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Sample Specifications

APR Control (R-410a) for capacity control in packaged or split system air conditioning applications.

APR Controls, as manufactured by Rawal Devices, Inc. of Woburn, MA. (800-727-6447/fax 781-933-3306) shall be installed in {System/Unit designations} to provide continuous capacity modulation on the refrigeration circuits of the unit(s) for additional capacity control during part load conditions. APR Control shall be installed on lead circuit (first on/last off) in systems with multiple circuits for staging. In systems with tandem or manifold compressors, APR Control shall be installed across piping connections where the compressor's piping combine to create the single circuit.

The APR Control is to be installed in the condensing section of the {System/Unit designations} in accordance with Rawal Devices, Inc. installation instructions or the direction of Rawal Devices, Inc. Engineers. ASHRAE refrigeration piping and Equipment Manufacturer's piping protocol must be adhered to when the APR Control is applied to split systems.

Optional Paragraph: The APR Control hot gas bypass valve shall be set to start opening at 109 psi to maintain the evaporator coil above 36 degrees F. The liquid injection valve shall be set at 12-13 degrees F superheat, and shall function as a compressor overheat protection device. The patented vortex desuperheat chamber shall have access valve to allow pressure testing, evacuation and charging of the system. APR Controls come set from the factory preset, but must be confirmed in the field. Adjustment instructions are provided with the APR Control installation documentation.

Optional Paragraph: Refrigeration ball valves must be installed on all connection to the APR Control device to allow isolation of the APR Control during charging and start-up of the systems to which the APR Controls are applied.

The APR Control is a field installed device and shall be sized by Rawal Devices, Inc. Engineers or authorized Dealer to assure proper application. Contact Rawal Devices, Inc. Engineers to confirm proper selection.