

# IVX Premium



All the benefits of VRF – without the price tag –  
and premium efficiency as standard.

## IVX PREMIUM

COMMERCIAL PREMISES, OFFICES  
AND SHOPS: UP TO 8 INDOOR UNITS

### Features

#### UP TO 8 INDOOR UNITS

#### INDEPENDENT CONTROL

Multi split applications possible (Master slave control) Zone by zone individual control

#### COMPACT AND EASY INSTALLATION

0.35 m<sup>2</sup> for 41 kg to 163 kg and horizontal flow.

#### HEIGHT DIFFERENCE BETWEEN INDOOR UNITS OF 10 METRES

Possibility of use over 3 floors.

#### VRF OPERATION

Connection ratio of 50 to 120% with indoor units from 0.8 to 10HP.

#### OPTIONAL COOLING AS LOW AS -15°C.



COP  
**5.16**

EER  
**4.68**

SCOP  
**A++**

SCOP  
**4.77**

SEER  
**A++**

SEER  
**7.88**

UTOPIA IVX PREMIUM

### Design

- SYSTEM FREE Compatible with all Hitachi indoor units.

### Ecological

- Low power.
- Heating only lock.



### SYSTEM FREE INDOOR UNITS



CASSETTE



WALL-MOUNTED



DUCTED

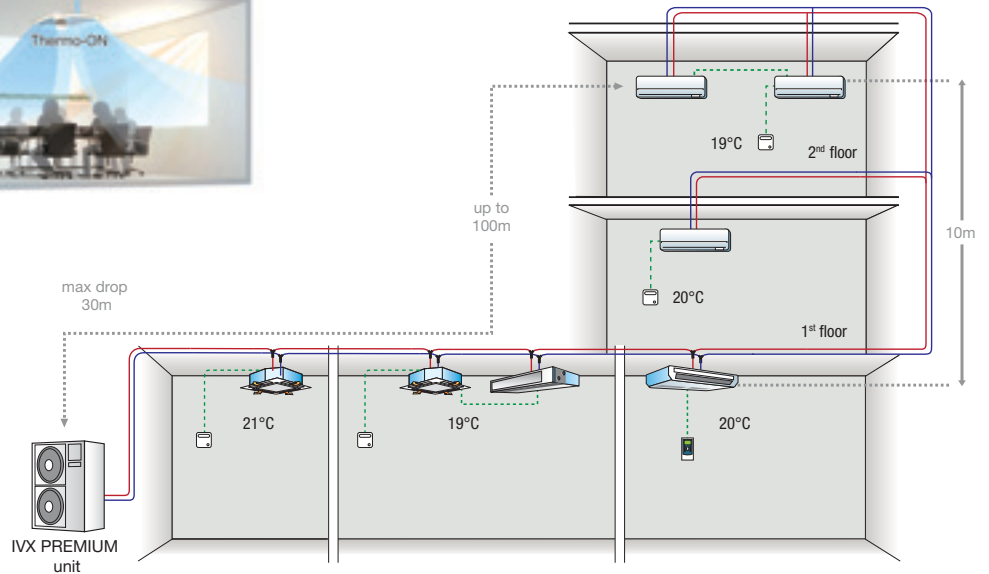


CEILING SUSPENDED

# Utopia IVX Premium

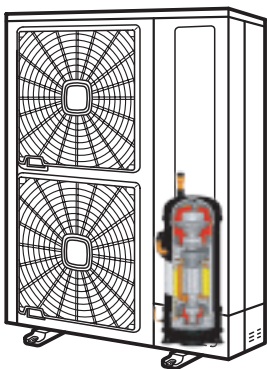
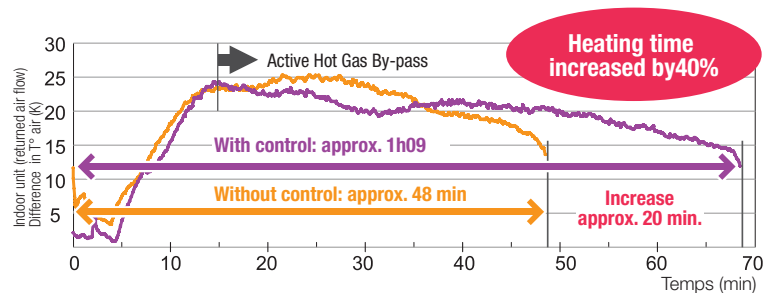


Ability to stop a single unit



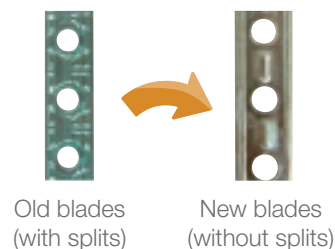
## Reduced Defrost

➤ An «intelligent» defrosting system limits the number of defrost cycles by the re-injection of hot gas improving heating duration by 40%



- The inversion cycle valve allows feedback and reduces frost.
- New compressor, new multi-polar rotor and a new mechanism improve performance at low speeds.

➤ The blades on the heat exchangers have been designed to reduce ice formation, increase airflow and increase heating duration.



## Range

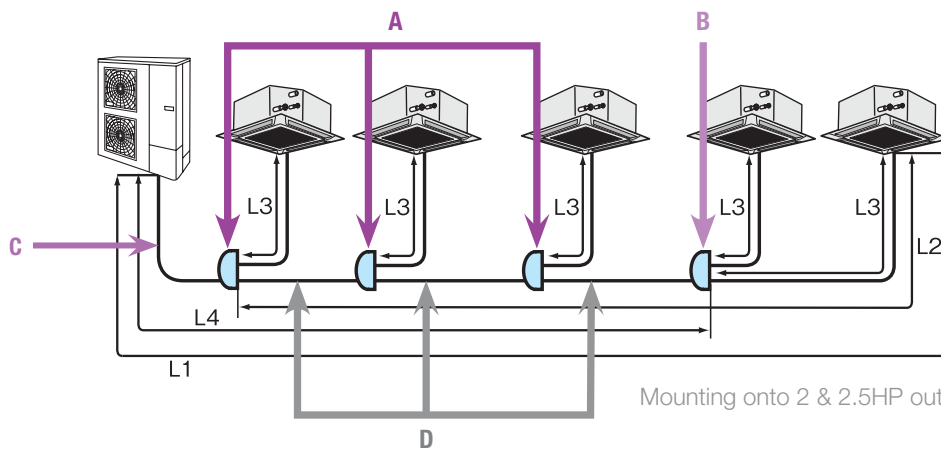
	HP	2	2.5	3	4	5	6	8	10	12
<b>IVX PREMIUM</b> <i>(pages 154 to 158)</i>		1	1	1	1/3	1/3	1/3	3	3	3

1: 1 phase  
3: 3 phase

## Number of indoor units

Unit output	2HP	2.5HP	3HP	4HP	5HP	6HP	8HP	10HP	12HP
Maximum number of indoor units per group	2		3	5	6		8		
Minimum output from indoor units (in HP, according to the model)	0.80								
Allowed connection ratio	1 unit 90 - 110%		≤ 2 units 50 - 120%	4 units 50 - 120%					
	Must be 1.8 to 2.2HP	Must be 2.25 to 2.75HP	Must be 1.5 to 3.6HP	Must be 2 to 4.8HP	Must be 2.5 to 6.6HP	Must be 3 to 7.2HP	Must be 4 to 9.6HP	Must be 5 to 12HP	Must be 6 to 14.4HP
	2 units 90 - 100%		3 units 50 - 100%	5 units 50 - 100%	5 or 6 units 50 - 100%		5, 6, 7 or 8 units 50 - 100%		
	Must be 1.8 to 2HP	Must be 2.25 to 2.5HP	Must be 1.5 to 3HP	Must be 2 to 4HP	Must be 2.5 to 5HP	Must be 3 to 6HP	Must be 4 to 8HP	Must be 5 to 10HP	Must be 6 to 12HP

