

Utopia Split Systems

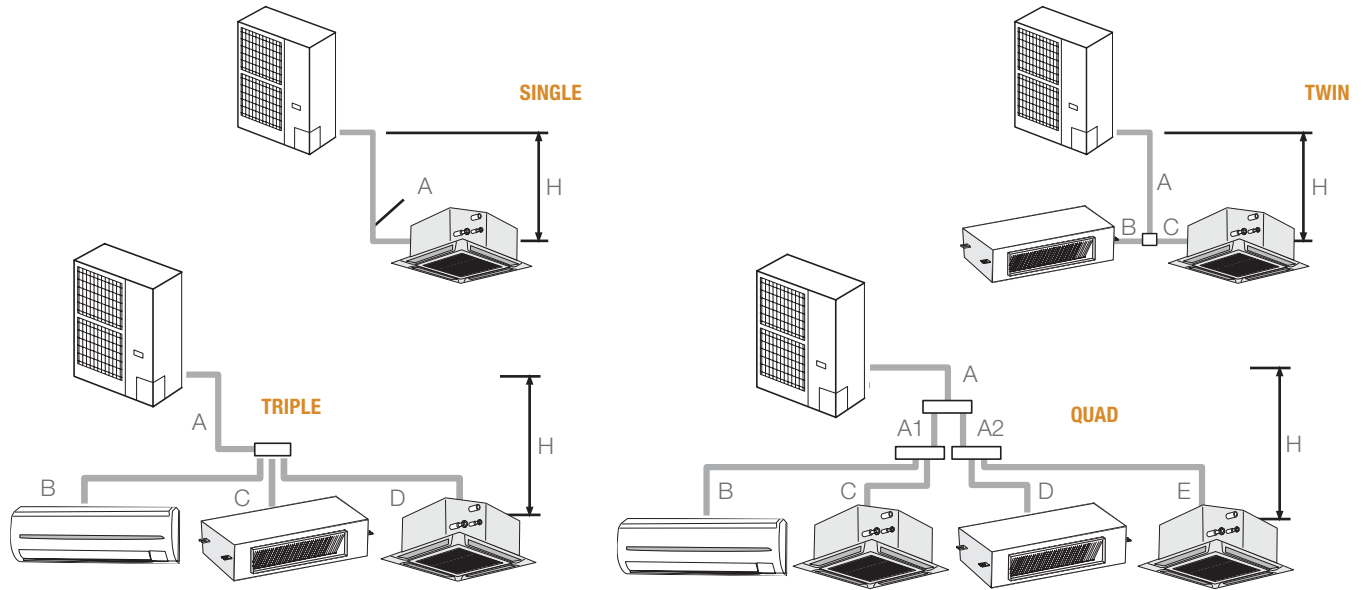
MULTI COMBINATIONS



Utopia ES

MULTI COMBINATIONS

Installation procedure



Precautions

- ⚡ The lengths after the manifold (A1, A2, B, C, D, E) must be balanced in accordance with the below table and must not exceed 10m.
- ⚡ The maximum imbalance must be observed: see the table below.
- ⚡ Optional refrigeration control connections.
- ⚡ Fixtures using MULTIKIT are not allowed.

CONNECTIONS

	RAS 3HVRNS3		RAS 4H(V)RNS3E		RAS 5H(V)RNS2E		RAS 6H(V)RNS2E		
	Indoor unit rating								
SINGLE	3.0	-	4.0	-	5.0	-	6.0	-	-
TWIN	1.5	1.5	2.0	2.0	2.5	2.5	3.0	3.0	-
	-	-	2.3	1.8	3.0	2.3	3.0	2.5	-
	-	-	2.3	2.0	3.0	1.8	-	-	-
TRIPLE	-	-	2.5	1.8	3.0	2.0	-	-	-
	-	-	2.5	2.0	-	-	-	-	-
	-	-	-	-	-	-	1.8	1.8	1.8
	-	-	-	-	-	-	2.0	2.0	2.0
	-	-	-	-	-	-	2.0	2.0	1.8
	-	-	-	-	-	-	1.8	1.8	2.0
	-	-	-	-	-	-	1.5	1.5	2.5

	RAS 8HRNSE				RAS 10HRNSE			
	Indoor unit rating							
SINGLE	8.0	-	-	-	10.0	-	-	-
TWIN	4.0	4.0	-	-	5.0	5.0	-	-
TRIPLE	3.0	3.0	3.0	-	Not Possible			
QUAD	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.5

See Quad TWIN ES plan

PIPE KIT SELECTION

Outdoor Unit	Twin	Triple	Quad
RAS 3HVRNS3	TE-03N1	-	-
RAS 4H(V)RNS3E	TE-04N1	-	-
RAS 5H(V)RNS2E	TE-56N1	-	-
RAS 6H(V)RNS2E	TE-56N1	TRE-46N1	-
RAS 8HRNSE	TE-08N1	TRE-810N1	TE-08N1+TE04N1+TE-04N1
RAS 10HRNSE	TE-08N1	-	TE-08N1+TE56N1+TE-56N1

