BSH

DUCT TYPE SHELTER FANS

Fan Components and Material Properties

The body is manufactured from galvanized sheet metal. Some of the BSH models are made of high quality galvanized steel which is resistant to corrosion All models have an external rotor motor with closed structure. The device is capable of handling air at max.40°C.

Fan Structure

It is designed to work between the rectangular channel. The fan blades are aerodynamically curved and provide regular flow. The fans are composed of backward sloping and infrequently arranged fins.

Benefits

Bypass air dampers have been found not to be fully sealed. Instead, it is seen that the sliding system bypass panel is more efficient in the tests and it has been used in our devices. It can be operated in the desired position.

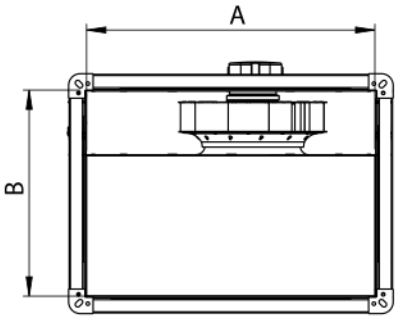
Speed Control

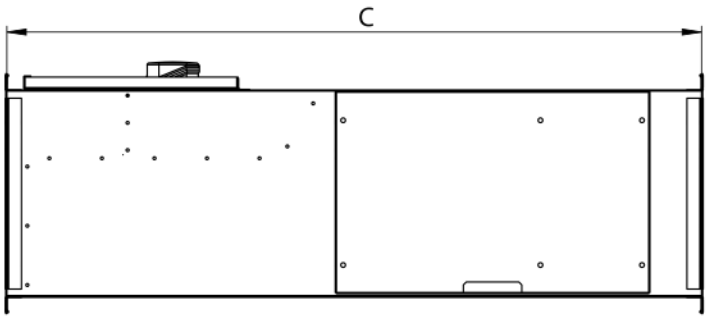
Optional control devices can be provided.
Speed control can be done with linear voltage regulator in 1 ~ phase products (see BSC accessory). Speed control with frequency inverter can be done in 3 ~ phase products (see BSC-F accessory)

Usage Areas

It is used for supplying fresh air to the shelters. They can be used in two different positions: normal time and war time. In normal time, the air is passed through the G4filter only to the interior. In the time of war, fresh air; It can be sent to the interior by passing through the activated carbon filter and nuclear hepa filter which can purify the possible chemical (nuclear) gases.

Technical Drawing and Tables



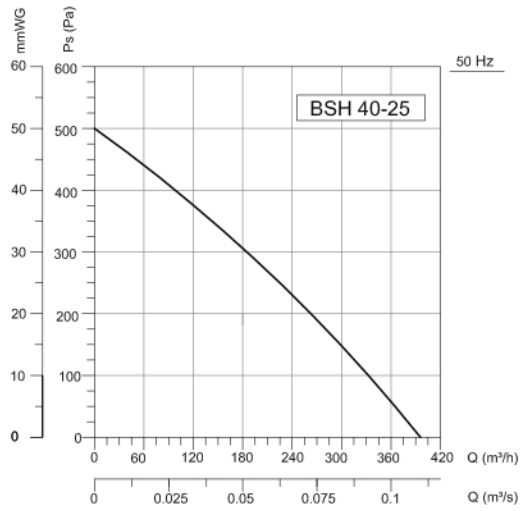


TYPE	A	B	C
BSH 40-25	400	250	1000
BSH 50-35A	500	350	1200
BSH 50-35B	500	350	1200
BSH 80-45A	800	450	1490
BSH 80-45B	800	450	1490
BSH 100-65A	1000	650	1750
BSH 100-65B	1000	650	1750