## Implementation of installation with multikits



Outdoor units	DIAMETER C + D		MULTIKIT A	MULTIKIT B
	GAS	LIQUID		
3HP	5/8 "	3/8 "	E102SN3	E102SN3
4HP				
5HP				
6HP				
8HP	1 1/8"	3/8 "	E162SN3	E162SN3
10HP		1/2 "		
12HP				

Note: unit RPI 8-10HP is not compatible with this connection

Output of indoor unit	DIAMETER L3	
	GAS	LIQUID
≤ 1.5HP	1/2 "	1/4 "
≤ 1.8 / 2.0HP	5/8 "	
≥ 2.3HP		5/8 "

## Piping Lengths

Multikit fixtures / Outdoor units		3HP	4HP	5HP	6HP	8HP	10HP	12HP
Maximum length between outdoor unit and the farthest unit	Actual length (L1)	50m		75m			100m	
	Equivalent length	70m		95m			125m	
Maximum length of the first area to each indoor unit (L2)		20m		30m			40m	
Maximum length of the by-pass to internal units (L3)			10m				15m	
Total length of piping L4 + (L3 <sub>1</sub> +L3 <sub>2</sub> +L3 <sub>3</sub> ...)		60m		95m		100m		145m
Maximum drop OU / IU (H) (above / below OU)					30 / 20m			
Maximum drop in height IU / IU					10m			
Maximum drop: By-pass / IU - By-pass/By-pass			3m					na

Installation limitations for high performance cassette RCix.xFSN3		2HP*	2.5HP*	3HP	4HP	5HP	6HP
Premium: 100% connection ratio	Number - maximum	1		2		4	

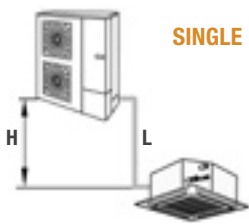
\* The single split mounting is only permitted with RCix.xFSN3 or RCix.xFSN3Ei.

If RCix.xFSN3 or RCix.xFSN3Ei are used in the installation, the smallest permitted size is 1.5HP. Attention: RCIM 2.0FSN2, RPF(i) 2.0FSN2E or RPF(i) 2.5FSN2E do not accept the single split fixture.

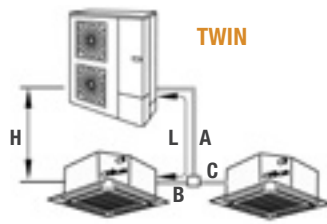
Please refer to pipe kit prices on page 271

For faster selection: use Hi-ToolKit FOR BUSINESS!

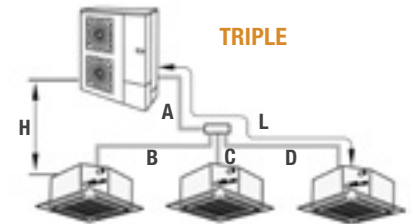
## Implementation of installation with 2 multikits



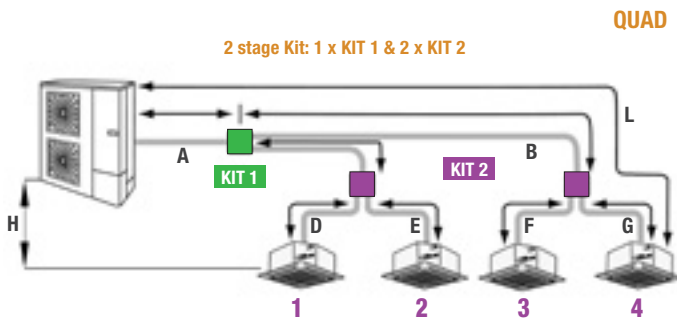
**SINGLE**



**TWIN**

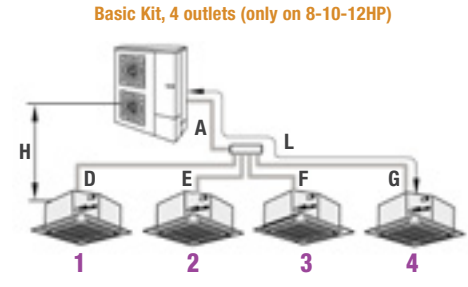


**TRIPLE**



2 stage Kit: 1 x KIT 1 & 2 x KIT 2

**QUAD**



Basic Kit, 4 outlets (only on 8-10-12HP)

## Choice of multikits

TWIN / Outdoor units	DIAMETER A		KIT	Output of indoor unit	DIAMETER B, C	
	GAS	LIQUID			GAS	LIQUID
2.0HP	1/2"	1/4"	TE 26N2	≤ 1.5HP	1/2"	1/4"
2.5HP				≤ 1.8 / 2.0HP		
3.0HP				≥ 2.3HP	5/8"	3/8"
4.0HP						
5.0HP	5/8"	5/8"	TE 810N2			
6.0HP						
8.0HP	1 1/8"	3/8"	TE 810N2			
10.0HP		1/2"				
12.0HP						

TRIPLE / Outdoor units	DIAMETER A		KIT	Output of indoor unit	DIAMETER B, C		
	GAS	LIQUID			GAS	LIQUID	
4.0HP	5/8"	3/8"	TRE 46N1	≤ 1.5HP	1/2"	1/4"	
5.0HP					≤ 1.8 / 2.0HP		
6.0HP					≥ 2.3HP	5/8"	3/8"
8.0HP	1 1/8"	3/8"	TRE 812N1				
10.0HP		1/2"					
12.0HP							

Note: the unit RPI 8-10HP is not compatible with this connection

### 2 stage Kit: 1 x KIT 1 & 2 x KIT 2

QUAD Kit 1 / Outdoor units	DIAMETER B, C		KIT 1
	GAS	LIQUID	
4.0HP	5/8"	3/8"	4/5/6HP : TE 26N2
5.0HP			
6.0HP			
8.0HP	1 1/8"	3/8"	TE 810N2
10.0 / 12.0HP		1/2"	

QUAD Kit 2 / Output 1+2 or 2+3	DIAMETER B & C		KIT 2
	GAS	LIQUID	
≤ 1.5HP	5/8"	1/2"	TE 26N2
≤ 1.8 / 2.0HP		1/4"	
≥ 2.3HP		3/8"	

Note: If the imbalance 1+2 / 3+4 is above 40% / 60%, use a basic KIT QE 812N1

### Basic kit, 4 outlets (only on 8-10-12HP)

QUAD / Outdoor units	DIAMETER A		KIT
	GAS	LIQUID	
8.0HP	1 1/8"	3/8"	QE 812N1
10.0 / 12.0HP		1/2"	

Output of indoor unit	DIAMETER D, E, F, G	
	GAS	LIQUID
≤ 1.5HP	1/2"	1/4"
≤ 1.8 / 2.0HP	5/8"	1/4"
≥ 2.3HP		3/8"

## Piping Lengths

Manifold Fixtures / Outdoor units		2HP*	2.5HP**	3HP	4HP	5HP	6HP	8HP	10HP	12HP
Maximum length between outdoor unit and the farthest unit	Actual length (L)	50 m			75 m			100 m		
	Equivalent length	70 m			95 m			125 m		
Total length of piping	Twin (A+B+C)	50 m	60 m		85 m			100 m	115 m	
	Triple (A+B+C+D)	-			95 m			100 m	130 m	
	Quad (A+B+C+D+E+F+G)	-			95 m			100 m	145 m	
	Quad (A+B+C+D+E+F+G)	-			10 m			15 m		
Maximum length after manifold	Twin and Triple (B, C, D)	-			10 m			15 m		
	Quad (B+D, B+E, C+F, C+G)	-			10 m			15 m		
Length of main area A	A > B, C, D, E, F, G									
Maximum drop OU / IU (H) (above / below OU)	30 / 20 m									
Maximum drop in height IU / IU	3 m			10 m						
Maximum drop: By-pass / IU - By-pass/By-pass	3 m									
Max imbalance: (B-C), (B-D), (C-D), (C+G)-(B+E), (C+G)-(B+D), (C+F)-(B+E), (C+F)-(B+D)	< 8 m									

\* The single split mounting is only permitted with RCix.xFSN3 or RCix.xFSN3Ei.