Please refer to pipe kit prices on page 271

Outdoor Units

UTOPIA ES MULTI COMBINATIONS

		RAS 3HVRNS3	RAS 4HVRNS3E	RAS 4HRNS3E	RAS 5HVRNS2E
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	400V / 3Ph / 50Hz	230V / 1Ph / 50Hz
Min-Max number of indoor units		1-2	1-2	1-2	1-2
Nominal Cooling Capacity (min - max) ⁽¹⁾		7.10 (3.20 - 8.0)	10.0 (4.5 - 11.2)	10.0 (4.5 - 11.20)	12.5 (5.70 - 14.0)
Nominal Heating Capacity (min - max) ⁽²⁾		8.0 (3.5 - 10.6)	11.2 (5.0-14.0)	11.2 (5.0-14.0)	14.0 (6.0 - 16.0)
Seasonal Efficiency SEER ⁽³⁾		5.14	4.95	4.85	na
Energy Efficiency Class		A	B	B	*
Seasonal Efficiency SCOP ⁽³⁾ (Average Climate)		3.88	3.85	3.85	na
Energy Efficiency Class		A	A	A	*
Nominal Load Efficiency EER / COP ⁽⁴⁾		3.05/3.88	3.69/4.16	3.69 / 4.16	2.93 / 3.33
Energy Class (Cool/Heat)		B/A	A/A	A/A	C/C
Noise level cooling (sound pressure) (night mode) ⁽⁵⁾	<i>dB(A)</i>				
Noise level heating (sound pressure) ⁽⁵⁾	<i>dB(A)</i>	48 (46)	50 (48)	50 (48)	52 (50)
Noise level (sound power) ⁽⁶⁾	<i>dB(A)</i>	50	52	52	54
Air flow (Cooling / Heating)	<i>m³/h</i>	66	70	70	71
Dimensions (H x W x D)	<i>mm</i>	2682	3720	3720	4080
Weight	<i>kg</i>	600x792x300	800x950x370	800x950x370	800x950x370
Piping Diameter (Liquid / Gas)	<i>Inch</i> <i>mm</i>	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88
Minimum Piping Length	<i>m</i>	5	5	5	5
Maximum Piping Length / Height Difference	<i>m</i>	50 / 30	50 / 30	50 / 30	50 / 30
Current Quantity of Refrigerant	<i>kg</i>	1.90	2.90	2.90	2.9
Chargeless / Additional Refrigerant Charge	<i>m / g/m</i>	30 / 50	30 / 40	30 / 40	30 / 60
Recommended fuse size	<i>A</i>	25	32	16	32
Starting current	<i>A</i>	<10	<10	<10	<10
Running current (cooling / heating)	<i>A</i>	10.0 / 8.8	11.3 / 11.3	4.1 / 4.1	18.4 / 18.5
Interconnecting Cables	<i>No.</i>	LNE + 2 core screened			
Working Range (cooling / heating)	<i>°C</i>	-5°C~43(db)°C / -20(wb)°C~-15(wb)°C			
Refrigerant / GWP		R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975
Compressor type		Scroll	Scroll	Scroll	Scroll

