LDV

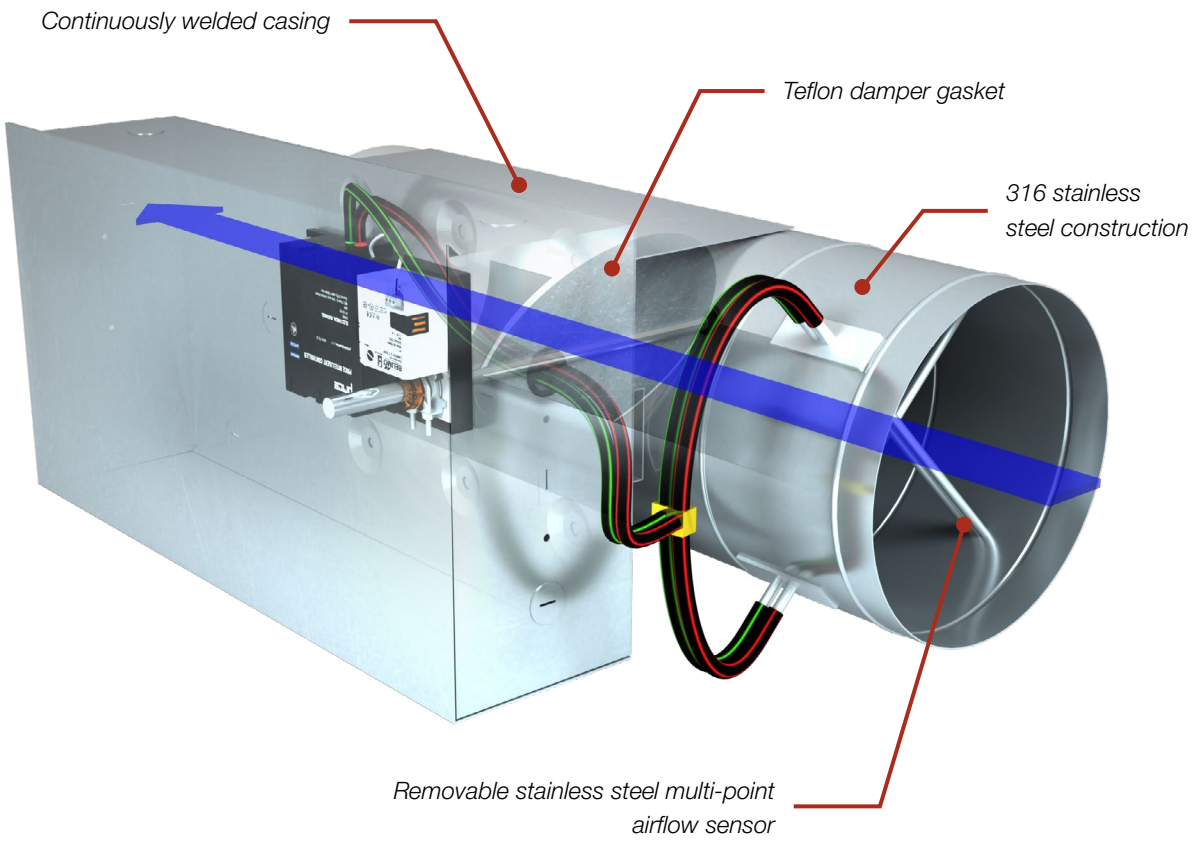
LABORATORY GRADE EXHAUST VALVE



price | TERMINALS

LDV
Laboratory Grade Exhaust Valve

The LDV laboratory grade exhaust valve features fully welded, 316 stainless steel construction to withstand airborne contaminants and corrosives in the most demanding applications.

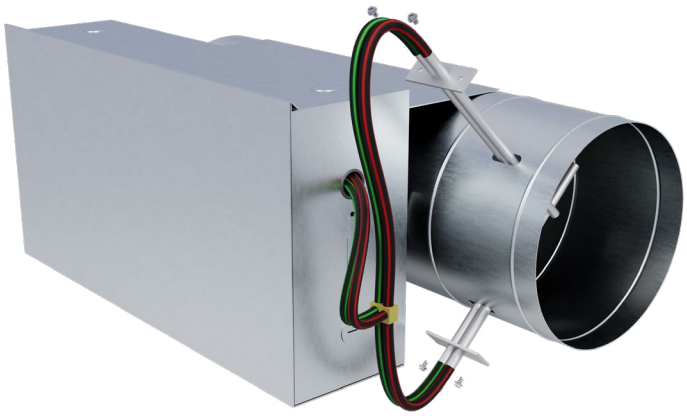


STAINLESS STEEL CONSTRUCTION

The leak-resistant LDV casing is fabricated with 20 GA. type 316 stainless steel and a continuously welded seam, providing reliable air volume control for harsh environments, such as fume hood exhausts that require superior corrosion resistance.

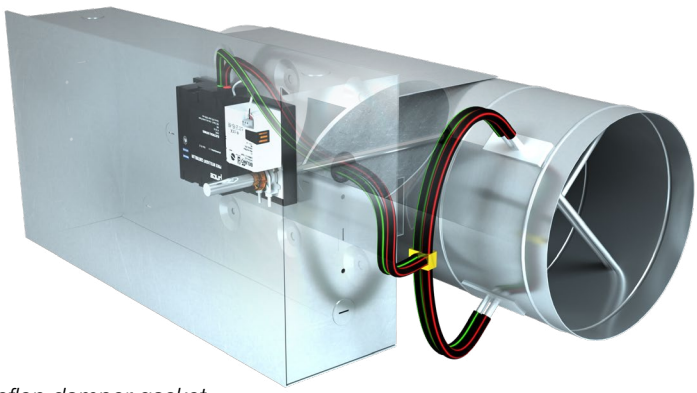
REMOVABLE STAINLESS STEEL FLOW SENSOR

Each unit is supplied with a removable stainless steel multipoint flow sensor to deliver accurate measurement of average duct velocity pressure. The removable stainless steel airflow sensor ensures ease of access to the sensor for periodic cleaning or replacement.