\*\* If RCix.xFSN3 or RCix.xFSN3Ei are used in the installation, the smallest permitted size is 1.5HP.

Please refer to pipe kit prices on page 271

# Outdoor Units

## UTOPIA IVX PREMIUM

		RAS 2HVNP1	RAS 2.5HVNP1	RAS 3HVNP1	RAS 4HVNP1E	RAS 4HNP1E	RAS 5HVNP1E	
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	400V / 3Ph / 50Hz	230V / 1Ph / 50Hz	
Min-Max Number Of Indoor Units		1-2	1-2	1-3	1-5	1-5	1-6	
Lowest Connectable Capacity	HP	0.8						
Connection Ratio (Min-Max)	%	90-110			50-120			
Nominal Cooling Capacity (min - max) <sup>(1)</sup>	kW	5.0 (2.2-5.6)	5.6 (2.2-6.3)	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) <sup>(2)</sup>	kW	5.6 (2.2-7.1)	6.3 (2.2-8.0)	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 <sup>(3)</sup>		6.49	6.05	7.42	7.88	7.88	-	
Energy Efficiency Class		A++	A+	A++	A++	A++	-	
Seasonal Efficiency SCOP <sup>(3)</sup> (Average Climate)		4.67	4.77	4.37	4.68	4.68	-	
Energy Efficiency Class		A++	A++	A+	A++	A++	-	
Nominal Load Efficiency EER / COP <sup>(4)</sup>		4.03 / 4.68	4.18 / 4.92	4.49 / 4.88	4.68 / 5.16	4.68 / 5.16	3.81 / 4.55	
Energy Class (Cool/Heat)		A / A	A / A	A / A	A / A	A / A	A / A	
Noise level cooling (sound pressure) (night mode) <sup>(5)</sup>	dB(A)	44 (42)	45 (43)	46 (42)	47 (43)	47 (43)	48 (44)	
Noise level heating (sound pressure) <sup>(5)</sup>	dB(A)	46	47	48	49	49	50	
Noise level (sound power) <sup>(6)</sup>	dB(A)	62	63	63	63	63	64	
Air flow (Cooling / Heating)	m <sup>3</sup> /h	2436	2436	2700	4800	4800	5400	
Dimensions (H x W x D)	mm	600 x 792 x 300	600 x 792 x 300	800 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	
Weight	kg	43	43	66	103	103	103	
Piping diameter (Liquid / Gas)	Inch	1/4 / 1/2	1/4 / 1/2	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8	
	mm	6.35 / 12.7	6.35 / 12.7	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	
Minimum Piping Length	m	5	5	5	5	5	5	
Maximum Piping Length / Height Difference	m	50 / 30	50 / 30	50 / 30	75 / 30	75 / 30	75 / 30	
Current Quantity of Refrigerant	kg	1.6	1.6	2.3	4.1	4.1	4.2	
Chargeless / Additional Refrigerant Charge	m/g/m	30 / 30	30 / 30	30 / 40	30 / 60	30 / 60	30 / 60	
Recommended fuse size	A	16	20	20	32	16	32	
Starting current	A	<10	<10	<10	<10	<10	<10	
Running current (cooling / heating)	A	5.1/4.9	5.4/5.7	6.4/6.7	8.7/8.9	3.2/3.2	13.7/12.8	
Interconnecting Cables	No.	LNE + 2 core screened						
Working Range (cooling / heating)	°C	-5°C~46(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	Scroll	Rotary	Scroll	Scroll	Scroll	

		RAS 5HNP1E	RAS 6HVNP1E	RAS 6HNP1E	RAS 8HNPE	RAS 10HNPE	RAS 12HNP
Power supply		400V / 3Ph / 50Hz	230V / 1Ph / 50Hz	400V / 3Ph / 50Hz	400V / 3Ph / 50Hz	400V / 3Ph / 50Hz	400V / 3Ph / 50Hz
Min-Max Number Of Indoor Units		1-6	1-6	1-6	1-8	1-8	1-8
Lowest Connectable Capacity	HP	0.8					
Connection Ratio (Min-Max)	%	50-120					
Nominal Cooling Capacity (min - max) <sup>(1)</sup>	kW	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 (10.0 - 28.0)	30.0 (11.2 - 33.5)
Nominal Heating Capacity (min - max) <sup>(2)</sup>	kW	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 (8.0 - 35.0)	33.5 (9.0 - 37.5)
Seasonal Efficiency SEER <sup>(3)</sup>		-	-	-	-	-	-
Energy Efficiency Class		-	-	-	-	-	-
Seasonal Efficiency SCOP <sup>(3)</sup> (Average Climate)		-	-	-	-	-	-
Energy Efficiency Class		-	-	-	-	-	-
Nominal Load Efficiency EER / COP <sup>(4)</sup>		3.81 / 4.55	3.41 / 4.23	3.41 / 4.23	3.56 / 4.21	3.07 / 3.84	2.65 / 3.64
Energy Class (Cool/Heat)		A / A	A / A	A / A	A / A	B / A	D / A
Noise level cooling (sound pressure) (night mode) <sup>(5)</sup>	dB(A)	48 (44)	48 (45)	48 (45)	57 (55)	58 (56)	59 (57)
Noise level heating (sound pressure) <sup>(5)</sup>	dB(A)	50	50	50	59	60	61
Noise level (sound power) <sup>(6)</sup>	dB(A)	64	65	65	76	76	77
Air flow (Cooling / Heating)	m <sup>3</sup> /h	5400	6000	6000	7620	8040	9780
Dimensions (H x W x D)	mm	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1650 x 1100 x 370
Weight	kg	103	103	103	136	138	168
Piping diameter (Liquid / Gas)	Inch	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8	3/8 / 11/8	1/2 / 11/8	1/2 / 11/8
	mm	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 28.61	12.07 / 28.61	12.07 / 28.61
Minimum Piping Length	m	5	5	5	5	5	5
Maximum Piping Length / Height Difference	m	75 / 30	75 / 30	75 / 30	100 / 30	100 / 30	100 / 30
Current Quantity of Refrigerant	kg	4.2	4.2	4.2	5.7	6.2	6.7
Chargeless / Additional Refrigerant Charge	m/g/m	30 / 60	30 / 60	30 / 60	30 / Calculate	30 / Calculate	30 / Calculate
Recommended fuse size	A	16	32	16	32	32	32
Starting current	A	<10	<10	<10	<10	<10	<10
Running current (cooling / heating)	A	5.0/4.7	17.3/15.9	6.3/5.8	8.6/8.1	12.6/11.3	17.5/14.2
Interconnecting Cables	No.	LNE + 2 core screened					
Working Range (cooling / heating)	°C	-5°C~46(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	Scroll	Scroll	Scroll	Scroll	Scroll

\* Restrictions apply, see Technical Catalogue

(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 IVX PREMIUM



RPK 2.0 - 4.0FSN(H)3M



PC ARF



PC ART



RAS 2-2.5HVNP1



RAS 3HVNP1E



RAS 4H(V)NP1E

## Indoor units

- ✓ Nominal cooling capacities 5.0kW to 10.0kW
- ✓ Nominal heating capacities 5.6kW to 11.2kW
- ✓ Low consumption motor
- ✓ 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

- ✓ New DC inverter compressor for improved low-speed and part-load seasonal performance
- ✓ SCOP of up to 4.14 A+ rating and SEER of up to 6.81 A++ rating
- ✓ Adjust temperature settings according to occupancy and external environmental conditions to save on energy.