		RAS 5HRNS2E	RAS 6HVRNS2E	RAS 6HRNS2E	RAS 8HRNS2E	RAS 10HRNS2E
Power supply		400V / 3Ph / 50Hz	230V / 1Ph / 50Hz	400V / 3Ph / 50Hz	400V / 3Ph / 50Hz	400V / 3Ph / 50Hz
Min-Max number of indoor units		1-2	1-3	1-3	1-4	1-4
Nominal Cooling Capacity (min - max) ⁽¹⁾		12.5 (5.70 - 14.0)	14.0 (6.0 - 16.0)	14.0 (6.0 - 16.0)	20.0 (9.0 - 22.4)	25.0 (11.2 - 28.0)
Nominal Heating Capacity (min - max) ⁽²⁾		14.0 (6.0 - 16.0)	16.0 (6.0 - 18.0)	16.0 (6.0 - 18.0)	22.4 (8.3 - 25.0)	28.0 (9.0 - 31.5)
Seasonal Efficiency SEER ⁽³⁾		na	na	na	na	na
Energy Efficiency Class		*	*	*	*	*
Seasonal Efficiency SCOP ⁽³⁾ (Average Climate)		na	na	na	na	na
Energy Efficiency Class		*	*	*	*	*
Nominal Load Efficiency EER / COP ⁽⁴⁾		2.93 / 3.33	2.75 / 3.23	2.75 / 3.23	3.01 / 3.42	2.81 / 3.21
Energy Class (Cool/Heat)		C / C	D / C	D / C	B/B	C/C
Noise level cooling (sound pressure) (night mode) ⁽⁵⁾	<i>dB(A)</i>	52 (50)	55 (53)	55 (53)	53 (51)	60 (56)
Noise level heating (sound pressure) ⁽⁵⁾	<i>dB(A)</i>	54	57	57	55	62
Noise level (sound power) ⁽⁶⁾	<i>dB(A)</i>	71	72	72	71	78
Air flow (Cooling / Heating)	<i>m³/h</i>	4080	4800	4800	7620	8760
Dimensions (H x W x D)	<i>mm</i>	800x950x370	800x950x370	800x950x370	1380x950x370	1380x950x370
Weight	<i>kg</i>	83	83	83	135	141
Piping Diameter (Liquid / Gas)	<i>Inch</i> <i>mm</i>	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 11/8 9.53 / 28.61	1/2 / 11/8 12.07 / 28.61
Minimum Piping Length	<i>m</i>	5	5	5	5	5
Maximum Piping Length / Height Difference	<i>m</i>	50 / 30	50 / 30	50 / 30	50 / 30	50 / 30
Current Quantity of Refrigerant	<i>kg</i>	2.9	2.9	2.9	6.0	6.2
Chargeless / Additional Refrigerant Charge	<i>m / g/m</i>	30 / 60	30 / 60	30 / 60	30 / 65	30 / 120
Recommended fuse size	<i>A</i>	16	32	16	25	25
Starting current	<i>A</i>	<10	<10	<10	<10	<10
Running current (cooling / heating)	<i>A</i>	6.5 / 6.6	24.6 / 23.8	8.7 / 8.4	10.8 / 10.7	11.2 / 11.3
Interconnecting Cables	<i>No.</i>	LNE + 2 core screened				
Working Range (cooling / heating)	<i>°C</i>	-5°C~43(db)°C / -20(wb)°C~-15(wb)°C				
Refrigerant / GWP		R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975
Compressor type		Scroll	Scroll	Scroll	Scroll	Scroll

(1) Nominal Cooling: Internal temperature 27°C db (19°C wb) - Ambient 35°C

(2) Nominal Heating: Internal temperature 20°C - Ambient 7°C db (6°C wb)

(3) Data calculated in accordance to prEN14825 and the Commission Communication 2012/C 172/01

(4) Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C)

(5) Sound pressure level is measured at 1.0m from the unit front surface and 1.5m from floor level (Measured in an anechoic chamber)

(6) Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the «cooling» mode operation in accordance to EN12102.

Wall Mounted UTOPIA ES



RPK 3.0FSN(H)3M



PC ARF



PC ART



RAS 3HVRNS3

Indoor units

- /// Nominal cooling capacity 7.1kW
- /// Nominal heating capacity 8.0kW
- /// Low consumption motor
- /// Modern sleek design
- /// Ideal for offices and shops
- /// Automatic restart
- /// Easily accessible filters
- /// Built-in infra-red receiver.

Remote controllers

- /// Advanced PC-ARF wired LED controller (inc. 7-day time clock)
 - 5 time ranges with different temperatures (reduced, weekly, holiday etc)
 - Service menu and optional function menus, *add your contact details to be shown when there is an error*
- /// Standard PC-ART wired remote controller (inc. 7-day time clock)
 - 4 programmable weekly schedules
 - Service menu, optional function menu and fault diagnostic
- /// Alternative option: infra-red or simplified remote control - see pages 262-263.

Outdoor units

- /// Compact design – single fan
- /// Available in single phase



RPK 3.0FSN(H)3M

UTOPIA ES

Wall Mounted

INDOOR UNITS

		RPK 3.0FSN3M
Nominal Cooling Capacity (min - max) ⁽¹⁾	kW	7.1 (3.2 - 8.0)
Nominal Heating Capacity (min - max) ⁽²⁾	kW	8.0 (3.5 - 10.6)
UK Cooling Capacity (sensible) ⁽³⁾	kW	7.4 (5.5)
Seasonal Efficiency SEER ⁽⁴⁾		4.66
Energy Efficiency Class		B
Seasonal Efficiency SCOP ⁽⁴⁾ (Average Climate)		3.81
Energy Efficiency Class		A
Nominal Load Efficiency EER / COP ⁽⁵⁾		2.81 / 2.93
Energy Class (Cool/Heat)		C / D
Noise Level (sound pressure) L / M / H / H1* ⁽⁶⁾	dB(A)	36/40/43/49
Noise level (sound power) ⁽⁸⁾	dB(A)	59
Air flow cooling mode (L / M / H / H1*)	m ³ /h	720/840/1020/1140
Dimensions (H x W x D)	mm	333x1150x245
Weight	kg	18
Included Condensate Pump		No
Drain Diameter (ext)		φ20mm
Piping Diameter (Liquid / Gas)	Inch mm	3/8 / 5/8 9.53 / 15.88
Power Input	w	40
Power supply		230V / 1Ph / 50Hz
Recommended fuse size	A	5
Remote Controller		PC ART (PC ARF infra-red and simplified model optional)

