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## Quick Guide Retrotec 3300 Series High Power Fan

The Retrotec 3300 Calibrated Fan with Variable-Frequency Drive is designed for testing any residential house or enclosure from 9 ft<sup>2</sup> (0.8 m<sup>2</sup>) of leakage down to tight houses and small enclosures with 3 in<sup>2</sup> (20 cm<sup>2</sup>).






Your Retrotec 3300-series fan uses a precision piezometric ring on the inlet motor nacelle to ensure accurate flow readings. The eight-point fan mount makes this calibrated fan the strongest made. Your fan also includes a variable-frequency drive equipped with a built-in computer that enables the fan to be controlled by the DM-2A gauge. The drive is capable of auto switching the fan between 100-140 or 210-260 volts AC. The drive accepts 50 to 60 Hz in without the power loss typically associated with 50 Hz. The drive also supplies battery recharge power to the DM-2A digital gauge.



1. Unpack your fan and drive. Install your hard panel set or cloth panel in the door opening (see the instructions included with your door panel for more information).

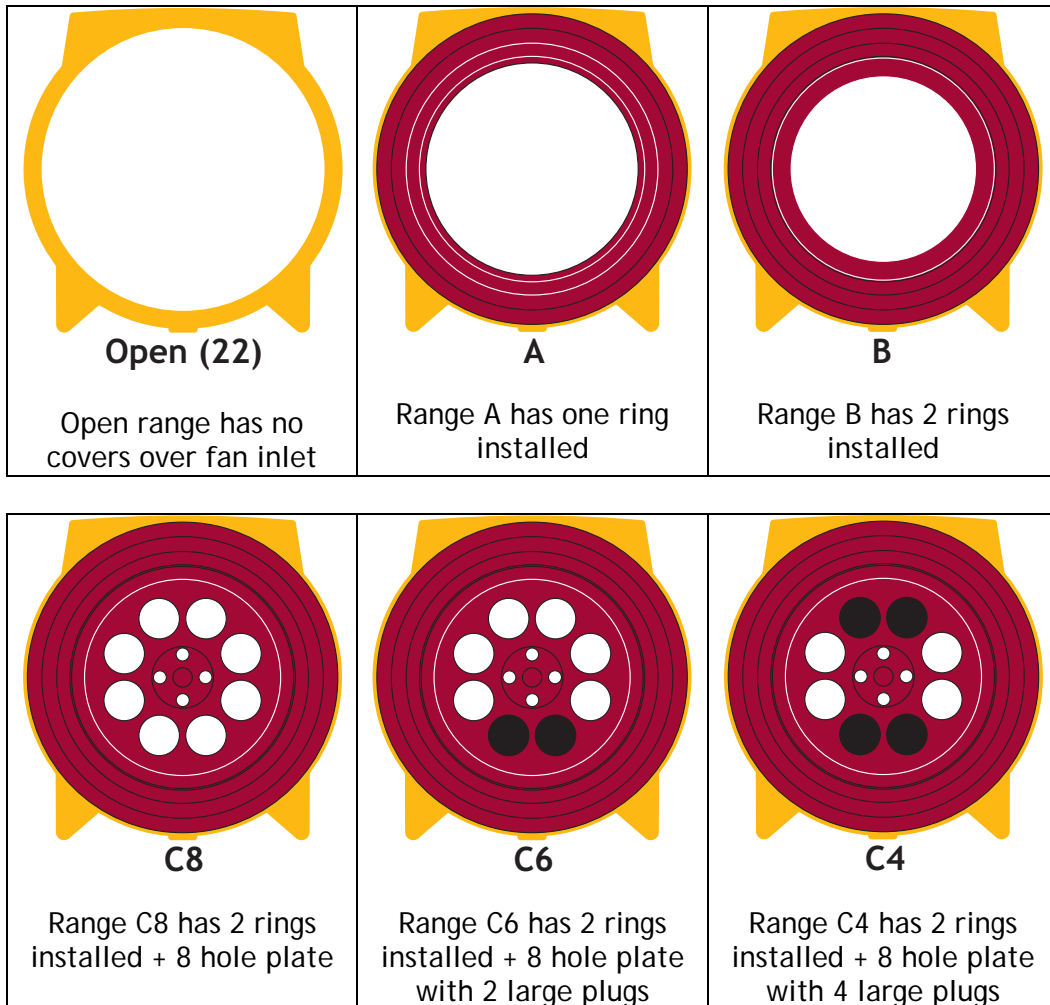


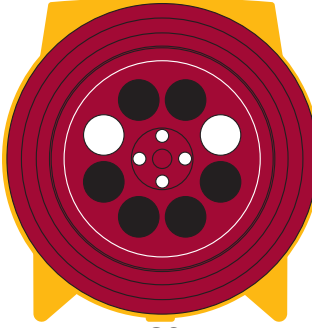
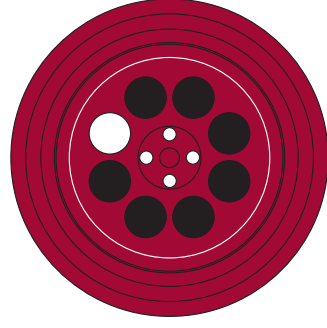
<p>2. Plug the yellow tube from the power supply and the power connector into the corresponding ports on the fan top.</p>	
<p>3. Connect the grey hose labeled <i>Output 230 VAC 3-Phase</i> on the drive to the port labeled <i>240 Volt 3-Phase Input</i> on the fan top. Align the notch on the hose with the slot on the port. Completely insert and turn the connector clockwise until locked.</p>	
<p>4. Insert the main power cord into the port labeled <i>Main Power</i> on the fan drive. Plug the pronged end of the power cord into a wall outlet or other power source. Your fan and drive are now connected.</p>	

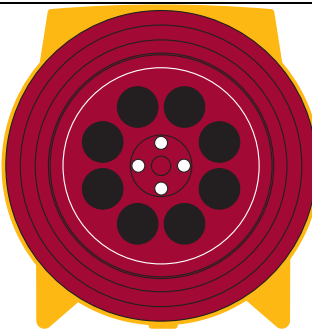
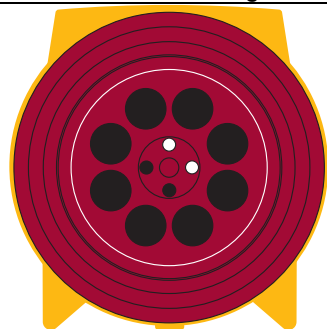
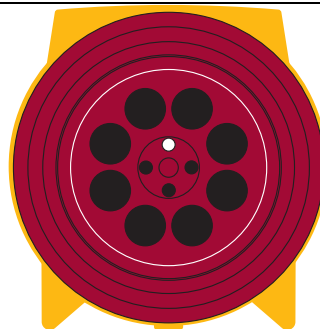
# Range