RPK 2.0 - 4.0FSN(H)3M

# UTOPIA IVX PREMIUM

## Wall Mounted

### INDOOR UNITS

		RPK 2.0FSN3M	RPK 2.5FSN3M	RPK 3.0FSN3M	RPK 4.0FSN3M
Nominal Cooling Capacity (min - max) <sup>(1)</sup>	kW	5.00 (2.20 - 5.60)	5.60 (2.20 - 6.30)	7.1 (3.2 - 8.0)	10 (4.5 - 11.2)
Nominal Heating Capacity (min - max) <sup>(2)</sup>	kW	5.60 (2.20 - 7.10)	6.30 (2.20 - 8.00)	8.0 (3.5 - 10.6)	11.2 (5.0 - 14.0)
UK Cooling Capacity (sensible) <sup>(3)</sup>	kW	5.3 (3.7)	5.9 (4.2)	7.7 (5.7)	10.6 (7.3)
Seasonal Efficiency SEER <sup>(4)</sup>		5.47	5.25	6.40	6.81
Energy Efficiency Class		A	A	A++	A++
Seasonal Efficiency SCOP <sup>(4)</sup> (Average Climate)		4.01	4.14	3.91	3.81
Energy Efficiency Class		A+	A+	A	A
Nominal Load Efficiency EER / COP <sup>(5)</sup>		2.92 / 3.21	2.97 / 3.16	3.32 / 3.37	3.64 / 3.44
Energy Class (Cool/Heat)		C / C	C / D	A / C	A / B
Noise Level (sound pressure) (L / M / H / H1*) <sup>(6)</sup>	dB(A)	33/38/40/42	36/40/43/49	36/40/43/49	41/46/49/51
Noise level (sound power)	dB(A)	57	59	59	64
Air flow cooling mode (L / M / H / H1*)	m <sup>3</sup> /h	600/780/840/900	720/840/1020/1140	720/840/1020/1140	900/1020/1140/1320
Dimensions (H x W x D)	mm	333x1150x245	333x1150x245	333x1150x245	333x1150x245
Weight	kg	17	18	18	18
Included Condensate Pump		No	No	No	No
Drain Diameter (ext)		φ20mm	φ20mm	φ20mm	φ20mm
Piping Diameter (Liquid / Gas)	Inch mm	1/4 / 5/8 6.35 / 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	40	40	40	40
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
Recommended fuse size	A	5	5	5	5
Remote Controller		Wired PC ARF (simplified, PC ART and infra-red models are optional)			

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

### OUTDOOR UNITS

		RAS 2HVNP1	RAS 2.5HVNP1	RAS 3HVNP1	RAS 4H(V)NP1E
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	(230V / 1Ph / 50Hz) 400V / 3Ph / 50Hz
Noise level cooling (sound pressure) (night mode) <sup>(7)</sup>	dB(A)	44 (42)	45 (43)	46 (42)	47 (43)
Noise level heating (sound pressure) <sup>(7)</sup>	dB(A)	46	47	48	49
Noise level (sound power) <sup>(8)</sup>	dB(A)	62	63	63	63
Air flow (Cooling / Heating)	m <sup>3</sup> /h	2436	2436	2700	4800
Dimensions (H x W x D)	mm	600 x 792 x 300	600 x 792 x 300	800 x 950 x 370	1380 x 950 x 370
Weight	kg	41	41	66	103
Piping diameter (Liquid / Gas)	Inch mm	1/4 / 1/2 6.35 / 12.7	1/4 / 1/2 6.35 / 12.7	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	75 / 30
Current Quantity of Refrigerant	kg	1.6	1.6	2.3	4.1
Chargeless / Additional Refrigerant Charge	m / g/m	30 / 30	30 / 30	30 / 40	30 / 60
Recommended fuse size - 1Ph/3Ph	A	16/-	20/-	20/-	32/16
Starting current (1Ph/3Ph)	A	<10	<10	<10	<10
Running current (cooling / heating) 1Ph (3Ph)	A	5.1/4.9	5.4/5.7	6.4/6.7	3.2/3.2 (8.7/8.9)
Interconnecting Cables	No.	LNE + 2 core screened			
Working Range (cooling / heating)	°C	-5°C~-46(db)°C/ -20(wb)°C~15(wb)°C			
Refrigerant / GWP		R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975
Compressor type		Scroll	Scroll	Rotary	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 IVX PREMIUM



RPI 2-6FSN4E



RPI 8-10FSN3E



PC ARF



PC ART



RAS 2-2.5HVP1



RAS 3HVP1E



RAS 4-10H(V)NP1E

### Indoor units

- ✓ Nominal cooling capacities 5.0kW to 25.0kW
- ✓ Nominal heating capacities 5.6kW to 28.0kW
- ✓ Possible to supply fresh air: Econofresh see pages 208-209
- ✓ Low consumption motor
- ✓ 4 speed, 3 static pressure levels, including zero pressure setting
- ✓ Easily accessible filters.

### 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)
- ✓ Fully ErP compliant with A++ seasonal efficiency
- ✓ Available in single phase and three phase.