* Four fan speeds only available with PC-ARF wired controller or PC-LH3B infra-red controller

OUTDOOR UNITS

		RAS 3HVRN3S
Power supply		230V / 1Ph / 50Hz
Noise level cooling (sound pressure) (night mode) ⁽⁷⁾	dB(A)	48 (46)
Noise level heating (sound pressure) ⁽⁷⁾	dB(A)	50
Noise level (sound power) ⁽⁸⁾	dB(A)	66
Air flow (Cooling / Heating)	m ³ /h	2682
Dimensions (H x W x D)	mm	600x792x300
Weight	kg	44
Piping diameter (Liquid / Gas)	Inch mm	3/8 / 5/8 9.53 / 15.88
Minimum Piping Length	m	5
Maximum Piping Length / Height Difference	m	50 / 30
Current Quantity of Refrigerant	kg	1.90
Chargeless / Additional Refrigerant Charge	m / g/m	20 / 30
Recommended fuse size	A	25
Starting current	A	<10
Running current (cooling / heating)	A	10.0 / 8.8
Interconnecting Cables	No.	LNE + 2 core screened
Working Range (cooling / heating)	°C	-5°C~43(db)°C / -20(wb)°C~15(wb)°C
Refrigerant / GWP		R410a / 1975
Compressor type		Scroll

System price includes PC-ART wired remote controller.

(1) Nominal Cooling: Internal temperature 27°C db (19°C wb) - Ambient 35°C

(2) Nominal Heating: Internal temperature 20°C - Ambient 7°C db (6°C wb)

(3) UK Cooling: Internal Temperature 23°C db (16°C wb) - Ambient 30°C

(4) Data calculated in accordance to prEN14825 and the Commission Communication 2012/C 172/01

(5) Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C)

(6) Sound pressure level is measured at 1.0m below the unit and 1.0m from the discharge louvre (Measured in an anechoic chamber)

(7) Sound pressure level is measured at 1.0m from the unit front surface and 1.5m from floor level (Measured in an anechoic chamber)

(8) Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the «cooling» mode operation in accordance to EN12102

Ducted in the Ceiling

UTOPIA ES



SYSTEM
FREE



RPI 3-6FSN4E



RPI 8-10FSN3E



PC ARF



PC ART



RAS 3HVRNS3



RAS 4-6H(V)RNS3E



RAS 8-10HRNSE

Indoor units

- ✓ Nominal cooling capacities
7.1kW to 25.0kW
- ✓ Nominal heating capacities
8.0kW to 28.0kW
- ✓ Ultra low power consumption
- ✓ Ultra Quiet - from 29 dB(A)
- ✓ 4 speed, 3 static pressure levels,
including zero pressure setting
- ✓ Possible to supply fresh air:
Econofresh see pages 208-209

Remote controllers

- ✓ Advanced PC-ARF wired LED
controller (inc. 7-day time clock)
 - 5 time ranges with different
temperatures (reduced, weekly,
holiday etc)
 - Service menu and optional
function menus, *add your contact
details to be shown when there is
an error*
- ✓ Standard PC-ART wired remote
controller (inc. 7-day time clock)
 - 4 programmable weekly schedules
 - Service menu, optional function
menu and fault diagnostic
- ✓ Alternative option: infra-red or
simplified remote control -
see pages 262-263.

Outdoor units

- ✓ Compact design – single fan
(up to 6HP)
- ✓ SCOP of up to 3.83 A rating and
SEER of up to 4.62 B rating
- ✓ Available in single phase
and three phase