TEFLON BEARINGS AND DAMPER GASKET

Teflon is inert to most chemicals and high temperatures, making it a superior choice for the damper gasket and bearing material.



Teflon damper gasket

TYPICAL APPLICATIONS

The LDV laboratory grade exhaust valve is a round duct terminal unit designed for exhaust in environments where corrosion and contaminants in the airstream are a concern.

The LDV features stainless steel construction that can be welded in place without distortion of the unit and provides excellent corrosion resistance.

STANDARD DESIGN

+ Continuously welded, 20 GA. type 316 stainless steel construction for corrosion resistance
+ Stainless steel damper shaft
+ Teflon bearings and damper gasket for chemical compatibility
+ Removable stainless steel multi-point airflow sensor

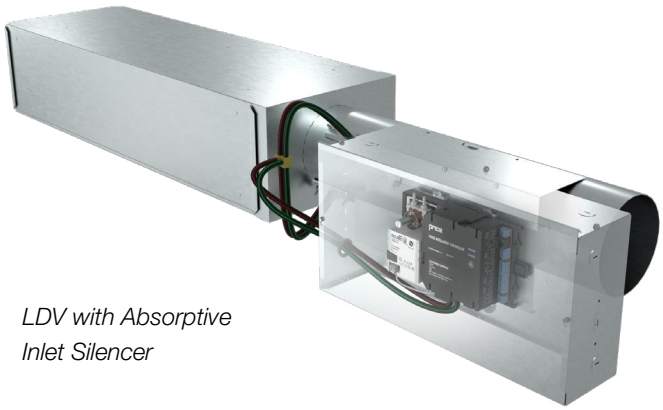
OPTIONAL FEATURES

+ Inlet silencer
+ NEMA 1 controls enclosure in stainless or galvanized steel
+ Vertical flow, up or down
+ Orifice ring flow sensor

QUIET CONSTRUCTION

Price offers an integrated, tuned inlet silencer to provide excellent sound attenuation for noise-sensitive applications.

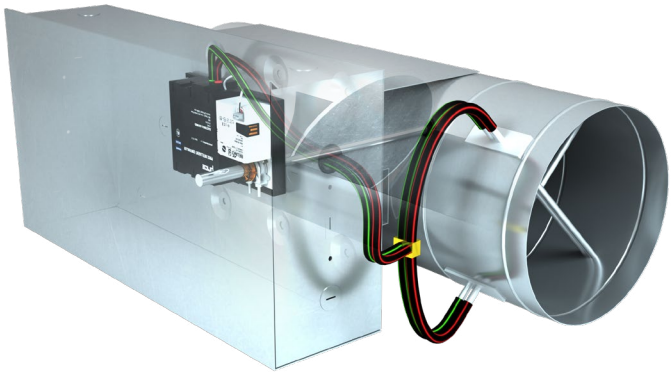
An absorptive silencer constructed entirely of stainless steel, is available for applications where corrosive gases are present. Price offers a tuned Inlet Silencer assembly to maximize the sound control characteristics of the silencer and minimize system effect. The silencer can be selected with polymer film (PL) or woven fiberglass cloth (FC) liner for additional isolation of the fiberglass media.



LDV with Absorptive Inlet Silencer

CONTROLS

Price offers a complete line of controls to best suit any application. For exceptional user comfort, the Price Intelligent Controller (PIC) universal DDC control package is available factory installed and configured on all LDV units. The PIC can be used in conjunction with any Price thermostat to match the specific needs of the customer and provide excellent energy efficiency.

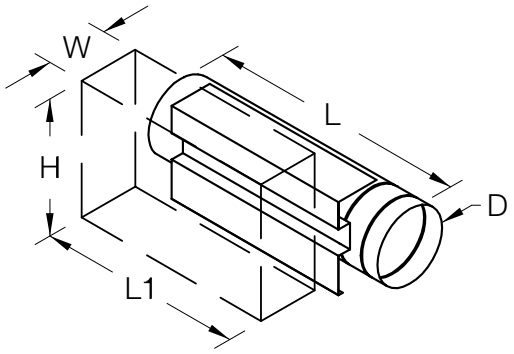


LDV with Price Controls

ACCESSORIES

A variety of additional accessories are offered to meet specific job requirements. For information on these accessories please refer to the Terminal Units Accessories catalog.

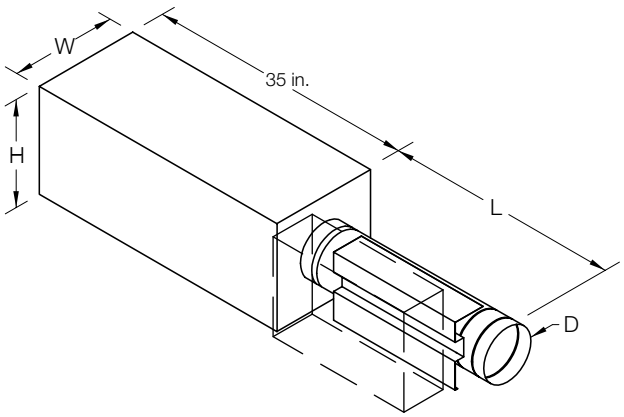
DIMENSIONAL DATA



LDV Basic Unit

Size	Diameter (D)	Length (L)	Enclosure Length (L1)	Enclosure Width (W)	Enclosure Height (H)
6	5 7/8 in.	26 in.	18 1/2 in.	4 3/4 in.	9 1/2 in.
7	6 7/8 in.				
8	7 7/8 in.				
9	8 7/8 in.	28 in.			
10	9 7/8 in.				
12	11 7/8 in.				
14	13 7/8 in.	30 in.			
16	15 7/8 in.				

