ASHRAE 62.2

Making Sense Of ASHRAE 62.2

Air King has a large selection of ASHRAE 62.2 solutions for both Whole Building and Local Exhaust. Making sense of everything can sometimes be a little overwhelming. Below are some examples as to what you might use for typical installations.

What Is Best For Me?

For the best indoor air quality Air King recommends the Whole Building fan be located in a central location and operate continuously. Then install On Demand Local Exhaust fans in each bathroom and a range hood vented to the outdoors in the kitchen.

What About Dual Speed Fans?

To utilize one of Air King's dual speed fans, the low speed provides Continuous Ventilation while the high speed provides a boost of ventilation power needed when the room is occupied.

Are There Other Options?

For additional solutions visit www.airkinglimited.com/ashrae1.html or become a fan of Air King's facebook page to stay up-to-date on the most current solutions.

Is This Everything I Need?

It is important that these examples be used only as a guide. When determining the correct On Demand Local Exhaust to be used in a bathroom setting, make sure to take into consideration any additional local codes that might be required. All continuously operating fans require a manual override located in a convenient location.

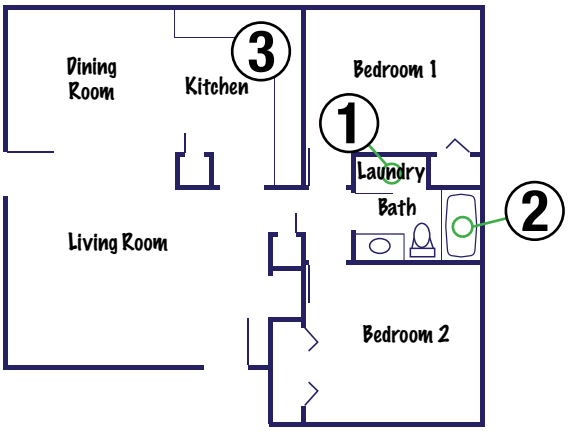
Don't Forget the Kitchen

Air King also recommends the use of an Air King ENERGY STAR® qualified range hood in the kitchen. ASHRAE 62.2 requires a separate kitchen ventilation fan rated for at least 5 air changes per hour for a 13' x 17' x 8' room that equals 150 CFM or a vented range hood rated at least 100 CFM.

Continuous Ventilation

Ventilation Air Requirements, cfm					
Floor Area (ft^2)	Bedrooms 0-1	2-3	4-5	6-7	>7
<1500	30	45	60	75	90
1501-3000	45	60	75	90	105
3001-4500	60	75	90	105	120
4501-6000	75	90	105	120	135
6001-7500	90	105	120	135	150
>7500	105	120	135	150	165

Table is a duplication of Table 4.1a (I-P) for **Minimum** Ventilation from the ANSI/ASHRAE Standard 62.2-2010 for Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings.



Homes Under 1500 Sq Ft., 2-3 Bedrooms

	Type	Good	Better	Best
1	Whole Building Continuous	BFQ50	AK50LS	AK80LS
2	On Demand Local	AS54	BFQ75	AK80H
	with Light	ASF50	BFQF70	AKF80H
3	ENERGY STAR Range Hood	ESDQ	ESVAL	APF

Specifications subject to change. Visit www.airkinglimited.com for more information regarding Air King's full line of ENERGY STAR qualified range roods

Homes 1500-3000 Sq Ft., 3-5 Bedrooms

	Type	Good	Better	Best
1	Whole Building Continuous	AK80LS	AK80H	ES80S
2	On Demand Local	AS54	BFQ75	ES80DH
	with Light	ASF50	BFQF70	AKF80H
3	ENERGY STAR Range Hood	ESDQ	ESVAL	APF

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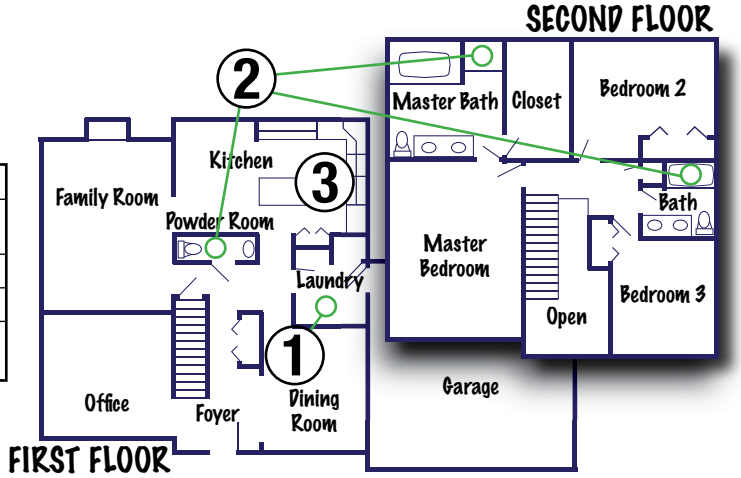


