



Akdeniz
Mühendislik

**VRF- VRV SYSTEMS, SENSITIVE UNIT,
CHILLER SYSTEMS, ROOFTOP SYSTEM,
MECHANICAL INSTALATIONS AUTOMATION
SYSTEMS DESING,
INSTALATION, MAINTENANCE AND REPAIR**

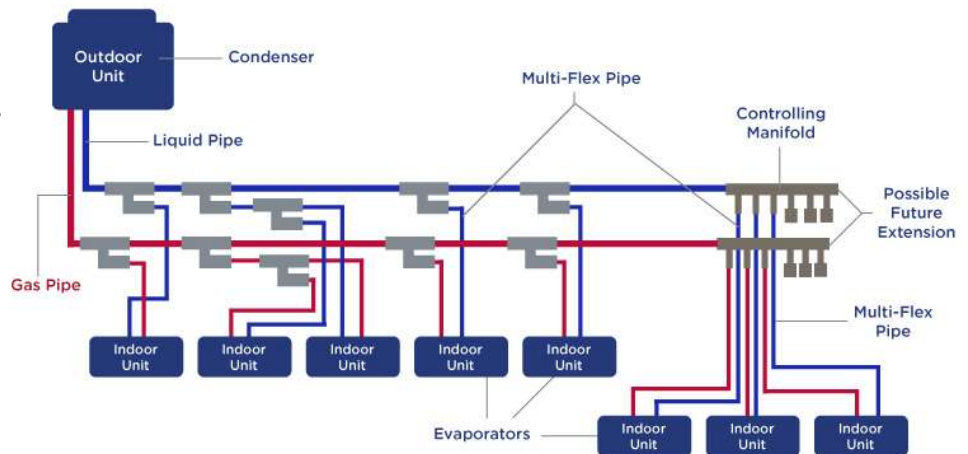


VRV - VRF SYSTEMS MAINTENANCE AND REPAIR

Variable Refrigerant Flow (VRF) Systems

Variable refrigerant flow (VRF) is an air-condition system configuration where there is one outdoor condensing unit and multiple indoor units. The term variable refrigerant flow refers

to the ability of the system to control the amount of refrigerant flowing to the multiple evaporators (indoor units), enabling the use of many evaporators of differing capacities and configurations connected to a single condensing unit. The arrangement provides an individualized comfort control, and simultaneous heating and cooling in different zones. Currently widely applied in large buildings especially in Japan and Europe, these systems are just starting to be introduced in the U.S. The VRF technology/system was developed and designed by Daikin Industries, Japan who named and protected the term variable refrigerant volume (VRV) system so other manufacturers use the term VRF "variable refrigerant flow". In essence both are same. With a higher efficiency and increased controllability, the VRF system can help achieve a sustainable design. Unfortunately, the design of VRF systems is more complicated and requires additional work compared to designing a conventional direct expansion (DX) system. This course provides an overview of VRF system technology.



IT CAN BE CONTROLLED BY THE CENTRAL CONTROL SYSTEM



CHILLER SYSTEMS REPAIR AND MAINTENANCE

A chiller is a machine that removes heat from a liquid via a vapor-compression or absorption refrigeration cycle. This liquid can then be circulated through a heat exchanger to cool equipment, or another process stream (such as air or process water). As a necessary byproduct, refrigeration creates waste heat that must be exhausted to ambient or, for greater efficiency, recovered for heating purposes. Concerns in design and selection of chillers include performance, efficiency, maintenance, and product life cycle environmental impact.

SENSITIVE UNIT

How the system works?

Improved cooling of the device with a dedicated microprocessor, heating, humidification, dehumidification and filtration to provide the desired control functions of environmental conditions is provided. Required temperature, humidity and cleanliness requirements to ensure precise control equipment running 24 hours a day, 365 days raises the life of electronic equipment and maximize efficiency.

The system consists of two main units. One of these evaporator (indoor unit) and the condenser (outdoor unit) are formed. Precisely controlled air conditioning as standard air conditioning systems use the refrigerant gases that provide functionality between 2 units. R22 gas, including that of the gases, a number of limitations to the global production and use of ozone harming the Montreal Protocol should be adopted. Available as a new generation of ozone-friendly R410A and R407C gas to alternative gases are used.

AIR COOLED SYSTEM



WATER COOLED SYSTEM

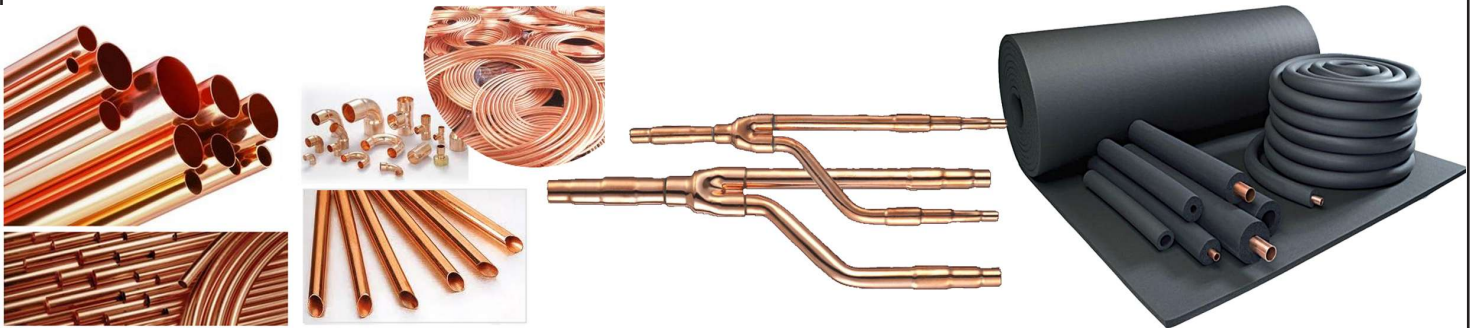


NETWORK ROOMS COOLING SYSTEMS



SPARE PARTS

VRF SYSTEMS INSTALATION EUQIPMENTS



CHILLER & ROOFTOP AND ALL HEATING & COOLING SYSTEMS SPARE PARTS



OUR REFERENCE

TEPE CONSTRUCTION SULEYMANIYE UNIVERSITY PROJECT

- Fine Arts School : vrv systems and chiller systems repairing maintenance.
- Research Center : vrv systems and rooftop units start up .
- Law school : vrv system maintenance and repairing, chiller system and air handling unit maintenance and automation systems.
- Faculty Of Biology : chiller system and air handling unit maintenance and automation systems.
- Mosque : vrv system instalation.
- School Of Language : fancoil, chiller system and air handling unit maintenance and automation systems



TEKIMAS CONSTRUCTION KOYA UNIVERSITY

Spor Complex: DX air handling unit and chiller systems instalation.



SULEYMANIYE IRON AND STEEL FACTORY

Admin And System Rooms: vrv system instalation.



Hospital Building
fancoil, chiller system and air handling unit maintenance.

DIVAN OTEL ERBIL

Beymen: vrv system maintenance.
Setur : vrv system and humudity maintenance.



KURK CONSTRUCTION



Sarablant Guest House: fancoil, chiller system and air handling unit maintenance and automation systems.

ERBIL IRON AND STEEL FACTORY



Factory: water cooled and air cooled systems chiller, vrv dx unit and split unit maintenance.



TEPE CONSTRUCTION TAQTAQ TTOPCO OIL REFINER

Main Camp And
Office Area:
vrv system installation





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