RPI 5-6FSN4E

UTOPIA ES

Ducted in the Ceiling

INDOOR UNITS

		RPI 3.0FSN4E	RPI 4.0FSN4E	RPI 5.0FSN4E	RPI 6.0FSN4E	RPI 8.0FSN3E	RPI 10.0FSN3E
Nominal Cooling Capacity (min - max) ⁽¹⁾	kW	7.1 (3.2 - 8.0)	10 (4.5 - 11.2)	12.5 (5.7 - 14.0)	14.0 (6.0 - 16.0)	20.00 (8.00 - 22.40)	25.00 (10.00 - 28.00)
Nominal Heating Capacity (min - max) ⁽²⁾	kW	8.0 (3.5 - 10.6)	11.2 (5.0 - 14.0)	14.0 (5.0 - 16.0)	16.0 (5.0 - 18.0)	22.40 (6.30 - 28.00)	28.00 (8.00 - 35.00)
UK Cooling Capacity (sensible) ⁽³⁾	kW	7.4 (6.0)	10.3 (7.9)	12.7 (9.1)	15.2 (10.5)	20.1 (15.5)	24.9 (17.9)
Seasonal Efficiency SEER ⁽⁴⁾		4.62	4.62	na	na	na	na
Energy Efficiency Class		B	B	*	*	*	*
Seasonal Efficiency SCOP ⁽⁴⁾ (Average Climate)		3.81	3.83	na	na	na	na
Energy Efficiency Class		A	A	*	*	*	*
Nominal Load Efficiency EER / COP ⁽⁵⁾		2.81 / 3.54	3.4 / 3.59	2.84 / 3.27	2.67 / 3.18	2.46 / 3.00	2.32 / 2.97
Energy Class (Cool/Heat)		C / B	B / A	C / C	D / C	E / D	F / D
Noise Level (sound pressure) (L / M / H) ⁽⁶⁾	dB(A)	29/31/31	32/35/37	33/35/38	33/36/39	51/54/54	52/55/55
Noise level (sound power) ⁽⁷⁾	dB(A)	57	62	65	66	77	78
Air flow cooling mode (L / M / H)	m ³ /h	960/1140/1320	1500/1680/1800	1740/1920/2100	1800/1980/2160	3570/3960/3960	4056 / 4500 / 4500
Static Pressure Nom. (min ~ max)	Pa	30 (0 - 125)	45 (0 - 120)	50 (0 - 140)	50 (0 - 140)	140 - 220	140 - 220
Dimensions (H x W x D)	mm	275x1084x600	275x1474x600	275x1474x600	275x1474x600	423 x 1592 x 600	423 x 1592 x 600
Weight	kg	36	48	48	48	85	87
Included Condensate Pump		yes	yes	yes	yes	no	no
Condensate Pump Lift		850 mm from the bottom edge of the unit				-	-
Drain Diameter (ext)		ø32mm	ø32mm	ø32mm	ø32mm	ø25mm	ø25mm
Piping Diameter (Liquid / Gas)	Inch mm	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 3/4 9.53 / 19.05	3/8 / 7/8 9.53 / 22.2
Power Input	w	150	250	250	250	1065	1065
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
Recommended fuse size	A	5	5	5	5	10	10
Remote Controller		PC ART (PC ARF infra-red and simplified model optional)					

OUTDOOR UNITS

		RAS 3HVRNS3	RAS 4H(V)RNS3E	RAS 5H(V)RNS2E	RAS 6H(V)RNS2E	RAS 8HRNSE	RAS 10HRNSE
Power supply		230V / 1Ph / 50Hz	(230V / 1Ph / 50Hz) - 400V / 3Ph / 50Hz			400V / 3Ph / 50Hz	
Noise level cooling (sound pressure) (night mode) ⁽⁸⁾	dB(A)	48 (46)	50 (48)	52 (50)	55 (53)	53 (51)	60 (56)
Noise level heating (sound pressure) ⁽⁷⁾	dB(A)	50	52	54	57	55	62
Noise level (sound power) ⁽⁸⁾	dB(A)	66	70	71	72	71	78
Air flow (Cooling / Heating)	m ³ /h	2682	3720	4080	4800	7620	8760
Dimensions (H x W x D)	mm	600x792x300	800x950x370	800x950x370	800x950x370	1380x950x370	1380x950x370
Weight	kg	44	67	83	83	135	141
Piping diameter (Liquid / Gas)	Inch mm	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 11/8 9.53 / 28.61	1/2 / 11/8 12.07 / 28.61
Minimum Piping Length	m	5	5	5	5	5	5
Maximum Piping Length / Height Difference	m	50 / 30	50 / 30	50 / 30	50 / 30	50 / 30	50 / 30
Current Quantity of Refrigerant	kg	1.90	2.90	2.9	2.9	6.0	6.2
Chargeless / Additional Refrigerant Charge	m / g/m	20 / 30	30 / 40	30 / 60	30 / 60	30 / 65	30 / (120)
Recommended fuse size - 1Ph/3Ph	A	25	32/16	32/16	32/16	-/32	-/32
Starting current (1Ph/3Ph)	A	<10	<10	<10	<10	<10	<10
Running current (cooling / heating) 1Ph (3Ph)	A	10.0 / 8.8 (-/-)	11.3 / 11.3 (4.1 / 4.1)	18.4 / 18.5 (6.5 / 6.6)	24.6 / 23.8 (8.7 / 8.4)	-/ (10.7 / 9.9)	-/ (14.6 / 13.5)
Interconnecting Cables	No.	LNE + 2 core screened					
Working Range (cooling / heating)	°C	-5°C~43(db)°C / -20(wb)°C~15(wb)°C					
Refrigerant / GWP		R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975
Compressor type		Scroll	Rotary	Scroll	Scroll	Scroll	Scroll

System price includes PC-ART wired remote controller.

