

Induction Type - VAV
B-40 Series
Model: VAV-GB- 41x
Construction: Galvanized Steel (GI)
Application: Light & Medium Duty

Induction VAV Model GB-41 is pressure-independent VAV where air volume control terminals are designed particularly for systems with high variations in heat load. The terminals induce room air and mix it with conditioned primary air, maintaining a nearly constant air volume to the room thus providing sufficient air movement necessary to maintain occupant comfort even in extreme load variations ensuring cold air 'dumping' will not occur and comfort zone will be maintained under extremely low primary air temperatures, without producing excessive differences between the supply and the room air temperature.

Standard construction
Casing

0.9 /1.2 mm thick galvanized sheet steel.

Insulation

 25 mm thick 32 kg/m³ density Acoustic liner.

Blade

0.9 mm thick galvanized sheet steel.

Flow grid

Flow grid multi point with 12 inlet holes in four concentric circles.

Axle Shaft

12 mm diameter axle shaft made with galvanized steel

Bearings :

12 mm diameter Brass bearings.

Gasket

Neoprene Gasket.

Controls :

Modulating

Optional Construction
Controls

Backnet DDC with suitable thermostat.

Duct Heater

Slip-in type electric duct heater (230V AC 1 Phase or 400V AC 3 Phase)

Double skin

Insulated internal walls surface with Galvanized perforated sheet used for low noise applications to minimise breakout noise.

Neck connections

Round inlet with round outlet and square inlet with square outlet.

Note :

Casing thickness varies with respective models.