Mounting plate included is 1 1/4 in. (32 mm) wide



LDV w/ Absorptive Silencer

Size	Diameter (D)	Width (W)	Height (H)	Length (L)
6	5 7/8 in.	12 in.	8 in.	24 in.
7	6 7/8 in.		10 in.	
8	7 7/8 in.			
9	8 7/8 in.	14 in.	12 1/2 in.	26 in.
10	9 7/8 in.			
12	11 7/8 in.	16 in.	15 in.	
14	13 7/8 in.	20 in.	17 1/2 in.	28 in.
16	15 7/8 in.	24 in.	18 in.	

Mounting plate included is 1 1/4 in. (32 mm) wide

PERFORMANCE DATA

LDV – Recommended Air Volume Ranges

Digital Controls*

Unit Size	LDV cfm Min. – Max.
6	95- 450
7	135 – 650
8	170 – 800
9	220- 1050
10	270 – 1350
12	380 – 2100
14	500 – 3000
16	650 – 4000

Notes:
Factory calibrated controls must be selected within the above flow range limits. A minimum value of zero is also available. When an auxiliary flow setting is specified, the value must be greater than the minimum setting and within the range limits.
On controls mounted by Price but supplied by others, the air volume ranges are guidelines only.
*Selection of airflow limits below the listed values is not recommended. Stability and accuracy may not be acceptable at lower than recommended airflow limits. The actual performance will vary depending on the terminal unit controls supplied.
*Minimum airflow limit is based on min .02 in. w.g. differential pressure signal from airflow sensor. Selection of airflow limits below the listed values is not recommended. Stability and accuracy may not be acceptable at lower than recommended airflow limits. The actual performance will vary depending on the terminal unit controls supplied. Maximum airflow limit is based on max 1.0 in.w.g. differential pressure signal from the airflow sensor.

LDV – Minimum Operating Pressure

Unit Size	Airflow cfm	Min. ΔPs in. w.g.
6	200	0.04
	250	0.08
	350	0.15
	450	0.22
7	250	0.02
	350	0.06
	450	0.1
	550	0.14
	650	0.18
8	400	0.03
	500	0.05
	600	0.07
	700	0.09
	800	0.11
9	450	0.02
	650	0.04
	850	0.07
	1050	0.1
10	550	0.02
	650	0.04
	850	0.07
	1150	0.1
	1350	0.13

Unit Size	Airflow cfm	Min. ΔPs in. w.g.
12	900	0.01
	1300	0.03
	1500	0.04
	1700	0.05
14	1000	0.01
	1500	0.03
	2000	0.06
	2500	0.09
	3000	0.11
16	1500	0.01
	2000	0.03
	2500	0.06
	3000	0.08
	3500	0.1
	4000	0.12

Performance Notes:
1. Test data obtained in accordance with AHRI Standard 880-2017 and ASHRAE Standard 130-2016.

PERFORMANCE DATA

LDV – Discharge Sound Data (Supply)

