



DeltaQ

HVAC & Refrigeration Consultants
Pioneering Heating and Cooling Solutions



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Product Overview



Air Conditioning
Solution



Clean Room &
Healthcare
Solutions



Cold Room
Solutions


















Commercial
Kitchen
Equipment's

Key brands we work with



VRF Models

Type	Features	Appearance	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	...	104					
MULTI V S						●	●	●	●																																								
	• Dual sensing control					●	●	●	●																																								
	• Large capacity ODU (Up to 26HP)									●	●	●	●	●	●																																		
	• Black fin heat exchanger																●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	• Ability to function as heat pump																																																
MULTI V S	• Flexible installation with large capacity in wide operation range																																																
	• For large space, high rise building and individual control building																																																
																																																	
MULTI V S	• Saves floor space	 Compact	○	○	○																																												
	• Flexible design applications - Slim, light and wide line up (4 ~ 14HP)					●	●	●																																									
	• Combination of indoor unit (Up to 23 Units)			□	□				■																																								
MULTI V WATER IV Heat Pump						●	●		●			●																																					
	• High efficiency system regardless external conditions									●	●		●	●	●	●		●																															
	• Indoor installation product																																																
	• Low noise level																																																
MULTI V WATER IV Heat Pump	• For water sourced system, high rise building and aesthetic building																																																
	• For individual control building																																																
MULTI V WATER IV Cooling only							■					■																																					

● Heat Pump (H/P), 380V, 3Ø
○ Heat Pump (H/P), 220V, 1Ø
■ Cooling Only (C/O), 380V, 3Ø
□ Cooling Only (C/O), 220V, 1Ø

Indoor Units for VRF



Hi Wall



One way cassette



Two way cassette



Four way cassette



Round Cassette

Applications of VRF

Commercial Applications

- Offices and Corporate Buildings
- Retail Spaces and Shopping Malls
- Hotels
- Hospitals and Healthcare Facilities

Residential Applications

- High-End Apartments and Villas
- High-Rise Buildings

Clean Rooms

A controlled environment where airborne particles, microbes, and other contaminants are minimized

Purpose: Maintain product quality, reduce contamination risks, and ensure safety in sensitive processes.

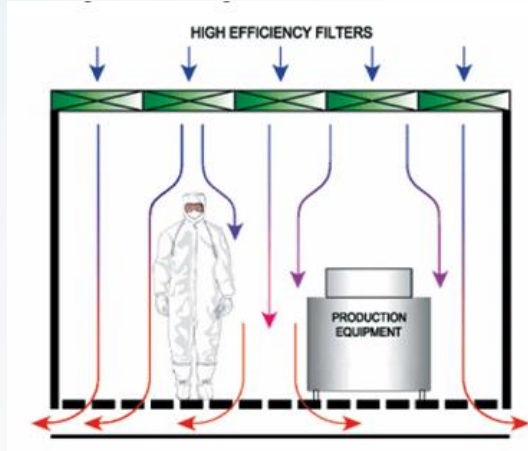
Applications: Pharmaceuticals, electronics, food processing, and biotechnology.



ISO Classification

ISO Class	Fed 208	Controls	Air Velocity at table level in FPM	Air Changes Rate per Hour
2	-	Stringent	70 - 130	>750
3	1	Stringent	70 - 130	>750
4	10	Stringent	70 - 110	500 - 600
5	100	Stringent	70 - 90	150 - 400
6	1,000	Intermediate	25 - 40	60 - 100
7	10,000	Intermediate	10 - 15	25 - 40
8	100,000	Less Stringent	3 - 5	10 - 15

Filtration Systems



High-efficiency particulate air (HEPA) and ultra-low penetration air (ULPA) filters are used to remove contaminants. Filtration relies on principles like impaction, interception, diffusion, and electrostatic attraction.

Hospital OT HVAC

Types of Operation Theatres:

- Type A (Super Specialty OT):** For Neurosciences, Orthopaedics, Cardiothoracic, and Transplant Surgery.
- Type B (General OT):** For Ophthalmology, day-care surgeries, and other basic surgical disciplines.



Requirements for Type A OT:

- Minimum 20 air changes per hour, with at least 4 being fresh air changes.
- Unidirectional downward airflow with air face velocity of 25-35 FPM.
- Minimum positive pressure of 2.5 Pascal.
- Air supplied through Terminal HEPA filters.
- Temperature maintained at $21^{\circ}\text{C} \pm 3^{\circ}\text{C}$ ($18^{\circ}\text{C} \pm 2^{\circ}\text{C}$ for joint replacement) with relative humidity between 20-60%.

Requirements for Type B OT:

- Similar air changes, air velocity, positive pressure, and air filtration requirements as Type A OT.
- Temperature maintained at $21^{\circ}\text{C} \pm 3^{\circ}\text{C}$ with relative humidity between 20-60%.



Thanks

Do you have any questions?

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