

ARUMAK LP



LOW PROFILE COUNTER FLOW HEAT EXCHANGER FOR FALSE CEILING

MANUFACTURING FEATURES

Medium-high efficiency heat recovery unit (Eff.78%). Low profile with electronic regulation and AC motor for 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 in documentation).p.60). With F7/F7 or F7+F9/F7 filters. Horizontal and false ceiling installation version

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 78% efficiency.
- Eurovent certified.

FANS:

- Centrifugal fans with direct motor coupled with double suction according to ErP 2018.

FILTERS:

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

CONTROL:

- CTRL-F: 4 speeds, ON / OFF bypass, 3 temperatures and indication of filter failure. o portable display. Optional: portable display with connection cables.

- CTRL-DPH: manual speed, manages bypass automatically. Regulation of fresh air, fault detection and time programming.

APPLICATIONS

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

UNDER REQUEST

- Without control
- Manual bypass.
- F9/F7 filters.
- CTRL-MAX2 with Modbus RTU protocol

CONFIGURATIONS

- Other special configurations under request.

See maintenance video

Accessories



Technical data

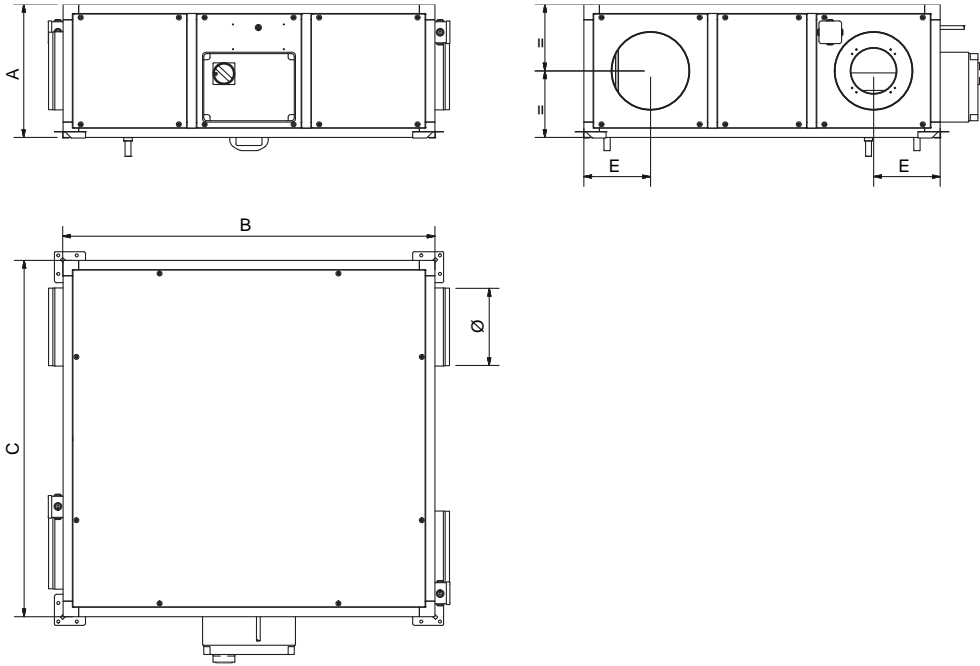
Single-phase motor

Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m3/h	Sound db (A)**	Weight	Connect. diagram
-	ARUMAK LP 470	1030	2x0.7	2x0.15	470	35	74	1
-	ARUMAK LP 850	1600	2x1.3	2x0.29	850	46	91	1
-	ARUMAK LP 1750	1372	2x2.8	2x0.40	1.750	53	142	2
-	ARUMAK LP 2100	1372	2x2.8	2x0.40	2.100	49	150	2
-	ARUMAK LP 2900	1289	2x5	2x0.55	2.900	50	273	2
-	ARUMAK LP 4200	1404	2x9.6	2x0.75	4.200	57	291	2

