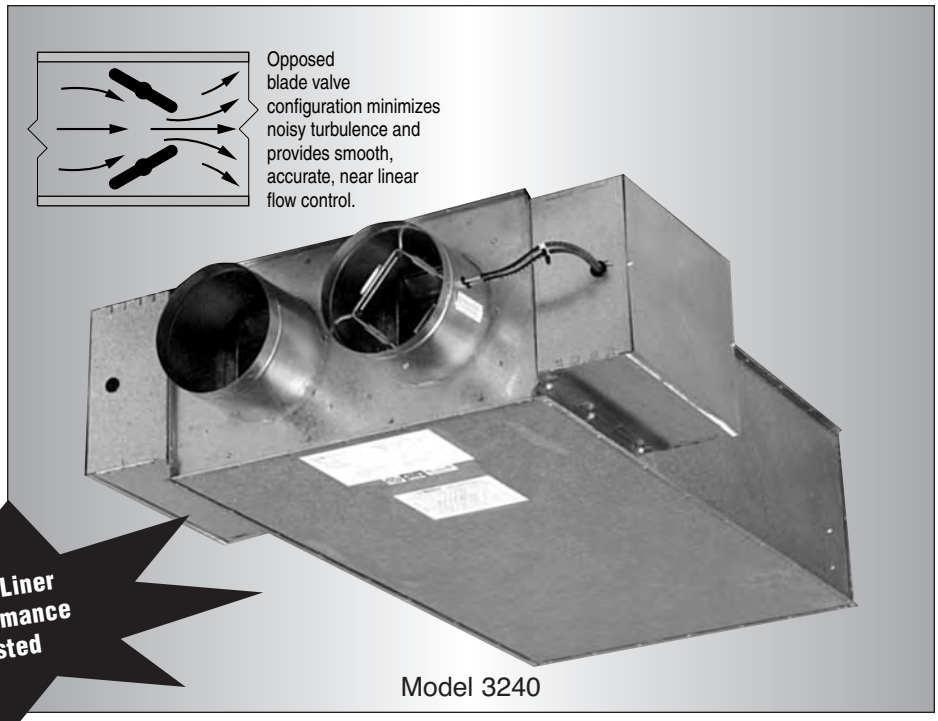
DUAL DUCT VARIABLE OR CONSTANT AIR VOLUME

"BLENDMASTER™"

- **1 : 30 MIXING**
- **INDUSTRY LEADING PERFORMANCE**



Model 3240

Model:

3240 With High Efficiency Mixing Attenuator

The model **3240 "BlendMaster™"** is a newly designed dual duct terminal unit offering superior performance for the most demanding applications. Maintaining high ventilation rates, humidity control and achieving high comfort levels in the pursuit of improved indoor air quality have regenerated interest in the benefits of a dual duct system design. Applications include hospitals, research laboratories, schools and other institutional facilities where both overhead heating and cooling are required and a dual duct design has been deemed the preferred system.

Equipped with specially designed low leakage opposed blade dampers, the "BlendMaster™" provides accurate airflow control of the hot and cold decks with tight shut-off. An extended integral mixer attenuator section provides superior blending of the hot and cold airflow during mixing at reduced minimum operating pressures compared to other manufacturers designs thus ensuring uniform flow and temperature equalization downstream. Minimum mixing efficiency is an unprecedented 1:30; less than 1°F (0.55°C) temperature variation at the discharge for each 30°F (16.67°C) temperature difference between the hot and cold decks.

Dual duct terminals, being inherently suited to high indoor air quality applications, are frequently specified with an 'IAQ' insulation option. For this reason, the sound data presented for this terminal unit is the first to result from extensive independent testing with the Steri-Liner option, rather than standard fiberglass insulation, thus permitting a more accurate selection than is possible with other manufacturers equipment.

STANDARD 3240 FEATURES:

• 1 in 30 minimum mixing efficiency, from independent testing in accordance with ASHRAE Std 130.

• 22 ga. (0.86) zinc coated steel casing, mechanically sealed, low leakage construction.

• Special extra-low leakage opposed blade damper design with blade and jamb seals. Damper leakage is less than 1% of nominal flow at 6" w.g. (1.5 kPa) per ASHRAE Standard 130. 90° rotation. ½" (13) dia. plated steel driveshaft. An indicator mark at the end of the driveshaft shows damper position.

• Low leakage casing. Less than 1% of rated airflow at 6" w.g. (1.5 kPa).

• Designed for pneumatic, analog electronic or digital pressure independent control.

• Multi-point averaging 'Diamond Flow' sensors standard for all applications; ensure accurate flow control.

• Gauge taps provided for field calibration and balancing.

• Downstream total flow sensing available for maximum control accuracy.

• Available in nine unit sizes to handle from 215 – 3060 cfm (101 – 1444 l/s).

• Unequal inlet sizes are an available option.

• Independently tested and certified to ARI 880 using Steri-Liner insulation, the preferred choice for the majority of dual duct applications.

