

UPA

DIRECT-DRIVE LOW PRESSURE CENTRIFUGAL ACOUSTIC CABINET FANS UPA Series

DESCRIPTION

The UPA series of low pressure direct-drive acoustic centrifugal cabinet fans consists of 6 nominal model sizes. All models are suitable for direct in-line connection to industry standard diameter circular ducting. Depending upon the model, the range are available with 2 or 4 pole speed, single phase motors. All models include a remote mounted wiring terminal box to facilitate electrical connections. Airflow performance for the UPA series fans ranges from 200 up to 3,950 m³/hr.

APPLICATIONS

The UPA series of fans are suitable for many ducted noise sensitive ventilation applications, including the ventilation of:

- Offices. - Factory units. - Shops.
- Restaurants. - Cafes and bars.

CONSTRUCTION

Casing

All UPA fan casings are manufactured from

fabricated galvanised sheet steel and internally lined with a 50mm thick Melamine (M1 type) acoustic insulation material.

All models are supplied with circular ducting connection flanges mounted on both the inlet and discharge sides of the casing.

The UPA casing design includes a removable cover (quick release fixings without tools) which permits direct access to the fan motor and impeller for servicing and maintenance, without having to remove the casing from the ducting.

All models are supplied with robust steel support feet enabling the fans to be mounted in any orientation to facilitate installation.

Fan

All UPA cabinet fans include, as standard, low pressure forward curved centrifugal fan impellers with a direct-drive single phase motor (IP44, enclosed type). **All motors are suitable for speed control via voltage regulation.**

ACOUSTIC CHARACTERISTICS

To obtain the corresponding Sound Power Level Spectrum, simply add the values detailed in the table below at the corresponding octave average frequencies, to that of the value of sound pressure level detailed in the Technical Characteristics Table.

Model Type		63Hz	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
UPA-125	Outlet	34,5	46,0	43,5	49,5	59,0	54,5	50,0	44,0
	Inlet	50,5	45,5	36,0	35,5	36,5	35,0	32,0	29,0
	Radiated	40,5	41,0	24,5	27,5	25,5	25,0	21,5	20,0
UPA-160	Outlet	38,0	55,5	55,0	60,5	65,0	65,0	60,0	56,5
	Inlet	42,5	53,5	44,5	43,0	40,5	44,0	43,5	40,0
	Radiated	39,0	50,0	37,0	35,5	33,0	31,5	30,5	31,5
UPA-200	Outlet	40,0	56,0	56,5	61,5	67,5	67,5	63,0	59,0
	Inlet	46,0	56,0	51,0	49,5	50,0	50,5	46,0	40,0
	Radiated	33,0	50,0	41,5	37,0	39,5	38,0	31,5	28,5
UPA-250	Outlet	49,5	56,5	58,5	65,0	70,5	68,0	64,5	59,5
	Inlet	48,5	53,5	51,5	50,0	49,5	48,5	43,5	39,0
	Radiated	42,5	48,0	42,0	39,5	40,5	37,0	33,0	30,0
UPA-250N	Outlet	48,0	57,0	58,5	65,0	70,5	72,0	68,0	64,0
	Inlet	50,0	54,0	51,0	49,5	47,5	52,0	48,5	42,0
	Radiated	40,0	46,5	43,0	42,0	44,0	45,5	40,5	33,0
UPA-315	Outlet	52,5	61,5	64,0	69,0	74,0	74,5	71,5	68,0
	Inlet	55,0	56,0	59,5	54,5	58,5	59,5	54,0	47,0
	Radiated	43,0	48,0	48,5	42,0	44,5	44,5	38,5	35,5
UPA-355	Outlet	61,0	64,0	66,0	71,0	76,0	74,0	72,0	65,0
	Inlet	55,0	60,0	58,0	54,0	58,0	58,0	55,0	46,0
	Radiated	44,0	52,0	51,0	48,0	48,0	44,0	40,0	34,0
UPA-400	Outlet	57,5	61,5	67,0	73,5	79,5	77,5	76,0	67,5
	Inlet	58,5	61,0	60,6	57,0	63,5	63,0	59,0	48,0
	Radiated	39,5	50,5	51,0	49,5	51,0	46,5	40,0	33,5

TECHNICAL CHARACTERISTICS

Model Type	Fan size	Speed	Motor Abs. Power	Motor Abs. Current	Max Airflow	Sound Pressure Level (dB (A) a 1,5 m) **			Weight
		(r.p.m.)	(W)	(A)	(m ³ /h)	Inlet	Outlet	Radiated*	(kg)
UPA-125	140/059	1600	48	0,2	240	47	34	30	16
UPA-160	140/059	2350	100	0,4	390	55	41	36	18
UPA-200	133/126	2000	180	0,7	695	58	45	37	22
UPA-250	180/184	1250	200	0,8	1250	60	44	38	25
UPA-250N	146/180	2200	350	1,5	1140	62	45	39	27
UPA-315	180/240	1400	373	3,2	2100	65	52	40	33
UPA-355	240/240	1400	550	6,5	3150	66	51	42	35
UPA-400	240/240	1400	550	6,5	3500	69	55	43	35