

100% Full DC Inverter Commercial HVAC Systems

From 4HP luxury villas, residences, and boutique offices to large commercial developments and multi-chassis combinations. Powered by 100% Full DC Inverter compressors and brushless fan motors for peak seasonal efficiency, expansive piping capabilities, and precise multi-zone thermal management.

4HP to Large Commercial

Modular Capacity Range

100% Full DC

Twin Rotary & Inverter Scroll

Long Piping

Flexible High-Rise Design

50%–130%

Indoor Diversity Ratio

Core Equipment Lineup & Hardware Series

HIGH PERFORMANCE



VRF Outdoor Units

4HP to Large Commercial



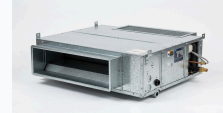
4-Way Round Cassette

360° Uniform Discharge



1-Way Slim Cassette

Corner & Perimeter Fit



Concealed Ductable

Mid & High ESP Solutions

Comprehensive Indoor Unit Portfolio

VERSATILE FORM FACTORS

1 Slim Duct (Concealed)

Ultra-thin height profile (200mm) designed to fit shallow false ceilings in luxury bedrooms and hotel rooms.

2 High ESP Ductable

Handles external static pressure up to 250 Pa. Ideal for extended duct runs in large offices, banks, and retail floors.

3 4-Way Round Cassette

360-degree round-flow air discharge eliminates dead corners with integrated high-lift condensate drain pump.

4 1-Way Slim Cassette

Ideal for narrow hallways, corner installations, perimeter glass glazing zones, and executive boardrooms.

5 Floor / Ceiling Convertible

Flexible horizontal under-ceiling or vertical wall/floor perimeter mounting when ceiling void space is unavailable.

6 Wall-Mounted Commercial

Architectural curved front panel for retail shops, server nodes, and cabins requiring zero ductwork fabrication.

100% Full DC Inverter Specifications

Eco R410A / R32 High-Pressure Cycle

1. Home VRF & Light Commercial Series (Single-Chassis Compact) 4HP – 12HP

Specification	4 HP (12.1 kW)	6 HP (15.5 kW)	8 HP (22.4 kW)	12 HP (33.5 kW)
Nominal Cooling Capacity	41,200 BTU/h	52,800 BTU/h	76,400 BTU/h	114,300 BTU/h
Power Supply Spec	220-240V / 1Ph / 50Hz	380-415V / 3Ph / 50Hz	380-415V / 3Ph / 50Hz	380-415V / 3Ph / 50Hz
Max Connectable Indoors	Up to 7 Units	Up to 9 Units	Up to 13 Units	Up to 19 Units
Compressor Type	DC Twin Rotary	DC Twin Rotary	DC Inverter Scroll	DC Inverter Scroll
Sound Pressure Level	53 dB(A)	55 dB(A)	57 dB(A)	60 dB(A)
Airflow (m³/h)	5,800 m³/h	6,200 m³/h	9,500 m³/h	12,000 m³/h
Max Total Pipe Length	150 meters	250 meters	300 meters	500 meters

2. Large Commercial Modular VRF Series (Multi-Chassis Combination) LARGE COMMERCIAL SIZES

Specification	16 HP (45.0 kW)	24 HP (67.0 kW)	32 HP (90.0 kW)	Large Commercial Modular
Nominal Cooling Capacity	153,500 BTU/h	228,600 BTU/h	307,000 BTU/h	Custom Scalable Capacity
Cabinet Configuration	Single Standalone	Single Large Chassis	Modular Combo	Multi-Module Interlink
Max Connectable Indoors	Up to 26 Units	Up to 39 Units	Up to 53 Units	Up to 64+ Units
Cooling Ambience Range	-5°C to +52°C	-5°C to +52°C	-5°C to +52°C	-5°C to +52°C
Maximum Piping Height Drop	90 meters	90 meters	110 meters	110 meters
Total Piping Reach	Up to 1,000 meters	Up to 1,000 meters	Up to 1,000 meters	Up to 1,000 meters

Full DC Inverter Drive

DC compressor motor combined with step-less DC fan motors ensures industry-leading IPLV (Integrated Part Load Value) exceeding 8.2.

Refrigerant-Cooled PCB

Patented liquid micro-channel cooling lowers electrical module heat by 8°C, sustaining reliable cooling up to 52°C outdoor heat waves.

BMS & Smart IoT Integration

Native protocol support for Modbus, BACnet, and KNX; offers unified centralized control, remote diagnostics, and tenant billing.

Intelligent Oil Equalization

Eliminates separate oil-balance tubing; active cycle dynamically returns oil to maintain compressor reliability over long vertical pipe runs.

DYNAMIC AIR SOLUTIONS PVT. LTD.

Complete Commercial HVAC Engineering • Heat Load Calculations, System Design, VRF Installation & AMC

Project & Turnkey Division
Specialist Climate
Solutions