



THE ONLY DUCTED INVERTER DRIVEN CONDENSING UNIT AVAILABLE



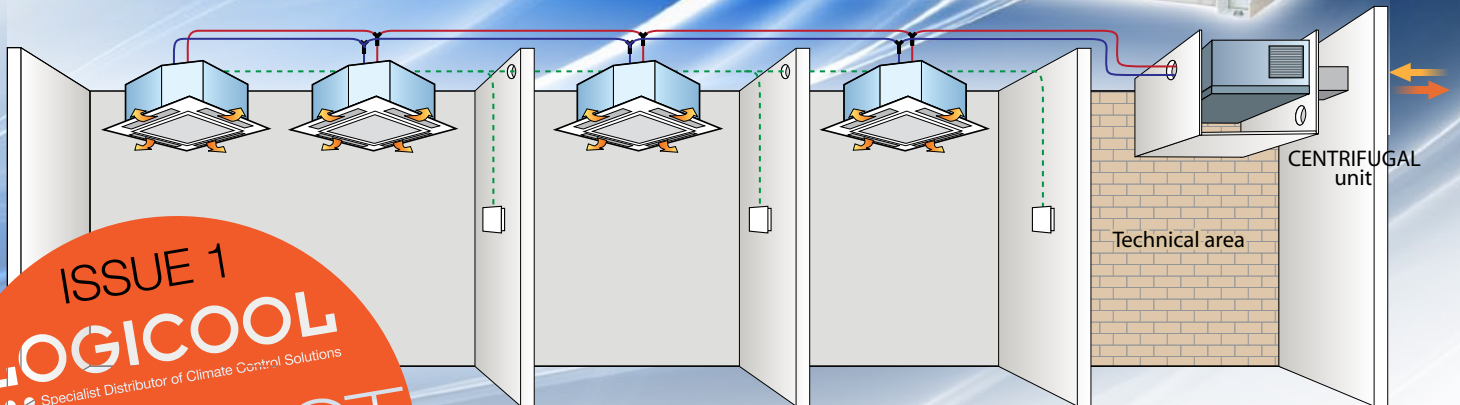
IMPROVED RANGE

unit	cooling	heating
RASC-4HNPE	10.0kW	11.2kW
RASC-5HNPE	12.5kW	14.0kW
RASC-6HNPE	14.0kW	15.5kW
RASC-8HNPE	20.0kW	22.4kW
RASC-10HNPE	24.0kW	26.0kW
RASC-12HNPE	30.0kW*	33.0kW*

(*RASC-12HNPE TBC - Summer/Autumn 2015)

- **Centrifugal (Ducted) Condensing Unit**  
- 2-Pipe **VRF** Control (Independent operation) with **up to 6 indoor units**
- Ideal Solution for areas where external condensing units cannot be fitted due to planning or time restrictions
- Re-use of existing R22 and R407c pipework
- Smart defrost control (Shortened defrost operation time)
- Ability to utilise any Hitachi System-Free Indoor Unit
- Improved Design (higher efficiencies, lower running costs, improved ErP, improved Heat Exchanger)
- Large external static pressure range
- Single and Three Phase Models
- New accumulator and compressor
- Improved piping access

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HITACHI AND
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EXAMPLE OF HITACHI RASC CENTRIFUGAL UNIT CONNECTIVITY OPTIONS



Example system
800m³/hr KPI Air to Air Heat Exchanger (c/w) 5kW DX Coil) with 6kW Floor Standing Chassis Fan Coil operating as a two pipe VRF utilising a Hitachi IX type Centrifugal Condensing Unit.

Typical net sales price
LESS THAN 2 PIPE VRF
FROM INDUSTRYS LEADING MANUFACTURERS

5 YEAR WARRANTY
FOC Commissioning Assistance on Set Free Systems



Centrifugal VRF series “RASC-(4-12)HNPE”

