

Branch Opinion
Fan Ratings
Article 9.32.3.9.

The Housing Development and Buildings Branch has received several inquiries concerning the acceptability of the residential fans that are rated according to the revised HVI (Home Ventilation Institute) procedures.

The Branch has received updated information on fan ratings from the Canadian Code Centre of the National Research Council of Canada. The information indicates that HVI is the only agency in North America certifying air flow and sound ratings for ventilation fans. In the past, HVI ratings were compatible with those called for by CAN/CSA-C260, which is referenced in the National Building Code of Canada (NBC 9.32.) and the Ontario Building Code (OBC). Recently, however, HVI modified its rating procedures to achieve greater reproducibility, with the result that a given fan rated under CAN/CSA-C260 may be rated higher under the revised HVI procedures.

As an initiative to modernize its fan certification program, HVI has introduced a new “Sound Refinement Program” which has been gradually implemented since last year. The program includes changes to sound testing, verification and labelling. Fans conforming to the requirements of the program bear new HVI ‘2100’ Labels. Even though the fans have not been changed, their ratings have changed because of the modifications made to the sound testing procedures. Therefore, the ratings on new labels differ from their previous “1999 HVI Ratings.”

Currently, the OBC requirements on fan ratings are being reviewed by this Branch. The new developments in the residential fan industry with respect to flow and sound ratings are also being considered.

In the interim, where equivalent performance is being considered under the Section 2.7. of the OBC, the “1999 HVI Ratings” of individual fans, which have been considered compatible to CAN/CSA-C260, may be used on the basis of past performance. Fans can be identified by the model numbers listed on their rating plate and the model number can be referenced back to the “1999 HVI listings.” (See attached)

Ali Arlani
Date: July 9, 2001

Ontario Building Code Requirements:

Article 9.32.3.9.*

9.32.3.9. Fan Ratings

(1) Except as provided in Sentence (3), capacity and sound ratings for required fans shall be determined in accordance with CAN/CSA-C260, "Rating the Performance of Residential Mechanical Ventilating Equipment".

(2) Capacity ratings for required fans shall be based on a static pressure differential of 50 Pa (0.007 psi), 25 Pa (0.0036 psi) or 7.5 Pa (0.001 psi) depending on whether the fan is installed with ductwork connected on both sides, one side or neither side, respectively.

(3) Except for heat recovery ventilators, exhaust fans required to make up any part of the total ventilation capacity required by Article 9.32.3.3. shall have a sound rating not greater than that specified in Table 9.32.3.9. (See A-9.32.3. in Appendix A.)

Table 9.32.3.9.
Fan Sound Rating
Forming Part of Sentence 9.32.3.9. (3)

Type of Fan	Maximum Sound Ratings	
	Sone	dBA
Principal exhaust	2.5	55
Kitchen	3.5	60
Bathroom or water closet room	2.5	55
Supply	2.5	55
Column 1	2	3

(4) Required fans shall be installed according to the manufacturer's instructions.

(5) Mechanical ventilation devices shall conform to CSA-C22.2 No. 113, "Fans and Ventilators".

Please note that, this opinion is provided by the staff of the Housing Development and Buildings Branch of the Ministry of Municipal Affairs and Housing. As you know, under the Building Code Act, the local municipality is the authority having jurisdiction and is responsible for enforcing the Ontario Building Code Act and its Regulations.

Ali Arlani
Code Development & Training Section
Housing Development & Buildings Branch
Issued: July 9, 2001

* This information is provided for convenience only. For accurate reference, recourse should be had to the official volumes (Regulations.)

