LGB

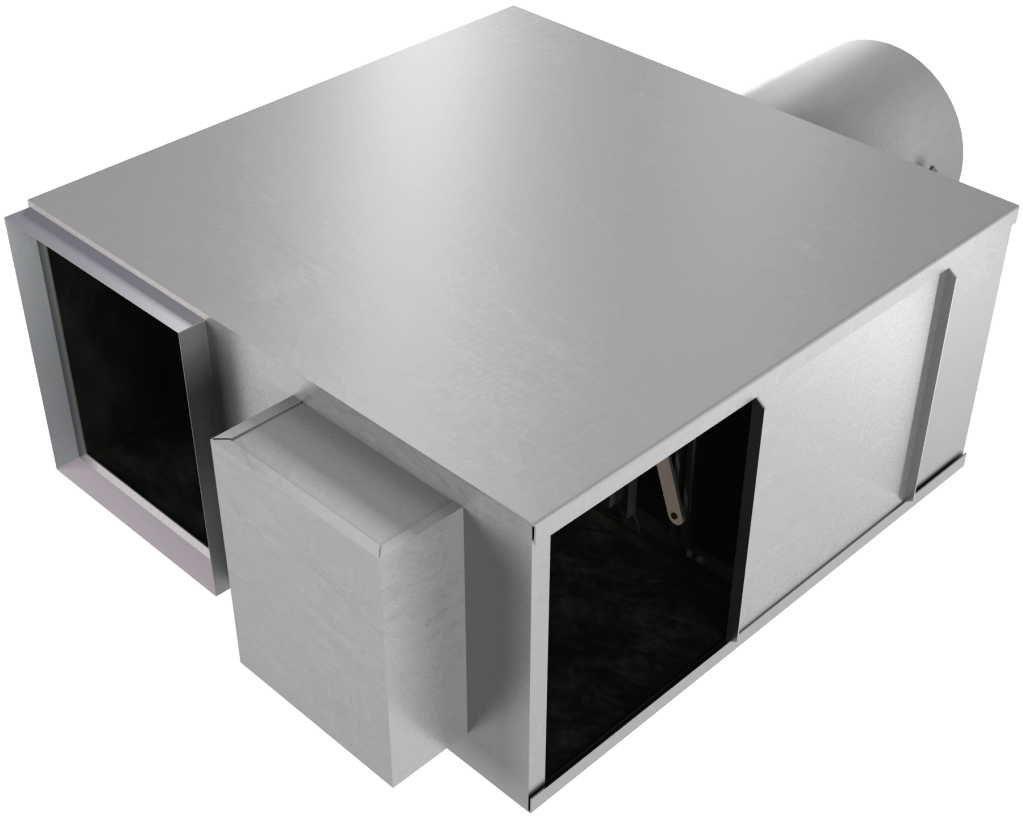
BYPASS TERMINAL UNIT

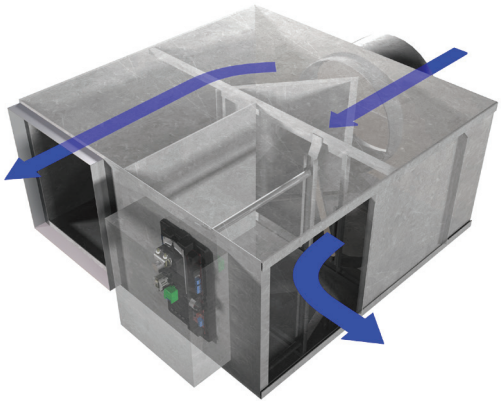


price | TERMINAL UNITS

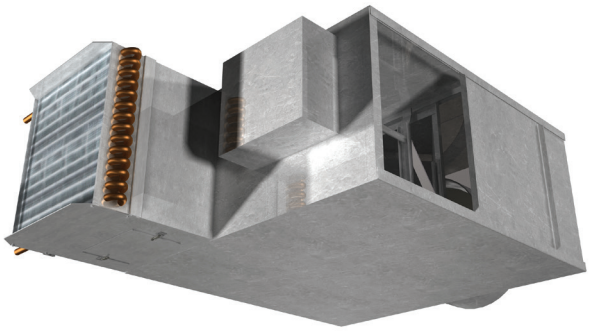
LGB
Bypass Terminal Unit

The Price LGB low pressure gate bypass terminal unit provides complete zoning flexibility from a single zone source. The LGB complements packaged rooftop and low pressure central station units by providing excellent temperature control and central air distribution with unlimited zoning. The added costs of multi-zone systems can be avoided, and the need for duct-mounted heating coils can be minimized.