Unit Size	Inlet Area	Airflow	Velocity	Sound Power Levels Lw dB Re 10^{-12} Watts																							
				0.5 in. w.g. [125 Pa] Octave Band						1.0 in. w.g. [250 Pa] Octave Band						1.5 in. w.g. [375 Pa] Octave Band						3.0 in. w.g. [750 Pa] Octave Band					
		cfm		2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
6	0.196	200	1020	64	60	52	47	42	38	68	64	56	51	47	44	73	68	61	55	51	50	75	70	64	57	54	53
	0.196	250	1276	66	63	54	51	45	41	70	67	59	54	49	46	75	71	64	58	54	52	78	73	66	60	56	56
	0.196	350	1786	70	67	58	55	48	44	74	72	63	59	53	50	79	76	67	62	58	56	81	78	70	64	60	59
	0.196	450	2296	72	71	61	59	51	47	77	75	65	62	56	52	81	79	70	66	60	58	84	82	73	68	63	62
7	0.267	250	936	63	54	50	48	45	40	67	58	55	52	50	46	72	63	59	55	54	52	75	66	62	57	57	55
	0.267	350	1311	66	58	54	53	48	43	71	63	59	56	53	49	76	67	63	60	58	55	78	70	66	62	60	58
	0.267	450	1685	68	61	57	56	51	46	73	66	62	59	55	51	78	70	66	63	60	57	81	73	69	65	63	61
	0.267	550	2060	70	64	59	58	53	47	75	68	64	62	57	53	80	73	69	65	62	59	83	76	71	67	65	62
	0.267	650	2434	72	66	61	61	54	49	77	71	66	64	59	55	82	75	71	67	64	60	84	78	73	69	66	64
8	0.349	400	1146	64	56	52	50	46	42	69	61	57	53	50	48	74	66	61	57	55	54	77	69	64	59	58	57
	0.349	500	1433	67	59	55	53	48	43	72	64	60	57	53	50	76	69	64	60	57	56	79	72	67	62	60	59
	0.349	600	1719	69	61	58	56	50	45	73	66	62	59	55	51	78	71	67	63	60	57	81	74	69	65	62	61
	0.349	700	2006	70	63	60	58	52	46	75	68	64	62	57	52	80	73	69	65	61	58	83	76	71	67	64	62
	0.349	800	2292	71	65	61	60	53	47	76	70	66	64	58	53	81	75	70	67	63	60	84	78	73	69	66	63
9	0.442	450	1018	62	52	51	44	44	42	66	57	55	48	49	47	71	61	58	52	53	53	73	64	61	54	56	56
	0.442	650	1471	66	57	56	49	48	45	70	62	60	53	53	50	74	66	63	57	57	56	77	69	66	59	60	59
	0.442	850	1923	68	61	59	52	51	47	73	65	63	56	55	52	77	70	67	60	60	58	80	72	69	62	62	61
	0.442	1050	2376	71	64	62	54	53	49	75	68	66	58	57	54	79	73	70	63	62	60	82	75	72	65	65	63
10	0.545	550	1009	63	55	50	44	46	46	68	59	54	48	51	52	72	64	58	53	55	58	75	66	60	55	57	61
	0.545	750	1376	66	59	54	47	49	48	71	64	58	52	54	54	75	68	62	56	58	60	78	71	65	59	60	63
	0.545	950	1743	69	62	58	50	52	49	73	67	62	55	56	55	77	71	66	59	60	61	80	74	68	62	63	65
	0.545	1150	2110	71	65	60	53	54	51	75	70	64	57	58	56	79	74	68	62	62	62	82	77	70	64	65	66
	0.545	1350	2477	72	67	63	55	55	51	77	72	66	59	60	57	81	76	70	63	64	63	84	79	73	66	66	67
12	0.785	900	1146	63	54	52	47	46	44	68	59	56	51	50	50	72	63	59	55	55	56	75	66	61	57	58	60
	0.785	1300	1656	68	58	57	52	50	47	72	63	61	56	54	53	76	68	64	60	59	59	79	71	66	62	62	63
	0.785	1500	1911	69	60	59	54	51	48	74	65	63	58	56	54	78	70	66	62	61	60	81	72	69	64	64	64
	0.785	1700	2166	71	62	61	55	53	49	75	66	64	60	58	55	80	71	68	64	62	61	82	74	70	66	65	65
	0.785	2100	2675	73	64	64	58	55	51	78	69	67	62	60	57	82	74	71	66	65	63	85	77	73	69	67	66
14	1.069	1000	935	58	51	49	45	45	44	63	56	53	49	50	49	67	60	57	54	55	54	70	63	59	56	58	57
	1.069	1500	1403	63	56	55	50	49	47	68	60	59	54	54	52	72	65	63	59	59	57	75	68	65	61	62	60
	1.069	2000	1871	67	59	59	54	52	49	71	64	63	58	57	54	76	69	67	62	62	59	79	72	69	65	65	62
	1.069	2500	2339	70	62	62	56	54	51	74	67	66	61	60	56	79	71	70	65	65	61	81	74	72	68	68	64
	1.069	3000	2806	72	64	64	59	56	52	76	69	68	63	61	57	81	74	72	67	67	62	84	76	75	70	69	66
16	1.396	1500	1074	59	53	51	47	49	47	64	58	55	52	54	52	68	62	59	57	59	57	71	65	62	60	62	59
	1.396	2000	1433	63	57	55	50	51	49	67	61	59	55	56	54	72	66	63	60	61	58	74	69	66	63	64	61
	1.396	2500	1791	66	60	58	53	53	50	70	64	62	58	58	55	74	69	66	63	63	60	77	72	69	66	66	63
	1.396	3000	2149	68	62	61	55	55	51	72	67	65	60	60	56	77	71	69	65	65	61	79	74	71	68	68	64
	1.396	3500	2507	70	64	63	56	56	52	74	68	67	62	61	57	79	73	71	67	66	62	81	76	73	70	69	65
	1.396	4000	2865	71	66	65	58	57	53	76	70	69	63	62	58	80	75	73	68	67	63	83	78	75	71	70	65

Performance Notes:

1. Test data obtained in accordance with AHRI Standard 880-2017 and ASHRAE Standard 130-2016.
2. Sound power levels include duct end corrections per AHRI Standard 880-2017.

PERFORMANCE DATA

LDV – Inlet Sound Data (Exhaust)