Options:

• 3/4" (19) dual density fiberglass insulation is available. Exposed edges are coated to prevent erosion. Meets the requirements of NFPA 90A and UL 181.

• Available with a bottom access door.

• Other 'IAQ' insulations are available.

ARI PERFORMANCE CERTIFIED
ARI Standard 880
A Participating Corporation in the ARI 880 Certification program.

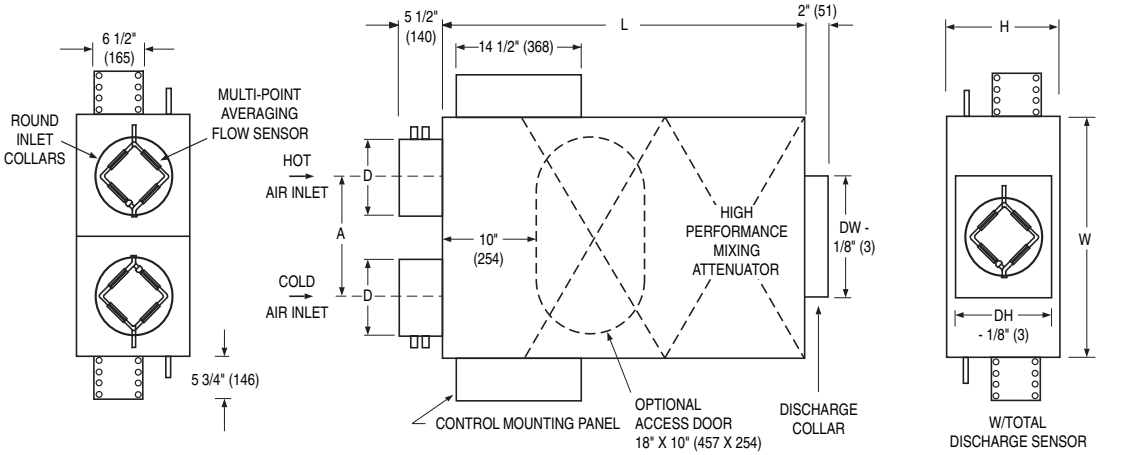
INTERTEK ETL LISTED C US

Model 3240 "BlendMaster™" • Dimensions • Mixing Applications

• Variable volume or constant volume operation.
• Rectangular discharge collar optimally sized for duct run out.
• Integral mixing attenuator construction reduces insulation seams and reduces casing leakage.
• Multi-point 'Diamond Flow' Sensor available in three location configurations to suit exact control sequence requirement.
• Double set of solid mixing baffles are standard.
• Unique low leakage opposed blade dampers control each deck independently. 90° rotation. Right hand CW to close. Left hand CCW to close.
• When unequal sized inlets are used, the casing will be governed by the larger inlet size.
• Choice of right or left hand cold deck location. Hand of unit is determined by location of cold deck looking in direction of airflow. Right hand unit illustrated.

Pneumatic Controls

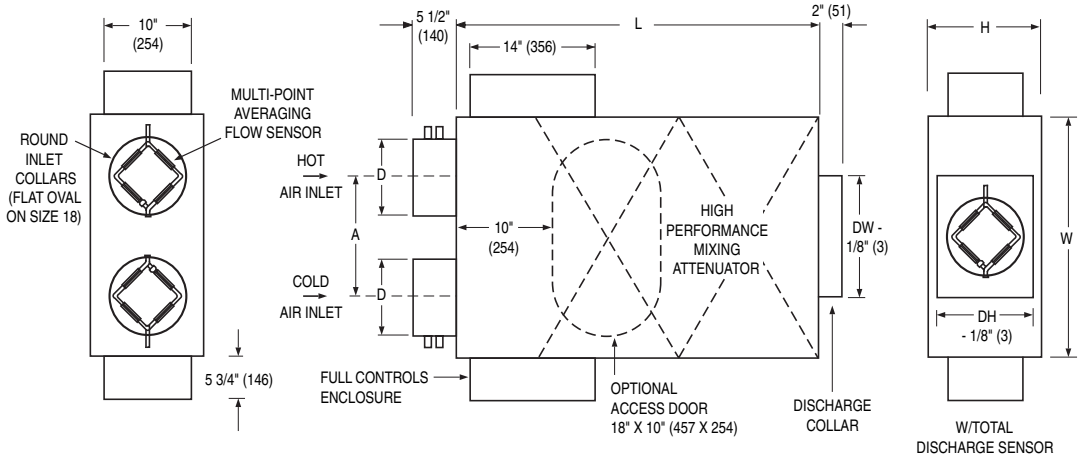
• Universal pneumatic control mounting panel features double wall stand-off construction for strength and rigidity. Controls mounting screws do not penetrate casing.



INLET END VIEW **PLAN VIEW** **OUTLET END VIEW**

Analog Electronic and Digital Controls

• A full NEMA 1 controls enclosure is provided for factory mounted controls. Optional for field mounted controls.