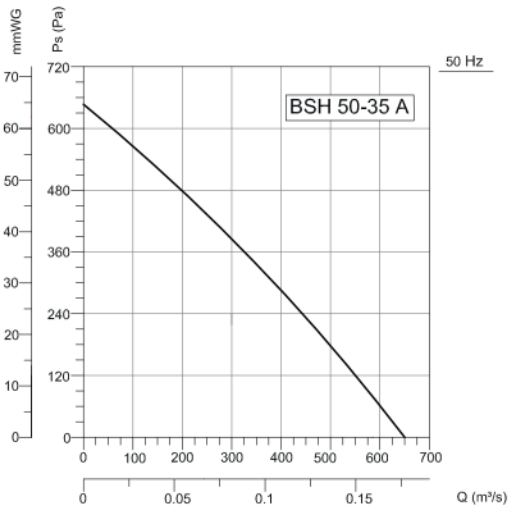
Dimensions are in (mm)

TYPE	VOLTAGE	FREQUENCY	POWER	CURRENT	CAPACITOR	SPEED	AIR FLOW	SOUND PRESSURE	INSULATION CLASS	PROTECTION CLASS	WEIGHT
	V	Hz	W	(A)	(µF)	r.p.m	m^3/h	dB(A)	Ins.cl.	IP	kg
BSH 40-25	230	50	130	0,64	5	2675	400	50	B	44	28
BSH 50-35A	230	50	130	0,64	5	2675	650	52	B	44	53
BSH 50-35B	230	50	180	0,8	6	2635	750	55	B	44	55
BSH 80-45A	230	50	310	1,55	16	1430	1600	60	F	44	108
BSH 80-45B	230	50	500	2,5	18	1435	2200	62	F	44	112
BSH 100-65A	400 Δ	50	1150	2,25	-	1400	3750	64	F	54	155
BSH 100-65B	400 Δ	50	1900	3,4	-	1300	4500	66	F	54	165

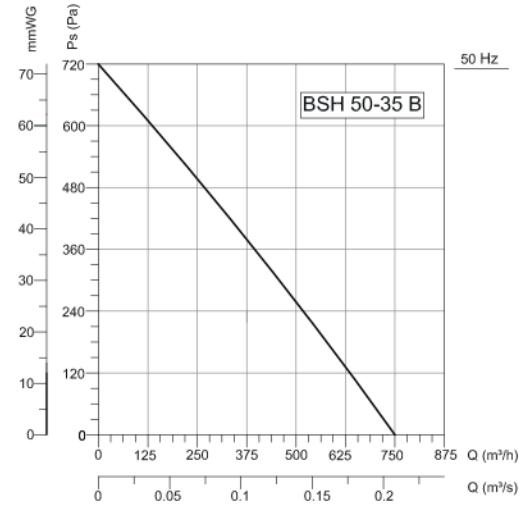
Sound Level Measured from 3m distance in room condition.



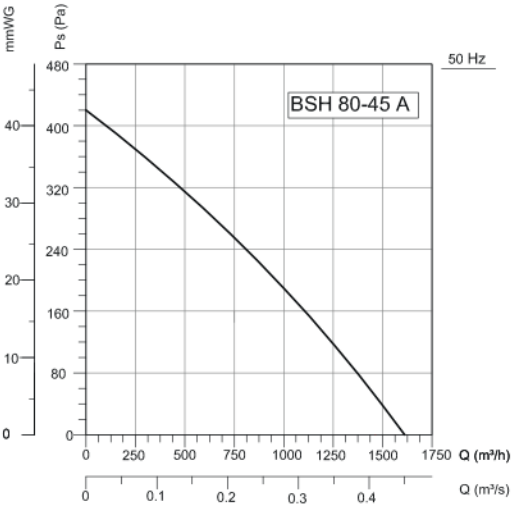
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	71	46	56	68	60	63	61	57	49	dB(A)
L_{wA} Outlet	74	46	55	69	66	65	68	63	60	dB(A)
L_{wA} Surrounding	57	22	36	55	47	46	46	40	37	dB(A)