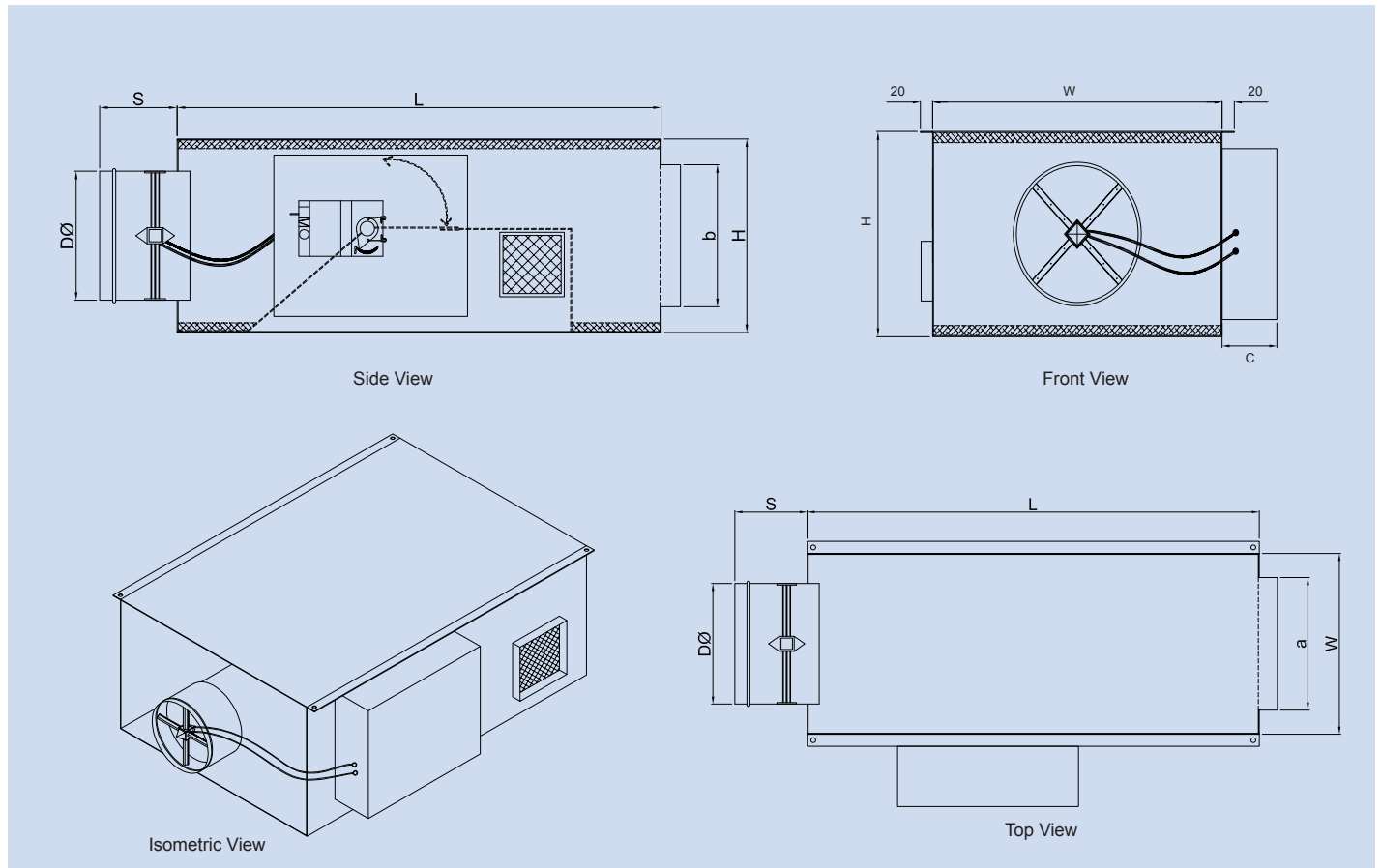
VAV-GB-41E

Technical Features:

- Volume control range from 100 to 10% is possible to the conditioned zone.
- Accurate airflow sensing with 2 X 12 points averaging.
- Low Leakage i.e. less than 2% of V nominal at 750 Pa.
- Designed to produce low NC levels with minimal pressure drop to the system.
- Suitable for low temperature primary systems.
- Air volume capacity upto 2800 CFM
- Suitable for use as constant volume application
- Electronics control factory supply & mounted.
- Variety of control options available, based on applications.
- Electronic thermostat & actuator provide accurate mounting control.
- Metal encapsulated edges limit fiberglass insulation erosion into the airstream.
- Single-point power connection reduces installed cost. Maintenance free.

Selected Products of the company have been Classified / Listed / Tested by various international testing authorities.



Induction Type - VAV
B - 40 Series
Model: VAV-GB-41 - Construction Details And Dimensions


Dimensional data for VAV-GB- 40 - Induction Type										
Model X	Air Flow Range (cfm)	d-Inlet (mm)	L (mm)	w (mm)	h (mm)	Discharge		s (mm)	c (mm)	Casing (Gauge)
						a	b			
A	150	100 ø	1000	350	220	300	150	125	80	20g
B	400	150 ø	1000	400	250	350	180	125	80	20g
C	700	200 ø	1000	500	270	450	200	125	80	20g
D	1100	250 ø	1000	600	300	550	230	125	80	20g
E	1600	300 ø	1500	750	400	700	330	125	80	18g
F	2100	350 ø	1500	800	430	750	360	125	80	18g
G	2800	400 ø	1500	900	460	850	390	125	80	18g

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Induction Type - VAV
Engineering and Performance Data
B - 40 Series