MODEL OR SERIES	HVI CERTIFIED CFM SONES	MODEL OR SERIES	HVI CERTIFIED CFM SONES	MODEL OR SERIES	HVI CERTIFIED CFM SONES
AEROFLO INC. VENTILATION TECHNOLOGY		Range Hood		BROAN MFG. CO., INC	
		160-30	Ver. 180 7.0		
			Hor. 180 7.0		
		170-30	Ver. 180 7.0		
			Hor. 180 7.0		
Continental Fan Mfg. Inc. Brnnd		180-30	Ver. 200 9.0		
			Ver.(Rd.) 250 8.5		
			Hor. 200 8.5		
		200-30	Ver. 200 9.0		
			Ver.(Rd.) 250 8.5		
			Hor. 200 8.5		
Inline Fa		250	Ver. 310 5.5	EB6	@ .03" SP 640
			Hor. 300 5.5		@ .10" SP 600
Elicent SPA, Elicent AXC, AXC 100A 90		350	Ver. 340 7.0	EB9	@ .03" SP 940
			Hor. 330 8.0		@ .10" SP 900
Elicent SPA, Elicent AXC, AXC100B 140				EB12	@ .03" SP 1230
Elicent SPA, AXC 15 200					@ .10" SP 1200
Elicent, AXC 200A 350				EB15	@ .03" SP 1530
					@ .10" SP 1500
		AMERICAN ALDES VENTILATION CORPORATION			
		American ALDES Brand			
AIR-KING LTD				Range Hood	
Air-King Brand				P6	600 7.0
				P12	1200 12.0
Bathroom		Exterior-Mou Room Ventilator			
				BROAN MFG. CO., INC	
AK80 90 1.5		XMVA4 110			
AK90 90 1.5		XMVA4H P 180			
AK130 130 2.5		XMVA6 220			
AK863L 100 3.5		XMVA6HP 360			
AK863FL 100 3.5		XMVA8HP 410			
AK917 70 4.0				Atti	
AK927 70 4.0		Inliir		350	1050
BF50 50 2.0				353(w/HVI louver)	900
BF60 60 3.0		P4 90		353(w/433shutter)	1140
BF75 70 4.0		P-4HP 150		355	1200
BF90 90 2.5		P-5 110		356	1600
BF120 120 4.0		P-6 220		358	1200
BFHL70 70 4.0		P-6HP 260			
BFQ 50 50 2.0		P-6RF 190		Bathroom	
BFQ 90 90 2.5		P-8 360			
BFQ 110 100 3.5		P-8HP 400		162	70 3.50
BFQ 140 120 4.0		P- 10 530		164	70 3.50
BFQ90 LC 90 2.5				655	70 3.50
BFQLC 100 3.5				657	70 3.50
FP 50 50 2.5				658	70 3.50
FP50L 50 2.5				659	50 2.50
BFLC 50 50 2.5				670	50 1.50
				671	70 3.00
				673	60 4.00
				676	110 4.00
				678	50 2.50

STATIC PRESSURES: Direct Discharge Fans, 0.03 in. wg Ducted Fans, 0.10 in. wg Inline Fans, 0.2 in. wg and optional points

MODEL		HVI CERTIFIED		MODEL		HVI CERTIFIED		
OR SERIES	CFM SONES	OR SERIES	CFM SONES	OR SERIES	CFM SONES	OR SERIES	CFM SONES	
BROAN MFG. CO., INC		S 150	150	3.0		Ver. HS+	230	3.5
Broan Brand (Continued)		S150L	150	3.0		Ver. LS+	110	0.3
		Downdraft Ventilator			7" RD	Ver. BS+	340	8.0
						Ver. HS+	220	4.0
						Ver. LS+	100	0.5
679	70	3.5	2700	500				
679FL	70	3.5			Kitchen:			
684	80	2.5	Exterior-Mou					
688	50	2.0	Room Ventilator		12C		380	5.5
688MH	50	2.0			12CMG		380	5.5
689	60	3.5	331	@ .03" SP	640 502		270	7.0
695	100	4.0		@ .10" SP	600 502MG		270	7.0
696	100	4.0	332	@ .03" SP	940 503		160	5.0
707	80	3.0		@ .10" SP	900 503MG		160	5.0
710	100	3.5	335	@ .03" SP	1230 504		350	6.5
712	100	3.5		@ .10" SP	1200 504MG		350	6.5
714	100	3.5	336	@ .03" SP	1530 505		180	5.0
720	100	3.5		@ .10" SP	1500 505MG		180	5.0
721	100	3.5			506		480	6.5
722	100	3.5	Inlin		506MG		480	6.5
730	70	3.5			507		250	4.5
732	70	3.5	MP100	@ .20" SP	110 507MG		250	4.5
735	70	3.5		@ .40" SP	98 508		270	6.0
740 BR	70	3.5	MP140	@ .20" SP	150 508MG		270	6.0
740 WH	70	3.5		@ .40" SP	141 509		180	5.0
741BR	70	3.5	MP200	@ .20" SP	210 509MG		180	5.0
741BRFL	70	3.5		@ .40" SP	200 509S		180	5.0
741WH	70	3.5	MP280	@ .20" SP	290 509SMG		180	5.0
741WHFL	70	3.5		@ .40" SP	265			
HD50	50	2.0	SP100	@ .20" SP	110	Other Rooms		
HD50L	50	2.5		@ .40" SP	97			
S50U	50	0.3	SP140	@ .20" SP	150 314	Ver.	120	1.5
HD80	80	2.5		@ .40" SP	133	Hor.	140	1.5
HD80L	80	3.5	SP200	@ .20" SP	210 314MG	Ver.	120	1.5
S80LU	80	0.6		.40" SP	195	Hor.	140	1.5
S80U	80	0.6			360	Ver.	100	1.5
S80UE	80	0.6	Range Hood- Kitch			Hor.	100	1.5
HS90	90	1.5			360MG	Ver.	100	1.5
MS90	90	1.5	QS1	Hor. HS+	200 4.0	Hor.	100	1.5
S90	90	1.5		Hor. LS+	110 1.5	Ver.	160	3.0
S110FLUE	110	1.5		Ver. HS+	190 4.0	Hor.	160	3.5
S110LU	110	1.5		Ver. LS+	110 1.5	Ver.	160	3.0
S110U	110	1.5	7"RD	Ver. HS+	210 4.0	Hor.	160	3.5
S110UE	110	1.5		Ver. LS+	120 1.5	Ver.	200	2.0
S120L	120	2.5	QS2	Hor. HS+	250 3.5	Hor.	200	2.5
S120FL	120	2.5		Hor. LS+	100 0.9	Ver.	200	2.0
HS120L	120	2.5		Ver. HS+	240 4.5	Hor.	200	2.5
MS120L	120	2.5		Ver. LS+	110 1.0	Ver.	300	4.5
MHS120L	120	2.5	7" RD	Ver. HS+	230 4.0	Hor.	300	4.0
S130	130	2.5		Ver. LS+	110 0.8	Ver.	300	4.5
HS130	130	2.5	QS3	Hor. DS+	400 7.0	Hor.	300	4.0
MS130	130	2.5		Hor. HS+	250 3.5			
				Hor. LS+	100 0.4			
				Ver. DS+	350 7.5			

