

ROOM AIR CONDITIONERS

Comfort & discretion



Wall Mounted R32 SUMMIT



RAK 18-50PED

Indoor units

- ✓ Nominal cooling capacities 2.0kW to 5.0kW
- ✓ Nominal heating capacities 2.5kW to 6.0kW
- ✓ High seasonal efficiency achieving up to SEER A+ 5.8/SCOP A+ 3.8
- ✓ Volt Free control of the air conditioning system - can be used to turn the unit on/off remotely after receiving a signal such as key-card, door or window switch, specifically useful in hotel rooms to prevent unnecessary use. Accessory SPX WDC3 is required
- ✓ Guaranteed operation in heating mode down to -15°C
- ✓ Heating mode lock suitable for BREEAM assessed buildings where cooling mode might not be accepted or simply where cooling is not required
- ✓ Compact units (280 x 780 x 218) are common across the entire range and allow for easier integration.

* Standard
** Optional



INFRA-RED REMOTE CONTROL*
RAR-5F1



WIRED REMOTE CONTROL**
SPX-WKT3



WIRED REMOTE CONTROL**
SPX-RCDB

Remote controllers

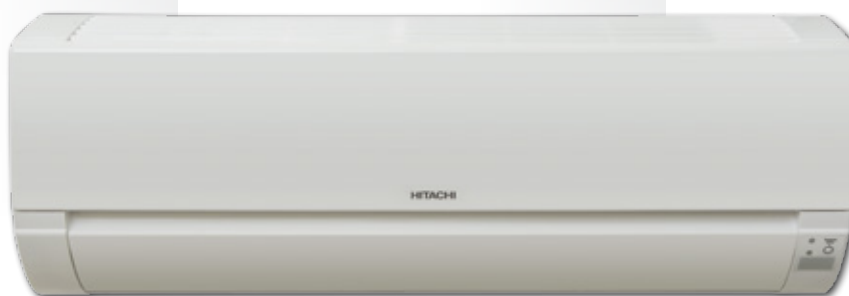
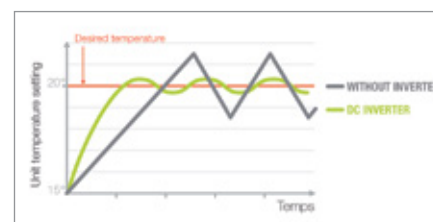
- ✓ User-friendly, easy to use infra-red remote control for optimal comfort
- ✓ Optional wired controllers available.



RAC WED

DC Inverter Outdoor unit

- ✓ As the pioneer of DC Inverter driven room air conditioners our units boast the significant advantage of all DC Inverter driven compressors and fans allowing precise control of capacity and temperature.



RAK 18-50PED

R32 SUMMIT

Wall Mounted



INDOOR UNITS

Indoor Unit Model		RAK-18PED	RAK-25PED	RAK-35PED	RAK-50PED
Nominal Cooling Capacity (min - max)	kW	2.00 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	5.00 (1.90 - 5.20)
Sensible Cooling Capacity	kW	1.99	2.28	2.87	3.47
UK Cooling Capacity (sensible)	kW	1.9 (1.7)	2.4 (2.0)	3.3 (2.5)	4.2 (3.1)
Heating capacity at -7°C	kW	1.75	2.50	3.00	4.00
Nominal Heating Capacity (min - max)	kW	2.50 (0.90 - 3.20)	3.40 (0.90 - 4.40)	4.20 (0.90 - 5.00)	6.00 (2.2 - 7.30)
Nominal cooling power input (min - max)	kW	0.58(0.25-1.01)	0.70 (0.25 - 1.29)	1.09 (0.25 - 1.46)	1.56 (0.50 - 2.10)
Nominal heating power input (min - max)	kW	0.62(0.25-0.97)	0.88 (0.25 - 1.25)	1.10 (0.25 - 1.70)	1.66(0.50 - 2.75)
Seasonal Efficiency SEER ⁽⁴⁾		5.80	5.80	5.85	5.88
Energy Efficiency Class	kWh/yr	A+	A+	A+	A+
Annual Energy Consumption		121	151	209	298
Seasonal Efficiency SCOP ⁽⁴⁾ (Average Climate)		3.80	3.80	3.80	3.80
Energy Efficiency Class	kWh/yr	A	A	A	A
Annual Energy Consumption		316	909	1.124	1.601
Nominal Load Efficiency EER / COP ⁽⁵⁾		3.45/4.03	3.57/3.86	3.21/3.82	3.21/3.61
Energy Class (Cool/Heat)		A/A	A/A	A/A	A/A
Noise level cooling (sound pressure) (SL / L / M / H) ⁽²⁾	dB(A)	21/24/33/37	22/24/33/40	25/26/36/43	28/30/40/46
Noise level heating (sound pressure) (SL / L / M / H) ⁽²⁾	dB(A)	19/22/33/38	20/23/34/41	26/27/36/44	25/30/39/47
Noise level (sound power) ⁽¹⁾	dB(A)	51	54	57	60
Air flow cooling mode (SL / L / M / H)	m³/h	312/350/400/440	333/370/430/510	333/400/485/600	333/450/600/700
Air flow heating mode (SL / L / M / H)	m³/h	312/350/420/480	333/400/500/570	333/520/550/660	433/510/650/770
Dehumidification	l/h	1.2	1.4	1.6	2.0
Dimensions (H x W x D)	mm	280x780x218	280x780x218	280x780x218	280x780x218
Weight	kg	7.5	7.5	7.5	8.0
Power supply		From Outdoor Unit			
Drain diameter (ext)		φ16mm	φ16mm	φ16mm	φ16mm
Remote Control	Std	Infra Red (RAR-5F1)	Infra Red (RAR-5F1)	Infra Red (RAR-5F1)	Infra Red (RAR-5F1)
	Opt. 1	Wired (SPX-RCDB)	Wired (SPX-RCDB)	Wired (SPX-RCDB)	Wired (SPX-RCDB)
	Opt. 2	Wired (SPX-WKT2)	Wired (SPX-WKT2)	Wired (SPX-WKT2)	Wired (SPX-WKT2)

