

Selection guide

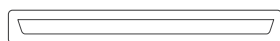
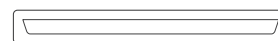
Primary R32
(Ceiling unit / Console)



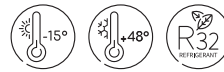
Utopia Prime
(Ceiling unit)

NEW



Primary R32
(Ceiling unit / Console)

Utopia Prime
(Ceiling unit)


Refrigerant	R32	R410A or R32
Applications	Business Public	Business Public
Rated power, cooling (kW)	6.5 8.6 9.8 12.7 14.0 12.1 13.7 16.3	7.1 10.0 12.5 14.0
Supply voltage	Single phase (3 / 4 / 5 / 6 Hp) Three phase (5 / 6 / 6.5 Hp)	Single phase (3 / 4 / 5 / 6 Hp) Three phase (4 / 5 / 6 Hp)
SEER (up to)	6.10	7.02
Heating/cooling energy classes	A+ / A++	A+ / A++
Cooling down to	-15°C	-15°C
Heating down to	-15°C	-20°C
Max. length/level difference (m) outdoor unit to indoor unit	50 / 30	75 / 30



Primary R32 (Ceiling unit / Console)

Best value for money



Versatile: unit can be floor or ceiling-mounted

The Primary Hitachi console can be either floor or ceiling-mounted, allowing the user to choose the most suitable location in the room for the best thermal comfort. (Fig. 1)

NEW Versatile

Up to 8 indoor units connected to a single remote control (with HDBA21NEWH + HCWA21NEHH). See diagrams on p168.

Guaranteed efficiency

The performance of our Primary ceiling unit range is guaranteed in Heating mode down to an outside temperature of -15°C. DC Inverter technology precisely adjusts the power needed to condition a space, and ensures the comfort and durability of the system.

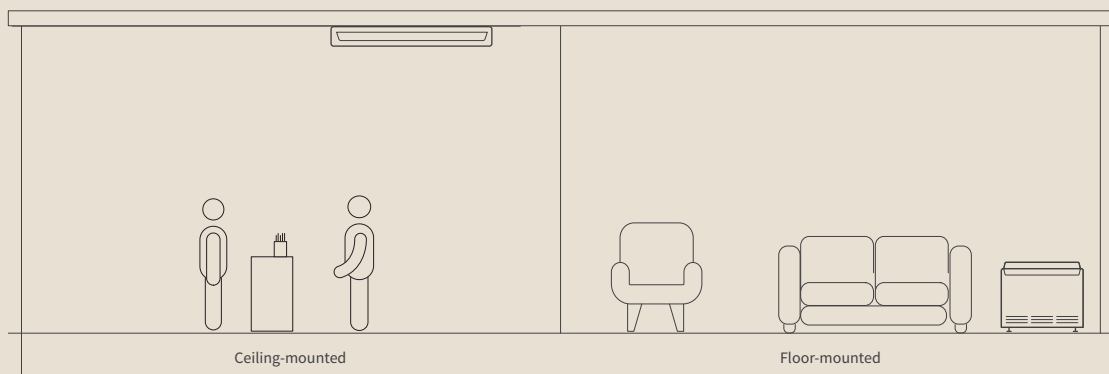
Designed for comfort or technical applications

The unit has free contacts as standard to issue error reports or remotely stop/start the system. Ideal for installation in a technical room.

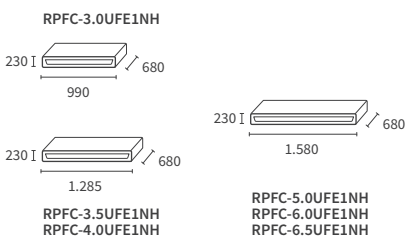
Fresh air inlet

The optional fresh air inlet improves indoor air quality.

