

At Section 25 90 00 (currently as follows):

Document	Version Date	Description
Pumps with VFD's	January 2008	Intended for variable flow HVAC pumping systems using duty/standby pumps with monthly exercise cycle and variable speed drives.
Pumps without VFD's	January 2008	Intended for constant (or staged) flow HVAC pumping systems using duty/standby pumps with monthly exercise cycle.
Heat Exchanger with two valves. 1/3 - 2/3	January 2008	Intended for steam to hot water heat exchangers that have relatively standard operating range and control precision requirements.
Heat Exchanger with two valves. 1/4 - 3/4	January 2008	Intended for steam to hot water heat exchangers that are anticipated to have a very wide operating range and/or require finer part load control precision.
Air-Handling Units - Variable Air Volume	November 2010	Intended for typical central station VAV Air Handling Units. Includes strategies for automatic trim and respond reset of fan speed control, discharge air temperature, minimum ventilation, and reset of terminal unit minimum airflow setpoint when in economizer. Sequence was developed for units with chilled water cooling and hot water/steam heating coils. Confer with OPP for other applications.
Blow-Through Relief Fan Schematic Blow-Through Relief Fan Schematic PDF	November 2010	Control Schematic for typical central station VAV Air Handling Units: with 4-pipe, blow-through supply fan, relief fan configuration
Blow-Through Return Fan Schematic Blow-Through Return Fan Schematic PDF	November 2010	Control Schematic for typical central station VAV Air Handling Units: with 4-pipe, blow-through supply fan, return fan configuration.
Draw-Through Relief Fan Schematic	November 2010	Control Schematic for typical central station VAV Air Handling Units: with 4-pipe, draw-through supply fan, relief fan configuration.

Draw-Through Relief Fan Schematic PDF		
Draw-Through Return Fan Schematic Draw-Through Return Fan Schematic PDF	November 2010	Control Schematic for typical central station VAV Air Handling Units: with 4-pipe, draw-through supply fan, return fan configuration.
Air Terminal Units - Single Duct Variable Air Volume with Hot Water Reheat & Perimeter Heating	April 2013	Intended for typical single duct VAV terminal units. Includes requirements for dual maximum setpoint and discharge air temperature limiting controls.
Enterprise Utility Management System (EUMS) Equipment Control Strategies	February 2012	This document is intended to describe the sequences of operation necessary to accomplish the HVAC functions of the Enterprise Utility Management System (EUMS), a system which incorporates pieces of all the disparate building automation systems, utility monitoring and controls systems along with energy analysis and billing systems.

Update the Enterprise Utility Management System (EUMS) Equipment Control Strategies document using the following file and update the version date:



EUMS Eqmt Cntrl Strategies rev4 10-26

END of revision

Update Commentary:

Section was updated primarily for the following reasons:

- 1) The EUMS has been greatly expanded and the sequence needed a major rewrite.