STATIC PRESSURES: Direct Discharge Fans, 0.03 in. wg Ducted Fans, 0.10 in. wg Inline Fans, 0.2 in. wg and optional points

MODEL OR SERIES				HVI CERTIFIED CFM SONES				MODEL OR SERIES				HVI CERTIFIED CFM SONES			
BROAN MFG. CO., INC				90000				Ver. 360 5.5				N732 70 3.5			
Broan Brand (Continued)				Hor. 350 6.0				N735 70 3.5							
				103023 Ver. 360 5.0				NS90 90 1.5							
				Hor. 360 4.5				NS120LX 120 2.5							
365				Ver. 460 4.5				NS130 130 2.5							
				Hor. 460 4.5											
366				Ver. 940 6.0				Kitcher:							
				Hor. 960 6.0											
375				Ver. 750 7.0				Whole-House Fan				N505 180 5.0			
				Hor. 750 6.5								N509S 180 5.0			
383				Ver. 310 5.0				2220 3300							
				Hor. 310 4.5				2224 3600				Other Rooms			
383MG				Ver. 310 5.0				2230 5100							
				Hor. 310 4.5				2236 6850				N512 90 3.5			
Other Rooms				BROAN MFG. CO., INC				Range Hood							
510				380 5.0				NJ Ver. 200 5.5							
510MG				380 5.0				Hor. 200 6.0							
511				180 3.5				NN Ver. 150 5.5							
511MG				180 3.5				Hor. 150 6.5							
512				90 3.5				NV Ver. 160 5.5							
512M				70 3.5				Hor. 160 6.5							
				Atti				NX 190 5.5							
				N350 1050				NY Ver. 180 7.0							
Range Hood				N353 (HVI louver) 900				Hor. 180 6.5							
				N353 (433shutter) 1140											
320				420 6.0				Whole-House Fan							
323				1170 12.5				N2220 3300							
325				600 7.0				N2224 3600							
326				1200 12.0				N2230 5100							
1450				Ver. 200 6.5				N2236 6850							
				Hor. 240 6.5											
11000				Ver. 190 6.0				N162 70 3.5							
				Hor. 200 6.5				N164 70 3.5							
15000				300 4.5				N655X 70 3.5							
40000				Ver. 160 5.5				N657 70 3.5							
				Hor. 160 6.5				N671 70 3.0							
42000				190 5.5				N673 60 4.0							
46000				Ver. 180 7.0				N676 110 4.0							
				Hor. 180 6.5				N678 50 2.5							
52000				100 8.0				N679 70 3.5							
75000				Ver. 250 6.5				N679FL 70 3.5							
				Hor. 250 6.0				N688 50 2.0							
76000				Ver. 200 5.5				N707 80 3.0							
				Hor. 200 6.0				N709 80 3.0							
81000				250 6.5											
83000				Ver. 400 8.0				Bathroom							
				Hor. 400 7.5				N710X 100 3.5							
88000				Ver. 360 5.5				N712X 100 3.5							
				Hor. 350 6.0				N721X 100 3.5							
89000				Ver. 460 6.0				N722X 100 3.5							
				Hor. 440 7.0				N730 70 3.5							

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Kitcher:

89000

Ver.	460	6.0
Hor.	440	7.0
Ver.	360	5.5
Hor.	350	6.0
Ver.	360	5.0
Hor.	360	4.5
Ver.	360	4.5
Hor.	360	4.5

502	270	7.0	90000
503	160	5.0	
504	350	6.5	103023
505	180	5.0	
508	270	6.0	113023
509	180	5.0	

