

Utopia Centrifugal Single, Twin, Triple and Quad Splits



Features and Benefits

Hitachi's range of Utopia Centrifugal units can be installed indoors with field supplied ductwork and are therefore ideal for situations where installations have to be hidden or where circumstances do not allow for the use of traditional styled outdoor units. Available with cooling and heating capacities from 7.1kW to 28.0kW the units offer the following benefits:



RASC-H(V)RNE

- DC Inverter Technology**
 Hitachi pioneered 'DC' Inverter driven Air Conditioners and use this technology to drive its compressors and fans
- Low Temperature Operation**
 Wide working range including Outdoor Unit Fan Control in cooling mode for operating at low ambient temperature as standard (-5°C to 43 °C cooling)
- Flexible Inlet Air and Outlet Air Option**
 Four different configurations for Inlet and Outlet Air are available. Side panels and grilles could be changed in the field depending on each installation's needs
- Compatibility**
 Compatible with all Hitachi System Free indoor units
- Simple Wiring**
 Only one connection is required for the wiring between the indoor unit and outdoor unit and the total wiring length is reduced. Easy wiring connection to the central controllers
- Installation**
 Non visible installation, can be installed indoors
- Highly Reliable Hitachi DC Scroll Compressor**
 DC Inverter scroll compressor technology that improves efficiency and reduces noise. With low starting currents, this energy saving compressor is quicker and allows for better room temperature control
- Low Refrigerant Charge**
 Low refrigerant charge quantity that aids F-Gas leak requirements
- Standard Controller**
 Hard wired remote controller with built in 7-day timer
- Control Options**
 Optional simplified hard wired or infra red remote controller with 24hr timer

 Compatible with H-LINK II Control and CS Net Web controls that integrate with all leading BMS protocols
- Utopia Series Control, H-LINK Connection**
 H-LINK wiring system requires only two transmission wires connecting each indoor unit and outdoor unit for up to 16 refrigerant cycles, and connecting wires for all indoor units and all outdoor units in series

System Features	RASC 3.0HVRNE	RASC 5.0HVRNE	RASC 10.0HRNE
Auto Restart by Previous Mode	✓	✓	✓
Auto Changeover	✓	✓	✓
Remote Controller Self Diagnosis	✓	✓	✓
Inverter Control	✓	✓	✓
Internal Installation	✓	✓	✓
Centrifugal Fan	✓	✓	✓
Variable Inlet / Outlet Air Configurations	✓	✓	✓
System Free Indoor Units & Controls Configurations	Single & Twin	Single & Twin	Single, Twin, Triple & Quad
Mix Match of Indoor Units	✓	✓	✓
Remote Controller Type	Hard Wired (std) - Simplified Wired or Infra Red (options)		
Remote Control Timer	24hr or 7 Day option		
H-LINK Compatible	✓	✓	✓

Utopia Centrifugal Outdoor Units

Centrifugal Combinations	RASC 3.0HVRNE		RASC 5.0HVRNE			RAS 10.0HRNE			
Single Splits	3.0	-	5.0	-	-	10.0	-	-	-
Twin Splits	1.5	1.5	2.5	2.5	-	5.0	5.0	-	-
	-	-	-	-	-	4.0	6.0	-	-
Triple Splits	-	-	1.5	1.5	2.0	3.0	3.0	4.0	-
	-	-	-	-	-	2.5	2.5	5.0	-
Quad Splits	-	-	-	-	-	2.5	2.5	2.5	2.5

Utopia Centrifugal Outdoor Units

Outdoor Units	Outdoor 1Ø	RASC 3.0HVRNE*	RASC 5.0HVRNE*	-
	Outdoor 3Ø			RASC 10.0HRNE*
Nominal Capacity (Min ~ Max) (kW)	Cooling	7.1 (3.1 ~ 8.0)	12.5 (6.7 ~ 14.0)	25.0 (11.2 ~ 28.0)
	Heating	8.0 (4.0 ~ 10.0)	14.0 (7.0 ~ 18.0)	28.0 (10.5 ~ 35.0)
UK Cooling Capacity (kW)	Total	7.2	12.8	25.5
Outdoor Sound Pressure Level dB(A)	Cooling	46	52	60
	Heating	46	53	61
Dimensions (mm) & Weight (kg)	Height	430		640
	Width	1250		1850
	Depth	1300		985
	Weight	168	176	290
Outdoor Fan (m ³ /min)		40	65	110
Nominal Static Pressure (Pa)		50	50	63
Operating Range (°C)	Cooling	(-5 ~ 43)db		
	Heating	(-15 ~ 15)wb		
Refrigerant Piping (mm (in))	Liquid	9.52(3/8)	9.52(3/8)	12.7 (1/2)
	Gas	15.88(5/8)	15.88(5/8)	25.4 (1")
Piping (m)	Length	30	50	50
	Lift	30	30	30
	Chargeless	Contact Hitachi	Contact Hitachi	Contact Hitachi
Power Supply	1 Phase	1Ph 220-240V 50Hz		-
	3 Phase	-	-	3Ph 380-415V 50Hz
Power to		Outdoor		
Interconnecting Cables	No.	LNE + 2		
Starting Current (A)		TBC	TBC	TBC
Total Current (A)	Cooling	TBC	TBC	TBC
	Heating	TBC	TBC	TBC
Recommended Fuse Size (A)		TBC	TBC	TBC