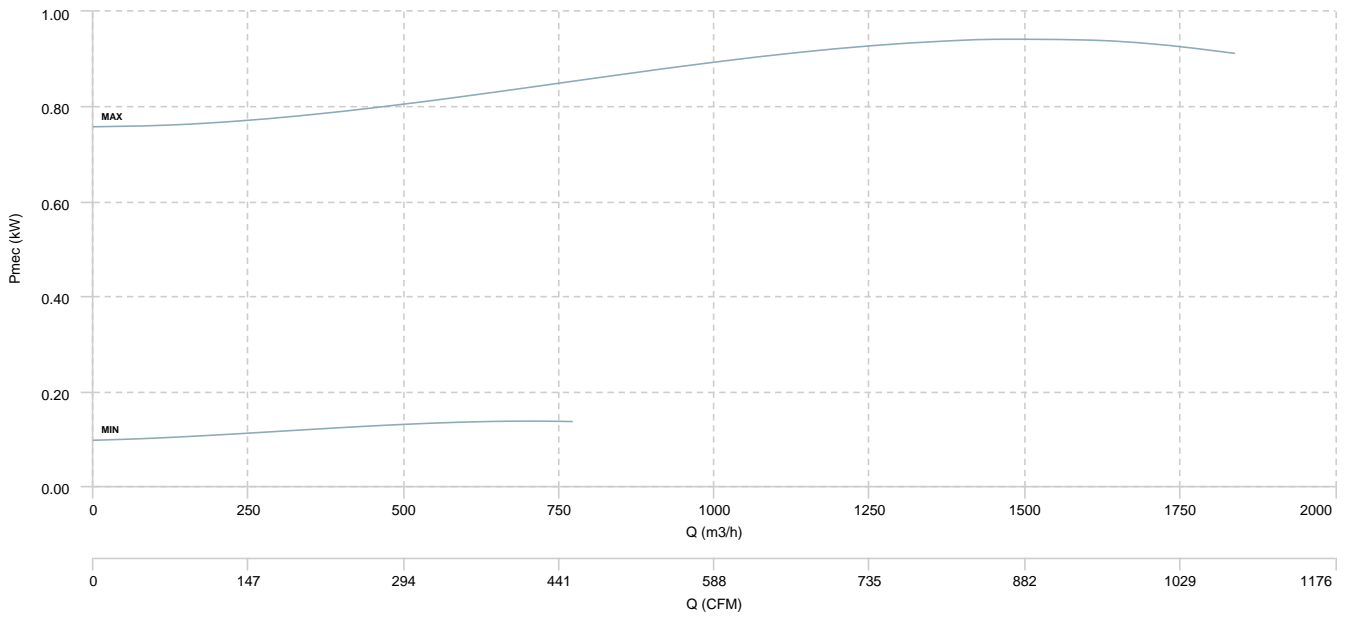


## ARUMAK LP 1800 EEC

### AIR FLOW - PRESSURE



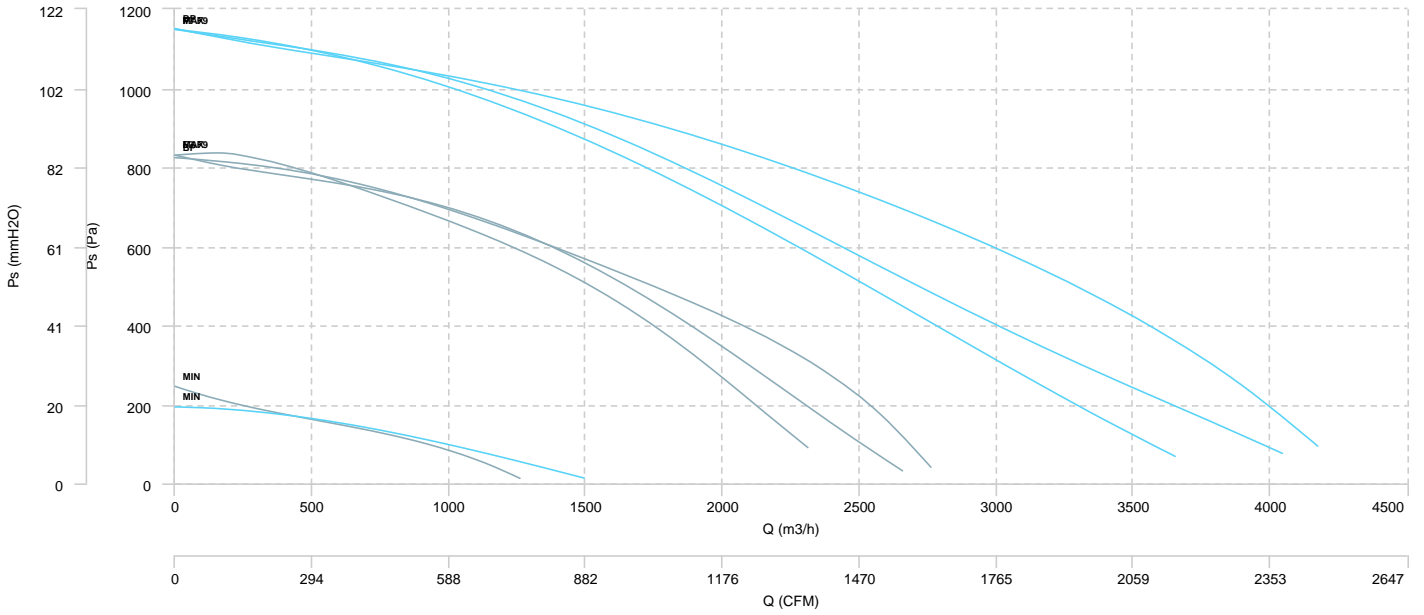
### AIR FLOW - MECHANICAL POWER



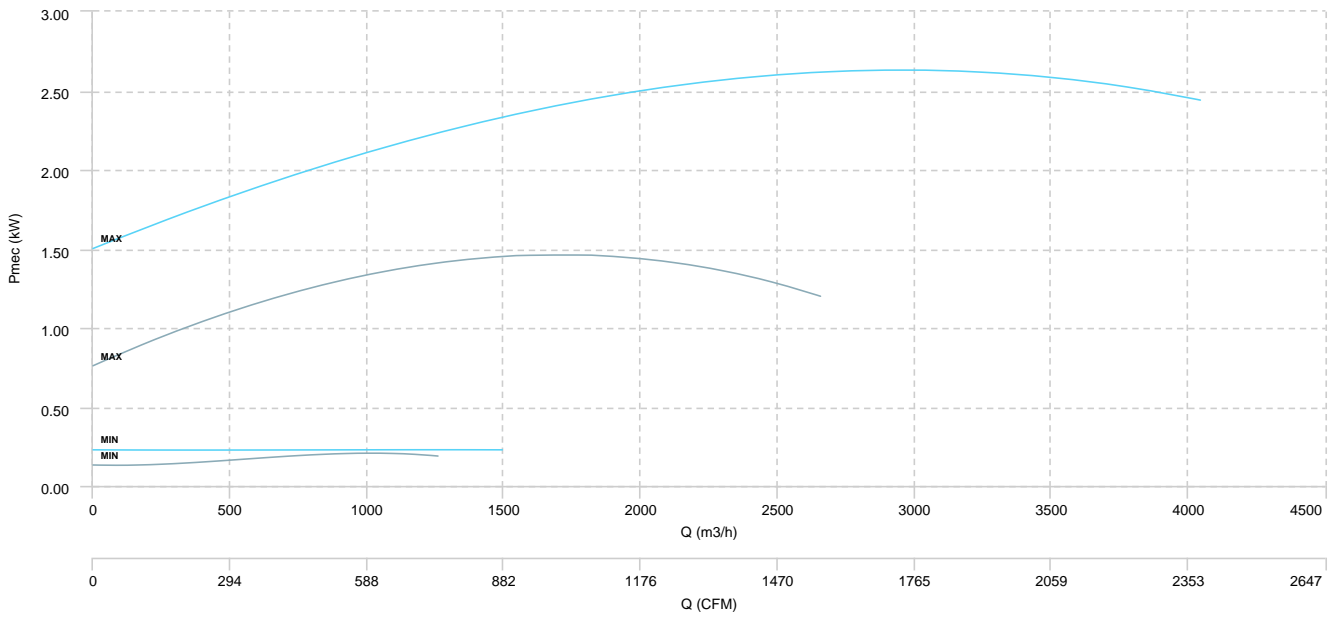
ARUMAK LP 2700 EEC

ARUMAK LP 4000 EEC

## 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 LP 425 EEC	Outlet	-	65	69	67	58	59	56	64	69
	Radiated	-	60	64	60	53	46	41	43	61
ARUMAK LP 900 EEC	Outlet	-	66	75	68	62	63	58	67	72
	Radiated	-	65	67	61	58	48	43	45	63
ARUMAK LP 1800 EEC	Outlet	-	74	85	79	73	71	65	70	81
	Radiated	-	70	75	67	57	50	45	43	69
ARUMAK LP 2700 EEC	Outlet	-	77	87	82	82	77	71	79	86
	Radiated	-	69	78	70	62	54	47	46	72
ARUMAK LP 4000 EEC	Outlet	-	79	85	82	81	76	75	79	86
	Radiated	-	76	81	73	63	57	48	48	75

## erp data

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

Model	Motor power (kW)	Maximum efficiency point data						
		Eff.Heat recovery (%)	Max. efficiency (%)	Pabs (kW)	Air Flow (m3/h)	Ps (Pa)	Speed (m/s)	SFP (W/m3/s)
ARUMAK LP 425 EEC	0.083x2	78,80	100	0,17	396	100	3.5	836,00
ARUMAK LP 900 EEC	0.17x2	76	100	0,34	828	100	4.69	912,00
ARUMAK LP 1800 EEC	0.448x2	79,80	100	0,92	1.260	350	4.49	1.206,00
ARUMAK LP 2700 EEC	0.715x2	77,50	100	1,44	1.980	350	4.38	1.057,00
ARUMAK LP 4000 EEC	1.27x2	77,30	100	2,63	2.700	500	5.97	1.112,00