F684N 90 2.5 Other Rooms

712	100	3.5			
721	100	3.5	314	Ver.	120 1.5
722	100	3.5		Hor.	140 1.5
S50U	50	0.3	360	Ver.	100 1.5
S80U	80	0.6		Hor.	100 1.5
S90	90	1.5	361	Ver.	160 3.0
S90H	90	1.5		Hor.	160 3.5
S90M	90	1.5	362	Ver.	200 2.0 Atti
S110LU	110	1.5		Hor.	200 2.5
S110U	110	1.5	363	Ver.	300 4.5 3C246
S120L	120	2.5		Hor.	300 4.0
S120LH	120	2.5	365N	Ver.	510 5.5 3C453A
S120LM	120	2.5		Hor.	510 5.5
S120LMH	120	2.5	366	Ver.	940 6.0 5C052
S130	130	2.5		Hor.	960 6.0
S130H	130	2.5	375	Ver.	750 7.0 Bathroom
S130M	130	2.5		Hor.	750 6.5

Downdraft Ventilator	510	380	5.0	4C603A	80	3.0
				4C605	80	3.0
	511	180	3.5	4C606	70	3.5
2700 Hor. 500				4C607	70	3.5
	512	90	3.5	4C608	70	5.5
Exterior-Mou				4C819	50	2.5
Room Ventilator				4C820	60	3.0
				4C821	110	3.0

331 @ .03" SP 640 Range Hood

MODEL OR SERIES	HVI CERTIFIED CFM SONES	MODEL OR SERIES	HVI CERTIFIED CFM SONES	MODEL OR SERIES	HVI CERTIFIED CFM SONES
FERPAC PRODUCTS LTD.		Kitchen:		4C583 (76,000)	Ver. 200 5.5 Hor. 200 6.0
AIRA plus Brand		4C698 (502)	270 7.0	4C920 (88,3008)	Ver. 360 5.5 Hor. 350 5.5
		4C699 (503)	160 5.0	4C921 (88,3001)	Ver. 360 5.5 Hor. 350 5.5
		4C700 (504)	350 6.5	4C922 (86,3004)	Ver. 360 5.5 Hor. 350 5.5
		4C701 (505)	180 5.0		
		4C702 (506)	480 6.5		
		4C703 (507)	250 4.5		
		4C704 (508)	270 6.0		
Bathroom		4C705 (509s)	180 5.0	KANALFLAKT, INC.	
VS-B-P50M	50 2.5	4C706 (509)	180 5.0	Fan America Brand	
VS-B-L90	90 2.5	4C707 (12C)	380 5.5		
VS-B-P90M	90 2.5	5C053E (505MG)	180 5.0		
		5C054E (504MG)	350 6.5		
Range Hood		5C055E (509MG)	180 5.0		
		5C056E (507MG)	250 4.5	Bathroom	
HFC	Ver. 160 6.5 Hor. 170 6.0	5C057E (506MG)	480 6.5	SMV 80	80 0.8
HFR				SMV 100	100 1.2
3 x 10	Ver. 180 7.5	Other Rooms		SMV 140	120 1.5
3 x 10	Hor. 180 7.0	4C620 (360)	Ver. 100 1.5 Hot. 100 1.5	SMV 200	200 3.5
		4C621 (361)	Ver. 160 3.0 Hor. 160 3.5	KANALFLAKT, INC.	
W. W. GRAINGER, INC.		4C622 (362)	Ver. 200 2.0 Hor. 200 2.5	Fantech Brand	
Broan Brand Broan Model		4C623 (363)	Ver. 300 4.5 Hor. 300 4.0		
Atti				Exterior-Mou	
4C568 (355)	1200	W. W. GRAINGER, INC.		Room Ventilator	
4C671 (353-HVI Shtr)	900	Broan Brand Broan Model		RVF 4	110
4C671 (353-HVI Shtr)	1140			RVF 4 XL	180
2C520 (433 Lvr)				RVF 6	220
5C041 (350)	1050	Other Rooms	460 4.5	RVF 6 XL	360
5C042 (356)	1600	4C624 (365)	Ver. 460 4.5 Hor. 940 6.0	RVF 8 XL	410
Bathroom		4C625 (366)	Ver. 960 6.0 Hor. 180 3.5	Inlin	
4C050 (673)	60 4.0	4C634D (511MG)	180 3.5	CVS275A	220
4C374 (668)	50 2.0	4C708 (511)		CVS300A	320
4C375 (670)	50 1.5			CVS400A	380
4C376 (671)	70 3.0	Range Hood		F/FR 100	90
4C377 (676)	110 4.0	3C450 (12,000)	Ver. 300 4.0 Hor. 300 4.5	F/FR 110	150
4C378 (678)	50 2.5	4C401 (40,000)	Ver. 160 5.5 Hor. 160 6.5	F/FR 125	110
4C379 (655)	70 3.5	4C576 (40,000)	Ver. 160 5.5 Hor. 160 6.5	FR 140	190
4C480 (657)	70 3.5	4C578 (76,000)	Ver. 200 5.5 Hor. 200 6.0	F/FR 150	220
4C481 (663)	50 2.0	4C579 (76,000)	Ver. 200 5.5 Hor. 200 6.0	F/FR 160	260
4C538 (162)	70 3.5			F/FR 200	360
4C540 (164)	70 3.5			F/FR 225	400
4C772 (684)	80 2.5			F/FR 250	530
4C851 (658)	70 3.5			Range Hood	
4CK07 (s80u)	80 0.6			FT 190S	Ver. 170 5.5 Hor. 200 5.5
4CK08 (S110LU)	110 1.5				
4CK09 (S110U)	110 1.5				
5C097 (721)	100 3.5				
5C100 (689)	60 3.5				