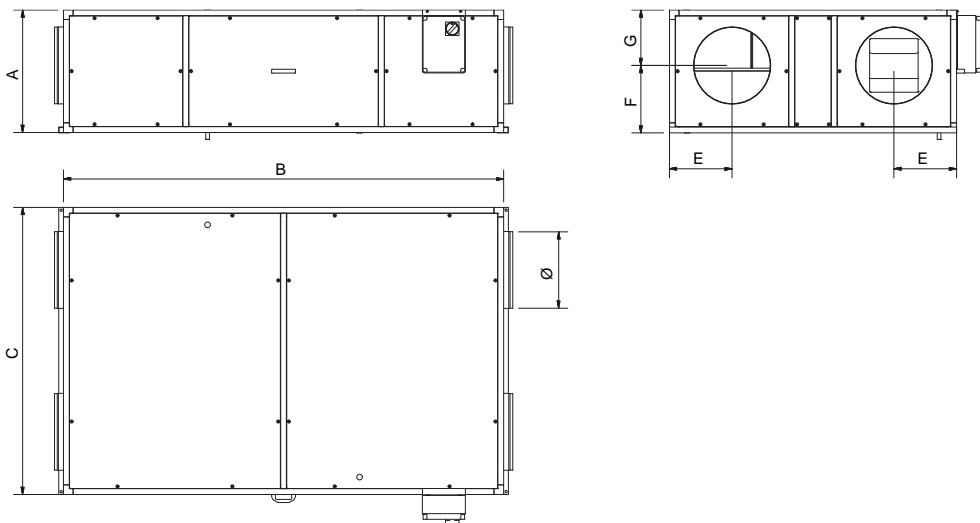
Notes:

** 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	Ø
ARUMAK LP 470	370	1100	1050	185	200
ARUMAK LP 850	430	1200	1150	215	250
ARUMAK LP 1750	500	1460	1300	283	315
ARUMAK LP 2100	550	1460	1300	283	315



Model	A	B	C	E	F	G	Ø
ARUMAK LP 2900	640	2300	1500	327	350	290	400
ARUMAK LP 4200	640	2300	1980	327	350	290	400

Wiring diagram

DIAGRAM N° 1

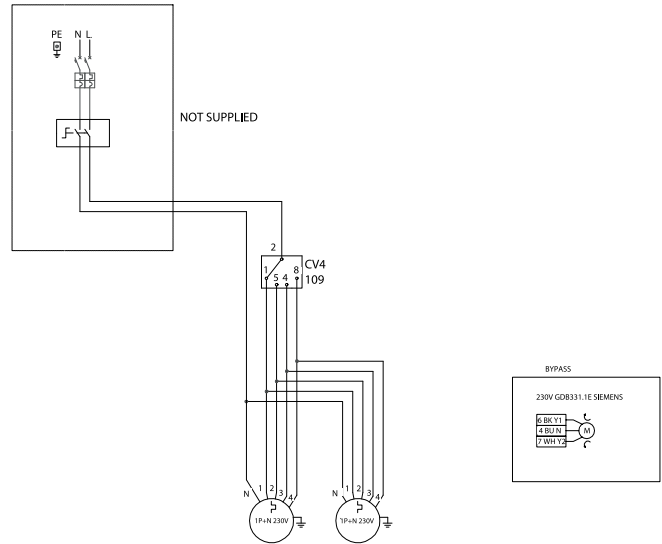
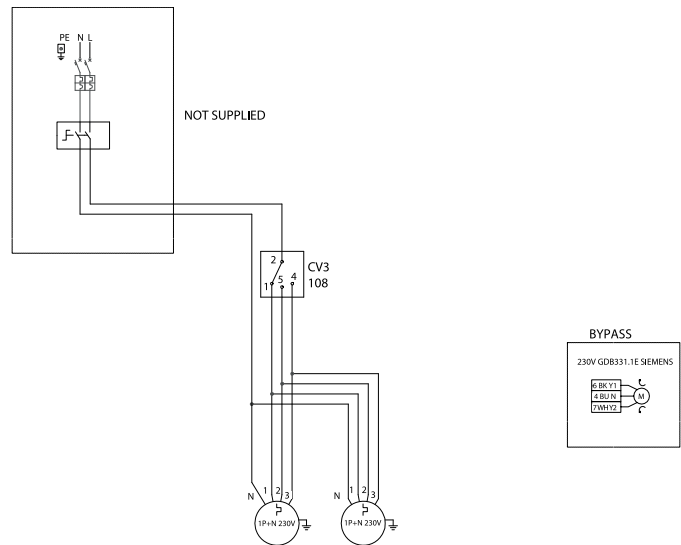