Unit Size	Airflow	Sound Power Levels Lw dB Re 10^{-12} Watts																							
		0.5 in. w.g. [125 Pa] Octave Band						1.0 in. w.g. [250 Pa] Octave Band						1.5 in. w.g. [375 Pa] Octave Band						3.0 in. w.g. [750 Pa] Octave Band					
	cfm	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
6	200	67	61	53	50	44	40	71	64	57	52	47	44	73	66	59	54	50	47	77	70	63	57	53	51
	250	70	64	56	53	46	42	74	68	60	55	50	47	76	70	62	57	52	49	80	73	66	59	56	54
	350	74	69	60	57	50	46	78	72	64	60	54	50	80	74	66	61	56	53	84	78	70	64	60	57
	450	77	72	63	60	53	49	81	76	67	63	56	53	83	78	69	64	59	56	87	81	73	67	62	60
7	250	67	60	52	49	43	38	70	64	56	52	47	44	73	66	58	54	50	47	76	70	62	57	55	52
	350	71	64	56	53	47	42	74	68	60	56	51	47	77	70	62	58	54	51	80	74	66	61	58	56
	450	74	67	59	56	49	45	78	71	63	59	54	50	80	73	65	61	56	53	83	77	69	64	61	59
	550	76	69	62	58	51	47	80	73	66	62	56	52	82	76	68	63	59	56	86	80	72	67	63	61
	650	78	71	64	60	53	49	82	75	68	64	58	54	84	78	70	65	60	57	88	82	74	69	65	63
8	400	70	62	56	52	46	41	73	66	60	56	51	47	75	68	62	58	54	51	79	73	66	61	58	56
	500	72	64	58	55	49	44	76	69	62	58	53	50	78	71	65	60	56	53	82	75	69	64	61	59
	600	75	67	61	57	51	46	78	71	65	61	55	52	80	73	67	62	58	55	84	78	71	66	63	61
	700	77	68	62	59	52	47	80	73	66	62	57	53	82	75	69	64	60	57	86	79	73	68	65	63
	800	78	70	64	61	54	49	82	74	68	64	59	55	84	77	70	66	61	58	88	81	74	69	66	64
9	450	67	60	55	49	45	41	71	64	59	53	50	46	73	66	61	55	53	49	77	70	65	58	57	55
	650	72	64	60	54	49	45	75	68	63	57	54	50	78	71	66	59	57	53	81	75	70	62	61	59
	850	75	68	63	57	52	47	79	72	67	60	57	53	81	74	69	62	60	56	85	78	73	66	64	61
	1050	78	70	65	60	55	50	81	74	69	63	59	55	83	76	72	65	62	58	87	80	75	68	66	64
10	550	66	60	55	48	45	40	70	64	58	52	50	46	72	67	61	55	53	49	76	71	64	59	58	55
	750	70	64	59	52	48	43	74	68	62	56	53	49	76	70	65	58	56	53	80	74	68	62	61	58
	950	73	66	62	54	51	46	77	70	65	58	56	52	79	73	68	61	59	55	83	77	71	65	64	61
	1150	75	68	64	57	53	48	79	73	68	61	58	54	81	75	70	63	61	57	85	79	74	67	66	63
	1350	77	70	66	58	55	49	81	74	70	63	60	55	83	77	72	65	62	59	87	81	76	69	67	65
12	900	67	60	56	50	48	44	71	64	59	53	52	49	74	66	61	56	55	52	78	71	64	59	59	57
	1300	72	64	61	54	52	48	76	68	64	58	56	53	78	71	66	60	59	56	82	75	69	64	63	61
	1500	73	66	63	56	54	50	77	70	66	60	58	55	80	72	68	62	60	57	84	76	71	66	65	62
	1700	75	67	65	58	55	51	79	71	68	61	59	56	81	74	70	63	62	59	85	78	73	67	66	64
	2100	78	69	67	60	57	54	82	74	71	64	62	58	84	76	72	66	64	61	88	80	76	70	68	66
14	1000	62	55	51	49	50	45	66	59	54	53	54	50	69	62	55	54	57	53	73	66	58	58	61	58
	1500	67	60	58	55	54	49	71	64	60	58	59	54	74	67	62	60	61	57	77	71	64	63	65	62
	2000	71	64	62	58	57	52	75	68	65	61	62	57	77	71	66	63	64	60	81	75	69	66	68	64
	2500	74	67	66	61	60	54	78	71	68	64	64	59	80	74	70	66	66	62	84	78	72	69	71	67
	3000	76	70	69	63	62	56	80	74	71	67	66	61	82	76	73	68	68	64	86	80	75	72	73	68
16	1500	63	57	54	50	48	46	68	62	57	53	52	51	70	64	59	55	54	53	75	68	62	58	57	57
	2000	67	61	59	53	52	49	71	65	61	57	55	53	74	68	63	59	57	56	78	72	66	62	61	60
	2500	69	64	62	56	55	51	74	68	65	60	58	55	77	70	66	61	60	58	81	75	69	65	64	62
	3000	72	66	64	59	57	53	76	70	67	62	60	57	79	73	69	64	62	60	83	77	72	67	66	64
	3500	74	68	67	61	59	54	78	72	70	64	62	58	81	74	71	66	64	61	85	79	74	69	68	65
	4000	75	69	69	62	60	55	80	74	72	66	64	60	82	76	73	68	66	62	87	80	76	71	69	66

Performance Notes:

1. Test data obtained in accordance with AHRI Standard 880-2017 and ASHRAE Standard 130-2016.
2. Sound power levels include duct end corrections per AHRI Standard 880-2017.
3. Asterisks (*) indicate minimum static pressure of the unit exceeds the minimum operating pressure across the unit.