Radiated sound power levels																														
Model	CFM	Velocity m/s	Static Pressure @ 125 Pa							Static Pressure @ 250 Pa							Static Pressure @ 375 Pa							Static Pressure @ 500 Pa						
			1 2 5	2 5 0	5 0 0	1k	2k	4k	NC	1 2 5	2 5 0	5 0 0	1k	2k	4k	NC	1 2 5	2 5 0	5 0 0	1k	2k	4k	NC	1 2 5	2 5 0	5 0 0	1k	2k	4k	NC
A	29	2	30	28	25	24	18	15	<20	32	31	27	26	20	16	<20	39	38	39	32	27	20	<20	41	40	41	34	29	22	<20
	58	4	35	33	27	26	20	18	<20	37	36	29	28	22	19	<20	43	41	40	35	29	23	<20	45	43	42	37	31	25	21
	89	6	41	36	29	30	23	19	<20	43	39	31	31	25	20	<20	49	45	41	39	33	24	21	51	47	43	41	35	26	25
	118	8	45	39	33	35	28	23	<20	47	42	35	36	30	24	<20	52	49	43	41	36	28	25	54	51	45	43	38	30	30
	147	10	47	44	38	38	32	25	<20	49	47	40	39	34	26	22	54	52	44	43	38	30	30	56	54	46	45	40	32	35
B	80	2	38	33	33	29	22	19	<20	40	36	35	30	24	20	<20	40	37	39	33	28	25	25	42	39	41	35	30	27	25
	160	4	44	34	38	33	26	23	<20	46	37	40	34	28	24	<20	44	40	41	37	31	69	27	46	42	43	39	33	71	27
	240	6	45	37	41	36	29	26	<20	47	40	43	37	31	27	<20	46	45	44	41	36	29	29	48	47	46	43	38	31	29
	320	8	48	44	43	40	34	29	<20	50	47	45	41	36	30	21	51	49	47	46	38	35	37	53	51	49	48	40	37	37
	400	10	51	45	45	43	36	31	21	53	48	47	44	38	32	27	56	52	51	48	42	36	39	58	54	53	50	44	38	39
C	149	2	49	37	36	28	24	20	<20	51	40	38	29	26	21	<20	46	47	41	30	33	24	24	48	49	43	32	35	26	29
	280	4	51	40	38	32	26	24	<20	53	43	40	33	28	25	<20	47	51	45	31	37	28	25	49	53	47	33	39	30	30
	429	6	53	44	41	36	31	27	<20	55	47	43	37	33	28	<20	54	59	47	37	40	31	27	56	61	49	39	42	33	32
	569	8	58	48	45	39	35	30	<20	60	51	47	40	37	31	21	59	57	51	43	43	34	30	61	59	53	45	45	36	35
	710	10	59	53	49	44	38	31	21	61	56	51	45	40	32	24	65	60	55	49	44	38	33	67	62	57	51	46	40	37
D	221	2	46	37	37	27	25	24	<20	48	40	39	28	27	25	<20	54	48	41	36	33	19	<20	56	50	43	38	35	21	<20
	439	4	48	41	45	30	30	27	<20	50	44	47	31	32	28	<20	57	51	44	39	35	23	<20	59	53	46	41	37	25	<20
	658	6	55	44	48	35	31	28	<20	57	47	50	36	33	29	<20	61	54	47	43	37	27	<20	63	56	49	45	39	29	<20
	882	8	58	51	51	39	34	32	<20	60	54	53	40	36	33	<20	64	59	52	47	41	33	<20	66	61	54	49	43	35	21
	1105	10	62	55	52	46	40	34	<20	64	58	54	47	42	35	<20	69	61	57	48	43	39	<20	71	63	59	50	45	41	22
E	319	2	50	40	39	34	24	23	<20	52	43	41	35	26	24	<20	55	47	48	35	31	28	24	57	49	50	37	33	30	29
	643	4	54	47	42	36	28	24	<20	56	50	44	37	30	25	<20	59	49	52	37	37	31	25	61	51	54	39	39	33	30
	971	6	58	51	46	40	30	26	<20	60	54	48	41	32	27	<20	63	54	54	43	39	35	27	65	56	56	45	41	37	32
	1290	8	62	54	50	42	38	32	<20	64	57	52	43	40	33	<20	67	59	57	44	43	37	30	69	61	59	46	45	39	35
	1610	10	67	58	55	47	41	38	21	69	61	57	48	43	39	26	70	65	61	49	47	39	33	72	67	63	51	49	41	37
F	421	2	56	47	44	36	28	26	<20	58	50	46	37	30	27	<20	57	51	47	39	31	28	29	59	53	49	41	33	30	29
	839	4	58	51	47	39	30	29	<20	60	54	49	40	32	30	<20	60	55	53	41	32	33	30	62	57	55	43	34	35	30
	1262	6	61	54	50	43	35	32	<20	63	57	52	44	37	33	<20	63	57	58	45	43	37	32	65	59	60	47	45	39	32
	1679	8	63	57	55	46	39	34	<20	65	60	57	47	41	35	24	65	63	60	46	48	40	35	67	65	62	48	50	42	35
	2110	10	66	60	58	49	43	36	23	68	63	60	50	45	37	30	73	68	65	52	50	42	37	75	70	67	54	52	44	37
G	563	2	56	48	44	35	31	23	<20	58	51	46	36	33	24	<20	59	56	48	39	40	33	29	61	58	50	41	42	35	29
	1120	4	58	52	46	38	35	26	<20	60	55	48	39	37	27	<20	60	60	49	43	45	38	30	62	62	51	45	47	40	30
	1685	6	62	54	48	42	38	30	<20	64	57	50	43	40	31	<20	65	64	56	47	47	41	32	67	66	58	49	49	43	32
	2241	8	66	60	52	44	42	34	22	68	63	54	45	44	35	25	69	70	63	50	52	43	35	71	72	65	52	54	45	35
	2815	10	68	62	58	48	44	38	23	70	65	60	49	46	39	30	75	71	68	55	54	47	37	77	73	70	57	56	49	37