INLET END VIEW **PLAN VIEW** **OUTLET END VIEW**

Dimensional Data

Imperial Units (inches)

Unit Size	Inlet Dia. D	cfm Range	W	H	L	A	Outlet DW x DH
4	3 ⅞	0 - 215	24	10	47	11	8 x 8
5	4 ⅛	0 - 310					
6	5 ⅛	0 - 500					
7	6 ⅛	0 - 710	24	12 ½	47	11	10 x 10
8	7 ⅛	0 - 1000					
9	8 ⅛	0 - 1300	34	14	60	16 ⅛	14 x 12
10	9 ⅛	0 - 1435					
12	11 ⅞	0 - 2150	34	16	60	16 ⅛	18 x 14
14	13 ⅞	0 - 3060	42	18	72	20 ⅛	22 x 16

Metric Units (mm)

Unit Size	Inlet Dia. D	l/s Range	W	H	L	A	Outlet DW x DH
4	98	0 - 101	610	254	1194	279	203 x 203
5	124	0 - 146					
6	149	0 - 236					
7	175	0 - 335	610	318	1194	279	254 x 254
8	200	0 - 472					
9	225	0 - 614	864	356	1524	410	356 x 305
10	251	0 - 677					
12	302	0 - 1015	864	406	1524	410	457 x 356
14	353	0 - 1444	1067	457	1829	511	559 x 406

Performance Data • NC Level Application Guide

Model 3240 "BlendMaster™" • With Mixing Attenuator and Steri-Liner Insulation

Inlet Size	Airflow cfm	Airflow l/s	Min. inlet ΔPs " w.g.	Min. inlet ΔPs Pa	NC Levels @ Inlet pressure (ΔPs) shown											
					DISCHARGE						RADIATED					
					Min. ΔPs	0.5" w.g. (125 Pa)	1.0" w.g. (250 Pa)	1.5" w.g. (375 Pa)	2.0" w.g. (500 Pa)	3.0" w.g. (750 Pa)	Min. ΔPs	0.5" w.g. (125 Pa)	1.0" w.g. (250 Pa)	1.5" w.g. (375 Pa)	2.0" w.g. (500 Pa)	3.0" w.g. (750 Pa)
	200	94	0.08	21	-	-	-	-	-	-	-	-	-	-	-	-
	150	71	0.05	13	-	-	-	-	-	-	-	-	-	-	-	-
4	100	47	0.03	6	-	-	-	-	-	-	-	-	-	-	-	-
	75	35	0.02	4	-	-	-	-	-	-	-	-	-	-	-	-
	50	24	0.01	2	-	-	-	-	-	-	-	-	-	-	-	-
	300	142	0.15	36	-	-	-	-	-	-	-	-	-	-	23	27
	250	118	0.11	26	-	-	-	-	-	-	-	-	-	-	-	20
5	100	94	0.07	18	-	-	-	-	-	-	-	-	-	-	-	-
	125	59	0.03	8	-	-	-	-	-	-	-	-	-	-	-	-
	75	35	0.01	3	-	-	-	-	-	-	-	-	-	-	-	-
	500	236	0.32	80	-	-	-	-	-	23	-	-	22	25	26	30
	400	189	0.22	55	-	-	-	-	-	20	-	-	-	21	25	28
6	300	142	0.13	32	-	-	-	-	-	-	-	-	-	-	20	22
	200	94	0.06	15	-	-	-	-	-	-	-	-	-	-	-	20
	100	47	0.02	5	-	-	-	-	-	-	-	-	-	-	-	-
	650	307	0.57	141	-	-	-	27	30	35	-	-	27	33	38	42
	550	260	0.43	106	-	-	-	23	27	32	-	-	23	29	34	39
7	335	158	0.18	45	-	-	-	-	-	-	-	-	24	25	20	23
	225	106	0.09	23	-	-	-	-	-	-	-	-	-	-	-	-
	110	52	0.03	7	-	-	-	-	-	-	-	-	-	-	-	-
	850	401	0.72	179	-	*	-	24	26	35	20	*	26	33	36	41
	700	330	0.50	124	-	-	-	25	29	35	-	*	25	33	36	40
8	500	236	0.29	72	-	-	-	24	25	23	-	-	25	32	35	35
	350	146	0.15	37	-	-	-	-	-	-	-	-	23	25	20	22
	200	94	0.06	15	-	-	-	-	-	-	-	-	-	-	-	-
	1050	495	0.29	72	-	-	-	25	29	35	-	-	27	34	38	42
	900	425	0.22	55	-	-	-	24	28	34	-	-	25	33	37	40
9	675	319	0.13	33	-	-	-	-	-	-	-	-	22	25	28	28
	450	212	0.06	16	-	-	-	-	-	-	-	-	-	-	22	22
	225	106	0.02	5	-	-	-	-	-	-	-	-	-	-	-	-
	1350	637	0.40	99	-	-	-	25	29	35	22	22	27	33	38	43
	1100	519	0.28	70	-	-	-	25	29	35	-	-	25	33	36	40
10	800	378	0.16	40	-	-	-	22	23	20	-	-	25	29	30	30
	550	260	0.08	20	-	-	-	-	-	-	-	-	-	21	24	25
	250	118	0.02	5	-	-	-	-	-	-	-	-	-	-	-	-
	1950	920	0.74	184	27	*	26	32	35	42	30	*	32	36	41	48
	1600	755	0.50	124	-	-	25	31	35	40	21	21	30	37	41	46
12	1200	566	0.28	70	-	-	23	30	32	34	-	-	30	35	37	37
	800	376	0.13	32	-	-	-	21	21	20	-	-	23	25	25	30
	400	189	0.03	8	-	-	-	-	-	-	-	-	-	-	-	20
	2700	1274	0.78	194	25	*	26	29	30	35	30	*	32	37	40	48
	2100	991	0.45	112	-	-	20	24	27	31	21	21	31	37	40	46
14	1600	755	0.26	65	-	20	-	20	25	30	-	-	30	35	37	37
	1050	496	0.11	27	-	-	-	-	20	23	-	-	23	25	25	31
	550	260	0.03	8	-	-	-	-	-	-	-	-	-	-	-	20

