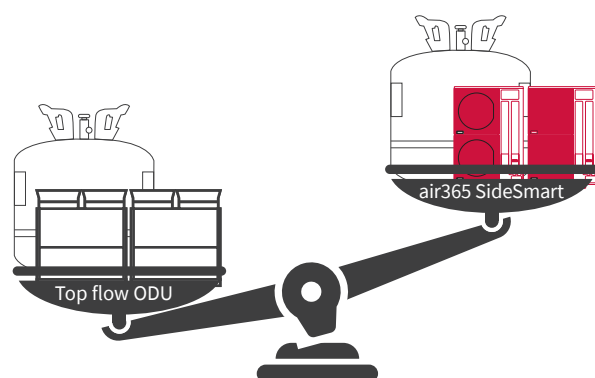


Less refrigerant, less CO₂-eq emissions

Enjoy Hitachi's VRF performance with smaller amounts of refrigerant, thanks to the new tandem subcooling system leading to improved heat exchange.



• Total refrigerant quantity air365 SideSmart vs other VRF.

System	Current top flow VRF (RAS-FSNS)	air365 SideSmart
Initial charge	9.9kg	9.6kg
Additional charge	19.8kg	16.3kg
Total	29.7kg	25.9kg

-13% refrigerant used!

System assumption

System	16HP system
Maximum piping length (from [Piping Connection Kit 1] to furthest indoor unit)	90m
Total piping length	165m
Number of indoor units	3HP Indoor Units * 6 pcs
IDU connection ratio	113%

From 22.4kW to 152kW: large choice of combinations

Standard combination

kW	RAS-080	RAS-100	RAS-120	RAS-140	RAS-160
22.4	●				
28		●			
33.5			●		
40				●	
45					●
50.4	●	●			
56		●●			
61.5		●	●		
67			●●		
73.5			●	●	
80				●●	
85				●	
90					●●
96		●●		●	
101.5		●	●	●	
107			●●	●	
113.5			●	●●	
120				●●●	
125				●	●●
130				●	●●●
135				●●	●●●
141.5		●		●●	
147			●●	●●	
152			●●	●	

Premium combination

kW	RAS-080	RAS-100	RAS-120	RAS-140
44.8	●●			
50.4	●	●		
55.9	●		●	
61.5		●	●	
67.2	●●●			
72.8	●●	●		
78.3	●●		●	
83.9	●	●	●	
89.4	●		●●	
95		●	●●	
100.5			●●●	
106.3	●●	●	●	
111.8	●●		●●	
117.4	●	●	●●	
122.9	●		●●●	
128.5		●	●●●	
134			●●●●	

air365 SideSmart

VARIABLE REFRIGERANT FLOW SYSTEM
SLIM MODULAR OUTDOOR UNITS
AIR SOURCE HEAT PUMP TYPE

Cooling & Heating



—
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The world's first slim modular VRF!

air365 SideSmart is an exclusive solution, offering until now an unseen combination of benefits: performance equaling large top-flow units, with slim modular units which can fit anywhere.



5 SMART BENEFITS OF SIDE FLOW VRF

CONCEPT	DESIGN	CONFIGURATION	LAYOUT	INVESTMENT			
Modularity with great performance Benefit from the highest level of Hitachi VRF efficiency	Connectable slim side-flow modules For the first time, side-flow units can be connected to build larger systems	Can be installed on different floors ... thanks to flexible capacities & options for indoor locations.	Save building space Reserve your rooftop for other purposes and optimise your indoor layout	Cost savings at every stage Fewer piping runs, a simplified installation and energy-saving operation.			
Single Cabinet	HP	8	10	12	14	16	
Dimensions (H x W x D)	mm	1,650 x 1,050 x 420			1,650 x 1,190 x 420		
Net Weight	380-415V	kg	185	197	203	219	225
	220V	kg	188	200	205	223	231
Cooling Capacity		kW	22.4	28.0	33.5	40.0	45.0
Heating Capacity		kW	25.0	31.5	37.5	45.0	50.0
Performance	EER (Cooling)		4.51	4.26	4.27	3.85	3.79
	COP (Heating)		4.92	4.44	4.68	4.40	4.41
Air Flow Volume		(m ³ /min)	160	185	200	250	258
Noise level dB(A)	SPL ¹ (Cooling/Heating)	dB(A)	55/56	59/60	60/62	60/61	62/64

*1 SPL is measured by an anechoic room, so that reflected sound should be taken into consideration in the field.

air365 SideSmart key figures

3 patents

A true innovation! Only air365 SideSmart can achieve this level of flexibility & efficiency:

- Round-shaft motor clamp.
- Tandem sub-cooling system.
- Heating rapid-start technology.

From 1 to 4 modules

Combine and connect up to 4 modules together!

-13% refrigerant charge

A lower amount of refrigerant is required compared to our VRF systems with top-flow outdoor units.

Up to 500m of piping

It adapts to your building's layout, with up to 500m of total piping runs and up to 120m between outdoor units and indoor units. Up to 150m equivalent distance between outdoor unit and indoor unit.

Many indoor units

air365 SideSmart is compatible with as many as 20 types of Hitachi indoor units, featuring the most advanced indoor comfort innovations.

Extra savings at <40% part-load

Hitachi exclusive SmoothDrive™ micro-precision technology boosts energy efficiency during part-load operation, to meet real life conditions.

Up to 152kW

With our various modules, air365 SideSmart offers a vast array of capacities.

42cm slim

air365 SideSmart modules are only 42cm deep, so they can fit even in narrow spaces.

Energy Efficient

air365 SideSmart delivers the same astonishing level of energy savings as the largest VRF systems:

- Single cabinet COP up to 4.40
- EER 3.52 / COP 3.90 average for Premium

100% preserved rooftop

By choosing to install air365 SideSmart in the building's floors, your rooftop will be free of air conditioning equipment.

air365 SideSmart : the power of ubiquity

Anywhere & everywhere!

Thanks to its slim modular design, air365 SideSmart offers unrivaled flexibility of installation location. Save your building's most valuable area, and place air365 SideSmart in the small narrow spaces of your building. On the rooftop, balcony, or indoors; you choose!