General data

Item	Units	4HNPE	5HNPE	6HNPE	8HNPE	10HNPE	12HNPE
Power supply	-	3N~ 400V 50Hz					
Nominal cooling capacity	kW	10.0	12.5	14.0	20.0	24.0	
Nominal heating capacity	kW	11.2	14.0	15.5	22.4	26.0	
EER	-	3.35	3.14	2.75	2.70	2.66	
COP	-	3.80	3.40	2.70	3.20	3.05	
ESEER NEW	-	6.65	6.41	6.19	6.15	6.13	
Minimum - Maximum indoor units connectable	-	1 - 5			1 - 6	1 - 6	2 - 6
Minimum - Maximum connected capacity	%	75 - 120 (*)					
Noise level cooling (sound pressure) (night mode)	dB(A)	52 (48)	52 (48)	53 (49)	55 (51)	56 (52)	
Noise level heating (sound pressure)	dB(A)	53	53	54	56	57	
Noise level (sound power)	dB(A)	71	71	72	74	75	
Rated air flow volume	m³/min	55	60	60	115	115	
Rated static pressure (nominal conditions / maximum)	Pa	56 / 90	72 / 100	100 / 100	84 / 120	102 / 120	
Dimensions (H x W x D)	mm	555 x 1415 x 1015 (575 x 1415 x 1175)			620 x 1850 x 1360 (640 x 1850 x 1525)		
Net weight	kg	186	186	186	289.6	290	
Recommended circuit breaker	A	20	20	20	30	30	
Starting current	A	Less than maximum current					
Maximum current	A	14.1	14.1	16.0	24.7	24.7	
Running current cooling	A	4.8	6.4	8.2	11.9	14.5	
Running current heating	A	4.7	6.6	9.2	11.2	13.7	
Recommended power cable size	quantity x mm²	5 x 4.0			5 x 6.0		
Transmitting cable size between indoor unit and RASC unit	quantity x mm²	2 x 0.75					
Piping diameter (liquid / gas)	mm (inch)	Ø9.52 (3/8) / Ø15.88 (5/8)			Ø12.7 (1/2) / Ø25.4 (1)		
Minimum refrigerant piping length	m	5					
Maximum refrigerant piping length between RASC and indoor unit (additional refrigerant charge needed)	m (g/m)	75	75	75	100	100	100
Height difference (RASC unit higher / RASC unit lower)	m	30 / 20					
Working range (cooling // heating)	°C	-5 / +46 (DB) // -15 / +15.5 (WB)					
Refrigerant	-	R410A					
Refrigerant charge before shipment	kg	4.1	4.2	4.2	5.7	6.2	
Compressor type	-	Scroll DC Inverter driven					
Colour	-	Dark grey / Light grey					
Remote control model (Optional)	-	PC-ART / PC-ARF					

NOTE

- RASC-4HNPE is within EcoDesign ErP Lot10 scope. Its seasonal efficiencies according EN14825(2013) are: SEER= 5.15; SCOP= 4.00
- (*): Maximum connected capacity of 100% in case of combination with more than 4 indoor units.

Component data

Model			4HNPE	5HNPE	6HNPE	8HNPE	10HNPE	12HNPE	
Heat exchanger	Heat exchanger type	-	Multi-pass Cross Finned Tube						
	Piping	Material	-	Copper					
		Outer diameter	Ømm	7					
		Rows	-	4			4		
		Number of tubes/coil	-	108			120		
	Fin	Material	-	Aluminium with anti-corrosive coating treatment					
		Pitch	mm	1.4					
	Maximum operating pressure	MPa	4.15						
	Total face area	m²	0.62			0.96			
	Number of coils/unit	-	1						
Fan unit	Fan	Type	Multi-blade centrifugal fan						
		Number/unit	1						
		Outer diameter	mm	265			320		
		Revolutions	rpm	860	950	1030	870	900	
		Nominal air flow/fan	m³/min	55	60	60	115	115	
	Motor	Type	-	Dip-proof enclosure					
		Starting method	-	Inverter-driven					
		Power	W	350			550		
		Quantity	-	1					
		Insulation class	-	F					
Compressor	Model	-	E402HHD-36D2			DA50PHD-D1SE2	DA65PHD-D1SE2		
	Type	-	Hermetic scroll						
	Pressure resistance	Discharge	MPa	4.15					
		Suction	MPa	2.21					
	Motor type	Starting method	-	Inverter-driven (I.D.)					
		Poles	-	4			6		
		Insulation class	-	E					
	Oil type	-	FVC68D						
Oil quantity	l	0.9			1.9				

Blank data: To be informed later.