



**AIR HANDLING UNIT FOR VRF COMBINATION  
(HEATING AND COOLING)**



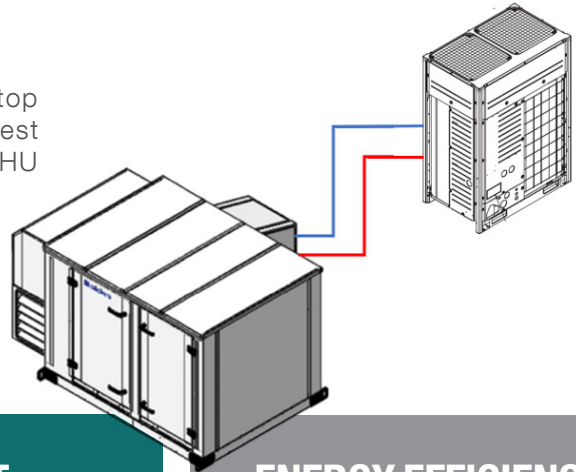
**InspirAIR® FUSION Series**

COMMERCIAL VENTILATION  
1600 to 11000 CFM

PRODUCT BROCHURE

## VERSATILITY - COMFORT - ENERGY EFFICIENCY

The new **InspirAIR® FUSION Series** from Aldes is a new rooftop air handling unit (AHU) that allows you to benefit from the latest energy efficient VRF air conditioning technologies. This new AHU is designed to be paired with a wide range of VRFs available on the market to condition, circulate and ensure the fresh air intake of large volumes of air, making it the perfect fusion between an AHU and a VRF.



### VERSATILITY

Centralized solution vs several cassettes  
Can be paired with a multiple range of VRFs  
7 different models ranging from 4 to 26 tons  
Suitable for both new constructions or retrofit projects  
Suitable for low GWP refrigerants

### COMFORT

Optimized comfort through its combination with the latest variable flow technology (VRF)  
Electrical heater to optimize temperature setting  
Ensure the right volume of fresh air intake

### ENERGY EFFICIENCY

Economizer section for free cooling operation in mild climate  
Decrease the air conditioning operating costs for the end user  
Potential eligibility to regional energy saving programs

**Ease of installation** thanks to pre-wiring, retrofit roof curb, compact size, and versatile control — ensuring a fast, cost-effective, and trouble-free installation

**Frost-control strategy** for optimal climate compatibility

**Double wall** construction for a durable, high-quality product

**Direct expansion coil** (connected to the VRF) to maximize the high efficiency of the VRF

**Economizer section** for free cooling applications and energy savings

**Insulated aluminium louver** for a tightly sealed unit of superior quality

**Standard MERV 8 filters** offering high-quality filtration

**Optional MERV 13 filters** available for superior capture of particles and pollutants

**Sturdy and highly airtight cabinet**

**EC motor** offers variable speed control and reduced operating costs by maximizing system efficiency

**Auxiliary electrical heater** for reliability in cold climate

**Easy access** to the filters, motors, coils and electrical components for effortless cleaning and maintenance





## PRODUCT SELECTION

A wide selection of sizes is available to meet all your requirements, offering the perfect solution for every project.



Available for VRF combination from 4 to 8 tons  
2000 to 3800 CFM



Available for VRF combination from 8 to 12 tons  
2500 to 4600



Available for VRF combination from 12 to 16 tons  
3000 to 6500 CFM



Available for VRF combination from 16 to 26 tons  
4000 to 10000 CFM

## TYPICAL APPLICATIONS



Commercial Office Buildings



Service Center



Schools



Sports Centers



Shopping Centers



Restaurants



Multi Story Buildings



Libraries

## MAINTENANCE

ALDES air handling units for VRF combination are specifically designed to allow easy access to filters, blowers, coils and electrical components. Each unit carries a limited two-year warranty on all covered components.

## TECHNICAL SPECIFICATIONS

The **InspiraIR® FUSION** units are available with the factory installed following features.

	RTU_5Te	RTU_7Te	RTU_10Te	RTU_12Te	RTU_15Te	RTU_20Te	RTU_25Te
Ventilation Capacity (CFM)	2000 to 3100	2000 to 3800	2500 to 4600	3000 to 5500	3 000 to 6 500	4 000 to 8 000	5 000 to 10 000
Nominal Capacity (Tons)	4 to 6	6 to 8	8 to 12	10 to 12.5	12.5 to 16	16 to 20	20 to 26
Motors	Direct-drive EC – maintenance free ball bearing						
Dimensions (inches) (Height x Width x Depth)	53 <sup>5</sup> / <sub>16</sub> x 91 <sup>3</sup> / <sub>8</sub> x 67		53 <sup>7</sup> / <sub>8</sub> x 91 <sup>3</sup> / <sub>8</sub> x 73 <sup>3</sup> / <sub>4</sub>	61 <sup>7</sup> / <sub>8</sub> x 109 <sup>1</sup> / <sub>8</sub> x 89 <sup>3</sup> / <sub>4</sub>		69 <sup>7</sup> / <sub>8</sub> x 109 <sup>1</sup> / <sub>8</sub> x 109 <sup>1</sup> / <sub>4</sub>	
Weight (lb)	1590	1645	1690	2251	2444	2862	2930
Insulation	Double wall 2 in insulation						
Motorized Dampers With End Switch	Yes						
Economizer Feature (Free Cooling)	Yes						
Highly Insulated Motorized Louvers	Yes						
Standard Filtration Type	MERV 8						
Optional Filtration Type (Sold Separately)	MERV 13						
Power connection	VRF powered by the Aldes unit (single point of connection) or separate power connection						
Voltage	208V/3ph/60Hz, 460V/3ph/60Hz or 575V/3ph/60Hz						
Auxiliary Electrical Heater (Optional)	Optional 12 kW to 24 kW	Optional 18 kW to 36 kW	Optional 25 kW to 36 kW	Optional 30 kW to 54 kW	Optional 36 kW to 54 kW	Optional 50 kW to 70 kW	Optional 55 kW to 70 kW
Weather hood	Standard on every model						
Fuseless disconnect NEMA4	Standard on every model						
BACnet Controller Kit (Included)	MSTP – compatible with most VRF third party's controls (ask your local rep)						
Roofcurb	Custom roofcurb available in options						
Warranty on Parts	Limited 2 years						



For more information, contact your  
Aldes sales advisor, visit [aldes-na.com](http://aldes-na.com),  
or find us on



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