Notes:

1. All sound power levels, dB re: 10⁻¹² Watts.
2. Where APs is the inlet static pressure minus discharge static.
3. Application ratings are outside the scope of the certification program.

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Induction Type - VAV
B - 40 Series
Engineering and Performance Data

Discharge sound power levels																														
Model	CFM	Velocity	Static Pressure @ 125 Pa							Static Pressure @ 250 Pa							Static Pressure @ 375 Pa							Static Pressure @ 500 Pa						
		m/s	1 2 5	2 5 0	5 0 0	1k	2k	4k	NC	1 2 5	2 5 0	5 0 0	1k	2k	4k	NC	1 2 5	2 5 0	5 0 0	1k	2k	4k	NC	1 2 5	2 5 0	5 0 0	1k	2k	4k	NC
A	29	2	42	40	38	32	25	17	<20	44	42	40	34	27	19	<20	44	39	31	31	27	21	22	46	41	33	33	29	23	22
	58	4	43	42	40	35	28	21	<20	45	44	42	37	30	23	30	48	41	37	37	30	26	29	50	43	39	39	32	28	29
	89	6	44	44	42	37	33	23	27	46	46	44	39	35	25	31	49	47	41	40	35	30	33	51	49	43	42	37	32	33
	118	8	47	46	43	39	35	26	33	49	48	45	41	37	28	35	53	49	46	41	37	34	29	55	51	48	43	39	36	39
	147	10	49	47	45	41	38	29	39	51	49	47	43	40	31	40	55	52	50	46	44	35	44	57	54	52	48	46	37	44
B	80	2	41	41	40	37	31	24	<20	43	43	42	39	33	26	24	50	51	40	43	38	29	27	52	53	42	45	40	31	27
	160	4	44	46	44	41	35	27	<20	46	48	46	43	37	29	25	55	56	44	46	41	32	29	57	58	46	48	43	34	29
	240	6	49	51	45	43	39	32	29	51	53	47	45	41	34	29	57	59	47	49	46	35	33	59	61	49	51	48	37	33
	320	8	53	55	49	47	42	36	28	55	57	51	49	44	38	34	61	61	54	50	50	40	36	63	63	56	52	52	42	36
	400	10	60	57	55	53	49	34	33	62	59	57	55	51	36	40	64	63	58	54	53	43	39	66	65	60	56	55	45	39
C	149	2	47	39	33	34	25	19	<20	49	41	35	36	27	21	25	56	52	42	40	37	32	29	58	54	44	42	39	34	27
	280	4	53	45	38	37	27	26	<20	55	47	40	39	29	28	26	57	55	46	43	41	36	30	59	57	48	45	43	38	30
	429	6	57	50	43	39	29	28	22	59	52	45	41	31	30	34	60	58	50	49	47	40	37	62	60	52	51	49	42	37
	569	8	61	55	48	45	38	31	29	63	57	50	47	40	33	33	63	61	55	52	50	41	40	65	63	57	54	52	43	40
	710	10	62	59	52	50	45	37	33	64	61	54	52	47	39	37	67	65	58	56	51	43	43	69	67	60	58	53	45	43
