

**INTERPRETATION IC 62.2-2007-7 OF
ANSI/ASHRAE STANDARD 62.2-2007
Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings**

Approved April 19, 2010

Request from: Bruce Wilcox (bwilcox@lmi.net), 1110 Monterey Ave, Berkeley, CA 94707.

Reference: This request for interpretation refers to the requirements presented in ANSI/ASHRAE Standard 62.2-2007, Section 6.7, regarding minimum air filter efficiency and pressure drop performance requirements.

Background: The ASHRAE 62.2-2007 Residential Ventilation Standards for Indoor Air Quality were adopted by reference in the 2008 Update to California's Building Energy Efficiency Standards (Title 24, Part 6) which became effective on January 1, 2010. The ASHRAE 62.2-2007 Standard language adopted by California includes the requirement for thermal conditioning equipment to have air filters that meet a minimum MERV 6 efficiency, and the filters must be selected and sized to operate at a clean pressure drop no greater than 0.1 inch w.c. unless the equipment is designed or selected to accommodate an additional pressure drop imposed by the filter selection greater than 0.1 inch w.c.. Air conditioning system designers need access to pressure drop vs. airflow rate data for these filters in order to size and specify HVAC systems that perform properly with these filters. Filter performance data specifying resistance vs. airflow rate has not typically been published with the MERV rating, thus this necessary information has not been made available to system designers. AHRI Standard 680-2009, Performance Rating of Residential Air Filter Equipment, relies on procedures specified in ANSI/ASHRAE Standard 52.2-2007, Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size, and could be utilized by air filter manufacturers to publish performance ratings that provide system designers with particle size efficiency and air filter pressure drop vs. airflow rate performance data needed for performing system design. Reference Table 1 (Example of Format for Published Rating) of AHRI Standard 680-2009.

Interpretation No.1: Air filter performance ratings determined using AHRI Standard 680-2009 can be utilized to demonstrate compliance with the MERV 6 requirement in ASHRAE Standard 62.2 Section 6.7.

Question No.1: Is this Interpretation correct?

Answer No.1: Yes

Comment No.1: An air filter with a rated performance for particle size efficiency greater than or equal to 50% in the 3.0-10.0 μm range determined utilizing AHRI Standard 680 meets or exceeds the MERV 6 requirement in ASHRAE Standard 62.2-2007 Section 6.7.

Interpretation No.2: Air filter performance ratings determined using AHRI Standard 680-2009 can be utilized to demonstrate compliance with the maximum clean pressure drop requirements in ASHRAE Standard 62.2 Section 6.7.

Question No.2: Is this Interpretation correct?

Answer No.2: Yes

Comment No.2: The values for Initial Resistance (inch H₂O) vs. Airflow Rate (cfm) reported by AHRI Standard 680-2009 provide the clean pressure drop performance information necessary to determine compliance with the requirements of ASHRAE Standard 62.2-2007 Section 6.7.