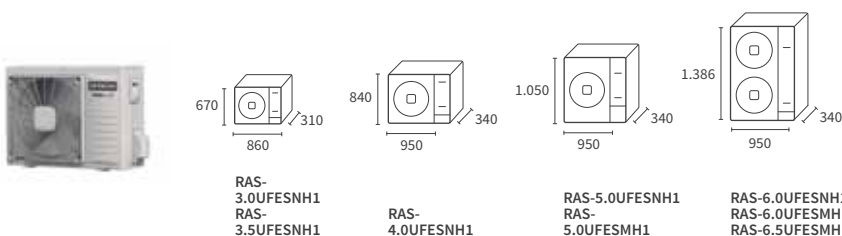
Fig. 1



Indoor units



Outdoor units



Primary R32 (ceiling unit / console)

Performance, cooling	Unit	6.5kW	8.6kW	9.8kW	12.7kW	14.0kW	12.1kW	13.8kW	16.3kW	
		3 Hp	3.5 Hp	4 Hp	5 Hp	6 Hp	5 Hp	6 Hp	6.5 Hp	
Nominal cooling capacity (min-max)	kW	6.50 (2.45 - 7.85)	8.60 (3.50 - 9.00)	9.80 (3.50 - 11.00)	12.70 (3.30 - 13.20)	14.00 (3.10 - 16.10)	12.10 (3.30 - 13.20)	13.76 (3.10 - 16.10)	16.30 (3.30 - 18.00)	
UK total cooling (UK sensible)	kW	7.02 (3.93)	9.29 (5.20)	10.59 (5.93)	13.72 (7.68)	15.12 (9.23)	13.07 (7.32)	14.87 (9.07)	17.61 (9.86)	
Rated power input Cooling	kW	1.94	2.95	3.75	4.53	5.15	4.40	5.00	6.82	
EER	-	3.35	2.92	2.61	2.80	2.72	2.75		2.39	
Energy class Cooling	-	A+	A++	A+			-			
SEER (average climate)	-	5.81	6.10	5.87	5.93	5.45	5.70	5.33	5.30	
Annual power consumption	kWh/year	391	509	585	709	899	803	940	876	
Working range in Cooling	°C	-15°C / +48°C								
Performance, heating										
Nominal heating capacity (min-max)	kW	7.35 (2.20 - 8.70)	8.70 (3.50 - 9.50)	10.50 (3.32 - 12.00)	13.30 (3.00 - 14.60)	16.50 (3.60 - 18.00)	13.50 (3.00 - 14.60)	16.59 (3.60 - 18.00)	18.00 (3.00 - 19.00)	
Heating capacity at -7°C ⁽¹⁾	kW	4	5.6	6.5	8.4	10	8.4	10	11.1	
Rated power input Heating	kW	2.07	2.30	3.65	4.04	5.40	4.17	4.85	6.82	
COP	-	3.55	3.78	2.88	3.29	3.06	3.24	3.42	2.64	
Energy class Heating	-	A+		A						
SCOP (average climate)	-	4.01	4.10	3.82	3.78	3.68	3.78	3.55	3.78	
Annual power consumption	kWh/year	2168	2192	2825	3133	4887	3868	5015	4509	
Working range in Heating	°C	-15°C / +24°C								
Indoor units										
		RPFC-3.0UFE1NH	RPFC-3.5UFE1NH	RPFC-4.0UFE1NH	RPFC-5.0UFE1NH	RPFC-6.0UFE1NH	RPFC-5.0UFE1NH	RPFC-6.0UFE1NH	RPFC-6.5UFE1NH	
Sound pressure in Cooling mode (L / M / H) ⁽²⁾	dB(A)	44 / 48 / 51	43 / 48 / 54	51 / 52 / 54	48 / 51 / 54	46 / 52 / 58	48 / 51 / 54	46 / 52 / 58	48 / 53 / 56	
Sound power in Cooling mode	dB(A)	65	65	65	68	75	68	75	74	
Airflow in Cooling mode (L / M / H)	m ³ /h	800 / 950 / 1100	900 / 1120 / 1450	1300 / 1500 / 1700	1600 / 1800 / 2000	1200 / 1600 / 2000	1600 / 1800 / 2000	1200 / 1600 / 2000	1500 / 1700 / 2000	
Dehumidification	l/h	1.95	3.20	4.40	5.30	6.00	5.30	6.00	6.40	
Dimensions (H x L x D)	mm	230 x 990 x 680	230 x 1285 x 680			230 x 1580 x 680				
Net weight	kg	30	37			48				
Condensate pump, optional	-	P26(E)-2				P26(E)-3				
Condensate outlet diameter (ext.)	mm	25								
Air filter	-	included								
Remote control	-	Infrared included (HRBA31NEGH)								
Outdoor units										
		RAS-3.0UFESNH1	RAS-3.5UFESNH1	RAS-4.0UFESNH1	RAS-5.0UFESNH1	RAS-6.0UFESNH1	RAS-5.0UFESMH1	RAS-6.0UFESMH1	RAS-6.5UFESMH1	
Sound pressure in Cooling mode ⁽²⁾	dB(A)	54		58			62		67	
Sound power in Cooling mode	dB(A)	69		70			76		80	
Airflow (cooling)	m ³ /h	3150		3800	5800	6300	5800	6300		
Dimensions (H x L x D)	mm	670 x 860 x 310		840 x 950 x 340	1050 x 950 x 340	1386 x 950 x 340	1050 x 950 x 340	1386 x 950 x 340		
Net weight	kg	49.0		70.0	85.0	101.5	85.0	101.5	109.0	
Compressor	-	Inverter rotary unit								
Refrigeration characteristics										
Diameter of pipes (Liq / Gas)	inches	3/8" / 5/8"			3/8" / 3/4"					
Initial refrigerant charge	kg/TeqCO ₂	1.40 / 0.95	1.45 / 0.98	2.00 / 1.35	2.50 / 1.69	3.00 / 2.03	2.50 / 1.69	3.00 / 2.03	3.40 / 2.30	
Pre-charged for	m	5								
Max. pipe length	m	50								
Additional charge	g/m	28								
Max. level difference (outdoor unit above / outdoor unit below)	m	30 / 30								
Refrigerant	-	R32								
Electrical features										
Power supply	V/Ph/Hz	230V / 1Ph / 50Hz					400V / 3Ph / 50Hz			
Max. current	A	18.1	18.0	22.5	28.2	30.0	11.6	12.6	13.6	
Recommended fuse size	A	20		32	32		16			
Cable width (EN 60 335-1) ⁽³⁾	mm ²	2 x 2.5 + E		2 x 4 + E	2 x 6 + E		4 x 2.5 + E			
Indoor/outdoor connection (shielded)	mm ²	3 x 1.5 + E								