RPI 2-6FSN4E

# UTOPIA IVX PREMIUM

## Ducted in the Ceiling

### INDOOR UNITS

		RPI 2.0FSN4E	RPI 2.5FSN4E	RPI 3.0FSN4E	RPI 4.0FSN4E	RPI 5.0FSN4E	RPI 6.0FSN4E	RPI 8.0FSN3E	RPI 10.0FSN3E	
Nominal Cooling Capacity (min - max) <sup>(1)</sup>	kW	5.0 (2.2 - 5.6)	5.6 (2.2 - 6.3)	7.1 (3.2 - 8.0)	10 (4.5 - 11.2)	12.5 (5.7 - 14.0)	14.0 (6.0 - 16.0)	20.0 (8.0 - 22.4)	25.0 (10.0 - 28.0)	
Nominal Heating Capacity (min - max) <sup>(2)</sup>	kW	5.6 (2.2 - 7.1)	6.3 (2.2 - 8.0)	8.0 (3.5 - 10.6)	11.2 (5.0 - 14.0)	14.0 (5.0 - 16.0)	16.0 (5.0 - 18.0)	22.4 (6.3 - 28.0)	28.0 (8.0 - 35.0)	
UK Cooling Capacity (sensible) <sup>(3)</sup>	kW	5.3 (4.7)	5.9 (5.1)	7.7 (6.2)	10.6 (8.2)	13.2 (9.5)	15.7 (10.8)	21.1 (16.2)	26.1 (18.8)	
Seasonal Efficiency SEER <sup>(4)</sup>		5.83	5.51	6.05	6.45	-	-	-	-	
Energy Efficiency Class		A+	A+	A++	A++	-	-	-	-	
Seasonal Efficiency SCOP <sup>(4)</sup> (Average Climate)		4.01	4.33	4.00	4.23	-	-	-	-	
Energy Efficiency Class		A+	A+	A++	A+	-	-	-	-	
Nominal Load Efficiency EER / COP <sup>(5)</sup>		3.54 / 3.73	3.49 / 3.81	3.5 / 3.95	3.92 / 4.23	3.42/3.92	3.07 / 3.64	3.05 / 3.25	2.93 / 3.22	
Energy Class (Cool/Heat)		A / A	A / A	A / A	A / A	A / A	B / A	B / C	C / C	
Noise Level (sound pressure) (L / M / H) <sup>(6)</sup> (SP-00)	dB(A)	27/29/29	28/30/30	29/31/31	32/35/37	33/35/38	33/36/39	51/54/54	25/55/55	
Noise level (sound power) <sup>(6)</sup> (SP-00)	dB(A)	55	56	57	62	65	66	77	78	
Air flow cooling mode (L / M / H)	m <sup>3</sup> /h	600/750 /960	780/960/1140	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 (0~120)	30 (0~125)	30 (0 - 125)	45 (0 - 120)	50 (0 - 140)	50 (0 - 140)	140 - 220	140 - 220	
Dimensions (H x W x D)	mm	275 x 1084 x 600	275x1084x600	275 x 1084 x 600	275 x 1474 x 600	275 x 1474 x 600	275 x 1474 x 600	423 x 1592 x 600	423 x 1592 x 600	
Weight	kg	35	36	36	48	48	85	87	87	
Included Condensate Pump		yes							no	
Condensate Pump Lift		850 mm from the bottom edge of the unit							-	-
Drain Diameter (ext)		φ32mm	φ32mm	φ32mm	φ32mm	φ32mm	φ32mm	φ25mm	φ25mm	
Piping Diameter (Liquid / Gas)	Inch mm	1/4 / 5/8 6.35 / 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 / 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	60	150		250			1065		
Power supply		230V / 1Ph / 50Hz								
Recommended fuse size	A	5							10	
Remote Controller		PC ART (PC-ARF, infra-red and simplified model optional)								

### OUTDOOR UNITS

		RAS 2HVN1P1	RAS 2.5HVN1P1	RAS 3HVN1P1	RAS 4H(V)NP1E	RAS 5H(V)NP1E	RAS 6H(V)NP1E	RAS 8HNPE	RAS 10HNPE
Power supply		230V / 1Ph / 50Hz				(230V / 1Ph / 50Hz) 400V / 3Ph / 50Hz	230V / 1Ph / 50Hz	400V / 3Ph / 50Hz	
Noise level cooling (sound pressure) (night mode) <sup>(7)</sup>	dB(A)	44 (42)	45 (43)	46 (42)	47 (43)	48 (44)	48 (45)	57 (55)	58 (56)
Noise level heating (sound pressure) <sup>(7)</sup>	dB(A)	46	47	48	49	50	50	59	60
Noise level (sound power) <sup>(8)</sup>	dB(A)	62	63	63	63	64	65	76	76
Air flow (Cooling / Heating)	m <sup>3</sup> /h	2436	2436	2700	4800	5400	6000	7620	8040
Dimensions (H x W x D)	mm	600 x 792 x 300	600 x 792 x 300	800 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370
Weight	kg	43	43	66	103	103	103	136	138
Piping diameter (Liquid / Gas)	Inch mm	1/4 / 1/2 6.35 / 12.7	1/4 / 1/2 6.35 / 12.7	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	5	5
Maximum Piping Length / Height Difference	m	50 / 30	50 / 30	50 / 30	75 / 30	75 / 30	75 / 30	100 / 30	100 / 30
Current Quantity of Refrigerant	kg	1.6	1.6	2.3	4.1	4.2	4.2	5.7	6.2
Chargeless / Additional Refrigerant Charge	m / g/m	30 / 30	30 / 30	30 / 40	30 / 60	30 / 60	30 / 60	30 / Calculate	30 / Calculate
Recommended fuse size - 1Ph/3Ph	A	16/-	20/-	20/-	32/16	32/16	32/16	-/32	-/32
Starting current (1Ph/3Ph)	A	<10	<10	<10	<10	<10	<10	<10	<10
Running current (cooling / heating) 1Ph (3Ph)	A	5.1/4.9 (-/-)	5.4/5.7 (-/-)	6.4/6.7 (-/-)	8.7/8.9 (3.2/3.2)	13.7/12.8 (5.0/4.7)	17.3/15.9 (6.3/5.8)	8.6/8.1	12.6/11.3
Interconnecting Cables	No.	LINE + 2 core screened							
Working Range (cooling / heating)	°C	-5°C~-46(db)°C / -20(wb)°C~-15(wb)°C							
Refrigerant / GWP		R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975
Compressor type		Scroll	Scroll	Rotary	Scroll	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 IVX PREMIUM



SCOP  
A+

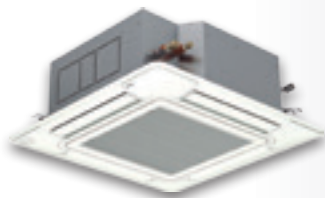
SEER  
A++

R-410A  
EcoClima

R-410A  
EcoClima  
R-407CJ R-22

DC  
INVERTER

SYSTEM  
FREE



RCI 2-6FSN3EK



PC ARF



PC ART



RAS 2-2.5HVNP1



RAS 3HVNP1E

RAS 4-6H(V)NP1E

### Indoor units

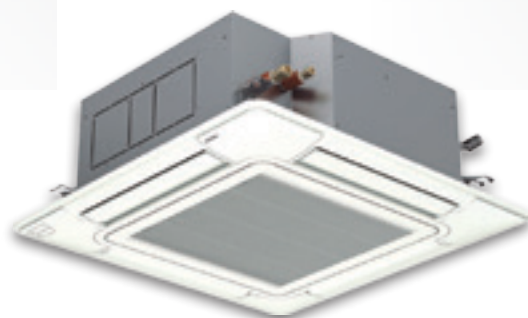
- Nominal cooling capacities 5.0kW to 14.0kW
- Nominal heating capacities 5.6kW to 16.0kW
- Standard 900mm x 900mm design
- Super High Stream turbo fan with curved blades for 20% increased efficiency with noise levels as low as 28dB(A)
- High ceiling adaptability
- Built-in condensate drain pump
- Access to components from below.

### 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.

### Outdoor units

- New DC inverter compressor for improved low-speed and part-load seasonal performance
- SCOP of up to 4.25 A+ rating and SEER of up to 7.16 A++ rating
- All IVX Premium models are ErP compliant, exceeding the 2014 ErP Lot 10 standards.