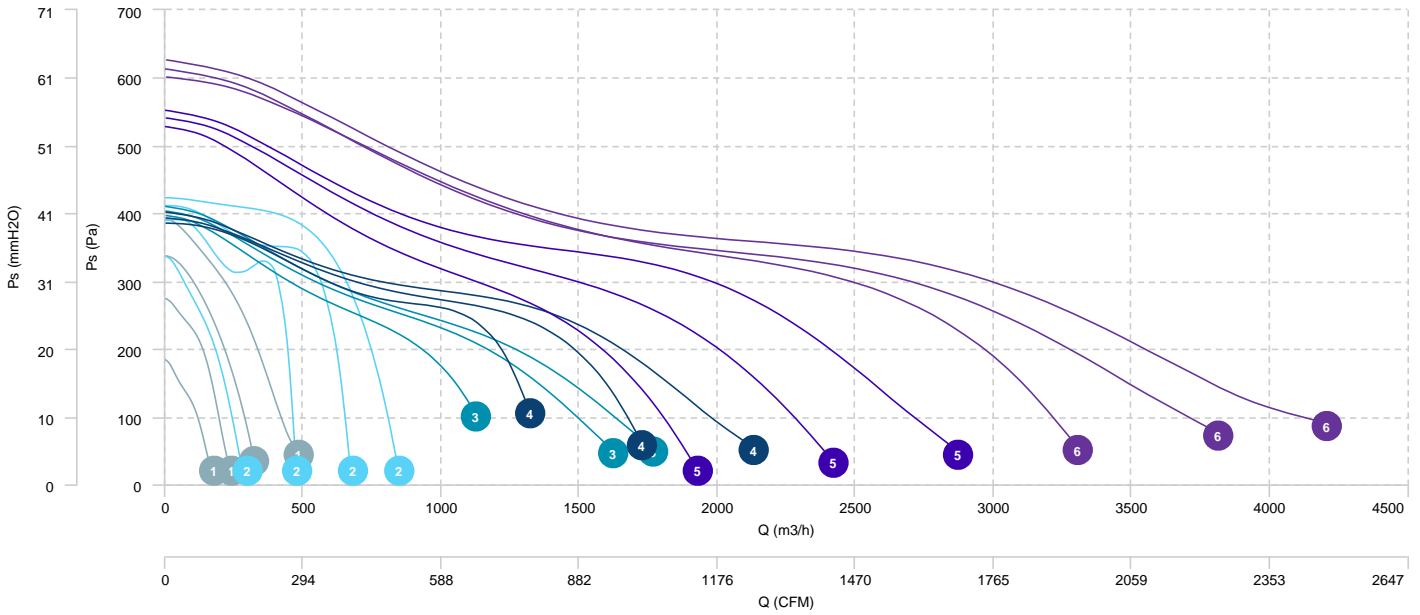
DIAGRAM N° 2



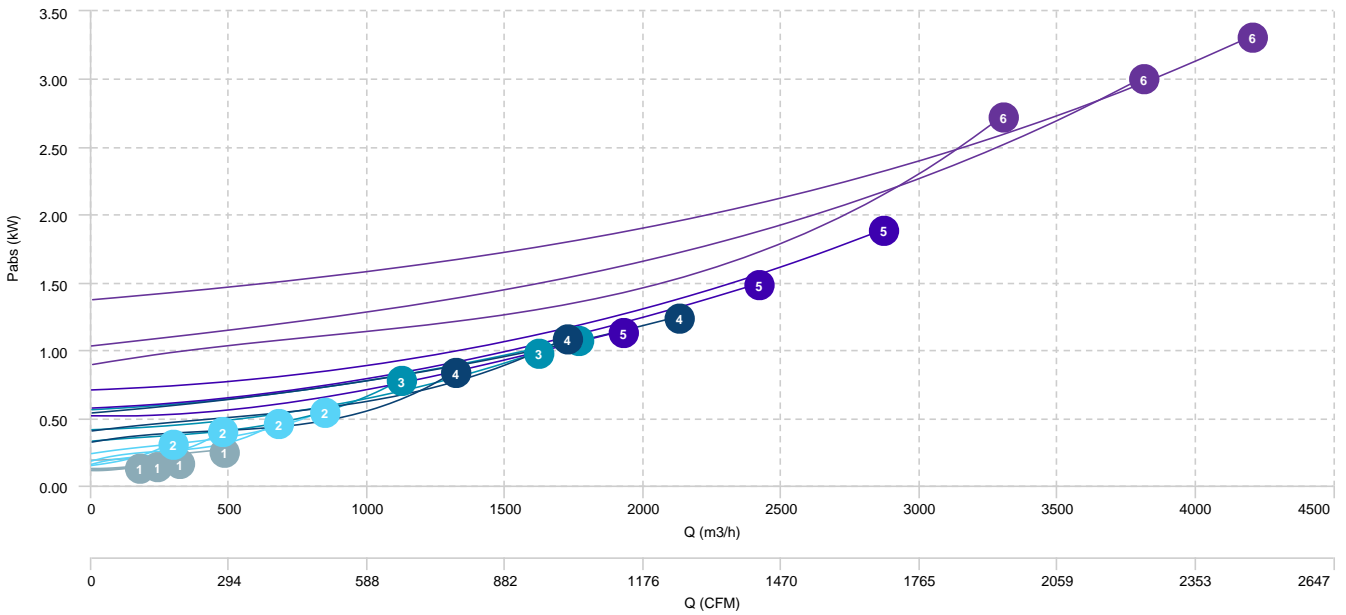
CHARACTERISTIC CURVE

1	ARUMAK LP 470	2	ARUMAK LP 850	3	ARUMAK LP 1750	4	ARUMAK LP 2100
5	ARUMAK LP 2900	6	ARUMAK LP 4200				

AIR FLOW - PRESSURE



AIR FLOW - ABSORBED 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 470	Inlet	-	52	59	61	54	49	46	49	61
	Outlet	-	52	59	61	54	49	46	49	64
ARUMAK LP 850	Inlet	-	63	70	72	64	56	62	65	72
	Outlet	-	63	70	72	64	56	62	65	75
ARUMAK LP 1750	Inlet	-	75	82	76	73	67	66	69	79
	Outlet	-	67	78	79	60	63	61	62	82
ARUMAK LP 2100	Inlet	-	67	78	79	60	63	61	62	75
	Outlet	-	69	76	78	66	63	61	62	81
ARUMAK LP 2900	Inlet	-	69	76	78	66	63	61	62	76
	Outlet	-	70	78	74	72	65	66	68	81
ARUMAK LP 4200	Inlet	-	76	86	80	77	72	74	74	83
	Outlet	-	76	86	80	77	72	70	74	88

erp data

ERP

Fan type	Unit for non-residential ventilation (LOT 6)
Typology	Bidirectional
Others	Filter
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 LP 470	2x0.15	78,20	100	0,25	432	100	0.95	985,00
ARUMAK LP 850	2x0.29	76,30	100	0,50	792	150	1.12	1.063,00
ARUMAK LP 1750	2x0.40	78,10	100	0,92	1.188	210	1.06	1.194,00
ARUMAK LP 2100	2x0.40	77,90	100	1,02	1.656	200	1.48	1.155,00
ARUMAK LP 2900	2x0.55	76,70	100	1,43	2.196	250	1.21	1.087,00
ARUMAK LP 4200	2x0.75	76,70	100	2,34	2.952	300	1.63	1.067,00