

Hamid Mir Residence

Engineering a Smarter Climate Experience for a Premium Residence

Project Location: Islamabad, Pakistan

Sector: Residential

Solution: Variable Refrigerant Flow (VRF) Air Conditioning System

PROJECT OVERVIEW

Comfort in a premium residence goes beyond cooling. It requires a climate control system that quietly adapts to the way people live—delivering consistent temperatures, energy efficiency, and room-by-room control without compromising aesthetics.

Emitsun Solutions was entrusted with the complete installation and commissioning of a Midea VRF Air Conditioning System for a luxury residence in Islamabad. The objective was to create an intelligent cooling solution that would provide personalized comfort across multiple living spaces while ensuring long-term operational reliability.

BUSINESS NEED

Unlike conventional split air conditioners, premium homes require a centralized HVAC solution that can respond to varying occupancy, different room requirements, and Pakistan's demanding summer climate.

The client required a system that could:

- Maintain consistent indoor comfort throughout the residence
- Provide independent temperature control for each room
- Operate quietly without disturbing the living environment
- Reduce long-term energy consumption
- Deliver reliable performance with minimal maintenance

ENGINEERING CHALLENGE

Installing a VRF system within a finished residential environment requires careful engineering coordination. Every indoor unit, refrigerant line, electrical connection, and drainage route must be integrated without affecting the property's architectural aesthetics or daily usability.

The project demanded precise installation, accurate refrigerant distribution, and detailed commissioning to ensure every indoor zone operated at its designed performance.

OUR ENGINEERING SOLUTION

Emitsun designed and executed the complete installation of a Midea Variable Refrigerant Flow (VRF) System, providing centralized cooling with independent zone control throughout the residence.

Our engineering scope included:

- Installation of indoor and outdoor VRF units
- Refrigerant piping using R-410A
- Electrical power and communication cabling
- Condensate drainage installation
- System configuration and testing
- Performance balancing

- Complete commissioning

Every stage was carried out in accordance with manufacturer guidelines and industry best practices to ensure long-term system performance.

TECHNOLOGIES IMPLEMENTED

CATEGORY	TECHNOLOGIES & TECHNICAL SCOPE
HVAC Platform	Midea Variable Refrigerant Flow (VRF) System, High-efficiency inverter outdoor unit, Multi-zone indoor units
Mechanical Works	R-410A refrigerant piping, Copper piping network, Condensate drainage system
Electrical Integration	Power cabling, Communication wiring, System controls and commissioning

PROJECT OUTCOME

The completed VRF installation transformed the residence into a fully zoned climate-controlled environment where each occupied space can be managed independently.

The solution now delivers:

- Individual room temperature control
- Energy-efficient inverter operation
- Quiet indoor performance
- Improved occupant comfort
- Reliable year-round cooling
- Centralized system management with flexible zone control

Designed specifically for Pakistan's climate, the system provides a balance of comfort, efficiency, and long-term reliability expected from a modern premium residence.

WHY THIS PROJECT MATTERS

Today's homeowners are looking beyond conventional air conditioning. They want intelligent HVAC systems that improve everyday living while reducing energy consumption and operating costs.

This project demonstrates Emitsun's capability to deliver engineered residential HVAC solutions that combine technical precision with practical comfort—an approach that reflects our commitment to creating better indoor environments across Pakistan.

PROJECT SNAPSHOT

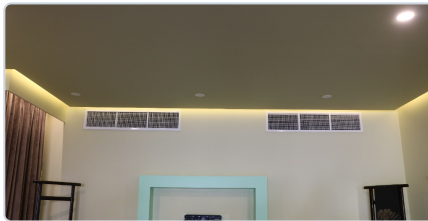
Client	Private Residential Project
Location	Islamabad, Pakistan
Industry	Residential
HVAC Solution	Midea VRF Air Conditioning System

Services Delivered	Supply, Installation & Commissioning
Project Category	Residential HVAC
Related Services	Residential HVAC Systems, VRF Installation, HVAC Design & Engineering, HVAC Commissioning, Preventive Maintenance

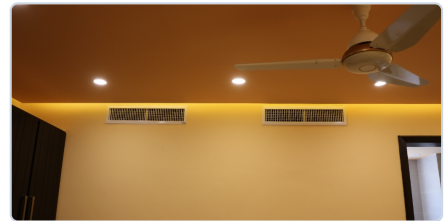
PROJECT SITE & INSTALLATION GALLERY



Rooftop VRF Outdoor Condensers



Concealed Ducted Ceiling Grilles



Living Space Architectural Integration



Master Bedroom Zoned Air Flow



Minimalist Linear Supply Diffuser



Precision Circular Air Diffuser

LOOKING FOR THE RIGHT HVAC SOLUTION?

Whether you're developing a luxury residence, commercial facility, or industrial project, our engineering team can help you select and implement the right HVAC solution for your building. **Talk to an Emitsun Engineer** →

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