⁽¹⁾ Data includes defrosting.⁽²⁾ Sound pressure measurements were made 1.0m below the unit with no obstructions.⁽³⁾ Data shown is for indication purpose only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

Compatible controls and accessories



Wired programmable remote control
HCWA21NEHH



Condensate drainage pump
P26(E)-2 (3 ; 3.5 ; 4Hp) / P26(E)-3 (5 ; 6 ; 6.5Hp)



H-Link interface
HCAA01NEWI



Infrared remote control
HRBA31NEGH
Included



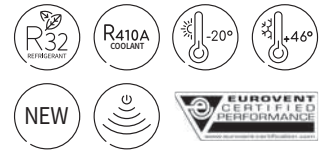
Adapter
HDBA21NEWH

Discover Primary



Utopia Prime ceiling unit

A solution with R410A or R32 for projects of any technical specification



NEW

Compactness

Outdoor units are exceptionally compact, with a footprint of 0.23m².

Easy to install

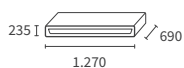
We have a number of solutions to help your installation:

- Choice of supply voltage
- Extensive range of functions
- Extra long pipe runs
- Start/Stop contacts and fault reports
- Compatible with all System Free control systems

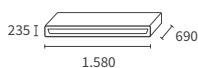
Energy-saving

The motion sensor (optional) automatically optimizes the level of comfort while limiting the energy consumption in rooms only occupied occasionally. It continuously analyzes thermal disparities as well as the presence of people in the room, adjusting its setting temperature (down to 2°C), fan speed, and airflow direction to suit.