PERFORMANCE DATA

LDV – Radiated Sound Data

Unit Size	Airflow	Sound Power Levels Lw dB Re 10^{-12} Watts																							
		0.5 in. w.g. [125 Pa] Octave Band						1.0 in. w.g. [250 Pa] Octave Band						2.0 in. w.g. [500 Pa] Octave Band						3.0 in. w.g. [750 Pa] Octave Band					
	cfm	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
6	200	38	33	32	33	31	28	42	35	36	37	37	35	46	38	40	41	43	42	48	40	42	44	47	46
	250	39	34	35	35	32	29	43	37	39	39	38	36	47	40	42	43	45	43	49	42	45	46	48	47
	350	40	37	38	38	34	31	44	40	42	42	40	38	48	43	46	46	47	44	50	45	48	49	50	48
	450	41	40	40	40	36	32	45	42	44	44	42	39	49	45	48	48	48	46	51	47	50	51	52	50
7	250	28	28	31	33	32	28	35	31	34	36	37	35	42	35	38	39	42	42	46	37	40	41	45	46
	350	31	32	35	37	34	30	38	36	39	39	39	37	45	39	43	42	45	44	49	41	45	44	47	48
	450	34	35	39	39	36	31	41	39	42	42	41	38	48	43	46	45	46	45	52	45	48	47	49	49
	550	36	38	41	41	38	32	43	41	45	44	43	39	50	45	48	47	48	46	54	47	51	49	51	51
	650	38	40	43	43	39	33	45	44	47	46	44	40	52	47	51	49	49	47	56	49	53	50	52	52
8	400	37	30	36	33	34	29	42	35	39	37	40	36	47	39	43	41	46	44	50	42	45	43	50	48
	500	39	33	38	35	35	30	44	37	42	39	42	38	49	42	46	43	48	45	52	44	48	45	52	50
	600	40	35	40	37	37	31	45	39	44	41	43	39	50	44	48	45	50	46	53	46	50	47	53	51
	700	42	36	42	39	38	32	46	41	46	43	44	40	51	45	50	46	51	47	54	48	52	49	54	52
	800	43	38	44	40	39	33	47	42	48	44	45	41	52	47	51	48	52	48	55	49	54	50	56	53
9	450	39	30	36	35	34	30	41	33	38	38	39	38	43	35	40	41	45	45	45	37	42	43	49	49
	650	43	36	41	38	36	32	45	38	43	41	42	39	47	41	46	45	48	47	49	42	47	46	51	51
	850	46	39	45	41	38	33	48	42	47	44	44	40	50	44	49	47	49	48	52	46	51	49	53	52
	1050	48	42	48	43	39	34	50	45	50	46	45	41	53	47	52	49	51	49	54	49	54	51	54	53
10	550	41	33	36	36	36	30	44	36	40	40	41	37	47	38	43	44	47	44	49	40	45	47	51	48
	750	43	37	40	38	38	32	46	40	43	43	44	39	49	42	47	47	50	46	51	44	49	50	54	50
	950	44	40	43	40	40	33	47	43	46	45	46	40	50	46	50	49	52	49	52	47	52	52	56	52
	1150	45	43	45	42	42	34	48	45	48	47	48	42	51	48	52	51	54	49	53	50	54	54	57	53
	1350	46	45	47	44	43	35	49	48	50	48	49	43	52	50	54	52	55	50	54	52	56	55	59	54
12	900	38	37	35	33	32	29	43	39	39	37	38	36	47	41	42	41	44	44	50	42	44	44	48	48
	1300	41	41	40	37	35	32	45	43	43	41	41	39	50	45	47	46	47	46	52	47	49	48	51	50
	1700	43	44	44	40	38	34	47	46	47	44	44	41	52	48	50	49	50	48	54	50	52	51	53	52
	1900	44	46	45	41	39	35	48	48	49	45	45	42	53	50	52	50	51	49	55	51	54	52	54	53
	2100	45	47	47	42	40	36	49	49	50	47	46	43	53	51	53	51	52	50	56	52	55	53	55	54
14	1000	40	34	38	36	35	32	43	39	43	42	41	38	46	44	47	47	46	45	48	47	50	50	50	49
	1500	44	38	42	40	38	34	48	43	47	45	44	41	51	48	51	51	50	48	53	50	54	54	53	52
	2000	47	41	45	42	40	36	51	46	50	48	46	43	54	50	54	53	52	49	56	53	57	56	55	53
	2500	50	43	47	44	41	38	53	48	52	50	47	44	56	53	56	55	53	51	58	55	59	58	57	55
	3000	52	45	49	46	43	39	55	50	54	51	49	45	59	54	58	57	55	52	60	57	61	60	58	56
16	1500	41	37	40	40	39	36	44	42	45	44	44	42	48	48	50	48	49	48	50	51	52	51	53	52
	2000	44	40	44	42	42	38	48	45	49	47	47	44	52	51	53	51	52	50	54	54	56	54	55	54
	2500	47	43	47	45	44	39	51	48	51	49	49	45	54	53	56	53	54	52	56	56	59	56	57	55
	3000	49	45	49	46	45	40	53	50	54	51	50	47	57	55	58	55	55	53	59	58	61	58	58	57
	3500	51	46	51	48	46	41	55	51	56	52	52	48	58	56	60	57	57	54	61	59	63	59	60	58
	4000	53	48	53	49	48	42	57	53	57	54	53	49	60	58	62	58	58	55	62	61	65	60	61	59

Performance Notes:

1. Test data obtained in accordance with AHRI Standard 880-2017 and ASHRAE Standard 130-2016.
2. Sound power levels include duct end corrections per AHRI Standard 880-2017.

PERFORMANCE DATA

LDV with Silencer Recommended Air Volume Ranges

Digital Controls*

Unit Size	LDV w/SLR cfm Min. – Max.
6	95 – 450
7	135 – 650
8	170 – 800
9	220 – 1050

Unit Size	LDV w/SLR cfm Min. – Max.
10	270 – 1350
12	380 – 2100
14	500 – 3000
16	650 – 4000

Notes:
Factory calibrated controls must be selected within the above flow range limits. A minimum value of zero is also available. When an auxiliary flow setting is specified, the value must be greater than the minimum setting and within the range limits.
On controls mounted by Price but supplied by others, the air volume ranges are guidelines only.
* Selection of airflow limits below the listed values is not recommended. Stability and accuracy may not be acceptable at lower than recommended airflow limits. The actual performance will vary depending on the terminal unit controls supplied.
* Minimum airflow limit is based on min .02 in. w.g. differential pressure signal from airflow sensor. Selection of airflow limits below the listed values is not recommended. Stability and accuracy may not be acceptable at lower than recommended airflow limits. The actual performance will vary depending on the terminal unit controls supplied. Maximum airflow limit is based on max 1.0 in. w.g. differential pressure signal from the airflow sensor.

LDV with Silencer Minimum Operating Pressure

Absorptive

Unit Size	Airflow cfm	Min. ΔPs in. w.g.
6	200	0.07
	250	0.11
	350	0.2
	450	0.31
7	250	0.05
	350	0.08
	450	0.13
	550	0.19
	650	0.25
8	400	0.05
	500	0.08
	600	0.11
	700	0.14
	800	0.18
9	450	0.03
	650	0.07
	850	0.11
	1050	0.16
10	550	0.02
	750	0.04
	950	0.07
	1150	0.11
	1350	0.15
12	900	0.02
	1300	0.05
	1500	0.07
	1700	0.09
	2100	0.13
14	1000	0.02
	1500	0.04
	2000	0.07
	2500	0.11
	3000	0.16
16	1500	0.01
	2000	0.02
	2500	0.04
	3000	0.06
	3500	0.09
	4000	0.13

Performance Notes:
1. Test data obtained in accordance with AHRI Standard 880-2017 and ASHRAE Standard 130-2016.