LGB Airflow



LGB with Hot Water Coil

SYSTEM VERSATILITY

LGB terminal units are appropriate for any low pressure, low velocity systems where zoned capacities are required, providing simple and quick installation, and stress-free modification or relocation to adjust interior requirements. The highly versatile LGB is compatible with packaged units in new buildings, or adds zoned control to areas of older buildings.

HOT WATER REHEAT

Price water coils are constructed from high quality materials and are AHRI 410 certified. Designed to optimize heat transfer, water coils are available in high capacity and oversized configurations to meet the requirements of every project. For ease of maintenance, access doors are included with the LGB water coil.

ATTENUATOR

The LGB is available with a discharge attenuator for a cost-effective solution in applications where additional sound attenuation is required. The attenuators are conveniently available with any of the standard Price liner options.

ACCESSORIES

A variety of additional accessories are offered to meet specific job requirements. Details on these accessories are available in the Terminal Units Accessories catalog.

TYPICAL APPLICATIONS

The LGB bypass unit plays a key role in a variable volume, low pressure, bypass system. The LGB maintains a constant volume of conditioned air to the space while bypassing any supply air not required to satisfy space demand. The bypassed air is either directed into the return air plenum, or ducted back to the roof-top unit.

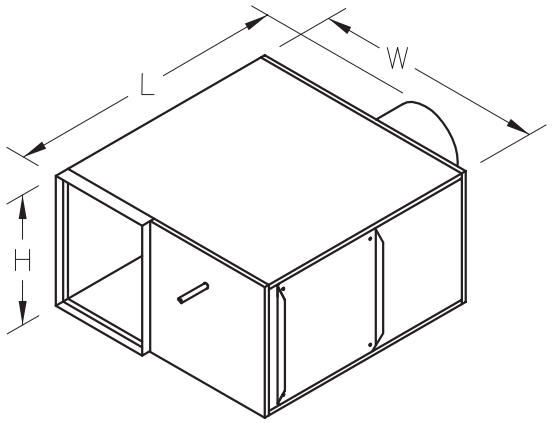
STANDARD DESIGN

+ 22 GA. zinc-coated steel casing
+ Low profile, compact casing
+ Patented high performance sliding gate valve

OPTIONAL FEATURES

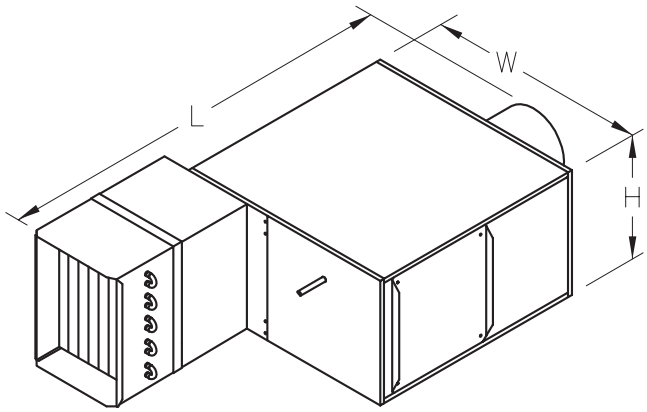
+ Hot water reheat
+ Attenuator for sound sensitive applications
+ Round discharge collar
+ Round bypass collar

DIMENSIONAL DATA



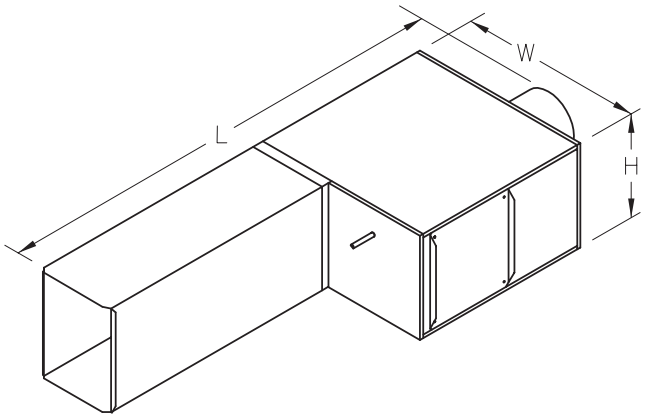
LGB Basic Unit

Size	Length (L)	Width (W)	Height (H)
6	27 3/4 in. (705 mm)	17 in. (432 mm)	10 in. (254 mm)
8			
10	38 1/8 in. (968 mm)	25 in. (635 mm)	14 in. (356 mm)
12			
14	44 3/4 in. (1137 mm)	29 in. (737 mm)	16 in. (406 mm)
16	49 5/8 in. (1260 mm)	33 in. (838 mm)	18 in. (457 mm)