RCI 2-6FSN3EK

# UTOPIA IVX PREMIUM

## 4-Way Cassette

### INDOOR UNITS

		RCI 2.0FSN3Ek	RCI 2.5FSN3Ek	RCI 3.0FSN3Ek	RCI 4.0FSN3Ek	RCI 5.0FSN3Ek	RCI 6.0FSN3Ek
Nominal Cooling Capacity (min - max) <sup>(1)</sup>	kW	5.0 (2.2 - 5.6)	5.60 (2.20 - 6.30)	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) <sup>(2)</sup>	kW	5.60 (2.20 - 7.10)	6.30 (2.20 - 8.00)	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) <sup>(3)</sup>	kW	5.3 (4.1)	5.9 (4.3)	7.7 (6.1)	10.6 (8.3)	13.2 (9.8)	15.6 (11.4)
Seasonal Efficiency SEER <sup>(4)</sup>		5.82	5.64	6.63	7.16	-	-
Energy Efficiency Class		A+	A+	A++	A++	-	-
Seasonal Efficiency SCOP <sup>(4)</sup> (Average Climate)		4.01	4.36	4.00	4.25	-	-
Energy Efficiency Class		A+	A+	A+	A+	-	-
Nominal Load Efficiency EER / COP <sup>(5)</sup>		3.60 / 4.06	3.46 / 4.00	3.97 / 4.40	4.02 / 4.5	3.47 / 3.90	3.16 / 3.7
Energy Class (Cool/Heat)		A / A	A / A	A / A	A / A	A / A	A / A
Noise Level (sound pressure) (L / M / H) <sup>(6)</sup>	dB(A)	28/30/32	28/30/32	30/32/34	33/35/38	35/37/35	36/40/42
Noise level (sound power) <sup>(8)</sup>	dB(A)	54	54	56	60	61	64
Air flow cooling mode (L / M / H)	m <sup>3</sup> /h	720 / 840 / 960	900 / 1020 / 1200	1200/1380/1560	1440/1680/1920	1500/1740/2040	1620/1920/2220
Dimensions (H x W x D)	mm	248 x 840 x 840	248 x 840 x 840	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840
Weight	kg	24	24	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	37 x 950 x 950	37 x 950 x 950
Fascia Panel Weight	kg	6	6	6	6	6	6
Included Condensate Pump		yes	yes	yes	yes	yes	yes
Condensate Pump Lift		850 mm from the bottom edge of the unit					
Drain Diameter (ext)		φ32mm	φ32mm	φ32mm	φ32mm	φ32mm	φ32mm
Piping Diameter (Liquid / Gas)	Inch mm	1/4 / 5/8 6.35 / 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 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88
Power Input	w	56	56	56	108	108	108
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	5	5
Remote Controller		PC ART (PC-ARF; infra-red and simplified model optional)					

### OUTDOOR UNITS

		RAS 2HVNP1	RAS 2.5HVNP1	RAS 3HVNP1	RAS 4H(V)NP1E	RAS 5H(V)NP1E	RAS 6H(V)NP1E
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	(230V / 1Ph / 50Hz) - 400V / 3Ph / 50Hz		
Noise level cooling (sound pressure) (night mode) <sup>(7)</sup>	dB(A)	44 (42)	45 (43)	46 (42)	47 (43)	48 (44)	48 (45)
Noise level heating (sound pressure) <sup>(7)</sup>	dB(A)	46	47	48	49	50	50
Noise level (sound power) <sup>(8)</sup>	dB(A)	62	63	63	63	64	65
Air flow (Cooling / Heating)	m <sup>3</sup> /h	2436	2436	2700	4800	5400	6000
Dimensions (H x W x D)	mm	600 x 792 x 300	600 x 792 x 300	800 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370
Weight	kg	43	43	66	103	103	103
Piping diameter (Liquid / Gas)	Inch mm	1/4 / 1/2 6.35 / 12.7	1/4 / 1/2 6.35 / 12.7	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	5	5
Maximum Piping Length / Height Difference	m	50 / 30	50 / 30	50 / 30	75 / 30	75 / 30	75 / 30
Current Quantity of Refrigerant	kg	1.6	1.6	2.3	4.1	4.2	4.2
Chargeless / Additional Refrigerant Charge	m / g/m	30 / 30	30 / 30	30 / 40	30 / 60	30 / 60	30 / 60
Recommended fuse size - 1Ph/3Ph	A	16/-	20/-	20/-	32/16	32/16	32/16
Starting current - 1Ph/3Ph	A	<10	<10	<10	<10	<10	<10
Running current (cooling / heating) 1Ph (3Ph)	A	5.1/4.9 (-/-)	5.4/5.7 (-/-)	6.4/6.7 (-/-)	8.7/8.9 (3.2/3.2)	13.7/12.8 (5.0/4.7)	17.3/15.9 (6.3/5.8)
Interconnecting Cables	No.	LNE + 2 core screened					
Working Range (cooling / heating)	°C	-5°C - 46(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	Scroll	Rotary	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

## HIGH EFFICIENCY UTOPIA IVX PREMIUM

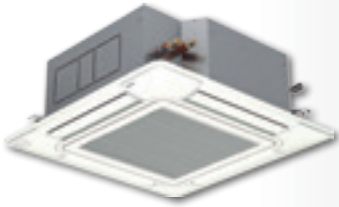


SCOP  
A++

SEER  
A++



SYSTEM  
FREE



RCI 3-6FSN3



'SILKY FLOW' LOUVRES

### Indoor units

- ✓ Nominal cooling capacities 5.0kW to 14.0kW
- ✓ Nominal heating capacities 5.6kW to 16.0kW
- ✓ Standard 900mm x 900mm design
- ✓ New heat exchanger and Super High Stream turbo fan with curved blades for 20% increased efficiency with noise levels as low as 28dB(A)
- ✓ Optional motion sensor adjusts heating and cooling levels as room occupancy changes allowing high energy savings
- ✓ Built-in condensate drain pump with ionic silver antibacterial pads to prevent mould and bacteria
- ✓ Suitable for installation in areas with high ceilings – ideal for retail and shopping centres.



PC ARF



MOTION SENSOR

### Remote Controller

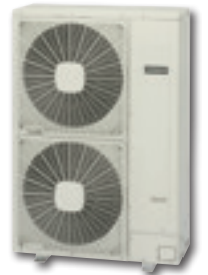
- ✓ Advanced PC-ARF wired LED controller (inc. 7-day time clock)
  - Louvre control
  - 5 time ranges with different temperatures (reduced, weekly, holiday etc)
  - Service menu and optional function menus, *add your contact details to be shown when there is an error*
- ✓ Alternative option: PC LH3B infra-red remote control - see pages 262-263.



RAS 2-2.5HVNP1



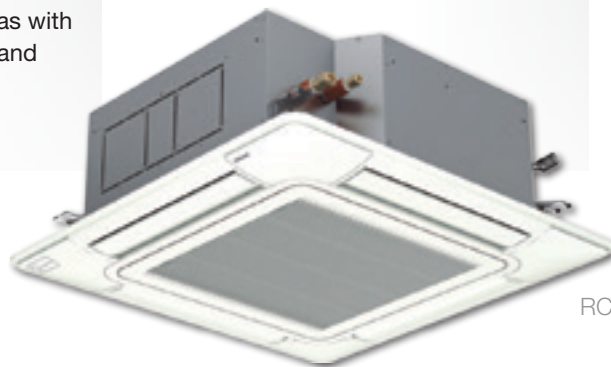
RAS 3HVNP1E



RAS 4-6H(V)NP1E

### Outdoor units

- ✓ New DC inverter compressor for improved low-speed and part-load seasonal performance
- ✓ SCOP of up to 4.77 A++ rating and SEER of up to 7.88 A++ rating
- ✓ Adjust temperature settings according to occupancy and external environmental conditions to save on energy
- ✓ All IVX Premium models are ErP compliant, exceeding the 2014 ErP Lot 10 standards.