PERFORMANCE DATA

LDV with Silencer - Inlet Sound Data

Fiber Glass Silencer (Exhaust)

Unit Size	Airflow	Sound Power Levels Lw dB Re 10^{-12} Watts																							
		0.5 in. w.g. [125 Pa] Octave Band						1.0 in. w.g. [250 Pa] Octave Band						1.5 in. w.g. [375 Pa] Octave Band						3.0 in. w.g. [750 Pa] Octave Band					
	cfm	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
6	200	54	39	28	23	19	17	57	43	27	22	19	22	59	45	27	21	19	24	62	49	27	22	19	28
	250	56	42	33	29	22	23	59	46	32	28	21	26	61	49	32	27	21	28	64	53	31	25	20	31
	350	59	47	40	38	33	28	62	51	39	37	32	32	64	54	39	36	32	34	67	58	38	34	31	37
	450	61	51	45	45	42	33	64	55	44	43	41	36	66	57	44	42	40	38	69	61	43	41	40	41
7	250	53	39	25	21	19	17	58	43	26	22	19	22	60	45	27	22	19	24	64	49	28	22	19	28
	350	57	43	32	29	23	24	61	47	33	29	25	28	64	49	33	29	26	30	68	53	34	29	27	34
	450	59	47	37	36	30	29	64	50	38	35	31	32	66	53	38	35	32	35	70	57	39	35	34	39
	550	62	49	41	40	35	32	66	53	42	40	36	36	68	55	43	40	37	38	73	59	43	40	39	42
	600	62	50	43	43	37	34	67	54	44	43	39	38	69	57	44	42	40	40	73	61	45	42	41	44
8	400	59	40	30	27	--	23	64	44	32	28	21	26	66	46	32	28	23	28	71	50	34	28	24	32
	500	61	43	35	32	26	27	65	47	36	33	28	31	68	49	37	33	29	33	73	53	38	33	31	37
	600	62	46	38	37	31	31	67	50	40	37	33	34	70	52	41	37	34	36	74	56	42	37	36	40
	700	63	48	42	40	36	34	68	52	43	40	37	37	71	54	44	41	38	40	76	58	45	41	40	43
	800	64	50	44	43	39	36	69	53	46	44	41	40	72	56	47	44	42	42	77	60	48	44	44	46
9	450	58	41	30	24	21	23	62	45	31	24	23	27	65	47	31	24	23	29	69	51	32	23	25	33
	650	62	46	37	33	30	29	66	50	38	33	32	33	68	52	39	33	33	36	73	56	40	33	34	39
	850	64	49	43	39	37	34	69	53	44	39	39	38	71	55	44	39	40	40	75	59	45	39	41	44
	1050	67	52	47	45	43	38	71	56	48	45	44	42	73	58	48	44	45	44	78	62	49	44	46	48
10	550	57	42	28	22	22	23	62	46	30	23	25	28	65	49	32	24	27	30	70	53	34	25	31	35
	750	61	47	35	30	29	28	66	51	37	31	32	33	68	53	38	32	34	36	73	57	40	33	37	41
	950	63	50	39	36	34	33	68	54	41	37	37	37	71	56	43	38	39	40	76	60	45	39	42	45
	1150	66	53	43	41	38	36	70	57	45	42	41	41	73	59	46	42	43	44	78	63	48	43	46	48
	1350	67	55	46	45	41	39	72	59	48	46	45	44	75	61	50	46	47	46	80	65	52	47	50	51
12	900	58	45	31	28	29	31	63	50	33	31	33	35	65	52	34	32	35	37	70	57	36	35	38	41
	1300	62	50	38	35	35	36	67	54	40	38	39	40	69	57	41	39	41	42	74	61	43	41	44	46
	1500	64	51	41	38	38	38	68	56	43	40	41	42	71	58	44	42	43	44	76	63	46	44	46	48
	1700	65	53	43	40	40	39	70	57	45	43	43	43	72	60	46	44	45	46	77	64	48	46	48	49
	2000	67	55	46	43	43	42	72	59	48	46	46	46	74	61	49	47	48	48	79	66	52	49	51	52
14	1000	58	40	28	29	34	34	62	44	30	30	38	39	65	47	30	31	40	42	69	51	32	33	43	47
	1500	62	45	36	36	40	38	67	49	37	37	43	43	69	52	38	38	45	46	74	56	40	39	48	51
	2000	66	48	41	41	44	41	70	53	43	42	47	46	73	55	44	43	49	49	77	60	45	44	52	54
	2500	68	51	46	45	47	43	73	55	47	46	50	48	75	58	48	47	52	51	80	62	50	48	55	56
16	1500	60	43	32	31	36	36	64	47	34	33	39	40	67	49	36	34	40	42	72	53	38	37	43	46
	2000	63	46	38	36	40	38	68	50	40	38	42	42	71	52	41	39	44	45	75	56	43	42	47	49
	2500	66	49	42	40	43	40	70	53	44	42	46	45	73	55	46	43	47	47	78	59	48	45	50	51
	3000	68	51	46	43	46	42	73	55	48	45	48	46	75	57	49	46	50	49	80	61	51	49	52	53
	3500	69	53	49	45	48	44	74	57	51	48	50	48	77	59	52	49	52	50	82	63	54	51	54	54

Performance Notes:

1. Test data obtained in accordance with AHRI Standard 880-2017 and ASHRAE Standard 130-2016.
2. Sound power levels include duct end corrections per AHRI Standard 880-2017.