Indoor units

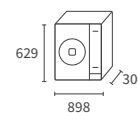


RPC-3.0FSR

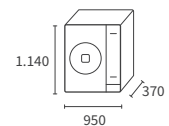


RPC-4.0FSR
RPC-5.0FSR
RPC-6.0FSR

Outdoor units



RAS-3HVRC2



RAS-4H(V)RC2E
RAS-5H(V)RC2E
RAS-6H(V)RC2E
RAS-4H(V)NC2E
RAS-5H(V)NC2E
RAS-6H(V)NC2E

Utopia Prime ceiling unit

R32 refrigerant						R410A refrigerant			
		7.1kW	10KW	11.9KW	14KW	10KW	11.9KW	14KW	
Performance, cooling		3 Hp	4 Hp	5 Hp	6 Hp	4 Hp	5 Hp	6 Hp	
Nominal cooling capacity	kW	7.10	10.00	11.90	14.00	10.00	11.90	14.00	
UK total cooling capacity (UK sensible)	kW	7.41 (5.33)	10.30 (7.93)	12.70 (9.02)	13.60 (9.38)	10.30 (7.93)	12.70 (9.02)	13.60 (9.38)	
Rated power input cooling	kW	1.82	2.88	3.88	4.38	3.23	4.34	4.98	
EER	-	3.91	3.47	3.06	3.20	3.10	2.74	2.81	
Seasonal energy class Cooling	-	A++	A+	A+	-	A+	A+	-	
SEER (average climate)	-	7.02	5.93(V) - 5.70	6.09(V) - 5.89	5.56(V) - 5.53	5.72(V) - 4.93	5.86(V) - 5.71	5.56(V) - 5.53	
Working range in Cooling ⁽³⁾	°C	-15°C / +46°C (DB)						-15°C / +46°C (DB)	
Performance, heating									
Nominal heating capacity	kW	8.00	11.20	14.00	16.00	11.20	14.00	16.00	
Heating capacity at -7°C*	kW	6.30	10.10	10.50	12.00	10.10	10.50	12.00	
Rated power input heating	kW	2.27	3.23	4.36	3.64	3.17	4.36	3.64	
COP	-	3.52	3.47	3.21	4.40	3.53	3.21	4.40	
Seasonal energy class Heating	-	A+	A+	A+	-	A+	A+	-	
SCOP (average climate)	-	4.09	4.12	4.09	4.05	4.18	4.09	4.05	
Working range in Heating	°C	-20°C / +18°C (WB)						-20°C / +18°C (WB)	
Indoor units		RPC-3.0FSR	RPC-4.0FSR	RPC-5.0FSR	RPC-6.0FSR	RPC-4.0FSR	RPC-5.0FSR	RPC-6.0FSR	
Sound pressure in Cooling mode (EL / L / M / H) ⁽²⁾	dB(A)	29 / 33 / 37 / 40	32 / 37 / 42 / 44	35 / 41 / 45 / 48	36 / 42 / 47 / 49	32 / 37 / 42 / 44	35 / 41 / 45 / 48	36 / 42 / 47 / 49	
Sound power	dB(A)	56	60	64	65	60	64	65	
Airflow in Cooling mode (EL / L / M / H)	m³/h	750 / 930 / 1110 / 1260	1020 / 1320 / 1590 / 1800	1200 / 1530 / 1860 / 2100	1260 / 1620 / 1950 / 2220	1020 / 1320 / 1590 / 1800	1200 / 1530 / 1860 / 2100	1260 / 1620 / 1950 / 2220	
Condensate pump included	-	no (optional accessory)						no (optional accessory)	
Max. elevation	mm	600						600	
Dimensions (H x L x D)	mm	235 x 1270 x 690		235 x 1580 x 690				235 x 1580 x 690	
Weight	kg	35		41				41	
Condensate outlet diameter (ext)	mm	32						32	
Power supply	-	1~ 230V 50Hz						1~ 230V 50Hz	
Recommended fuse size	A	5						5	
