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To: GAF Residential Sales, GAF Contractors, Field Services, AIS, CARE

From: Technical Services Department

Date: 08/05/2020

***Power Attic Vents & the Importance of Proper Attic Intake Ventilation***

<b><i>Master Flow® Power Attic Vents</i></b>	GAF Master Flow® Power Attic Vents help to exhaust excessive heat and moisture from the attic which can help protect the roof system from premature degradation, reduce air conditioning load in the summer, and mitigate the risk of ice damming in the winter.
<b><i>Installing or Replacing a Power Attic Vent</i></b>	<p>Master Flow® Power Attic Vents may be more powerful in terms of CFM (Cubic Feet per Minute) airflow than some other power attic vent models on the market. While more power and airflow help to exhaust heat and moisture at a faster rate, <b>the more powerful the vent, the more intake ventilation at or near the soffit required.</b></p> <p><b>For example,</b> a power vent with 800 CFM airflow requires a minimum of 384 sq. inches of attic intake ventilation. If you replace that vent with a Master Flow® Power Attic Vent - ERV5 model, which has 1,250 CFM airflow, 600 sq. inches of attic intake ventilation will be required. That’s a <b>56%</b> increase in minimum required intake ventilation for a balanced ventilation system.</p>
<b><i>Proper Intake Ventilation is Critical!</i></b>	<p>Whether new or retrofit installation, when installing power attic vents it is critical to ensure the proper amount of attic intake ventilation has been installed at or near the soffit area of the roof. <b>Below are some potential issues that can arise with insufficient intake ventilation:</b></p> <ul style="list-style-type: none"> <li>● Motor burn-out or reduction in overall lifespan</li> <li>● Increased vibration/noise during vent operation</li> <li>● Decreased effectiveness and efficiency of the vent</li> <li>● Instead of pulling in cooler/dry air from the properly installed intake vents, the vent may pull in outside weather from other areas of the ventilation system, e.g. ridge vent</li> <li>● Insufficient intake ventilation is <b>NOT</b> a manufacturing defect in the vent. Related issues that could arise may not be covered under the limited warranty.</li> </ul>
<b><i>Balancing Your Attic Ventilation System</i></b>	It is always important to have a balanced attic ventilation system. The amount of exhaust ventilation should <b>NEVER</b> exceed the amount of intake ventilation. Use <b>Table 1: Minimum Intake Ventilation</b> on the <a href="#">next page</a> to ensure you have the minimum required intake ventilation at or near the soffits for each Master Flow® Power Attic Vent. You can also consult the product data sheets, packaging, or visit <a href="http://www.gaf.com/ventcalculator">www.gaf.com/ventcalculator</a> .

<b>How Much Intake Ventilation is Needed?</b>	<b>Table 1: Minimum Intake Ventilation</b>		
	<b>GAF Master Flow® Power Attic Vents</b>	<b>CFM Airflow</b>	<b>Minimum Intake Ventilation Required for Each Vent (Net Free Area in Sq. In.)</b>
	<i>Roof Mount:</i>		
	ERV4	1,000	480
	EZCR1	1,050	504
	ERV5 / Wi-Fi ERV5QCT	1,250	600
	ERV6	1,500	720
	<i>Gable Mount:</i>		
	EZCG1	1,375	660
	EGV5 / Wi-Fi EGV5QCT	1,450	696
	EGV6	1,600	768
	<i>GreenMachine™ Solar &amp; Dual-Powered:</i>		
	ERVSOLAR / ERVHYBRID	525	252
	PGSOLAR1	685	329
	PRSOLAR2 / PRHYBRID2	750	360
Visit <a href="http://www.gaf.com/ventcalculator">www.gaf.com/ventcalculator</a> for more information.			
<b>Effects on Warranty Coverage</b>	<p>While many factors can affect how long your power attic vent (“Fan”) will last, the <b>Master Flow® Powered Ventilation Products Limited Warranty</b> covers your Fan in the unlikely event that it contains a <b>manufacturing defect</b>. Even if your Fan was not properly installed according to GAF’s published application instructions, this limited warranty remains in effect if your Fan fails to perform as a result of a manufacturing defect. However, GAF will <b>NOT</b> compensate you for damage from anything other than an inherent <b>manufacturing defect</b> in your Fan, such as improper installation of your Fan or insufficient intake ventilation.</p> <p><b>Note:</b> See <i>Master Flow® Powered Ventilation Products Limited Warranty</i> for complete coverage and restrictions. This limited warranty does not cover other GAF Products on your roof.</p>		
<b>Further Questions?</b>	<p><b>GAF Master Flow® Technical Services</b> can be contacted at 1-800-211-9612. The GAF website is also a great resource for just about any question you may have or for additional information you may require. Please visit <a href="http://www.gaf.com">www.gaf.com</a> to find the latest information on our products and their installation.</p>		