PERFORMANCE DATA

LDV with Silencer - Inlet Sound Data

Polymer Film Lined Silencer (Exhaust)

Unit Size	Airflow	Sound Power Levels Lw dB Re 10^{-12} Watts																							
		0.5 in. w.g. [125 Pa] Octave Band						1.0 in. w.g. [250 Pa] Octave Band						1.5 in. w.g. [375 Pa] Octave Band						3.0 in. w.g. [750 Pa] Octave Band					
	cfm	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
6	200	54	40	31	24	19	21	58	44	35	25	19	24	61	47	36	26	19	27	65	51	39	27	19	30
	250	56	43	34	29	25	25	60	47	37	30	25	28	63	50	39	30	24	30	67	54	42	31	24	34
	300	58	45	37	33	30	28	62	50	40	34	30	31	65	52	42	34	29	33	69	56	45	35	29	37
	380	60	49	40	37	37	32	65	53	43	38	36	35	67	55	45	39	36	37	71	60	48	40	35	41
7	250	55	41	31	26	22	21	60	46	35	28	23	26	62	49	37	29	24	29	67	53	40	32	25	34
	350	58	45	36	31	28	26	63	50	39	33	29	31	66	52	41	34	30	34	70	57	44	37	31	39
	450	61	48	39	35	33	30	65	52	42	37	34	35	68	55	44	38	35	38	72	60	47	40	36	42
	550	63	50	41	38	37	33	67	54	45	40	38	38	70	57	46	41	38	41	74	62	50	43	39	45
	600	63	51	42	39	38	34	68	55	46	41	39	39	71	58	48	42	40	42	75	63	51	45	41	47
8	400	59	44	33	29	22	26	64	49	36	32	24	31	67	52	38	33	25	34	72	57	42	35	28	39
	500	61	46	36	33	27	30	66	51	40	35	29	35	69	54	42	37	31	38	74	59	45	39	33	42
	600	63	48	39	36	32	33	67	53	42	38	34	38	70	56	44	40	35	40	75	61	48	42	37	45
	700	64	50	41	39	35	35	69	55	44	41	37	40	71	58	46	42	39	43	76	63	50	44	41	48
	800	65	51	43	41	38	37	70	56	46	43	40	42	73	59	48	44	42	45	77	64	52	47	44	50
9	450	59	45	38	30	28	26	63	49	41	33	29	31	66	52	43	34	29	34	70	57	46	36	30	39
	650	62	49	42	36	35	32	66	53	46	38	36	37	69	56	48	39	36	39	74	61	51	42	37	44
	850	64	51	46	40	40	36	69	56	49	42	41	41	72	59	51	43	41	43	76	63	54	45	42	48
	1050	66	54	48	43	43	39	71	58	52	45	44	44	74	61	54	46	45	47	78	66	57	49	46	51
10	550	59	47	40	31	28	30	63	52	44	35	31	34	66	54	46	37	32	37	71	59	49	40	35	42
	750	62	50	44	35	33	34	66	55	47	39	36	38	69	57	50	41	37	41	74	62	53	44	40	45
	950	64	52	47	38	37	37	69	57	50	42	40	41	71	60	52	44	41	44	76	65	56	47	44	48
	1150	66	54	49	41	40	39	70	59	53	44	43	43	73	62	55	46	44	46	78	66	58	50	47	51
	1350	67	56	51	43	43	41	72	61	54	46	45	45	75	63	57	48	47	48	79	68	60	52	50	53
12	900	62	49	40	33	35	34	67	54	44	36	37	38	70	56	45	38	38	41	74	61	49	41	40	45
	1300	66	53	45	38	40	38	71	57	49	41	42	43	73	60	50	43	43	45	78	64	54	46	45	50
	1500	68	54	47	40	41	40	72	59	50	43	43	45	75	61	52	45	45	47	80	66	56	48	47	52
	1700	69	56	49	41	43	42	74	60	52	45	45	46	76	63	54	47	46	49	81	67	57	50	48	53
	2000	71	57	51	44	45	44	75	62	54	47	47	48	78	64	56	49	48	51	83	69	59	52	50	55
14	1000	59	46	40	33	34	37	64	50	43	35	37	42	66	53	44	37	39	45	71	57	46	39	41	50
	1500	64	51	47	39	40	41	68	55	49	41	43	46	71	58	50	43	44	49	75	62	53	45	47	54
	2000	67	54	51	43	44	43	71	58	53	45	47	49	74	61	55	47	48	52	79	65	57	49	51	57
	2500	69	57	55	46	47	46	74	61	57	49	50	51	77	63	58	50	52	54	81	68	61	52	54	59
16	1500	60	49	43	38	38	38	65	52	45	40	40	43	67	54	47	41	41	46	72	58	49	43	44	51
	2000	64	52	47	42	42	41	68	56	49	44	44	46	71	58	51	45	46	49	75	62	53	47	48	54
	2500	66	54	51	45	46	43	71	58	53	47	48	48	73	60	54	48	49	51	78	64	56	50	51	56
	3000	68	57	53	47	48	45	73	60	55	49	51	50	75	63	57	50	52	53	80	66	59	52	54	58
	3500	70	58	55	49	51	47	74	62	58	51	53	51	77	64	59	52	54	54	81	68	61	54	56	59

Performance Notes:

1. Test data obtained in accordance with AHRI Standard 880-2017 and ASHRAE Standard 130-2016.
2. Sound power levels include duct end corrections per AHRI Standard 880-2017.

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