Max. current	A	5						5	
Cable width (EN 60 335-1) ⁽¹⁾	mm²	3 x 0.75						3 x 0.75	
Remote control	-	PC-ARFP1E						PC-ARFP1E	
Outdoor units		RAS-3HVRC2	RAS-4H(V)RC2E	RAS-5H(V)RC2E	RAS-6H(V)RC2E	RAS-4H(V)NC2E	RAS-5H(V)NC2E	RAS-6H(V)NC2E	
Sound pressure in Cooling mode (Night mode) ⁽²⁾	dB(A)	54 (48)	54 (51)	54 (51)	56 (51)	54 (51)	54 (51)	56 (51)	
Sound power	dB(A)	69	70	70	72	70	70	72	
Airflow (Cooling / Heating)	m³/h	2700		4800				4800	
Dimensions (H x L x D)	mm	629 x 799 x 300		1140 x 950 x 370				1140 x 950 x 370	
Net weight	kg	48		86 (84)				86 (84)	
Compressor	-	Inverter DC rotary unit						Inverter DC rotary unit	
Refrigeration characteristics									
Diameter of pipes (Liq / Gas)	mm (inches)	9.52 (3/8) - 15.88 (5/8)						9.52 (3/8) - 15.88 (5/8)	
Initial refrigerant charge	kg	1.7		3.0				3.2	
Pre-charged for	m	20						20	
Min. length	m	5						5	
Max. length / additional charge	m/g/m	50 / 45		75 / 45				75 / 60	
Max. level difference (outdoor unit above / outdoor unit below)	m	30 / 20						30 / 20	
Refrigerant	-	R32						R410A	
Electrical features, outdoor unit									
Power supply	-	1~ 230V 50Hz	1~ 230V 50Hz or 3N~ 400V 50Hz	2~ 230V 50Hz or 3N~ 400V 50Hz	3~ 230V 50Hz or 3N~ 400V 50Hz	1~ 230V 50Hz or 3N~ 400V 50Hz			
Max. current	A	15.8	22.5 or 15		22.5 or 15				
Recommended fuse size	A	20	25 or 20		25 or 20				
Cable width (EN 60 335-1) ⁽¹⁾	mm²	3 x 4.00	3 x 6.00 or 5 x 4.00		3 x 6.00 or 5 x 4.00				
Indoor/outdoor connection (shielded)	mm²	2 x 0.75						2 x 0.75	

⁽¹⁾ Data is for guidance purposes only. It is the installer's responsibility to ensure that these cable widths meet the needs of the facility and current standards.

⁽²⁾ Sound levels (pressure) are measured in an anechoic chamber at 1.0 m below the unit.

⁽³⁾ To ensure a cooling mode at -15°C, this option must be activated. (V) Single-phase version.

* Data includes defrosting. To find out the data for your project, refer to our technical catalogues.

controls and compatible accessories (see the tab VRF TWIN controls)



Simple wired controller
PC-ARH1E



Infrared controller
PC-AWR



Hard wired control
PC-ARFP1E



Remote sensor
THM-R2AE



Infrared receiver
PC-ALHC1 (integrated)
PC-ALHZ1 (external)



Condensation drainage kit
DDB-26 (4Hp models)
DDB-12L (3Hp models)



Motion sensor
SOR-NEP



Connectors
PCC-1A