Performance Notes:

1. NC levels are calculated based on procedures as documented on page C7.
2. Dash (-) in space indicates NC level less than 20.
3. Asterisk (*) in space indicates that the minimum inlet static pressure requirement is greater than 0.5" w.g. (125 Pa) at rated airflow.

Performance Data • Discharge Sound Power Levels

Model 3240 "BlendMaster™" • With Mixing Attenuator and Steri-Liner Insulation

Inlet Size	Airflow cfm	Airflow l/s	Min. inlet ΔPs "w.g.	Min. inlet ΔPs Pa	Sound Power Octave Bands @ Inlet pressure shown: Min. ΔPs 2	3	4	5	6	7	0.5" w.g. (125Pa) ΔPs 2	3	4	5	6	7	1.0" w.g. (250Pa) ΔPs 2	3	4	5	6	7	1.5" w.g. (375Pa) ΔPs 2	3	4	5	6	7	2.0" w.g. (500Pa) ΔPs 2	3	4	5	6	7	3.0" w.g. (750Pa) ΔPs 2	3	4	5	6	7
	200	94	0.08	21	40	34	27	-	-	-	43	38	31	30	-	-	47	46	38	34	27	26	49	50	42	36	31	30	51	52	44	37	33	34	53	54	47	40	36	39
	150	71	0.05	13	38	32	24	-	-	-	41	36	28	27	-	-	45	44	35	31	23	23	47	48	39	33	27	27	49	50	43	34	29	31	51	52	46	39	32	36
4	100	47	0.03	6	-	29	-	-	-	-	-	36	26	27	-	-	44	41	33	28	23	25	45	44	38	31	26	29	48	48	43	35	28	32	47	47	42	37	31	37
	75	35	0.02	4	-	-	-	-	-	-	-	34	28	-	-	-	-	33	34	27	21	23	-	33	35	30	25	27	-	33	34	29	26	30	-	33	35	29	28	33
	50	24	0.01	2	-	-	-	-	-	-	-	34	28	-	-	-	-	33	34	27	21	23	-	33	35	30	25	27	-	33	34	29	26	30	-	33	35	29	28	33
	300	142	0.15	36	45	41	37	29	22	-	48	47	42	35	27	32	49	48	43	39	30	28	53	55	47	42	35	33	56	57	50	43	37	36	58	60	53	45	40	41
	250	118	0.11	26	41	35	29	20	-	-	44	39	33	32	21	-	48	47	40	36	29	27	50	51	44	38	33	31	52	53	46	39	35	35	54	55	49	42	38	40
5	200	94	0.07	18	39	33	26	-	-	-	42	37	30	29	-	-	46	45	37	33	25	24	48	49	41	35	29	28	50	51	45	36	31	32	52	53	48	41	34	37
	125	59	0.03	8	-	30	-	-	-	-	-	37	28	29	-	-	45	42	35	30	25	26	46	45	40	33	28	30	49	49	45	37	30	33	48	48	44	39	33	38
	75	35	0.01	3	-	-	-	-	-	-	-	35	30	20	-	-	-	34	36	29	23	24	-	34	37	32	27	28	-	34	36	31	28	31	-	34	37	31	30	34
	500	236	0.32	80	51	50	45	37	31	27	52	52	46	38	32	28	55	54	49	44	35	32	57	57	51	46	38	36	60	60	54	47	40	39	62	64	57	50	44	44
	400	189	0.22	55	47	43	39	31	24	-	50	49	44	37	29	34	51	50	45	41	32	30	55	57	49	44	37	35	58	59	52	45	39	38	60	62	55	47	42	43
6	300	142	0.13	32	43	37	31	22	-	-	46	41	35	34	23	-	50	49	42	38	31	29	52	53	46	40	35	33	54	55	48	41	37	37	56	57	51	44	40	42
	200	94	0.06	15	-	32	21	-	-	-	-	39	31	32	23	-	47	44	38	33	29	28	48	47	43	36	32	32	51	51	47	40	34	35	50	50	47	42	37	40
	100	47	0.02	5	-	-	-	-	-	-	-	36	32	22	-	-	-	35	38	31	25	25	-	35	39	34	29	29	-	35	38	33	30	32	-	35	39	33	32	35
	650	307	0.57	141	50	51	48	42	36	30	50	51	48	42	36	30	60	60	54	48	42	38	66	67	59	52	46	45	69	70	62	54	49	48	73	74	68	60	55	54
	550	260	0.43	106	47	48	45	39	33	27	47	48	45	39	33	27	57	57	51	45	39	35	63	64	56	49	43	42	66	67	59	51	46	45	70	71	65	57	52	51
7	335	158	0.18	45	41	36	31	23	-	-	49	50	42	37	31	28	57	59	51	44	38	36	59	61	53	47	41	40	56	56	51	45	41	42	55	56	54	48	44	46
	225	106	0.09	23	-	34	28	-	-	-	47	45	37	32	28	24	44	42	39	34	33	33	45	45	42	37	33	36	47	47	44	39	37	40	50	50	46	42	40	44
	110	52	0.03	7	-	31	25	-	-	-	45	42	34	29	25	22	42	39	36	31	30	31	43	42	39	34	30	34	45	44	41	36	34	38	48	47	44	39	37	42