D	221	2	47	46	41	31	27	17	26	49	48	43	33	29	19	27	57	50	47	53	37	33	30	59	52	49	55	39	35	30
	439	4	49	51	45	36	29	20	30	51	53	47	38	31	22	30	61	54	50	46	40	36	37	63	56	52	48	42	38	37
	658	6	55	55	49	39	35	26	34	57	57	51	41	37	28	37	68	60	55	51	45	37	40	70	62	57	53	47	39	40
	882	8	61	58	51	45	37	30	36	63	60	53	47	39	32	40	70	63	57	55	47	40	43	72	65	59	57	49	42	43
	1105	10	65	63	55	51	47	38	39	67	65	57	53	49	40	43	71	69	62	58	54	44	45	73	71	64	60	56	46	45
E	319	2	52	47	39	34	31	36	25	54	49	41	36	33	38	27	52	47	46	44	40	33	33	54	49	48	46	42	35	33
	643	4	57	51	44	39	35	38	26	59	53	46	41	37	40	30	61	63	47	47	45	38	35	63	65	49	49	47	40	35
	971	6	59	55	45	43	41	41	31	61	57	47	45	43	43	37	65	65	51	51	46	40	40	67	67	53	53	48	42	40
	1290	8	65	62	51	49	45	44	35	67	64	53	51	47	46	40	70	67	58	56	50	42	44	72	69	60	58	52	44	44
	1610	10	67	65	57	53	48	47	39	69	67	59	55	50	49	43	73	71	62	58	54	44	46	75	73	64	60	56	46	46
F	421	2	55	38	47	37	36	24	22	57	40	49	39	38	26	25	61	57	51	47	43	30	27	63	59	53	49	45	32	27
	839	4	58	44	48	39	38	27	26	60	46	50	41	40	29	26	67	64	55	51	46	31	30	69	66	57	53	48	33	30
	1262	6	61	56	53	44	41	31	31	63	58	55	46	43	33	31	70	70	57	55	50	37	37	72	72	59	57	52	39	37
	1679	8	69	61	55	48	45	35	33	71	63	57	50	47	37	35	73	72	60	58	53	41	40	75	74	62	60	55	43	40
	2110	10	70	68	59	53	49	38	35	72	70	61	55	51	40	39	76	74	65	60	55	46	43	78	76	67	62	57	48	43
G	563	2	56	57	45	35	31	19	26	58	59	47	37	33	21	26	66	61	57	50	37	24	30	68	63	59	52	39	26	30
	1120	4	58	59	48	41	35	23	29	60	61	50	43	37	25	30	67	65	60	54	40	29	39	69	67	62	56	42	31	39
	1685	6	65	65	51	47	39	29	33	67	67	53	49	41	31	33	70	70	64	55	47	33	40	72	72	66	57	49	35	40
	2241	8	69	66	59	52	44	33	35	71	68	61	54	46	35	35	74	73	68	60	50	39	55	76	75	70	62	52	41	45
	2815	10	72	69	62	56	48	39	39	74	71	64	58	50	41	40	77	75	70	64	54	46	60	79	77	72	66	56	48	60

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- All sound power levels, dB re: 10⁻¹² Watts.
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