LGB w/ Water Coil

Size	Length (L)	Width (W)	Height (H)
6	37 3/4 in. (959 mm)	17 in. (432 mm)	10 in. (254 mm)
8			
10	48 1/8 in. (1222 mm)	25 in. (635 mm)	14 in. (356 mm)
12			
14	54 3/4 in. (1391 mm)	29 in. (737 mm)	16 in. (406 mm)
16	59 5/8 in. (1514 mm)	33 in. (838 mm)	18 in. (457 mm)



LGB w/ Attenuator

Size	ATT 3ft Length (L)	ATT 5ft Length (L)	Width (W)	Height (H)
6	63 1/4 in. (1607 mm)	86 1/4 in. (2191 mm)	17 in. (432 mm)	10 in. (254 mm)
8				
10	73 5/8 in. (1870 mm)	96 5/8 in. (2454 mm)	25 in. (635 mm)	14 in. (356 mm)
12				
14	80 1/4 in. (2038 mm)	103 1/4 in. (2623 mm)	29 in. (737 mm)	16 in. (406 mm)
16	85 1/8 in. (2162 mm)	108 1/8 in. (2746 mm)	33 in. (838 mm)	18 in. (457 mm)

PERFORMANCE DATA

LGB - Typical Selection Guide

Unit Size	Airflow	Minimum ΔPs				Discharge		Radiated
		Discharge – Basic	Discharge – 1 Row	Discharge – 2 Row	Bypass			
	cfm	in.w.g.	in.w.g.	in.w.g.	in.w.g.	NC(1)	NC(2)	NC
6	100	0.05	0.05	0.05	0.05	--	--	--
	200	0.05	0.05	0.05	0.05	--	--	--
	300	0.05	0.05	0.10	0.05	--	30	--
	400	0.05	0.07	0.16	0.05	--	37	--
8	400	0.05	0.07	0.16	0.09	--	22	--
	500	0.05	0.11	0.23	0.14	--	28	--
	600	0.05	0.15	0.32	0.19	--	32	--
	700	0.05	0.19	0.41	0.26	--	36	--
10	500	0.05	0.06	0.12	0.05	--	--	--
	700	0.05	0.10	0.22	0.05	--	22	--
	900	0.05	0.15	0.33	0.05	--	28	--
	1100	0.05	0.22	0.46	0.05	--	33	--
12	800	0.05	0.13	0.27	0.05	--	--	--
	1000	0.05	0.19	0.40	0.08	--	21	--
	1300	0.05	0.29	0.61	0.13	--	29	--
	1600	0.05	0.42	0.87	0.19	--	35	--
14	1100	0.05	0.13	0.27	0.06	--	--	--
	1400	0.05	0.19	0.41	0.09	--	23	--
	1700	0.05	0.27	0.57	0.14	--	29	--
	2100	0.05	0.39	0.81	0.20	--	35	--
16	1600	0.05	0.13	0.27	0.08	--	--	--
	2000	0.05	0.19	0.40	0.12	--	26	--
	2400	0.05	0.25	0.54	0.17	--	32	--
	2800	0.05	0.33	0.69	0.22	--	37	21

Performance Notes:

1. NCs are derived from sound power levels, which are obtained in accordance with AHRI Standard 880-2017 and ASHRAE Standard 130-2016.
2. NCs are derived from sound power levels which include duct end corrections per AHRI Standard 880 -2017.
3. Blank spaces (--) indicate NCs less than 20.
4. ΔPs is the difference in static pressure from inlet to discharge of the unit.
5. Listed minimum static pressure discharge is the static pressure loss through the unit with 100% airflow through the discharge outlet.
6. Listed minimum static pressure bypass is the static pressure loss through the unit with 100% airflow through the bypass outlet.
7. NC values are calculated based on procedures outlined in AHRI Standard 885-2008, "A Procedure for Estimating Occupied Space Sound Levels in the Application of Air Terminals and Air Outlets."