	850	401	0.72	179	55	56	53	48	42	37	*	*	*	*	*	*	60	60	56	51	45	41	65	66	59	53	47	45	69	68	63	55	50	49	74	76	68	60	55	54
	700	330	0.51	126	50	51	48	42	36	30	50	51	48	42	36	30	60	60	54	48	42	38	66	67	59	52	46	45	69	70	62	54	49	48	73	74	68	60	55	54
8	500	236	0.29	72	45	43	39	32	26	-	50	50	43	38	31	28	59	60	52	45	39	38	64	65	59	51	45	44	65	67	60	52	46	46	63	64	58	51	47	48
	350	165	0.15	37	41	36	31	23	-	-	49	50	42	37	31	28	57	59	51	44	38	36	59	61	53	47	41	40	56	56	51	45	41	42	55	56	54	48	44	46
	200	94	0.06	15	-	34	28	-	-	-	47	45	37	32	28	24	44	42	39	34	33	33	45	45	42	37	33	36	47	47	44	39	37	40	50	50	47	42	40	44
	1050	495	0.29	72	54	52	49	44	38	32	57	55	52	47	41	36	65	61	55	49	44	41	71	67	57	50	45	46	74	70	61	52	47	48	78	75	64	55	49	51
	900	425	0.22	55	53	51	48	43	37	31	56	54	51	46	40	35	64	60	54	48	43	40	70	66	56	49	44	45	73	69	60	51	46	47	77	74	63	54	48	50
9	675	319	0.13	33	48	42	39	33	30	24	55	51	44	37	31	29	62	59	49	40	36	38	65	60	52	42	38	40	62	61	53	44	39	41	62	60	55	48	41	45
	450	212	0.06	16	45	37	33	27	-	-	54	49	40	33	28	26	60	56	45	36	32	34	59	54	46	37	33	35	54	54	48	40	34	37	58	55	51	44	37	41
	225	106	0.02	5	38	34	30	-	-	-	49	49	38	31	28	26	47	49	41	33	30	39	48	51	45	37	33	36	49	51	46	39	33	37	51	52	49	42	35	43
	1350	637	0.40	99	60	58	55	50	45	40	61	60	57	51	46	41	65	62	58	52	47	43	71	67	59	54	49	47	74	71	62	54	50	50	79	76	66	57	52	53
	1100	519	0.28	70	54	52	49	44	38	32	57	55	52	47	41	36	65	61	55	49	44	41	71	67	57	50	45	46	74	70	61	52	47	48	78	75	64	55	49	51
10	800	378	0.16	40	49	45	42	36	30	24	55	51	45	39	32	29	63	60	50	42	37	39	69	64	55	45	40	42	69	65	55	46	41	43	65	63	57	49	43	46
	550	260	0.08	20	46	39	35	29	-	-	55	51	42	35	30	28	61	58	47	38	34	36	60	56	48	39	35	37	55	56	50	42	36	39	59	57	53	46	39	43
	250	118	0.02	5	38	34	30	-	-	-	49	49	38	31	28	26	47	49	41	33	30	39	48	51	45	37	33	36	49	51	46	39	33	37	51	52	49	42	35	43
	1950	920	0.74	184	68	69	60	54	51	48	*	*	*	*	*	*	69	68	58	51	48	45	73	73	61	51	49	48	77	76	63	52	50	51	82	82	66	57	56	58
	1600	755	0.50	124	62	61	54	47	44	41	62	61	54	47	44	41	67	67	56	48	46	43	73	72	59	50	48	47	76	76	62	52	50	51	81	81	67	54	54	56
12	1200	566	0.28	70	54	52	46	39	35	31	58	56	47	40	36	33	67	66	53	43	40	40	72	72	58	47	46	46	74	73	60	48	48	49	74	74	62	50	51	54
	800	378	0.13	32	47	43	37	30	27	20	57	56	42	36	31	30	63	62	49	41	39	39	66	64	52	43	44	44	64	64	54	43	44	47	63	63	57	46	45	50
	400	189	0.03	8	-	-	28	-	-	-	50	48	37	34	30	28	51	48	40	32	35	36	52	51	46	35	37	38	53	52	48	37	42	42	56	55	52	41	43	48
	2700	1274	0.78	194	71	68	62	55	52	49	*	*	*	*	*	*	72	68	62	55	52	50	74	71	63	56	53	51	75	72	64	57	54	53	78	75	66	57	55	56
	2100	991	0.45	112	64	60	55	48	44	41	64	60	55	48	44	41	68	64	56	50	46	44	71	66	57	50	47	47	74	69	59	51	49	50	77	72	61	53	52	55
14	1600	755	0.26	65	57	52	47	40	35	31	59	64	47	40	36	33	64	58	50	43	40	41	68	63	53	44	43	46	71	66	55	45	46	49	76	71	58	48	49	53
	1050	496	0.11	27	46	39	33	26	-	-	54	47	38	30	29	30	61	54	43	32	35	38	66	60	47	36	39	43	69	64	50	39	42	46	70	65	53	43	46	50
	550	260	0.03	8	45	33	26	-	-	-	51	43	31	23	27	27	57	50	38	28	33	37	57	52	42	31	36	42	58	54	44	34	40	44	58	54	47	37	41	48