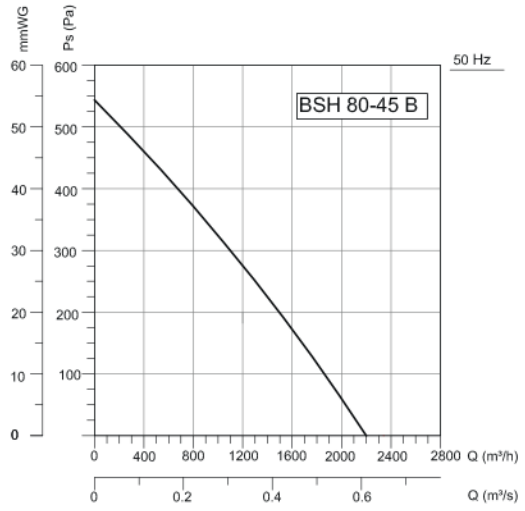
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	72	48	59	67	61	65	63	61	58	dB(A)
L_{wA} Outlet	76	49	59	68	67	68	71	65	67	dB(A)
L_{wA} Surrounding	59	29	33	53	52	52	53	45	43	dB(A)



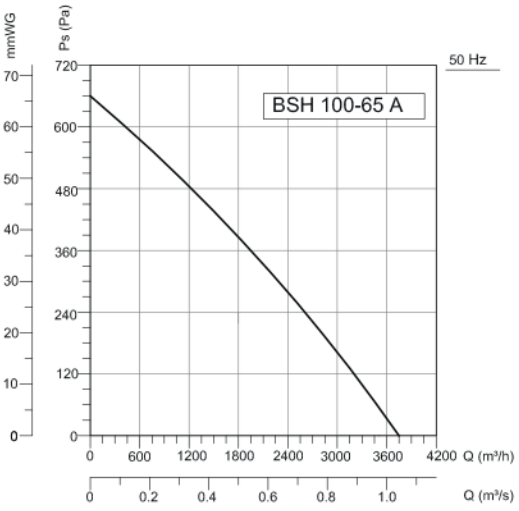
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	71	47	58	64	62	65	63	60	57	dB(A)
L_{wA} Outlet	75	48	58	66	68	68	70	64	67	dB(A)
L_{wA} Surrounding	62	30	37	56	54	56	55	47	44	dB(A)



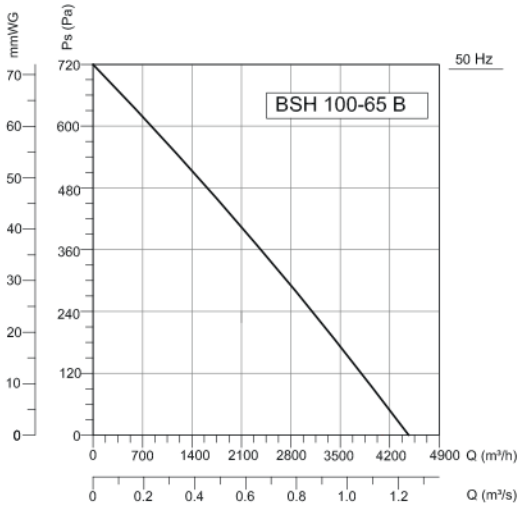
Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	79	70	72	74	71	72	67	62	54	dB(A)
L_{wA} Outlet	82	59	70	75	78	75	73	68	56	dB(A)
L_{wA} Surrounding	67	45	57	64	62	57	54	49	42	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	81	72	74	76	73	74	69	64	56	dB(A)
L_{wA} Outlet	84	61	72	77	80	77	75	70	58	dB(A)
L_{wA} Surrounding	69	47	59	66	64	59	56	51	44	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	81	66	76	72	74	72	71	68	59	dB(A)
L_{wA} Outlet	86	66	77	78	80	79	77	73	54	dB(A)
L_{wA} Surrounding	71	47	69	65	60	59	54	47	41	dB(A)



Frequency	Tot	63	125	250	500	1000	2000	4000	8000	Hz
L_{wA} Inlet	83	68	78	74	76	76	72	66	60	dB(A)
L_{wA} Outlet	87	72	78	80	81	81	79	71	65	dB(A)
L_{wA} Surrounding	73	50	70	67	62	61	56	48	45	dB(A)

Accessories