(1) Nominal Cooling: Internal temperature 27°C db (19°C wb) - Ambient 35°C

(2) Nominal Heating: Internal temperature 20°C - Ambient 7°C db (6°C wb)

(3) UK Cooling: Internal Temperature 23°C db (16°C wb) - Ambient 30°C

(4) Data calculated in accordance to prEN14825 and the Commission Communication 2012/C 172/01

(5) Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C)

(6) Sound pressure level is measured at 1.5m below the unit (Measured in an anechoic chamber)

(7) Sound pressure level is measured at 1.0m from the unit front surface and 1.5m from floor level (Measured in an anechoic chamber)

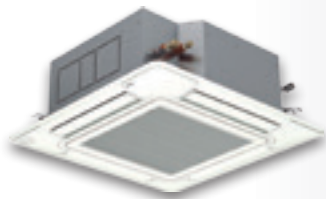
(8) Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the «cooling» mode operation in accordance to EN12102

Cassettes

UTOPIA ES



SYSTEM
FREE



RCI 3-6FSN3EK

Indoor units

- /// Nominal cooling capacities 7.1kW to 14.0kW
- /// Nominal heating capacities 8.0kW to 16.0kW
- /// Standard 900mm x 900mm design
- /// Super High Stream turbo fan with curved blades for 20% increased efficiency with noise levels as low as 28dB(A)
- /// High ceiling adaptability
- /// Built-in condensate drain pump
- /// Access to components from below.



PC ARF



PC ART

Remote controllers

- /// Advanced PC-ARF wired LED controller (inc. 7-day time clock)
 - Louvre control
 - 5 time ranges with different temperatures (reduced, weekly, holiday etc)
 - Service menu and optional function menus, *add your contact details to be shown when there is an error*
- /// Standard PC-ART wired remote controller (inc. 7-day time clock)
 - Louvre control
 - 4 programmable weekly schedules
 - Service menu, optional function menu and fault diagnostic
- /// Alternative option: infra-red or simplified remote control - see pages 262-263.



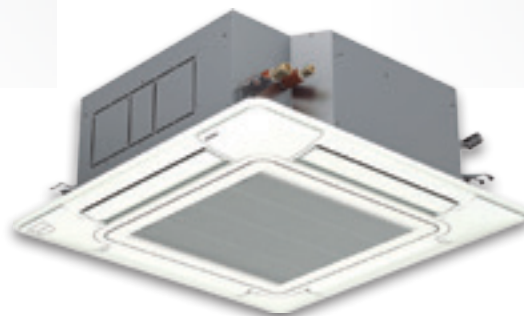
RAS 3HVRNS3



RAS 4-6H(V)RNS3E

Outdoor units

- /// Compact design – single fan (up to 6HP)
- /// SCOP of up to 3.83 A rating and SEER of up to 4.62 B rating
- /// Available in single phase and three phase.



RCI 3-6FSN3EK

UTOPIA ES

4-Way Cassette

INDOOR UNITS

		RCI 3.0FSN3Ek	RCI 4.0FSN3Ek	RCI 5.0FSN3Ek	RCI 6.0FSN3Ek
Nominal Cooling Capacity (min - max) ⁽¹⁾	kW	7.1 (3.2 - 8.0)	10 (4.5 - 11.2)	12.5 (5.7 - 14.0)	14.0 (6.0 - 16.0)
Nominal Heating Capacity (min - max) ⁽²⁾	kW	8.0 (3.5 - 10.6)	11.2 (5.0 - 14.0)	14.0 (5.0 - 16.0)	16.0 (5.0 - 18.0)
UK Cooling Capacity (sensible) ⁽³⁾	kW	7.4 (5.8)	10.3 (8.1)	12.7 (9.4)	15.2 (11.1)
Seasonal Efficiency SEER ⁽⁴⁾		4.70	4.70	na	na
Energy Efficiency Class		B	B	*	*
Seasonal Efficiency SCOP ⁽⁴⁾ (Average Climate)		3.81	3.83	na	na
Energy Efficiency Class		A	A	*	*
Nominal Load Efficiency EER / COP ⁽⁵⁾		3.01 / 3.65	3.3 / 3.65	2.91 / 3.24	2.45 / 2.88
Energy Class (Cool/Heat)		B / A	B / A	C / C	E / D
Noise Level (sound pressure) (L / M / H) ⁽⁶⁾	dB(A)	30/32/34	33/35/38	35/37/39	36/40/42
Noise level (sound power) ⁽⁶⁾	dB(A)	56	60	61	64
Air flow cooling mode (L / M / H)	m ³ /h	1200/1380/1560	1440/1680/1920	1500/1740/2040	1620/1920/2220
Dimensions (H x W x D)	mm	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840
Weight	kg	26	29	29	29
Fascia Panel		P-AP160NAE (with Motion Sensor) P-AP160NA1 (without Motion Sensor)			
Fascia Panel Dimensions	mm	37 x 950 x 950	37 x 950 x 950	37 x 950 x 950	37 x 950 x 950
Fascia Panel Weight	kg	6	6	6	6
Included Condensate Pump		yes	yes	yes	yes
Condensate Pump Lift		850 mm from the bottom edge of the unit			
Drain Diameter (ext)		φ32mm	φ32mm	φ32mm	φ32mm
Piping Diameter (Liquid / Gas)	Inch mm	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88
Power Input	w	56	108	108	108
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
Recommended fuse size	A	5	5	5	5
Remote Controller		PC ART (PC-ARF, infra-red and simplified model optional)			