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KANALFLAKT, INC.		Inlin		LS-100	110 1.5
Kanalflakt Brand		DF-180	180	QT-100FL	100 1.5
		IL-130	130	QT-100L	100 1.5
		IL-180	180		
		IL-280	260	Bathroom	
Bathroom		Other Room		QT-100LH	100 1.5
SQ 140	130 2.5	GM-130	120 1.0	QT-100LM	100 1.5
UQ 80	80 0.8	GM-180	170 2.0	QT-100LHM	100 1.5
UQ 100	100 1.2	GM-280	280 4.5	QT-110	110 2.0
UQ 140	120 1.5			QT-110H	110 2.0
UQ 200	200 3.5	NU TONE, INC		QT-130	Ver. 130 1.0
					Hor. 130 1.0
Inlin		NuTone Brand		QT-140L	Ver. 150 2.5
					Hor. 150 2.0
KP5	110			QT-150	Ver. 160 2.5
KP6	220				Hor. 160 2.5
EQ220	230	Atti		C350	50 2.5
EQ225	260	RF-49AM	1000	C350A	50 2.5
EQ225A	220	RF-49BR	1000	C350C2	50 2.5
EQ375	340	RF-49N	1020	C370	70 4.0
EQ375A	320	RF-49NR	1020	C370A	70 4.0
EQ450A	380	RF-49P	1020	C370C2	70 4.0
EQC165	160	RF-49RP	1000	F305C	50 3.5
		RF-49WG	1000	605RP	70 4.0
MIAMI-CAREY		RF-59N	1250	763RLN	50 2.5
Miami-Carey Brand		RF-59NRPSC	1250	665RF	70 4.0
		RF-59P	1250	665RP	70 4.0
		RF-8H	1530	665RSP	70 4.0
		RF-68HRPSC	1530	667RN	60 2.5
Bathroom		RF-69NR	1250	668RP	70 4.0
2516	120 4.0	WF-57	2090	769RF	70 3.0
PRO-60	60 3.0	GF-900	900	769RL	70 3.0
PRO-70	70 4.5	GF-1200 (w/HVI Louver	980	671R	90 2.5
S100	100 1.0	G F- 1200(w/GFL900 L	1250	672R	110 4.0
BF70L	70 2.5	R F-1000	1000	686	80 6.0
				695	70 4.0
Range Hood		Bathroom		696N	50 2.5
RH-200	200 9.5	LS-50	50 0.3	8663RLG	100 3.5
		LS-80	80 0.8	8663RF	100 3.5
		QT-80	80 1.5	8663RMAB	100 3.5
NATIONAL HVAC PRODUCTS		QT-90	90 1.5	8663RMBR	100 3.5
ZONEX Series		QT-90T	90 1.5	8663RMSA	100 3.5
				8663RP	100 3.5
				8664RP	100 3.5
				8673RP	100 3.5
Bathroom				8814R	110 4.0
GM90	80 2.5			8832WH	80 2.5
GM110	110 4.0			8832SA	80 2.5
				8833	80 3.0
				8870	80 6.0
				9093AB	70 3.5

STATIC PRESSURES: Direct Discharge Fans, 0.03 in. wg Ducted Fans, 0.10 in. wg Inline Fans, 0.2 in. wg and optional points

