

# Utopia Prime ducted unit

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



## Compact

Our indoor ducted units benefit from an extra small height of just 24 cm.

## Integrated condensate pump

Hitachi ducts are equipped as standard with a condensate extraction pump of up to 850 mm, providing more flexibility when installing.

## Flexible air intake from below or from the back

This solution offers true installation flexibility depending on the type of configuration. You can move the intake - from below or from the rear on sizes 3 to 6 HP. (Fig. 1)

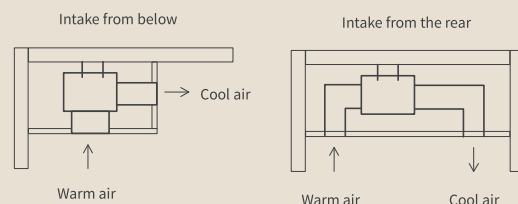
## Large static pressure control range

Static pressure available up to 150 Pa, with 3 possible levels, including zero pressure to blow on the vent.

## Compatible with Airzone

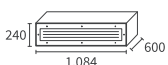
A single indoor ducted unit serves up to 6 zones separately thanks to Airzone's motorized plenums and management solutions (see p130).

Fig. 1

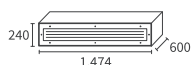


### Indoor units

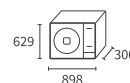
### Outdoor units



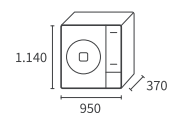
RPI-3.0FSRE



RPI-4.0FSRE  
RPI-5.0FSRE  
RPI-6.0FSRE



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 ducted unit

Refrigerant R32						Refrigerant R410A		
		7.1 kW	10 kW	12.5 kW	14 kW	10 kW	12.5 kW	14 kW
Performance, cooling	Unit	3 HP	4 HP	5 HP	6 HP	4 HP	5 HP	6 HP
Nominal cooling capacity (min-max)	kW	7.10	10.00	11.90	14.00	10.00	11.90	14.00
UK total cooling capacity (UK sensible)	kW	7.41 (5.25)	10.30 (8.65)	12.70 (10.54)	13.60 (11.29)	10.30 (8.65)	12.70 (10.54)	13.60 (11.29)
Rated power input cooling	kW	2.04	2.76	3.65	4.53	3.08	4.06	4.55
EER	-	3.47	3.62	3.26	3.09	3.24	2.92	3.08
Seasonal energy class Cooling	-	A++		A++		A++		-
SEER (average climate)	-	6.70	6.44(V) - 6.17	6.10(V) - 5.89	5.67(V) - 5.64	6.21(V) - 5.96	5.87(V) - 5.68	5.67(V) - 5.64
Working range in Cooling <sup>(3)</sup>	°C	-15°C / +46°C (DB)						
Performance, heating								
Nominal heating capacity (min-max)	kW	8.00	11.20	14.00	16.00	11.20	14.00	16.00
Heating capacity at -7°C*	kW	6.40	10.20	11.90	13.30	10.20	11.90	13.30
Rated power input heating	kW	2.20	3.01	4.09	3.64	3.01	4.09	3.64
COP	-	3.63	3.71	3.42	4.40	3.71	3.42	4.40
Seasonal energy class Heating	-	A		A+		A		-
SCOP (average climate)	-	3.92	4.04	4.03	3.96	4.09	3.93	3.96
Working range in Heating	°C	-20°C / +18°C (WB)						
Indoor units								
		RPI-3.0FSRE	RPI-4.0FSRE	RPI-5.0FSRE	RPI-6.0FSRE	RPI-4.0FSRE	RPI-5.0FSRE	RPI-6.0FSRE
Sound pressure in Cooling mode (L / M / H) <sup>(2)</sup>	dB(A)	28 / 33 / 35	33 / 38 / 39	34 / 38 / 40	34 / 38 / 40	33 / 38 / 39	34 / 38 / 40	34 / 38 / 40
Sound power	dB(A)	59	62	64	64	62	64	64
Airflow in Cooling mode (L / M / H)	m <sup>3</sup> /h	960 / 1140 / 1290	1680 / 2070 / 2160	1920 / 2100 / 2220	1950 / 2130 / 2250	1680 / 2070 / 2160	1920 / 2100 / 2220	1950 / 2130 / 2250
Static pressure (min-max)	Pa	30 (0~150)	37 (0~150)	50 (0~150)	50 (0~150)	37 (0~150)	50 (0~150)	50 (0~150)
Condensate pump included	-	yes						
Max. elevation	mm	850						
Dimensions (H x L x D)	mm	240 x 1084 x 600		240 x 1474 x 600		240 x 1474 x 600		
Weight	kg	32		42		42		
Condensate outlet diameter (ext)	mm	32						
Power supply	-	1~ 230V 50Hz						
Recommended fuse size	A	5						
Cable width (EN 60 335-1) <sup>(1)</sup>	mm <sup>2</sup>	3 x 0.75						
Remote control	-	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) <sup>(2)</sup>	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)	m <sup>3</sup> /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						
Refrigeration characteristics								
Diameter of pipes (Liq / Gas)	mm (inches)	9.52 (3/8) - 15.88 (5/8)						
Initial refrigerant charge	kg	1.7		3.0		3.2		
Pre-charged for	m	20						
Min. length	m	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						
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) <sup>(1)</sup>	mm <sup>2</sup>	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)	mm <sup>2</sup>	2 x 0.75						

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

<sup>(2)</sup> Sound levels (pressure) are measured in an anechoic chamber at 1.50 m below the unit (no ceiling under the unit), with an extraction duct at 1 m and a discharge duct at 2 m.

<sup>(3)</sup> To ensure a cooling mode at -15°C, this option must be activated.

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

(V) Single-phase version.

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



Simple wired controller

PC-ARH1E



Infrared controller

PC-AWR

Other (price excluding taxes):

- Remote sensor THM-R2AE

- Adjustable input/output contact connections PCC-1A

- Condensate drainage kit DDB-26 (4-6 HP) models  
DDB-12L (3HP models):

- Motion sensor for low-height ducted unit SOR-MSK



Hard wired controller

PC-ARFP1E