Radiated NC is based on a 5/8 in. mineral fiber tile ceiling per AHRI 885-2008, Appendix E typical attenuation values.

Radiated Attenuation	Octave Band					
	2	3	4	5	6	7
Total Deductions	18	19	20	26	31	36

(1) Discharge NC is based on environmental effect, duct lining effect, end reflection, flex duct effect and sound power division per AHRI 885-2008 Appendix E typical attenuation factors.

Discharge Attenuation	Octave Band					
	2	3	4	5	6	7
< 300 cfm	24	28	39	53	59	40
300-700 cfm	27	29	40	51	53	39
> 700 cfm	29	30	41	51	52	39

(2) Discharge NC is based on environmental effect and space effect with no attenuation for downstream ductwork. Space effect is based on a room with a volume of 5000 ft³ and the sound source is 5 ft away from the occupant. These calculations are not covered by AHRI 885-2008 Appendix E.

Discharge Attenuation (NC2)	Octave Band Mid Frequency, Hz					
	2	3	4	5	6	7
Total Deductions	9	9	9	9	10	11

LGB - AHRI Certification Rating Points

Unit Size	Rated Airflow	Minimum Operating Pressure Required	Radiated Sound Power Level, dB at 1.5 in. w.g. Octave Band						Discharge Sound Power Level, dB at 1.5 in. w.g. Octave Band					
	cfm	in. w.g.	2	3	4	5	6	7	2	3	4	5	6	7
6	400	0.05	50	48	41	39	33	26	57	56	48	44	41	31
8	700	0.05	50	45	41	38	32	26	59	55	50	45	42	34
10	1100	0.05	49	43	40	36	32	26	58	53	46	44	40	29
12	1600	0.05	50	43	41	36	31	26	58	53	48	45	41	32
14	2100	0.05	50	44	43	37	32	27	59	52	46	45	40	30
16	2800	0.05	53	44	47	38	35	30	63	53	48	45	41	32

Performance Notes:

1. cfm, cubic feet per minute.
2. in. w.g., inches of water gauge.
3. Sound power levels expressed in decibels, (dB) re 10^{-12} watts.

PERFORMANCE DATA

LGB - Radiated and Discharge Sound

Unit Size	Rated Airflow	Sound Power Levels Lw, dB, RE 10^{-12} Watts											
		Radiated Sound Octave Band						Discharge Sound Octave Band					
	cfm	2	3	4	5	6	7	2	3	4	5	6	7
6	100	--	--	--	--	--	--	--	--	--	--	--	--
	200	38	35	26	23	--	--	43	41	31	25	--	--
	300	45	42	35	33	25	18	52	50	41	36	32	22
	400	50	48	41	39	33	26	57	56	48	44	41	31
8	400	38	34	29	24	--	--	48	44	36	29	24	17
	500	43	39	34	30	23	--	52	48	41	35	31	24
	600	47	42	38	34	28	22	56	52	46	41	37	30
	700	50	45	41	38	32	26	59	55	50	45	42	34
10	500	--	--	--	--	--	--	46	36	26	--	--	--
	700	40	34	30	25	21	--	51	43	35	31	25	--
	900	45	39	36	31	27	21	55	48	41	38	33	22
	1100	49	43	40	36	32	26	58	53	46	44	40	29
12	800	36	--	--	--	--	--	42	37	30	26	--	--
	1000	41	33	30	24	--	--	47	42	36	32	25	--
	1300	46	39	36	31	25	20	53	48	43	40	34	25
	1600	50	43	41	36	31	26	58	53	48	45	41	32
14	1100	38	30	27	--	--	--	44	37	30	27	--	--
	1400	42	35	33	27	20	--	50	43	36	34	27	18
	1700	46	39	38	32	26	21	54	47	41	39	33	24
	2100	50	44	43	37	32	27	59	52	46	45	40	30
16	1600	40	32	34	26	21	--	48	39	34	29	23	--
	2000	45	37	39	31	27	22	54	45	40	36	30	21
	2400	49	41	44	35	31	27	59	49	44	41	36	27
	2800	53	44	47	38	35	30	63	53	48	45	41	32

Performance Notes:

1. Test data obtained in accordance with AHRI Standard 880-2017 and ASHRAE Standard 130-2016.
2. AHRI certified data is highlighted in blue. All other data are application ratings.
3. Application ratings are outside the scope of the AHRI 880 Certification Program.
4. Dashes (--) indicate sound power levels below 36-29-26-22-19-17 for each octave band; values below these sound power levels are considered below significance per AHRI 880