MODEL				HVI CERTIFIED				MODEL				HVI CERTIFIED			
OR SERIES				CFM SONES				OR SERIES				CFM SONES			
NuTone Inc				WS2	Hor. HS+	250	3.5	HCH 5200							
NuTone Brand					Hor. LS+	100	0.9	3x10	Ver.	430	10.0				
					Ver. HS+	240	4.5	FL 5300	Ver.	120	7.0				
					Ver. LS+	110	1.0	LL6100							
				7" RD	Ver. HS+	230	4.0	3x10	Ver.	160	6.0				
					Ver. LS+	110	0.8	3x10	Hor.	160	6.5				
9093BR	70	3.5	WS3	Hor. BS+	400	7.0	LL6100F								
9093CH	70	3.5		Hor. HS+	250	3.5	3x 10	Ver.	180	7.5					
9093FAB	70	3.5		Hor. LS+	100	0.4	3x10	Hor.	180	7.0					
9093FBR	70	3.5		Ver. BS+	350	7.5	7"Rd.					210	7.0		
9093FCH	70	3.5					RL6100								
9093FWH	70	3.5	Kitchen:				3x 10	Ver.	160	6.0					
9093WH	70	3.5					3x10	Hor.	160	6.5					
QT9093AB	110	2.5	8010SA		250	4.0	RL6100F								
QT9093BR	110	2.5	8010WH		250	4.0	3x10	Ver.	180	7.5					
QT9093CH	110	2.5	8070SA		160	4.5	3x10	Hor.	180	7.0					
QT9093WH	110	2.5	8070WH		160	4.5	7"Rd.					210	7.0		
9417D	70	4.0	8110SA		550	6.0	SL6100								
9417DN	70	4.0	8110WH		550	6.0	3 x 10	Ver.	180	7.5					
9427	70	4.0	8170SA		270	6.0	3 X 10	Hor.	180	7.0					
9427P	70	4.0	8170WH		270	6.0	7"Rd.					210	7.0		
9905	70	4.0	8210		210	6.5	SL6200								
9965	70	4.0	8310		180	5.5	3 x 10	Ver.	180	7.5					
9965F	70	4.0	8490		260	5.5	3 x 10	Hor.	180	7.0					
			8510		300	7.5	7"Rd.					210	7.0		
Exterior-Mou								LL6300							
Room Ventilator				Other Rooms				7"Rd.					190	6.0	
								RL6300							
RF-35	@	.10" SP	270	QT-200	Ver.	200	2.0	7"Rd.					190	6.0	
WF-35	@	.10" SP	270		Hor.	200	2.0	MM6500							
RF-40	@	.03" SP	1030	QT-300	Ver.	300	4.5	3xl 0	Ver.	190	7.0				
	@	.10" SP	1000		Hor.	300	4.5	3x10	Hor.	200	7.5				
RF-1N	@	.03" SP	660	QT-500	Ver.	460	5.0	7"Rd	Ver.	220	6.5				
	@	.10" SP	620	QT-500	Hor.	480	4.5	SM6500							
WF-1N	@	.03" SP	690	QT-700	Ver.	730	5.0	3x10	Ver.	190	7.0				
	@	.10" SP	650		Hor.	720	5.0	3x10	Hor.	200	7.5				
				QT-1000	Ver.	1040	6.5	7"Rd	Ver.	220	6.5				
Inline					Hor.	1030	7.0	TN8300	Ver.	250	5.5				
				8145		220	4.0		Hor.	250	6.0				
ILF 120		110						WA6500	Rnd.	200	5.6				
ILF 130		130		Range Hood				WA6500	Hor.	200	4.5				
ILF 250		250						WA6500	Vert.	210	5.0				
ILF 360		360		V91	Ver.	420	6.0	RL5300		120	7.0				
ILF 530		530			Hor.	400	5.5	RL5300NS		120	7.0				
				VP400				RL6100NS	Vert.	160	6.0				
Range Hood - Kitchen				3x10	Ver.	420	7.0	RL6100NS	Hor.	160	6.5				
				3x10	Hor.	410	6.5	LS-100					110	1.5	
WS1	Hor. HS+	200	4.00	VPU400				LS-100L					110	1.5	
	Hor. LS+	110	1.50	3x10	Ver.	400	6.5	LS-100LF					110	1.5	
	Ver. HS+	190	4.00	3x10	Hor.	400	6.5	LS-80L					80	0.8	
	Ver. LS+	110	1.50	SH 1000				LS-80LF					80	0.8	
7" RD	Ver. LS+	210	4.00	3xl 0	Ver.	320	5.0								
	Ver. LS+	120	1.50	HCH 5200											
				3x10	Ver.	390	10.5								
				HCH 5200											
				3x10	Ver.	320	10.0								

STATIC PRESSURES: Direct Discharge Fans, 0.03 in. wg Ducted Fans, 0.10 in. wg Inline Fans, 0.2 in. wg and optional points