OUTDOOR UNITS

		RAS 3HVRNS3	RAS 4H(V)RNS3E	RAS 5H(V)RNS2E	RAS 6H(V)RNS2E
Power supply		230V / 1Ph / 50Hz	(230V / 1Ph / 50Hz) - 400V / 3Ph / 50Hz		
Noise level cooling (sound pressure) (night mode) ⁽⁷⁾	dB(A)	48 (46)	50 (48)	52 (50)	55 (53)
Noise level heating (sound pressure) ⁽⁷⁾	dB(A)	50	52	54	57
Noise level (sound power) ⁽⁸⁾	dB(A)	66	70	71	72
Air flow (Cooling / Heating)	m ³ /h	2682	3720	4080	4800
Dimensions (H x W x D)	mm	600x792x300	800x950x370	800x950x370	800x950x370
Weight	kg	44	67	83	83
Piping diameter (Liquid / Gas)	Inch mm	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88
Minimum Piping Length	m	5	5	5	5
Maximum Piping Length / Height Difference	m	50 / 30	50 / 30	50 / 30	50 / 30
Current Quantity of Refrigerant	kg	1.90	2.90	2.9	2.9
Chargeless / Additional Refrigerant Charge	m / g/m	20 / 30	30 / 40	30 / 60	30 / 60
Recommended fuse size - 1Ph/3Ph	A	25	32/16	32/16	32/16
Starting current - 1Ph/3Ph	A	<10	<10	<10	<10
Running current (cooling / heating) 1Ph (3Ph)	A	10.0 / 8.8 (-/-)	11.3 / 11.3 (4.1 / 4.1)	18.4 / 18.5 (6.5 / 6.6)	24.6 / 23.8 (8.7 / 8.4)
Interconnecting Cables	No.	LNE + 2 core screened			
Working Range (cooling / heating)	°C	-5°C--43(db)°C / -20(wb)°C--15(wb)°C			
Refrigerant / GWP		R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975
Compressor type		Scroll	Rotary	Scroll	Scroll

System price includes PC-ART wired remote controller.

(1) Nominal Cooling: Internal temperature 27°C db (19°C wb) - Ambient 35°C

(2) Nominal Heating: Internal temperature 20°C - Ambient 7°C db (6°C wb)

(3) UK Cooling: Internal Temperature 23°C db (16°C wb) - Ambient 30°C

(4) Data calculated in accordance to prEN14825 and the Commission Communication 2012/C 172/01

(5) Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C)

(6) Sound pressure level is measured at 1.5m below the unit (Measured in an anechoic chamber)

(7) Sound pressure level is measured at 1.0m from the unit front surface and 1.5m from floor level (Measured in an anechoic chamber)

(8) Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the «cooling» mode operation in accordance to EN12102.

Utopia Split Systems

CEILING SUSPENDED



SYSTEM
FREE



RPC 3-5-6FSN3E



PC ART



RAS 3HVRNS3



RAS 5-6H(V)RNS3

Indoor units

- ✓ Nominal cooling capacities 7.1kW to 14.0kW
- ✓ Nominal heating capacities 8.0kW to 16.0kW
- ✓ Drain lines connectable in two alternate locations for easy installation
- ✓ Fully adjustable mounting brackets allow installation in even the smallest area
- ✓ Centrifugal multi-blade fan and automatic swing louvre creates a powerful, quiet and evenly distributed airflow.

Remote controller

- ✓ Standard PC-ART wired remote controller (inc. 7-day time clock)
 - 4 programmable weekly schedules
 - Service menu, optional function menu and fault diagnostic
- ✓ Alternative option: infra-red or simplified remote control - see pages 262-263.