PERFORMANCE DATA

LGB - 1 and 2 Row Hot Water Coil Data – IP Units

Model Size 6 and 8

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)					
			100	200	300	400	500	600
1 Row	0.5	0.2	5.2	7.4	8.7	9.6	10.3	10.9
	1	0.59	5.8	8.6	10.4	11.8	12.9	13.8
	2	1.77	6.1	9.3	11.6	13.4	14.8	16
	3	3.37	6.2	9.6	12.1	14	15.6	16.9
	Through the Coil, ΔPs		0.01	0.02	0.05	0.09	0.13	0.18
2 Row	1	0.25	9.2	14	17.2	19.4	21.2	22.6
	2	0.79	9.8	15.8	20	23.3	25.9	28
	4	2.56	10.2	16.9	21.9	25.8	29.1	32
	6	5.16	10.4	17.3	22.6	26.9	30.5	33.6
	Through the Coil, ΔPs		0.01	0.05	0.11	0.18	0.27	0.38

Size 6

Model Size 10 and 12

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)					
			400	600	800	1000	1200	1400
1 Row	1	0.19	12.9	15	16.5	17.6	18.5	19.2
	2	0.61	15	18	20.2	22	23.4	24.6
	4	2.02	16.4	20.1	22.9	25.2	27.1	28.7
	6	4.15	17	21	24.1	26.6	28.7	30.5
	Through the Coil, ΔPs		0.04	0.09	0.15	0.23	0.32	0.42
2 Row	1	0.33	22.4	26.3	29	30.9	32.4	33.6
	2	1	26.7	32.7	37.1	40.5	43.3	45.5
	4	3.16	29.6	37.3	43.2	48	51.9	55.3
	6	6.27	30.7	39.1	45.7	51.2	55.7	59.6
	Through the Coil, ΔPs		0.09	0.19	0.32	0.48	0.66	0.88

Size 10

Model Size 14

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)					
			1100	1300	1500	1700	1900	2100
1 Row	1	0.23	21.2	22.2	23	23.7	24.3	24.8
	2	0.72	26.7	28.4	29.8	31	32	33
	4	2.36	30.8	33.1	35	36.7	38.2	39.6
	6	4.77	32.6	35.1	37.3	39.2	40.9	42.5
	Through the Coil, ΔPs		0.15	0.21	0.27	0.33	0.41	0.49
2 Row	1	0.41	35.7	37.3	38.5	39.5	40.4	41.2
	2	1.24	47.8	50.8	53.3	55.5	57.4	59
	4	3.84	57.3	61.8	65.7	69.1	72.1	74.8
	6	7.52	61.3	66.5	71.1	75.2	78.8	82.1
	Through the Coil, ΔPs		0.32	0.43	0.56	0.7	0.86	1.03

Model Size 16

Rows	Coil gpm	HD Loss	Airflow Rate (cfm)					
			1700	1900	2100	2300	2500	2700
1 Row	1	0.29	28.2	29	29.6	30.2	30.7	31.1
	2	0.9	37.3	38.7	39.9	41	42	42.9
	4	2.85	44.5	46.5	48.3	49.9	51.5	52.8
	6	5.69	47.6	49.9	52	53.9	55.7	57.3
	Through the Coil, ΔPs		0.17	0.21	0.25	0.29	0.34	0.39
2 Row	1.5	0.43	53.5	55	56.3	57.5	58.5	59.4
	3	1.36	71.7	74.7	77.3	79.7	81.8	83.7
	6	4.45	86.1	90.5	94.5	98.2	101.5	104.6
	9	9.01	92.2	97.4	102.1	106.4	110.4	114.1
	Through the Coil, ΔPs		0.36	0.44	0.52	0.62	0.72	0.82

Performance Notes:

1. Tabulated values are in MBH (thousands of Btu per hour).
2. Minimum air and water values are based on ASHRAE recommendations for coil selection. For selections outside these tabulated air or water flow values, please consult your local Price representative.
3. HD (head) loss is in ft of water.
4. ΔPs, is the pressure drop in in. of water across the coil.
5. Values in tables are listed for 0 ft of altitude and no glycol in the system.
6. Reheat coils used in this unit have performance rated and certified in accordance with the current edition of AHRI Standard 410.

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