OUTDOOR UNITS

Outdoor Unit Model		RAC-18SWED	RAC-25SWED	RAC-35SWED	RAC-50SWED
Noise level cooling (sound pressure) (night mode) ⁽³⁾	dB(A)	45	47	48	50
Noise level heating (sound pressure) (night mode) ⁽³⁾	dB(A)	46	48	49	50
Noise level (sound power) ⁽¹⁾	dB(A)	59	61	62	64
Air flow (Cooling / Heating)	m³/h	1860/1620	1860/1620	1860/1620	2160/2160
Dimensions (H x W x D)	mm	530x660x278	530x660x278	530x660x278	600x792x299
Weight	kg	24.5	24.5	27.5	40.0
Piping diameter (Liquid / Gas)	Inch	1/4 - 3/8	1/4 - 3/8	1/4 - 3/8	1/4" / 1/2"
	mm	6.35 - 9.52	6.35 - 9.52	6.35 - 9.52	6.35 - 12.70
Minimum Piping Length	m	3.0	3.0	3.0	3.0
Maximum Piping Length / Height Difference	m	20/10	20/10	20/10	20/10
Current Quantity of Refrigerant	kg	0.72	0.72	0.95	1.25
Chargeless / Additional Refrigerant Charge	m / g/m	20/ -	20/ -	20/ -	20/ -
Power supply		230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz	230V/1Ph/50Hz
Recommended fuse size	A	16	16	16	25
Starting current (cooling/heating)	A	<1 Amp	<1 Amp	<1 Amp	<1 Amp
Running current (cooling/heating)	A	1.09-4.39/1.09-4.22	1.09-5.61/1.09-5.43	1.09-6.35/1.09-7.39	2.17-9.13/2.17-11.96
Interconnecting Cables	No.	3 + E	3 + E	3 + E	3 + E
Working Range (cooling/heating)	°C	-10°C~+43°C / -15°C~+21°C	-10°C~+43°C / -15°C~+21°C	-10°C~+43°C / -15°C~+21°C	-10°C~+43°C / -15°C~+21°C
Refrigerant / GWP		R32 / 1975	R32 / 1975	R32 / 1975	R32 / 1975
Compressor type		Rotary	Rotary	Rotary	Rotary
System Price	(£)	480	504	595	791

(1) 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

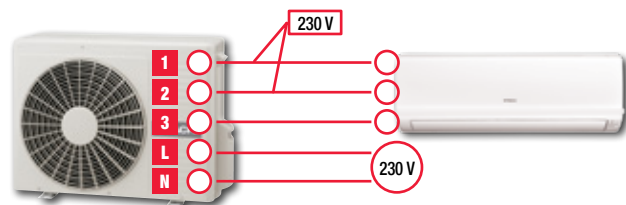
(2) Sound pressure level is measured at 0.8 meter beneath indoor unit 1m from discharge grille in anechoic chamber

(3) Sound pressure level is measured at 1.0m from front face of unit, 1.5m above the ground in anechoic chamber.

(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)

! The indoor units are now to be supplied with 220-230 V from the outside unit.



Wall Mounted

R32 PERFORMANCE



RAK RPD



INFRA-RED REMOTE CONTROL*



WIRED REMOTE CONTROL**
SPX-WKT3



WIRED REMOTE CONTROL**
SPX-RCDB



RAC 35-50WPC

Indoor units

- ✓ Sustainable R32 refrigerant
- ✓ High seasonal performance SEER A+++ 8.50 and SCOP A++ 4.90, fully ErP compliant
- ✓ **Human Sensor**
Adapts the operation of the unit according to the presence or not of people in the room
- ✓ Dry contact available
- ✓ Can be locked into heating only
- ✓ Slim, stylish monobloc chassis blends into any interior
- ✓ Auto-diagnosis function
- ✓ **Horizontal & Vertical Auto-swing**
4 Way Swing keeps the temperature of the room constant by combining vertical & horizontal airflow for added end user comfort
- ✓ Compact Unit: 780 mm wide across the range
- ✓ High heating capacity down to -7°C
- ✓ Range compatible with the SOMFY & Hi-Kumo Wi-Fi home automation solution.