Outdoor units

- ✓ Compact design – single fan (up to 6HP)
- ✓ SCOP of up to 3.80 A rating and SEER of up to 4.31 C rating
- ✓ Available in single phase and three phase



RPC 3-5-6FSN3E

UTOPIA ES

Ceiling Suspended

INDOOR UNITS

		RPC 3.0FSN3E	RPC 5.0FSN3E	RPC 6.0FSN3E
Nominal Cooling Capacity (min - max) ⁽¹⁾	<i>kW</i>	7.1 (3.2 - 8.0)	12.50 (5.70 - 14.00)	14.0 (6.0 -16.0)
Nominal Heating Capacity (min - max) ⁽²⁾	<i>kW</i>	8.0 (3.5 - 10.6)	14.00 (5.00 - 16.00)	16.0 (5.0 - 20.0)
UK Cooling Capacity (sensible) ⁽³⁾	<i>kW</i>	7.4 (5.3)	12.7 (9.1)	15.2 (10.9)
Seasonal Efficiency SEER ⁽⁴⁾		4.31	na	na
Energy Efficiency Class		C	*	*
Seasonal Efficiency SCOP ⁽⁴⁾ (Average Climate)		3.80	na	na
Energy Efficiency Class		A	*	*
Nominal Load Efficiency EER / COP ⁽⁵⁾		2.65 / 3.07	2.42 / 3.09	2.41 / 2.83
Energy Class (Cool/Heat)		D / D	E / D	E / D
Noise Level (sound pressure) (L / M / H) ⁽⁶⁾	<i>dB(A)</i>	39/45/49	41/46/49	44 / 48 / 50
Noise level (sound power) ⁽⁸⁾	<i>dB(A)</i>	65	65	66
Air flow cooling mode (L / M / H)	<i>m³/h</i>	960/1260/1620	1260/1680/2100	1620/1920/2220
Dimensions (H x W x D)	<i>mm</i>	225x1314x625	225x1574x625	225x1574x625
Weight	<i>kg</i>	35	41	41
Included Condensate Pump		No	No	No
Drain Diameter (ext)		φ25mm	φ25mm	φ20mm
Piping Diameter (Liquid / Gas)	<i>Inch</i> <i>mm</i>	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88
Power Input	<i>w</i>	145	145	40
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
Recommended fuse size	<i>A</i>	5	5	5
Remote Controller		PC ART (PC-ARF, simplified model or optional infra-red)		

OUTDOOR UNITS

		RAS 3HVRNS3	RAS 5H(V)RNS2E	RAS 6H(V)RNS2E
Power supply		230V / 1Ph / 50Hz	400V / 3Ph / 50Hz (230V / 1Ph / 50Hz)	400V / 3Ph / 50Hz (230V / 1Ph / 50Hz)
Noise level cooling (sound pressure) (night mode) ⁽⁷⁾	<i>dB(A)</i>	48 (46)	52 (50)	55 (53)
Noise level heating (sound pressure) ⁽⁷⁾	<i>dB(A)</i>	50	54	57
Noise level (sound power) ⁽⁸⁾	<i>dB(A)</i>	66	71	72
Air flow (Cooling / Heating)	<i>m³/h</i>	2682	4080	4800
Dimensions (H x W x D)	<i>mm</i>	600x792x300	800x950x370	800x950x370
Weight	<i>kg</i>	44	83	83
Piping diameter (Liquid / Gas)	<i>Inch</i> <i>mm</i>	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88
Minimum Piping Length	<i>m</i>	5	5	5
Maximum Piping Length / Height Difference	<i>m</i>	50 / 30	50 / 30	50 / 30
Current Quantity of Refrigerant	<i>kg</i>	1.90	2.9	2.9
Chargeless / Additional Refrigerant Charge	<i>m / g/m</i>	20 / 30	30 / 60	30 / 60
Recommended fuse size - 1Ph/3Ph	<i>A</i>	25/-	32/16	32/16
Starting current - 1Ph/3Ph	<i>A</i>	<10	<10	<10
Running current (cooling / heating) 1Ph (3Ph)	<i>A</i>	10.0 / 8.8	18.4 / 18.5 (6.5 / 6.6)	24.6 / 23.8 (8.7 / 8.4)
Interconnecting Cables	<i>No.</i>	LNE + 2 core screened		
Working Range (cooling / heating)	<i>°C</i>	-5°C~-43(db)°C / -20(wb)°C~15(wb)°C		
Refrigerant / GWP		R410a / 1975	R410a / 1975	R410a / 1975
Compressor type		Scroll	Scroll	Scroll

(1) Nominal Cooling: Internal temperature 27°C db (19°C wb) - Ambient 35°C

(2) Nominal Heating: Internal temperature 20°C - Ambient 7°C db (6°C wb)

(3) UK Cooling: Internal Temperature 23°C db (16°C wb) - Ambient 30°C

(4) Data calculated in accordance to prEN14825 and the Commission Communication 2012/C 172/01

(5) Nominal load efficiency (Cooling 35°C/27°C, Heating 7°C/20°C)

(6) Sound pressure level is measured at 1.0m below the unit and 1.0m from the discharge louvre (Measured in an anechoic chamber)

(7) Sound pressure level is measured at 1.0m from the unit front surface and 1.5m from floor level (Measured in an anechoic chamber)

(8) Sound power level is the A-weighted sound power level [dB(A)] measured at standard rated conditions for the "cooling" mode operation in accordance to EN12102.