Residential Ventilation Issues

by Dara Bowser & Bob Allison

Inspector/Operator Information Resources

In the last issue of the OBOA Journal, we wrote about the need for informational support to homeowners, and the need to encourage annual service & maintenance. We also promised to follow-up with resources that are available to inspectors to educate homeowners.

CANADA MORTGAGE & HOUSING

CMHC of course, has a wide variety of useful publications for builders and consumers that are useful.Some publications worthy of note are:

- How to Improve the Quality of Air in Your Home
- Clean-Up Procedures for Mold in Houses
- The Clean Air Guide

The information products catalogue; All About Housing is available from:

Canadiar	n Housing Inform	ation Co	entre (CHK	3)
	700 Montreal Roa	id, Ottav	ra, Ontario.	K1A OP7
	. 613-748-2367			
Fax:	. 613-748-4069	TTY	BOO-	309-3388
Email: .		d	nic@amhc-:	schl.ac.ca
			vww.cmhc-	

ONHWP

The famous ONHWP "Ventilation Redbook" is handy for explaining ventilation requirements. There is a consumer-oriented booklet as well. Contact:

ONHV
800-668-)
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i160 Yon Iorth Yor
ge St, 6th k, Ont.M2
Floor N 6L9

OPERATING & MAINTAINING YOUR HRV

NRCan (Natural Resources Canada) booklet; *Home Heating & Cooling Series #8*. This free, brochure-sized booklet contains clear, concise, well-illustrated information such as:

- Need for ventilation
- HRV System Description
- · Need for Balancing
- Operating your HRV
- Maintenance Requirements (Homeowner and Technician)
- Trouble shooting Guide Get this free booklet from:

Energy Pa	ublications:	
•	c/o Canada Communications Grou	
 .	Ottawa Ont, K1A 05	
Tel: Fax:	613-995-2943 Tel: 800-387-200 819-994-1498	w
Web:		28

HRAI CERTIFIED VENTILATION INSTALLER/DESIGNER LIST

Twice a year, HRAI prepares a current list of all persons who have been certified under their ventilation installer/designer program. Printed lists are available sorted by municipality or name. The list is also available as a data-file. Contact Lynn Bartoshuk at:

HRAI:	504	5 Orbitor Dr	. Bidg 11, Suite 300
		Mississi	auga, Ont. LAW 4Y4
Tel:	. 905-602-4700	2 1000 TO 100 TO	800-267-2231
Fax:	. 905-6 02-1197	000000000000000000000000000000000000000	***************************************
Email:		* * * * * * * *	tbartoshuk@hrai.ca

HRV MAINTENANCE CHART		
		ing schodule. If service or maintenance items not specified below are
Maintenance Required	Recommended	Date Maintenance Performed
Clean or replace air filters	Every 1 to 3 munities	
Clean or unblock outside hoods and screens	Every 1 to 3 months*	
Inspect and clean heat-exchange core	Every 6 months	
rispect and clean condensate drain and pans	Every 6 meinths	
Service and clean fans	Every 1 to 6 months	
linan grilles and inspect ductwork	Annually	
Check defrost system	Annually	
General servicing by a qualified contractor	Annually	
Adjust dehumidistat controls	Seasonally	
Balancing	Supply airflow	
	Exhaust airfkw	
ou may want to alter this schedule to meet your own nee	eds, depending on the severity of your home ation that is dusty, has high traffic flows, etc.	e's indigin and outdoor environments or the manufacturer's recommendations. More
ontractors	Telephone number	
	8.000 × .000 × .000 ×	
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HRAI COMPLAINT & ARBITRATION PROCEDURE

HRAI will investigate complaints against it's certified Ventilation Installers and Designers. HRAI will assist in determining if the installer or designer complied with the appropriate codes and good practice. If appropriate, the offending installer or designer's certification will be removed. For more information, or if you have an installation concern, call Gord Arnott at HRAI, email; garnott@hrai.ca. (See box for address and telephone numbers.)

FAN SWITCH & RETURN AIR LABELS

OBC sentences 9.32.3.4(4) & 9.32.3.6.(5) require labels on Principal Fan Switches and Circulation Fan Switches. Some Municipalities also use a label affixed to the return air duct which clearly indicates whether the house is Type I, II, III or IV. Markham and Haldimand Norfolk have obtained these labels from:

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The Municipality of Cambridge has obtained labels from Highland Print Craft in Cambridge. Contact Rob Galway @ 519-621-5390.

VENTILATION MANUFACTURERS

Most manufactures of ventilation equipment are willing to become involved to resolve complaints and participate in general information activities. Many have excellent consumer-oriented publications. The NRCan booklet above has a list of HRV manufacturers that is quite current. There is also a listing of ventilation manufacturers (both fans and HRVs) in the HVI Certified Home Ventilation Products Directory which is available from:

Home Ventilating Institute: Division of AMACA 30 West University Drive Arlington Heights, Illinois, 60004-1893 Tel: . . . 847-394-0150 Fax: 847-253-0088 Email: amca@amca.org

Of course this directory also lists sound, airflow and efficiency data for fans and HRVs.

HRAI RESIDENTIAL VENTILATION MANUAL

This manual was substantially revised in August 1996. It now contains a comprehensive section on trouble shooting and maintenance.

Although you may have an older version of this manual, the new version contains many new forms in a "submittal" format for new housing (e.g. Single Duct Design Worksheet W6A). Get it from Elizabeth Tarczy at HRAI, email; etarczy@hrai.ca. (See other references for address and telephone numbers.)

ANY OTHER INFORMATION?

If any members know of other helpful information we would be happy to print them here.

- *Dara Bowser is an HRAI Ventilation Instructor, an associate member of the <u>CSA</u> <u>Technical Committee on Residential</u> <u>Mechanical Ventilation</u>. Dara has been involved in residential ventilation as a consultant, manufacturer, and trainer for the past 15 years. D_bowser@compuserve.com
- *Bob Allison is the Deputy Chief Building Official of the Regional Municipality of Haldimand-Norfolk and has 23 year's experience as a building official. Bob takes a keen interest in ventilation and has assisted in the development of the 2-day OBOA Ventilation Workshop for Building Officials.

NOTE: Although this column has appeared under the title "HRAI Commentary" in the past, readers should note that HRAI no longer endorses the content. The opinions expressed in this column are those of the writers and do not reflect the views of HRAI, OBOA or any other agency, corporation or individual.