

Kirk T. Mescher, P.E., LEED® AP
Principal
CM Engineering, Inc.
Columbia, MO



Mr. Mescher is a licensed professional engineer and founding partner of CM Engineering, Inc., Columbia, MO. He has been with the firm since 1993. He is also a certified LEED® AP (Accredited Professional) with United States Green Building Council (USGBC) since 2004.

Professional and Civic Affiliations

Active member of ASHRAE since 1979. He has participated as a member of the following committees:

- TC 6.8 Geothermal Energy Utilization
- TC 9.4 Applied Heat Pumps
- TC 5.5-Air to Air Energy Recovery, 1997-1999;
- SSPC 84 Committee;
- ASHRAE Program Committee;
- ASHRAE Conference & Expositions Committee.

Recognition/Awards

- Award for “Distinguished Service,” 2009-ASHRAE.

Professional Accomplishment

- Product Development SEMCO Energy Recovery.
- Development of “One-Pipe” Geothermal HVAC System.

Co-Patent holder

- 5,496,397, USA, Application of desiccants to aluminum foil substrates.

His specific areas of expertise include air-to-air energy recovery, hot and chilled water, water-source heat pump systems, various types of lighting systems, and commissioning. His extensive experience throughout his career has lead to the design-development of a “High-Efficiency One-Pipe” geothermal heating and cooling system.

“One-Pipe” Geothermal Systems were developed to provide a cost effective, high efficiency, simplified application of heat pump systems. By simplifying, the mechanical system costs for geothermal systems have been reduced to a level that they are now competitive with traditional 2-Pipe HVAC systems while providing energy consumption savings in excess of 40% over ASRAE 90.1 requirements. Numerous elementary school geothermal system renovations have resulted in certified Energy Star ratings in excess of 90.