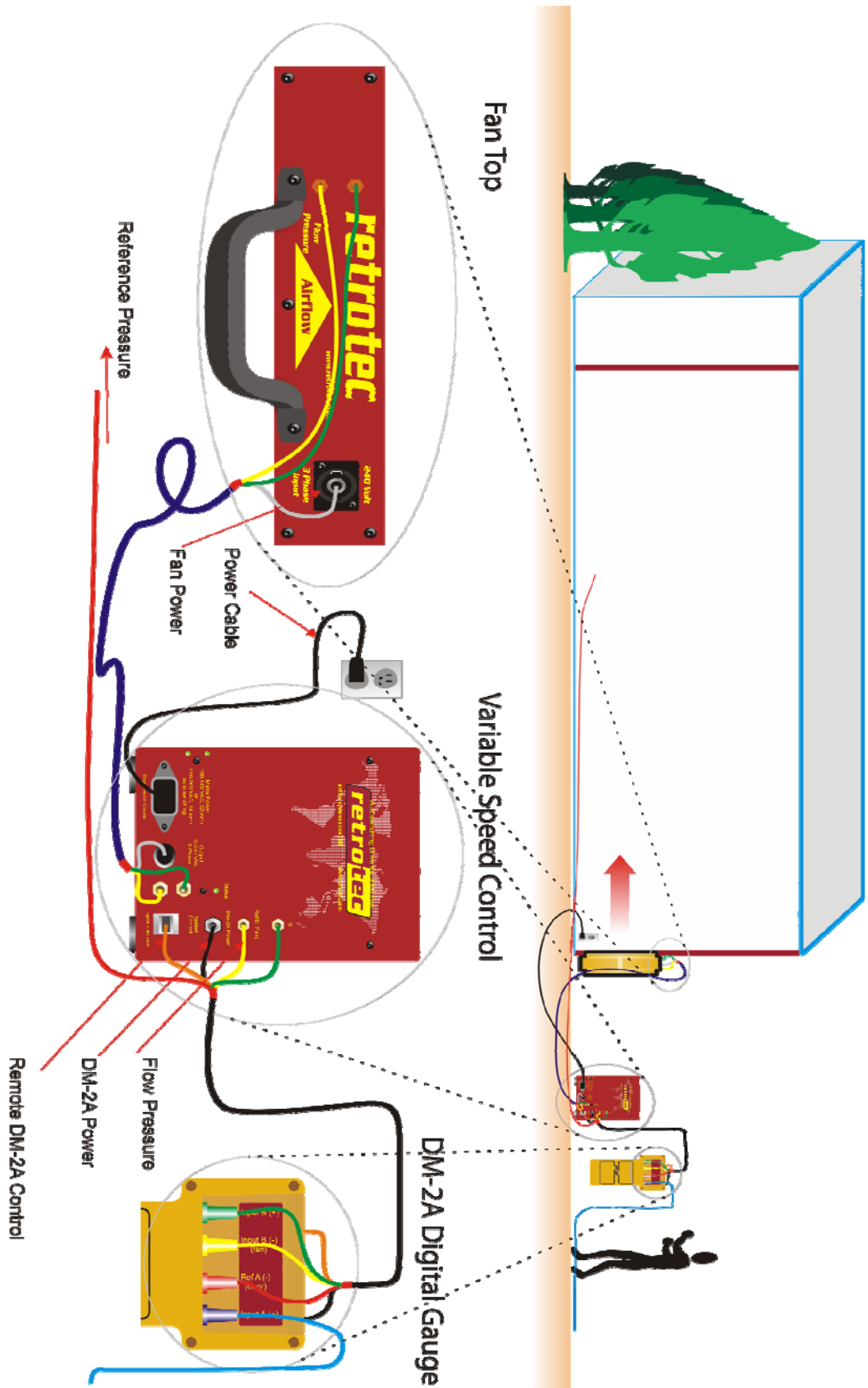
# Configurations

Fans have various flow restrictor range configurations which enable you to test enclosures with larger or smaller leakage areas. Using a combination of various-sized fitted rings and plugs the fan opening can be enlarged or reduced. Only when the proper configuration and device is set can accurate results be achieved.



 <p style="text-align: center;"><b>C2</b></p> <p>Range C2 has 2 rings installed + 8 hole plate with 6 large plugs</p>	 <p>Range C1 has 2 rings installed + 8 hole plate with 7 large plugs</p>	<p>L4, L2, and L1 ranges measure extremely low flow. Since they will seldom be used, tape is used to seal these holes.</p>
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Extra Low Ranges		
 <p style="text-align: center;"><b>L4</b></p> <p>Range L4 has 2 rings installed + 8 hole plate with 8 large plugs</p>	 <p style="text-align: center;"><b>L2</b></p> <p>Range L2 has 2 rings installed + 8 hole plate with 8 large plugs and 2 small plugs</p>	 <p style="text-align: center;"><b>L1</b></p> <p>Range L1 has 2 rings installed + 8 hole plate with 8 large plugs and 3 small plugs</p>



Normally you do not need to hook up a blue or green tube.

Many 3000 fans have only one flow pressure connection on the fan top itself and do not need the green tube. In this case, select "Retrotec 3000" as the "Device" on the DM-2.

If there are two connections on the fan, you may connect the yellow and green tube to the fan. This is only necessary for more advanced testing where more than one fan is being used to selectively test one area versus another but it is never wrong to make both connections but it may not be necessary. If you do decide to connect the green tube to the fan, select "Retrotec 3000SR" as the "Device" on the DM-2 not "Retrotec 3000".

The blue tube need not be connected unless the area where the gauge is located is being buffeted by flow from the fan. In this case, attaching a tube to the blue port and leading it away from the fan flow, will stabilize gauge readings.