Air King Ventilation Products®

Exhaust Fans

FEATURES

- 6" Round duct connector with damper protects against back drafts
- Listed for installation over a tub or shower on a GFCI circuit
- Suitable for use with electronic fan speed control
- Solution for ASHRAE 62.2 continuous whole house ventilation
- Hanger bar installation

EXHAUST FANS

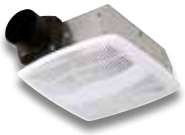
LOWEST HVI SOUND RATING POSSIBLE

	SINGLE SPEED		DUAL SPEED	
	Can be used for ASHRAE 62.2 whole house ventilation or activated by any wall mounted device.		Perfect in a bathroom for continuous low speed ventilation. The fan can be activated to high speed through any wall mounted device.	
MODEL	**ES80S**	**ES130S**	**ES80D**	**ES130D**
Air Movement CFM @ .1 SP	80	130	80 / 30	130 / 50
Air Movement CFM @ .25 SP	49	93	49	93
Sound Sones @ .1 SP	<0.3	<0.3	<0.3	<0.3
Watts	28.1	34.9	28.1 / 24.7	34.9 / 28.4
Duct Size	6"	6"	6"	6"
ENERGY STAR® Qualified	YES	YES	YES	YES
CALGreen	Compliant for whole building ventilation and rooms other than bathrooms			
ASHRAE 62.2	Excellent for whole building / local ventilation			
Housing Size	12⅞"W x 12¾"D x 9⅞"H	12⅞"W x 12¾"D x 9⅞"H	12⅞"W x 12¾"D x 9⅞"H	12⅞"W x 12¾"D x 9⅞"H
Listings / Certifications				

