

## Performance Data - Sound Power Level

Model : VAV - BP

Inlet size	Airflow Cfm l/s		Min. Discharge Dps "w.g. pa		Min. Discharge Dps "w.g. pa		RADIATED													
							Bypass Closed Sound Power Level (dB)						NC Levels	Bypass Open Sound Power Level (dB)						NC Levels
							125	250	500	1000	2000	4000		125	250	500	1000	2000	4000	
150	400	189	0.01	2	0.14	35	42	37	33	24	-	-	-	54	55	52	52	51	37	25
	300	142	0.01	2	0.08	20	-	34	25	-	-	-	-	47	48	45	47	37	26	-
	200	94	0.01	2	0.04	10	-	-	-	-	-	-	-	-	38	34	32	-	-	-
	100	47	0.01	2	0.01	2	-	-	-	-	-	-	-	-	34	29	-	-	-	-
200	700	330	0.01	2	0.21	52	47	41	34	28	26	-	-	60	59	55	53	48	41	30
	500	236	0.01	2	0.11	27	43	34	27	-	-	-	-	52	50	46	43	3	28	20
	350	165	0.01	2	0.05	12	-	32	-	-	-	-	-	47	40	37	32	25	-	-
	200	94	0.01	2	0.02	5	-	-	-	-	-	-	-	43	30	-	-	-	-	-
250	1100	519	0.01	2	0.43	107	52	49	46	37	32	23	20	65	64	62	60	56	52	37
	800	378	0.01	2	0.23	57	49	43	39	28	26	-	-	56	55	52	50	46	41	25
	500	236	0.01	2	0.09	22	43	35	29	-	-	-	-	47	45	43	41	34	-	-
	250	118	0.01	2	0.02	5	-	-	-	-	-	-	-	42	28	-	-	-	-	-
300	1600	755	0.01	2	0.50	124	48	51	47	37	35	29	20	69	69	66	63	60	56	40
	1200	566	0.01	2	0.28	70	43	41	38	29	25	-	-	61	60	58	56	52	46	33
	800	378	0.01	2	0.13	32	40	33	29	-	-	-	-	50	49	49	46	39	31	22
	400	189	0.01	2	0.03	7	-	-	25	-	-	-	-	44	40	41	35	28	-	-
350	2100	991	0.05	12	0.50	124	54	58	56	49	49	41	31	69	69	67	65	61	57	43
	1600	755	0.03	7	0.29	70	48	50	49	42	40	29	24	62	62	60	57	53	48	35
	1050	495	0.01	2	0.12	30	44	40	38	29	-	-	-	51	50	50	45	40	31	23
	550	260	0.01	2	0.03	7	-	31	26	-	-	-	-	-	37	36	29	-	-	-
400	2750	1298	0.06	15	0.50	124	64	63	59	49	46	37	34	73	73	71	69	65	61	47
	2050	967	0.03	7	0.28	70	57	54	50	41	36	25	24	65	65	63	61	56	50	37
	1375	649	0.01	2	0.13	32	45	41	38	27	-	-	-	54	53	53	50	44	34	27
	700	330	0.01	2	0.03	7	-	-	-	-	-	-	-	40	35	33	25	-	-	-

### Performance Notes:

- 1) Discharge sound power is the noise emitted from the unit discharge into the downstream duct.
- 2) Radiated sound power is the breakout noise transmitted through the unit casing walls.
- 3) Sound power levels are in decibels, dB re 10-12 watts.
- 4) All sound data listed by octave bands is raw data without any corrections for room absorption or duct attenuation.  
Dash (-) in space indicates sound power level is less than 20 or equal to background.
- 5) Minimum discharge DPs is the static pressure loss through the unit with 100% airflow through discharge outlet.
- 6) Minimum bypass DPs is the static pressure loss through the unit with 100% airflow through the bypass outlet.

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Inlet size	Airflow Cfm l/s		Min. Discharge DPs "w.g. pa		Min Bypass DPs "w.g. Pa		Discharge Sound Power Level (dB)						NC Levels Discharge
							125	250	500	1000	2000	4000	
150	400	189	0.01	2	0.14	35	45	44	41	33	29	26	-
	300	142	0.01	2	0.08	20	43	38	34	25	-	-	-
	200	94	0.01	2	0.04	10	-	31	24	-	-	-	-
	100	47	0.01	2	0.01	2	-	-	-	-	-	-	-
200	700	330	0.01	2	0.21	52	52	51	47	39	36	33	-
	500	236	0.01	2	0.11	27	45	43	38	29	24	-	-
	350	165	0.01	2	0.05	12	-	34	28	-	-	-	-
	200	94	0.01	2	0.02	5	-	-	-	-	-	-	-
250	1100	519	0.01	2	0.43	107	50	50	46	43	37	34	-
	800	378	0.01	2	0.23	57	47	47	36	30	28	22	-
	500	236	0.01	2	0.09	22	44	40	34	28	-	-	-
	250	118	0.01	2	0.02	5	40	30	-	-	-	-	-
300	1600	755	0.01	2	0.50	124	49	47	45	43	44	40	-
	1200	566	0.01	2	0.28	70	44	40	38	36	36	29	-
	800	378	0.01	2	0.13	32	40	31	25	-	-	-	-
	400	189	0.01	2	0.03	7	-	-	26	-	-	-	-
350	2100	991	0.05	12	0.50	124	60	57	54	48	45	36	-
	1600	755	0.03	7	0.29	70	54	49	44	39	34	24	-
	1050	495	0.01	2	0.12	30	47	37	31	24	-	-	-
	550	260	0.01	2	0.03	7	-	31	-	-	-	-	-
400	2750	1298	0.06	15	0.50	124	66	64	61	56	52	46	21
	2050	967	0.03	7	0.28	70	58	56	51	46	42	34	-
	1375	649	0.01	2	0.13	32	50	45	39	33	27	-	-
	700	330	0.01	2	0.03	7	47	31	-	-	-	-	-