Daikin vrv condenser installation manual

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The compact and lightweight construction allows vrv technology to be installed in large buildings. At 330 lbs and less than 40 inches high, the VRV IV-W Series can be installed in the machine room in an elevator. The engineer solution toolbox, which provides state-of-the-art convenience for hotels, offices, and large commercial applications, is even larger. The VRV system absolutely minimizes operating costs by allowing you to control each area individually and shut down completely in an empty area. The VRV IV-W Series system is the same as a four-pipe cooling water system, but offers a viable alternative to WSHP solutions. Each connected interior unit can provide heating and cooling independently to meet area requirements suitable for both open planes or cellular applications with different operational requirements. Two-stage thermal (energy) recovery is available in the room units of the same VRV system and on all systems connected to a common water loop. This has a dramatic impact on power consumption and helps to improve energy efficiency. The VRV IV-W series allows for a wide range of refrigerant piping, allowing multiple spaces. With a single refrigerant circuit. The VRV IV-W series uses the same Daikin inverter technology as air cooling systems, but extends the application of VRV products by leveraging the same quality VRV interior devices and control options. When you click an image to expand the water-side infrastructure and components, they are routed around the building vertically or horizontally. This can be a plastic or steel pipe operation. Thermal injection (boiler) and reject (cooling tower or dry cooler) require water loops to be maintained between the required design conditions of 67 and 95° F. VRV IV-W series condensers, and the connecting refrigerant circuitprovides the same indoor unit as the air-cooled VRV system. The following waterside components are required: the water volume of the strainer (mandatory - field supply) flow switch or differential pressure switch (mandatory) thermostat (mandatory) thermostat pump adjustable flange operating range is 13.2 to 39.5 gpm. The optimal amount of water is more than 16 gpm. The inlet water temper has a working range of 50 to 113 F. The optimal water temperature range sit between 67 and 95 F. The inlet water temper's geothermal operating range is 14 to 95 F for heating and 27 to 113 F for cooling operation. Standard VRV IV-W standard VRV IV-W specificationgeothermal enhancement VRV IV-W geothermal enhancement VRV IV-W specification *application rule applied under 48°F. Contact your local Daikin office for design support and approval. ** In simultaneous heating and cooling operations, EWT may be lower than 48°F if the condenser is a heating dominant heat recovery operation. The EWT operating range is limited to 30% glycol and 23°F (-5°C), and 40-50% glycol should be used as a limit of 14°F with water temperature below 23°F (contact your local Daikin office for more information). System detail (extended) condensate heat rejection rate: RWEYQ72 - 0.64kW / hour RWEYQ84 - 0.71kW / Hour maximum. The water pressure that BPHE can handle is 285psi (or head of 640ft). Water flow head loss: water volume pm13.215.431.739.6 head loss ftH20 3.78 6.36 8.87 13.25 17.56 Water cooling VRV system is the same as 4 pipe cooling water system, but also provides a possible alternative to water source heat pump solution. Each connected interior unit can provide heating or cooling independently to meet area requirements, making these systems suitable for both open spaces and individual areas with varying temperature requirements. Brass plate heat exchanger high efficiency compressor soft sin-wave DC inverter integrated water loop control compact design 1. Using a high-efficiency, brazed plate heat exchanger, the vessel plate heat exchanger performs refrigerant-water heat transfer. Water pressure drop through heat exchangers is minimized, and the industry's highest water temperature range allows water to enter. Low to 27°F for cooling and 14°F for heating. In addition, the design is much more compact than other types of heat exchangers, which reduces footprint. 2. Daikin's unique scroll compressor is powered by a high efficiency motor to minimize heat loss and achieve significant energy savings. * High thrust mechanism: By introducing high-pressure oil, the reaction force of the fixed scroll is added to the internal force to reduce thrust loss. This improves efficiency and suppresses sound levels. 3. The adoption of the shin-wave softens the rotation of the smooth sane wave DC inverter motor greatly improves operating efficiency. 4. Integrated water loop control integrated operating output allows the pump to be energized or the separation valve can be opened and closed when the system is not operating. The integrated flow proof input provides an interface to the water loop flow meter to ensure the compressor operation of the system if there is a loss of flow in the water loop. 5. Compact design water cooling VRV design is based on modular concept; All water-cooled condensers are of the same dimensions and can be used in 6 and 7 ton modules. With a 4.6 square foot footprint, a height of 39 inches and the ability to stack modules, the 28-ton system requires about 10 square feet of floor space. Integrated heat pump or heat recovery (simultaneous operation) condensate. 6, 7, 12, 14, 18 and 21 tons, 208 - 230V and 460V/3 power for commercial applications. We offer seven combinations of condensation units and up to 36 indoor units up to 21 tons. Up to 1,024 indoor units can be operated in a single wiring system. Continuous operation provides comfortable heating without thawing through cold weather functions. Long refrigerant line, up to 980 feet (up to 390 feet) linear liquid piping length, 164 feet height difference. The system (Braze Plate heat exchanger) can withstand water pressure up to 285 psi (or head of 640 ft.). Optimal water flow per module at 16 gpm or more (operating range 13.2 to 39.5 gpm). Modular units can be interconnected to combine up to 21 tons of systems. Works with closed-loop cooling towers, dry coolers, boilers and geothermal solutions. Connection system versatility of up to 130% of nominal capacity. Compact size, 39-3/8 height, 30-3/4 width 330 pounds. Modular cabinets allow for multiple device installations. Advanced, self-diagnosing, and automated scanning functions detect malfunctions and instantly display types and locations to quickly and effectively resolve them. The RWEYQ condenser sound level is as low as 50 dB (A). It offers zone LCD remotes in up to 16 areas and a variety of operational functions, including 7-day programming. Connect to a full suite of advanced Daikin control solutions Controller and I-Touch Manager. The Daikin BACnet® and LonWorks® interfaces allow you to integrate into your open protocol deployment management system. Interface.

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