ARI Certification Rating Points

Inlet Size	Airflow cfm	Airflow l/s	Min. inlet ΔPs "w.g.	Min. inlet ΔPs Pa	Sound Power Levels @1.5" w.g. (375 Pa) ΔPs Octave Band 2	3	4	5	6	7
4	150	71	0.05	13	47	48	39	33	27	27
5	250	118	0.11	26	50	51	44	38	33	31
6	400	189	0.22	55	55	57	49	44	37	35
7	550	260	0.43	106	63	64	56	49	43	42
8	700	330	0.51	126	66	67	59	52	46	45
9	900	425	0.22	55	70	66	56	49	44	45
10	1100	519	0.28	70	71	67	57	50	45	46
12	1600	755	0.50	124	73	72	59	50	48	47
14	2100	991	0.45	112	71	66	57	50	47	47

Performance Notes:

1. Discharge sound power is the noise emitted from the unit discharge into the downstream duct.
2. Sound power levels are in decibels, dB re 10^{-12} watts.
3. 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 dB or equal to background.
4. Minimum inlet ΔPs is the minimum operating pressure requirement of the unit (damper full open) and the difference in static pressure from inlet to discharge of the unit.
Asterisk (*) in space indicates that the minimum inlet static pressure requirement is greater than 0.5" w.g. (125 Pa) at rated airflow.
5. Data derived from independent tests conducted in accordance with ANSI/ASHRAE Standard 130-1996 and ARI Standard 880-98.

ARI PERFORMANCE CERTIFIED
ARI Standard 880
A Participating Corporation in the ARI 880 Certification program.