RCI 2-6FSN3

# UTOPIA IVX PREMIUM

## High Efficiency 4-Way Cassette

### INDOOR UNITS

		RCI 2.0FSN3	RCI 2.5FSN3	RCI 3.0FSN3	RCI 4.0FSN3	RCI 5.0FSN3	RCI 6.0FSN3
Nominal Cooling Capacity (min - max) <sup>(1)</sup>	kW	5.00 (2.20 - 5.60)	5.60 (2.20 - 6.30)	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) <sup>(2)</sup>	kW	5.60 (2.20 - 7.10)	6.30 (2.20 - 8.00)	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) <sup>(3)</sup>	kW	5.3 (4.7)	5.9 (5.1)	7.7 (6.2)	10.6 (8.2)	13.2 (9.5)	15.7 (10.8)
Seasonal Efficiency SEER <sup>(4)</sup>		6.49	6.05	7.42	7.88	-	-
Energy Efficiency Class		A++	A+	A++	A++	-	-
Seasonal Efficiency SCOP <sup>(4)</sup> (Average Climate)		4.67	4.77	4.37	4.68	-	-
Energy Efficiency Class		A++	A++	A+	A++	-	-
Nominal Load Efficiency EER / COP <sup>(5)</sup>		4.03 / 4.68	4.18 / 4.92	4.49 / 4.88	4.68 / 5.16	3.81 / 4.55	3.41 / 4.23
Energy Class (Cool/Heat)		A / A	A / A	A / A	A / A	A / A	A / A
Noise Level (sound pressure) (L/M/H/H2) <sup>(6)</sup>	dB(A)	27/30/32/37	28/32/36/42	28/32/36/42	33/39/43/48	35/40/45/48	37/41/46/48
Noise level (sound power) <sup>(6)</sup>	dB(A)	55	56	57	64	64	65
Air flow cooling mode (L/M/H/H2)	m <sup>3</sup> /h	660/840/1020/1320	840/1080/1380/1620	840/1080/1380/1620	1200/1440/1860/2220	1260/1560/1980/2220	1320/1680/2100/2220
Dimensions (H x W x D)	mm	248 x 840 x 840	248 x 840 x 840	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840	298 x 840 x 840
Weight	kg	21	22	26	26	26	26
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	37 x 950 x 950	37 x 950 x 950
Fascia Panel Weight	kg	6.5	6.5	6.5	6.5	6.5	6.5
Included Condensate Pump		yes	yes	yes	yes	yes	yes
Condensate Pump Lift		850 mm from the bottom edge of the unit					
Drain Diameter (ext)		φ32mm	φ32mm	φ32mm	φ32mm	φ32mm	φ32mm
Piping Diameter (Liquid / Gas)	Inch mm	1/4 / 5/8 6.35 / 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 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88
Power Input	w	57	57	57	127	127	127
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	5	5
Remote Controller		PC-ARF (PC-ART, infra-red and simplified model optional)					

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

### OUTDOOR UNITS

		RAS 2HVNP1	RAS 2.5HVNP1	RAS 3HVNP1	RAS 4H(V)NP1E	RAS 5H(V)NP1E	RAS 6H(V)NP1E
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	(230V / 1Ph / 50Hz) - 400V / 3Ph / 50Hz		
Noise level cooling (sound pressure) (night mode) <sup>(7)</sup>	dB(A)	44 (42)	45 (43)	46 (42)	47 (43)	48 (44)	48 (45)
Noise level heating (sound pressure) <sup>(7)</sup>	dB(A)	46	47	48	49	50	50
Noise level (sound power) <sup>(8)</sup>	dB(A)	62	63	63	63	64	65
Air flow (Cooling / Heating)	m <sup>3</sup> /h	2436	2436	2700	4800	5400	6000
Dimensions (H x W x D)	mm	600 x 792 x 300	600 x 792 x 300	800 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370
Weight	kg	43	43	66	103	103	103
Piping diameter (Liquid / Gas)	Inch mm	1/4 / 1/2 6.35 / 12.7	1/4 / 1/2 6.35 / 12.7	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	5	5
Maximum Piping Length / Height Difference	m	50 / 30	50 / 30	50 / 30	75 / 30	75 / 30	75 / 30
Current Quantity of Refrigerant	kg	1.6	1.6	2.3	4.1	4.2	4.2
Chargeless / Additional Refrigerant Charge	m / g/m	30 / 30	30 / 30	30 / 40	30 / 60	30 / 60	30 / 60
Recommended fuse size - 1Ph/3Ph	A	16/-	20/-	20/-	32/16	32/16	32/16
Starting current - 1Ph/3Ph	A	<10	<10	<10	<10	<10	<10
Running current (cooling / heating) 1Ph (3Ph)	A	5.1/4.9 (-/-)	5.4/5.7 (-/-)	6.4/6.7 (-/-)	8.7/8.9 (3.2/3.2)	13.7/12.8 (5.0/4.7)	17.3/15.9 (6.3/5.8)
Interconnecting Cables	No.	LNE + 2 core screened					
Working Range (cooling / heating)	°C	-5°C~-46(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	Scroll	Rotary	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 1.5m 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 2-6FSN3E



PC ARF



PC ART



RAS 2-2.5HVNP1



RAS 3HVNP1E



RAS 4-6H(V)NP1E

### Indoor units

- ✓ Nominal cooling capacities 5.0kW to 14.0kW
- ✓ Nominal heating capacities 5.6kW 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 electronic louvre with automatic movement creates a powerful, quiet and evenly distributed airflow.

### 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

- ✓ New DC inverter compressor for improved low-speed and part-load seasonal performance
- ✓ SCOP of up to 3.81 A rating and SEER of up to 5.92 A+ rating
- ✓ Adjust temperature settings according to occupancy and external environmental conditions to save on energy
- ✓ All IXV Premium models are ErP compliant, exceeding the 2014 ErP Lot 10 standards.



RPC 2-6FSN3E

# UTOPIA IVX PREMIUM

## Ceiling Suspended

### INDOOR UNITS

		RPC 3.0FSN3E	RPC 4.0FSN3E	RPC 5.0FSN3E	RPC 6.0FSN3E
Nominal Cooling Capacity (min - max) <sup>(1)</sup>	kW	5.6 (2.2 - 6.3)	10.00 (4.50 - 11.20)	12.50 (5.70 - 14.00)	14.0 (6.0 - 16.0)
Nominal Heating Capacity (min - max) <sup>(2)</sup>	kW	6.3 (2.2 - 8.0)	11.20 (5.00 - 14.00)	14.00 (5.00 - 16.00)	16.0 (5.0 - 20.0)
UK Cooling Capacity (sensible) <sup>(3)</sup>	kW	7.7 (5.5)	10.6 (7.6)	13.2 (9.5)	15.7 (11.3)
Seasonal Efficiency SEER <sup>(4)</sup>		5.33	5.92	-	-
Energy Efficiency Class		A	A+	-	-
Seasonal Efficiency SCOP <sup>(4)</sup> (Average Climate)		3.80	3.81	-	-
Energy Efficiency Class		A	A	-	-
Nominal Load Efficiency EER / COP <sup>(5)</sup>		3.38 / 3.40	3.60 / 3.60	3.09 / 3.48	2.79 / 3.34
Energy Class (Cool/Heat)		A / B	A / A	B / B	D / C
Noise Level (sound pressure) (L / M / H) <sup>(6)</sup>	dB(A)	39/45/49	39/45/49	41/46/49	44/48/50
Noise level (sound power) <sup>(8)</sup>	dB(A)	65	65	65	66
Air flow cooling mode (L / M / H)	m <sup>3</sup> /h	960/1260/1620	1140/1440/1800	1260/1680/2100	1620/1920/2220
Dimensions (H x W x D)	mm	225x1314x625	225x1314x625	225x1574x625	225x1574x625
Weight	kg	35	35	41	41
Included Condensate Pump		No	No	No	No
Drain Diameter (ext)		ø25mm	ø25mm	ø25mm	ø20mm
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	145	145	145	40
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
Recommended fuse size	A	5	5	5	5
Remote Controller					