MODEL OR SERIES	HVI CERTIFIED CFM SONES	MODEL OR SERIES	HVI CERTIFIED CFM SONES	MODEL OR SERIES	HVI CERTIFIED CFM SONES
NuTone Inc		8833NA	80 3.0	Range Hood	
NuTone Brand		9093CBR	70 3.5		
		9093CCH	70 3.5	SM6500	
		9093CWH	70 3.5	3 x 10	Ver. 190 7.0
				3 x 10	Hor. 200 7.5
Whole-House Fan		Exterior-Mou		7" Rd.	220 6.5
		Room Ventilator		TN8300	5.0
WHV-20 @ 01" SP	3202	RF-35 @ .03" SP	290	3 x 10	Ver. 250 5.0
WHV-24DD	2800	RF-35 @ .10" SP	270	3 x 10	Hor. 250 6.0
WHV-30 @ 0.1" SP	4800	WF-35 @ .03" SP	290	PANASONIC/ MATSUSHITA ELECTRIC CORPORATION OF AMERICA	
		RF-40 @ .10" SP	270		
WHV-30BD	5600	RF-40 @ .03" SP	1030		
		RF-1N @ .10" SP	1000		
WHV-36BD	6800	RF-1N @ .03" SP	660	Panasonic Brand	
		WF-1N @ .10" SP	620		
			690		
			@ .10" SP 650		
NU TONE, INC		Kitchen:			
NuTone Brand		807C	160 4.5	Ventilating F	
		807WHC	160 4.5		
		811C	550 6.0	FV-05VQ	50 0.5
		811WHC	550 6.0	FV-07VQ	70 0.5
Bathroom		817C	270 6.0	FV-07VQL	70 0.5
QT-80	80 1.5	817WHC	270 6.0	FV-08VQ	90 1.0
QT-90	90 1.5	821C	210 6.5	FV-08VQL	90 1.0
QT-110	110 2.0	822C	170 4.0	FV-11VQ	110 1.5
QT-130 Ver.	130 1.0	831C	180 5.5	FV-11VQL	110 1.5
Hor.	130 1.0	831WHC	180 5.5	FV-12VQ	110 1.0
QT-140L Ver.	150 2.5	849C	260 5.5	FV-20VQ	190 1.5
Hor.	150 2.0	851C	300 7.5	FV-35VQ	340 3.0
QT-150 Ver.	160 2.5				
Hor.	160 2.5	Other Rooms			
QT-200 Ver.	200 2.0			RANGAIRE, INC	
Hor.	200 2.0	QT-500 Ver.	460 5.0		
QT-300 Ver.	300 4.5	Hor.	480 4.5	Rangaire Brand	
Hor.	300 4.5	QT-700 Ver.	720 5.0		
763RLN	50 2.5	Hor.	730 5.0		
667RN	60 2.5	QT-1000 Ver.	1040 6.5		
769RF	70 3.0	Hor.	1030 7.0		
769RL	70 3.0				
671R	90 2.5	Range Hood		Kitchen:	
672R	110 4.0				
695	70 4.0	V-91 Ver.	420 6.0	PM 25-100	250 6.0
696NC	50 2.5	Hor.	400 5.5	PM 44-221	410 5.5
8663RLG	100 3.5	RL6100F			
8663RP	100 3.5	3 x 10	Ver. 180 7.5	Range Hood	
8663RMSA	100 3.5	3 x 10	Hor. 180 7.0		
8663RMBR	100 3.5	7" Rd.	210 7.0	H518-100	Ver. 180 6.0
8673RP	100 3.5	SL6100		H520-300	Ver. 220 8.0
8814R	110 4.0	3 x 10	Ver. 180 7.5		Ver. 190 7.0
8832NA	80 2.5	3 x 10	Hor. 180 7.0		Hor. 160 7.0
		7" Rd.	210 7.0		

STATIC PRESSURES: Direct Discharge Fans, 0.03 in. wg Ducted Fans, 0.10 in. wg Inline Fans, 0.2 in. wg and optional points