C

DUAL DUCT TERMINAL UNITS

Performance Data • Radiated Sound Power Levels

Model 3240 "BlendMaster™" • With Mixing Attenuator and Steri-Liner Insulation

Inlet Size	Airflow cfm	Airflow l/s	Min. inlet ΔPs "w.g.	Min. inlet ΔPs Pa	Sound Power Octave Bands @ Inlet pressure shown																													
					Min. ΔPs						0.5" w.g. (125Pa) ΔPs						1.0" w.g. (250Pa) ΔPs						1.5" w.g. (375Pa) ΔPs						2.0" w.g. (500Pa) ΔPs						3.0" w.g. (750Pa) ΔPs					
					2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7	2	3	4	5	6	7
4	200	94	0.08	21	-	33	27	23	-	-	45	38	29	29	27	23	49	44	33	31	32	27	52	48	37	34	35	31	53	50	39	36	37	34	54	51	42	38	39	38
	150	71	0.05	13	-	31	24	20	-	-	43	36	26	26	23	20	47	42	30	28	28	24	50	46	34	31	31	28	51	48	38	33	33	31	52	49	41	37	35	35
	100	47	0.03	6	-	-	21	-	-	-	-	35	25	25	23	-	-	41	29	27	26	25	46	46	34	30	29	31	50	47	38	32	31	32	49	45	41	37	34	37
	75	35	0.02	4	-	-	21	-	-	-	-	-	24	22	21	-	-	41	30	26	26	24	-	38	36	30	28	28	-	39	40	33	30	31	-	38	41	38	34	36
	50	24	0.01	2	-	-	21	-	-	-	-	-	24	22	21	-	-	41	30	26	26	24	-	38	36	30	28	28	-	39	40	33	30	31	-	38	41	38	34	36
5	300	142	0.15	36	48	40	35	30	28	25	51	44	36	34	33	27	53	47	38	36	36	30	56	51	42	39	39	34	58	54	44	40	41	36	59	57	47	43	44	41
	250	118	0.11	26	-	34	29	25	20	-	46	39	31	31	29	24	50	45	35	33	34	28	53	49	39	36	37	32	54	51	41	38	39	35	55	52	44	40	41	39
	200	94	0.07	18	-	32	26	22	-	-	44	37	28	28	25	21	48	43	32	30	30	25	51	47	36	33	33	29	52	49	40	35	35	32	53	50	43	39	37	36
	125	59	0.03	8	-	-	23	-	-	-	-	36	27	27	25	-	-	42	31	29	28	26	47	47	36	32	31	32	51	48	40	34	33	33	50	46	43	39	36	38
	75	35	0.01	3	-	-	23	20	-	-	-	-	26	24	23	-	-	42	32	28	28	25	-	39	38	32	30	29	-	40	42	35	32	32	-	39	43	40	36	37
6	500	236	0.32	80	53	46	41	37	33	31	57	49	42	38	34	31	58	53	44	42	41	32	60	56	47	43	43	38	62	58	48	45	45	40	64	60	51	46	47	44
	400	189	0.22	55	50	42	37	32	30	27	53	46	38	36	35	29	55	49	40	38	38	32	58	53	44	41	41	36	60	56	46	42	43	38	61	59	49	45	46	43
	300	142	0.13	32	-	36	31	27	22	-	48	41	33	33	31	26	52	47	37	35	36	30	55	51	41	38	39	34	56	53	43	40	41	37	57	54	46	42	43	41
	200	94	0.06	15	-	-	26	-	-	-	-	38	30	30	29	-	-	44	34	32	32	28	49	49	39	35	35	34	53	50	42	37	37	35	52	48	46	42	40	40
	100	47	0.02	5	-	-	25	22	-	-	-	-	28	26	25	-	-	43	34	30	30	26	-	40	40	34	32	30	-	41	44	37	34	33	-	40	45	42	38	38
7	650	307	0.57	141	54	49	40	37	31	29	54	49	40	37	31	29	59	57	45	41	36	33	64	62	50	44	40	38	67	66	53	45	42	41	71	70	58	49	46	45
	550	260	0.43	106	51	46	37	34	28	26	51	46	37	34	28	26	56	54	42	38	33	30	61	59	47	41	37	35	64	63	50	42	39	38	68	67	55	46	43	42
	335	158	0.18	45	-	35	26	-	-	-	50	46	34	31	28	22	56	55	42	35	32	31	56	56	34	37	35	34	54	52	42	37	36	38	56	54	45	40	39	41
	225	106	0.09	23	-	-	-	-	-	-	-	40	30	28	25	25	-	41	32	30	31	30	47	43	34	32	33	34	47	45	37	34	35	37	49	46	37	35	37	41
	110	52	0.03	7	-	-	-	-	-	-	-	37	27	25	22	23	-	38	29	27	28	28	45	40	31	29	30	32	45	42	34	31	32	35	47	43	34	32	34	39
8	850	401	0.72	179	57	52	43	39	34	31	*	*	*	*	*	*	61	57	47	42	37	35	64	62	50	45	41	39	67	66	54	46	43	42	72	71	59	50	47	46
	700	330	0.51	126	54	49	40	37	31	29	54	49	40	37	31	29	59	57	45	41	36	33	64	62	50	44	40	38	67	66	53	45	42	41	71	70	58	49	46	45
	500	236	0.29	72	-	41	33	30	24	-	51	47	36	33	29	26	59	56	44	39	35	33	63	62	50	42	38	37	64	64	52	44	40	39	64	64	53	45	42	44
	350	165	0.15	37	-	35	26	-	-	-	50	46	34	31	28	22	56	55	42	35	32	31	56	56	34	37	35	34	54	52	42	37	36	38	56	54	45	40	39	41
	200	94	0.06	15	-	-	-	-	-	-	-	40	30	28	25	25	-	41	32	30	31	30	47	43	34	32	33	34	47	45	37	34	35	37	49	46	37	35	37	41
9	1050	495	0.29	72	54	47	39	32	28	27	55	49	41	35	30	28	63	57	46	41	37	35	67	63	50	44	40	44	70	66	53	47	42	44	72	70	57	50	44	45
	900	425	0.22	55	53	46	38	31	27	26	54	48	40	34	29	27	62	56	45	40	36	34	66	62	49	43	39	43	69	65	52	46	41	43	71	69	56	49	43	44
	675	319	0.13	33	-	39	31	24	-	-	51	45	34	32	28	-	58	54	42	36	33	56	59	56	45	38	34	35	59	58	48	41	36	37	56	58	50	44	37	39
	450	212	0.06	16	-	-	-	-	-	-	48	42	30	28	25	-	54	49	37	32	29	33	52	51	41	34	30	31	53	53	44	37	32	33	52	53	46	40	33	35
	225	106	0.02	5	-	-	-	-	-	-	-	38	27	23	-	-	-	43	33	28	26	29	46	46	36	31	28	30	46	48	39	33	30	31	49	51	43	36	32	35
10	1350	637	0.40	99	59	54	45	38	34	32	59	54	45	38	34	32	63	58	48	43	38	36	67	63	51	46	42	43	71	67	55	49	44	47	74	72	59	52	47	47
	1100	519	0.28	70	54	47	39	32	28	27	55	49	41	35	30	28	63	57	46	41	37	35	67	63	50	44	40	44	70	66	53	47	42	44	72	70	57	50	44	45
	800	378	0.16	40	-	39	31	24	-	-	53	46	36	33	28	-	60	56	44	37	34	36	64	59	47	40	36	37	63	61	49	43	38	38	59	61	52	46	39	40
	550	260	0.08	20	-	-	-	-	-	-	49	44	32	30	27	-	55	51	39	34	31	35	53	53	43	36	32	33	54	55	46	39	34	35	53	55	48	42	35	37
	250	118	0.02	5	-	-	-	-	-	-	-	38	27	23	-	-	-	43	33	28	26	29	46	46	36	31	28	30	46	48	39	33	30	31	49	51	43	36	32	35
12	1950	920	0.74	184	65	60	48	41	37	33	*	*	*	*	*	*	65	62	50	45	39	35	69	66	53	49	44	39	73	70	57	52	47	43	77	75	63	56	51	49
	1600	755	0.50	124	59	53	42	35	28	23	59	53	42	35	28	23	66	61	49	45	44	33	69	67	54	49	46	39	72	70	58	52	46	43	75	74	62	55	50	47
	1200	566	0.28	70	52	45	34	27	-	-	56	50	38	42	30	-	64	61	48	45	40	33	67	65	53	47	45	38	69	67	55	49	44	41	68	66	57	52	46	46
	800	378	0.13	32	-	33	-	-	-	-	53	49	38	34	30	-	58	54	44	38	37	34	59	56	48	44	40	37	59	57	50	45	40	39	62	61	54	49	41	43
	400	189	0.03	8	-	-	26	29	-	-	-	37	28	32	-	-	47	43	35	34	28	28	47	46	40	38	33	30	47	48	43	40	35	36	51	51	46	39	35	41
14	2700	1274	0.78	194	65	60	48	41	37	33	*	*	*	*	*	*	65	62	50	45	39	35	69	66	53	49	44	39	73	70	57	52	47	43	77	75	63	56	51	49
	2100	991	0.45	112	59	53	42	35	28	23	59	53	42	35	28	23	66	61	49	45	44	33	69	67	54	49	46	39	72	70	58	52	46	43	75	74	62	55	50	47
	1600	755	0.26	65	52	45	34	27	-	-	56	50	38	42	30	-	64	61	48	45	40	33	67	65	53	47	45	38	69	67	55	49	44	41	68	66	57	52	46	46
	1050	496	0.11	27	-	33	-	-	-	-	53	49	38	34	30	-	58	54	44	38	37	34	59	56	48	44	40	37	59	57	50	45	40	39	62	61	54	49	41	43
	550	260	0.03	8	-	-	26	29	-	-	-	37	28	32	-	-	47	43	35	34	28	28	47	46	40	38	33	30	47	48	43	40	35	36	51	51	46	39	35	41