### OUTDOOR UNITS

		RAS 3H(V)NP1	RAS 4H(V)NP1E	RAS 5H(V)NP1E	RAS 6H(V)NP1E
Power supply		230V / 1Ph / 50Hz	(230V / 1Ph / 50Hz) - 400V / 3Ph / 50Hz		
Noise level cooling (sound pressure) (night mode) <sup>(7)</sup>	dB(A)	46 (42)	47 (43)	48 (44)	48 (45)
Noise level heating (sound pressure) <sup>(7)</sup>	dB(A)	48	49	50	50
Noise level (sound power) <sup>(8)</sup>	dB(A)	63	63	64	65
Air flow (Cooling / Heating)	m <sup>3</sup> /h	2700	4800	5400	6000
Dimensions (H x W x D)	mm	800 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370
Weight	kg	66	103	103	103
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	75 / 30	75 / 30	75 / 30
Current Quantity of Refrigerant	kg	2.3	4.1	4.2	4.2
Chargeless / Additional Refrigerant Charge	m / g/m	30 / 40	30 / 60	30 / 60	30 / 60
Recommended fuse size - 1Ph/3Ph	A	20/-	32/16	32/16	32/16
Starting current - 1Ph/3Ph	A	<10	<10	<10	<10
Running current (cooling / heating) 1Ph (3Ph)	A	6.4/6.7 (-/-)	8.7/8.9 (3.2/3.2)	13.7/12.8 (5.0/4.7)	17.3/15.9 (6.3/5.8)
Interconnecting Cables	No.				
Working Range (cooling / heating)	°C				
Refrigerant / GWP		R410a / 1975	R410a / 1975	R410a / 1975	R410a / 1975
Compressor type		Rotary	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 1.0m 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.

# Utopia Split Systems

## HI-EFFICIENCY CEILING SUSPENDED



SYSTEM  
FREE



RPC 2-6FSN3



PC ARF



PC ART



RAS 2-2.5HVNP1



RAS 3HVNP1E



RAS 4-6H(V)NP1E

### Indoor units

- ✓ Nominal cooling capacities 5.0kW to 14.0kW
- ✓ Nominal heating capacities 5.6kW 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 electronic louvre with automatic movement creates a powerful, quiet and evenly distributed airflow.

### 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

- ✓ New DC inverter compressor for improved low-speed and part-load seasonal performance
- ✓ SCOP of up to 4.49 A+ rating and SEER of up to 6.53 A++ rating
- ✓ Adjust temperature settings according to occupancy and external environmental conditions to save on energy
- ✓ All IXV Premium models are ErP compliant, exceeding the 2014 ErP Lot 10 standards.



RPC 2-6FSN3

# UTOPIA IVX PREMIUM

## Hi-Efficiency Ceiling Suspended

### INDOOR UNITS (HI EFFICIENCY)

		RPC 2.0FSN3	RPC 2.5FSN3	RPC 3.0FSN3	RPC 4.0FSN3	RPC 5.0FSN3	RPC 6.0FSN3
Nominal Cooling Capacity (min - max) <sup>(1)</sup>	kW	5.0 (2.2 - 5.6)	7.1 (3.2 - 8.0)	7.1 (3.2 - 8.0)	10.00 (4.50 - 11.20)	12.50 (5.70 - 14.00)	14.0 (6.0 - 16.0)
Nominal Heating Capacity (min - max) <sup>(2)</sup>	kW	5.6 (2.2 - 7.1)	8.0 (3.5 - 10.6)	8.0 (3.5 - 10.6)	11.20 (5.00 - 14.00)	14.00 (5.00 - 16.00)	16.0 (5.0 - 20.0)
UK Cooling Capacity (sensible) <sup>(3)</sup>	kW	5.3 (3.8)	5.9 (4.2)	7.7 (5.5)	10.6 (7.6)	13.2 (9.5)	15.7 (11.3)
Seasonal Efficiency SEER <sup>(4)</sup>		5.63	5.49	5.87	6.53	-	-
Energy Efficiency Class		A+	A	A+	A++	-	-
Seasonal Efficiency SCOP <sup>(4)</sup> (Average Climate)		4.44	4.49	4.00	4.23	-	-
Energy Efficiency Class		A+	A+	A+	A+	-	-
Nominal Load Efficiency EER / COP <sup>(5)</sup>		3.72 / 4.06	4.0 / 4.12	3.68 / 4.15	4.48 / 4.44	3.38 / 4.09	3.11 / 3.86
Energy Class (Cool/Heat)		A / A	A / A	A / A	A / A	A / A	B / A
Noise Level (sound pressure) (L/M/H/H2) <sup>(6)</sup>	dB(A)	28/31/35/38	28/31/35/38	29/33/37/40	32/37/42/44	35/41/45/48	36/42/47/49
Noise level (sound power) <sup>(8)</sup>	dB(A)	54	54	56	60	64	65
Air flow cooling mode (L/M/H/H2)	m <sup>3</sup> /h	540/660/780/900	690/840/990/1140	750/930/1110/1260	1020/1320/1590/1800	1200/1530/1860/2100	1260/1620/1950/2220
Dimensions (H x W x D)	mm	235x960x690	235x960x690	235x960x690	235x1580x690	235x1580x690	235x1580x690
Weight	kg	27	35	35	41	41	41
Included Condensate Pump		Opt.	Opt.	Opt.	Opt.	Opt.	Opt.
Drain Diameter (ext)		ø25mm	ø25mm	ø25mm	ø25mm	ø25mm	ø20mm
Piping Diameter (Liquid / Gas)	Inch mm	1/4 / 5/8 6.35 / 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 / 5/8 9.53 / 15.88	3/8 / 5/8 9.53 / 15.88
Power Input	w	50	80	80	160	160	160
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	5	5
Motion Sensor Kit		SOR-NEP					
Remote Controller		PC ART (PC-ARF, simplified model or optional infra-red)					

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

### OUTDOOR UNITS

		RAS 2HVNP1	RAS 2.5HVNP1	RAS 3HVNP1	RAS 4H(V)NP1E	RAS 5H(V)NP1E	RAS 6H(V)NP1E
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	400V / 3Ph / 50Hz (230V / 1Ph / 50Hz)		
Noise level cooling (sound pressure) (night mode) <sup>(7)</sup>	dB(A)	44 (42)	45 (43)	46 (42)	47 (43)	48 (44)	48 (45)
Noise level heating (sound pressure) <sup>(7)</sup>	dB(A)	46	47	48	49	50	57
Noise level (sound power) <sup>(8)</sup>	dB(A)	62	63	63	63	64	65
Air flow (Cooling / Heating)	m <sup>3</sup> /h	2436	2436	2700	4800	5400	6000
Dimensions (H x W x D)	mm	600 x 792 x 300	600 x 792 x 300	800 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370	1380 x 950 x 370
Weight	kg	43	43	66	103	103	103
Piping diameter (Liquid / Gas)	Inch mm	1/4 / 1/2 6.35 / 12.7	1/4 / 1/2 6.35 / 12.7	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	5	5
Maximum Piping Length / Height Difference	m	50 / 30	50 / 30	50 / 30	75 / 30	75 / 30	75 / 30
Current Quantity of Refrigerant	kg	1.6	1.6	2.3	4.1	4.2	4.2
Chargeless / Additional Refrigerant Charge	m / g/m	30 / 30	30 / 30	30 / 40	30 / 60	30 / 60	30 / 60
Recommended fuse size - 1Ph/3Ph	A	16/-	20/-	20/-	32/16	32/16	32/16
Starting current - 1Ph/3Ph	A	<10	<10	<10	<10	<10	<10
Running current (cooling / heating) 1Ph (3Ph)	A	5.1/4.9 (-/-)	5.4/5.7 (-/-)	6.4/6.7 (-/-)	8.7/8.9 (3.2/3.2)	13.7/12.8 (5.0/4.7)	17.3/15.9 (6.3/5.8)
Interconnecting Cables	No.	LNE + 2 core screened					
Working Range (cooling / heating)	°C	-5°C~-46(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	Scroll	Rotary	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 1.0m 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.