Specifications





MODEL	CFM	SONES	SOUND LEVEL	LIGHTING	ENERGY STAR	CALGREEN	ASHRAE 62.2	LISTING	DUCT SIZE	HOUSING SIZE	PAGE
ES80SH	80	<0.3	Silent	N/A	YES	Bathrooms	Whole Building/Local	ETL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	10
ES80DH	80/30	<0.3	Silent	N/A	YES	Bathrooms	Whole Building/Local	ETL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	10
ES130SH	130	<0.3	Silent	N/A	YES	Bathrooms	Whole Building/Local	ETL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	10
ES130DH	130/50	<0.3	Silent	N/A	YES	Bathrooms	Whole Building/Local	ETL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	10
AK80H	80	1.0	Very Quiet	N/A	YES	Bathrooms	Whole Building/Local	ETL	4"	10 7/8"W x 9 3/8"D x 7 7/8"H	11
AKF80H	80	1.0	Very Quiet	Flourescent	YES	Bathrooms	Whole Building/Local	ETL	4"	10 7/8"W x 9 3/8"D x 7 7/8"H	11
ES80SG	80	<0.3	Silent	N/A	YES	Bathrooms	Whole Building/Local	ETL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	12
ES80DH	80/30	<0.3	Silent	N/A	YES	Bathrooms	Whole Building/Local	ETL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	12
ES130SG	130	<0.3	Silent	N/A	YES	Other Rooms	Whole Building/Local	ETL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	12
ES130DG	130/50	<0.3	Silent	N/A	YES	Other Rooms	Whole Building/Local	ETL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	12
ES80S	80	<0.3	Silent	N/A	YES	Other Rooms	Whole Building/Local	ETL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	13
ES80D	80/30	<0.3	Silent	N/A	YES	Other Rooms	Whole Building/Local	ETL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	13
ES130S	130	<0.3	Silent	N/A	YES	Other Rooms	Whole Building/Local	ETL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	13
ES130D	130/50	<0.3	Silent	N/A	YES	Other Rooms	Whole Building/Local	ETL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	13
AK80LS	80	0.6	Very Quiet	N/A	YES	Other Rooms	Whole Building/Local	UL	4"	10 7/8"W x 9 3/8"D x 7 7/8"H	14
AK110LS	110	1.5	Quiet	N/A	YES	Other Rooms	Local	UL	4"	10 7/8"W x 9 3/8"D x 7 7/8"H	14
AK150LS	150	0.8	Very Quiet	N/A	YES	Other Rooms	Whole Building/Local	ETL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	14
AK200LS	200	1.4	Quiet	N/A	YES	Other Rooms	Local	UL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	14
AK300LS	290	3.0	Quiet	N/A	YES	Other Rooms	Local	UL	6"	12 7/8"W x 12 3/4"D x 9 7/8"H	14
AK50	50	0.5	Very Quiet	N/A	YES	Other Rooms	Whole Building/Local	UL	4"	10 7/8"W x 9 3/8"D x 7 7/8"H	15
AK80LS-1	80	1.0	Very Quiet	N/A	YES	Other Rooms	Whole Building/Local	UL	4"	10 7/8"W x 9 3/8"D x 7 7/8"H	15
AK80	80	1.5	Quiet	N/A	YES	Other Rooms	Local	UL	4"	10 7/8"W x 9 3/8"D x 7 7/8"H	15
AK90	90	1.5	Quiet	N/A	YES	Other Rooms	Local	UL	4"	10 7/8"W x 9 3/8"D x 7 7/8"H	15
AK110PN	100	1.5	Quiet	N/A	YES	Other Rooms	Local	UL	4"	10 7/8"W x 9 3/8"D x 7 7/8"H	15
AK100D	100/50	1.5/0.5	Very Quiet	N/A	YES	Other Rooms	Whole Building/Local	UL	4"	10 7/8"W x 9 3/8"D x 7 7/8"H	15
BFQ50	50	0.5	Very Quiet	N/A	YES	Other Rooms	Whole Building/Local	UL	4"	9 1/8"W x 8 1/2"D x 4 3/4"H	16
BFQ75	70	1.5	Quiet	N/A	YES	Other Rooms	Local	UL	4"	9 1/8"W x 8 1/2"D x 4 3/4"H	16
BFQ80	80	2.0	Quiet	N/A	YES	Other Rooms	Local	UL	4"	9 1/8"W x 8 1/2"D x 4 3/4"H	16
BFQF50	50	0.8	Very Quiet	N/A	YES	Other Rooms	Whole Building/Local	UL	4"	9 1/8"W x 8 1/2"D x 5 3/4"H	17
BFQF70	70	2.0	Quiet	N/A	YES	Other Rooms	Local	UL	4"	9 1/8"W x 8 1/2"D x 5 3/4"H	17
AKF50LS	50	0.3	Very Quiet	Flourescent	YES	Other Rooms	Local	UL	4"	10 7/8"W x 9 3/8"D x 7 7/8"H	18
AKF80LS	80	1.0	Very Quiet	Flourescent	YES	Other Rooms	Local	UL	4"	10 7/8"W x 9 3/8"D x 7 7/8"H	18
AKF100LS	100	1.5	Quiet	Flourescent	YES	Other Rooms	Local	UL	4"	10 7/8"W x 9 3/8"D x 7 7/8"H	18
AKF100D	100/50	1.5/0.3	Very Quiet	Flourescent	YES	Other Rooms	Local	UL	4"	10 7/8"W x 9 3/8"D x 7 7/8"H	18
BFQ90	90	1.5	Quiet	N/A	NO	NO	Local	UL	4"	9 1/8"W x 8 1/2"D x 4 3/4"H	19
BFQ110	110	3.5	Moderate	N/A	NO	NO	NO	UL	4"	9 1/8"W x 8 1/2"D x 4 3/4"H	19
BFQ140	120	4.0	Moderate	N/A	NO	NO	NO	UL	4"	9 1/8"W x 8 1/2"D x 4 3/4"H	19
AS54	50	3.0	Quiet	N/A	NO	NO	Local	UL	4"	7 1/4"W x 7 1/4"D x 4 3/4"H	20
AS50	50	3.0	Quiet	N/A	NO	NO	NO	UL	3"	7 1/4"W x 7 1/4"D x 3 3/4"H	20

Whole House/Local refers to sound ratings for ventilation fans under ASHRAE 62.2. This standard requires continuously and intermittently operated fans to be rated 1 sone or less.