ARI Certification Rating Points

Inlet Size	Airflow cfm	Airflow l/s	Min. inlet ΔPs "w.g.	Min. inlet ΔPs Pa	Sound Power Levels @1.5" w.g. (375 Pa) ΔPs Octave Band					
					2	3	4	5	6	7
4	150	71	0.05	13	50	46	34	31	31	28
5	250	118	0.11	26	53	49	39	36	37	32
6	400	189	0.22	55	58	53	44	41	41	36
7	550	260	0.43	106	61	59	47	41	37	35
8	700	330	0.51	126	64	62	50	44	40	38
9	900	425	0.22	55	66	62	49	43	39	43
10	1100	519	0.28	70	67	63	50	44	40	44
12	1600	755	0.50	124	69	67	54	49	46	39
14	2100	991	0.45	112	69	67	54	49	46	39

Performance Notes:

1. Discharge sound power is the noise emitted from the unit discharge into the downstream duct.
2. Sound power levels are in decibels, dB re 10^{-12} watts.
3. 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 dB or equal to background.
4. Minimum inlet ΔPs is the minimum operating pressure requirement of the unit (damper full open) and the difference in static pressure from inlet to discharge of the unit.
Asterisk (*) in space indicates that the minimum inlet static pressure requirement is greater than 0.5" w.g. (125 Pa) at rated airflow.
5. Data derived from independent tests conducted in accordance with ANSI/ASHRAE Standard 130-1996 and ARI Standard 880-98.

ARI PERFORMANCE CERTIFIED
ARI Standard 880
A Participating Corporation in the ARI 880 Certification program.