MODEL OR SERIES				MODEL OR SERIES				MODEL OR SERIES			
HVI CERTIFIED CFM SONES				HVI CERTIFIED CFM SONES				HVI CERTIFIED CFM SONES			
RANGAIRE, INC				REVERSOMATIC HEATING AND MANUFACTURING LTD.				Other Rooms			
Rangaire Brand (Continued)				Air Specialty Car Limited Brand				QCF125	110	1.5	
H725-30	Ver.	250	8.0					QCF 150	130	2.5	
	Ver.	200	7.0					QCF200	200	4.0	
	Hor.	170	7.0					QCF300	280	4.0	
H725-42	Ver.	250	6.5	Inlin				QCF400	350	4.0	
	Hor.	250	6.0	SMP260	200			QCF500	500	4.0	
H728-32	Ver.	280	7.0	SMP350	290			QCF600	640	5.5	
	Ver.	220	8.0					QCF800	690	6.0	
	Hor.	210	8.0	Other Rooms							
H728-35	Ver.	280	7.0	QCF-125	110	1.5		1000-160	140		
	Ver.	220	8.0					1000-225	230	11.0	
	Hor.	210	8.0	Range Hood				2000-200	200	5.5	
H741-22	Ver.	410	5.5	2000	200	5.5		3000-300	250	6.0	
	Hor.	400	6.0	4000	200	5.5		4000-200	200	5.5	
								RH-5000	120	4.5	
Range Hood - Kitchen				THE RIVAL COMPANY							
RQ4	Hor. HS+	200	4.0	Reversomatic Brand				Patton Brand			
	Hor. LS+	110	1.5								
	Ver. HS+	190	4.0								
	Ver. LS+	110	1.5								
7"RD	Ver. HS+	210	4.0								
	Ver. LS+	120	1.5								
RQ6	Hor. HS+	250	3.5	Bathroom							
	Hor. LS+	100	0.9								
	Ver. HS+	240	4.5	EB45	50	2.5					
	Ver. LS+	110	1.0	EB50	60	2.5					
7"RD	Ver. HS+	230	4.0	EB55	60	3.5					
	Ver. LS+	110	0.8	EB-100	100	3.0					
RQ8	Hor. BS+	400	7.0	QB-80	60	2.0					
	Hor. HS+	250	3.5	QB- 100S	90	2.5					
	Hor. LS+	100	0.4	RS-85	80	2.5		A647	50	2.0	
	Ver. BS+	350	7.5	RS-95	80	1.5		A6641C	50	3.0	
	Ver. HS+	230	3.5					A692	70	3.0	
	Ver. LS+	110	0.3	Kitchen				A698N	70	3.5	
7"RD	Ver. BS+	340	8.0					A728N	100	4.0	
	Ver. HS+	220	4.0	QK-100	130	4.5					
	Ver. LS+	100	0.5								
				Inlin							
				DK260	230			AD782BR	60	2.0	
				SMP260	200			B648	60	3.0	
				SMP350	290			B560	70	4.5	
				TLD 200	180			B660W	70	4.0	
				TLD 240	210			B748	70	2.5	
				TLD 340	320			E6671C	70	2.5	
								TC 667	70	2.5	
								TC 797	70	2.5	
								656TP	70	4.5	
								659	70	4.0	
								691	70	3.5	

STATIC PRESSURES: Direct Discharge Fans, 0.03 in. wg Ducted Fans, 0.10 in. wg Inline Fans, 0.2 in. wg and optional points

MODEL OR SERIES	HVI CERTIFIED CFM SONES	MODEL OR SERIES	HVI CERTIFIED CFM SONES	MODEL OR SERIES	HVI CERTIFIED CFM SONES
THE RIVAL COMPANY		SPRUCE ENVIRONMENTAL TECHNOLOGIES, INC.		UNIVERSAL METAL INDUSTRIES, INC.	
Patton Brand (Continued)		Spruce Brand		Trade Wind Brand	
761	70 2.0	Inlin		Bathroom	
763	90 2.5			VQT90	90 2.0
765	110 3.5	DB100	@ .20"SP	120 VQT200	220 2.7
7681C	90 2.5		@ .00"SP	139 VQT300	320 4.8
7701C	110 3.5		@ .50"SP	91 VQT400	410 6.1
782W	60 2.0	RB300	@ .20"SP	290	
794	70 3.0		@ .00"SP	307	
1001	100 2.5		@ 1.0"SP	182 AF7M	290 5.0
1001F	100 2.5	RB400	@ .20"SP	470	
1100W	70 4.0		@ .00"sP	510	
6060	60 2.5		@ 1.0"sP	269	
6060L	60 2.0	RB500	@ .20"SP	460	
6080	80 3.0		@ .00"SP	498	
6080L	80 2.5		@ 1.0"sP	254	
6100	100 3.5	RV100	@ .20"SP	100	
6100L	100 3.0		@ .00"SP	113	
7100	100 1.0		@ .50"SP	72	
7100L	100 1.0	RV125	@ .20"SP	110	
7130	130 2.5		@ .00"SP	116	
7150	150 3.5		@ .50"SP	98	
7150L	150 3.0	RV150	@ .20"SP	140 TFK6	220 0.2
			@ .00"SP	152 TFK6S	260 0.2
Kitchen:			@ .50"SP	120	
760L	230 7.0	RV175	@ .20"SP	160	
898L	190 6.0		@ .00"SP	174	
899L	250 6.5	RV200	@ .50"SP	137	
1047	480 7.0		@ .20"SP	170	
1080	330 7.0		@ .00"SP	184	
			@ .50"SP	145	
Range Hood		RV250	@ .20"SP	190	
B265			@ .00"SP	218	
3-1/4 x 10 Ver.	160 7.0		@ .50"SP	150	
3-1/4 x 11 Hor.	160 5.5	TAIWAN SAKURA CORP.			
B267		Taiwan Sakura Brand			
7 "Rd.	180 7.5				
Whole-House Fan					
2438	3900	Kitchen:			
3038R	5500	R727	390 8.5		
3638R	7100				

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