Remote controllers

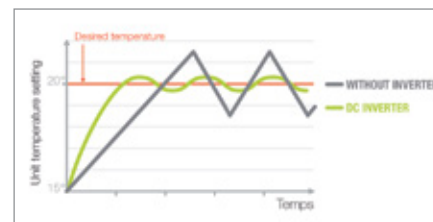
- ✓ Infra-red remote control
- ✓ Possibility of carrying two different weekly schedules (e.g. Summer/ Winter) with 6 On/Off's per day
- ✓ New functions:
 - Display ambient temperature
 - Display energy consumption
 - Reading of the fault codes

* Standard

** Optional

DC Inverter Outdoor unit

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RAK 18-25RPB



R32 PERFORMANCE

Wall Mounted



INDOOR UNITS

Indoor Unit Model		RAK-18RPD	RAK-25RPD	RAK-35RPD	RAK-42RPD	RAK-50RPD
Nominal Cooling Capacity (min - max)	kW	2.00 (0.90 - 2.50)	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	4.20 (1.70 - 5.00)	5.00 (1.90 - 5.20)
Sensible Cooling Capacity	kW	1.9	2.1	2.4	3.3	3.4
UK Cooling Capacity (sensible)	kW	1.9 (1.7)	2.4 (2.0)	3.3 (2.5)	4.0 (3.2)	4.6 (3.2)
Nominal Heating Capacity (min - max)	kW	2.50 (0.90 - 3.20)	3.40 (0.90 - 4.40)	4.20 (0.90 - 5.00)	5.40 (1.70 - 6.00)	6.00 (2.20 - 7.30)
Nominal cooling power input (min - max)	kW	0.42 (0.25 - 1.01)	0.55 (0.25 - 1.29)	0.94 (0.25 - 1.46)	1.12 (0.30 - 1.70)	1.56 (0.50 - 2.10)
Nominal heating power input (min - max)	kW	0.52 (0.25 - 0.97)	0.73 (0.25 - 1.50)	1.00 (0.25 - 1.70)	1.32 (0.50 - 2.10)	1.66 (0.50 - 2.75)
Seasonal Efficiency SEER ⁽⁴⁾		8.5	8.5	7.8	7.5	7.2
Energy Efficiency Class Annual Energy Consumption	kWh/yr	A+++	A+++	A++	A++	A++
		82	103	157	196	238
Seasonal Efficiency SCOP ⁽⁴⁾ (Average Climate) Annual Energy Consumption	kWh/yr	4.9	4.9	4.9	4.6	4.4
		A++	A++	A++	A++	A+
Nominal Load Efficiency EER / COP ⁽⁵⁾ Energy Class (Cool/Heat)		4.77 / 4.82	4.55 / 4.64	3.72 / 4.20	3.75 / 4.10	3.21 / 3.61
		A / A	A / A	A / A	A / A	A / A
Noise level cooling (sound pressure) (SL / L / M / H) ⁽²⁾	dB(A)	21 / 24 / 33 / 37	22 / 24 / 33 / 40	25 / 26 / 36 / 43	25 / 28 / 39 / 46	25 / 28 / 39 / 46
Noise level heating (sound pressure) (SL / L / M / H) ⁽²⁾	dB(A)	19 / 22 / 33 / 38	20 / 23 / 34 / 41	26 / 27 / 36 / 44	27 / 31 / 39 / 46	27 / 31 / 39 / 46
Noise level (sound power) ⁽¹⁾	dB(A)	51	54	57	60	60
Air flow cooling mode (SL / L / M / H)	m³/h	312 / 350 / 400 / 440	333 / 370 / 430 / 510	353 / 420 / 485 / 680	353 / 410 / 540 / 720	353 / 410 / 540 / 750
Air flow heating mode (SL / L / M / H)	m³/h	312 / 350 / 420 / 480	333 / 400 / 500 / 570	363 / 480 / 570 / 780	380 / 500 / 610 / 800	380 / 500 / 610 / 820
Dehumidification	l/h	1.2	1.4	1.6	1.8	2.0
Dimensions (H x W x D)	mm	280 x 780 x 230	280 x 780 x 230	280 x 780 x 230	280 x 780 x 230	280 x 780 x 230
Weight	kg	8.5	8.5	8.5	8.5	8.5
Power supply		230V / 1Ph / 50Hz				
Drain diameter (ext)		φ16mm	φ16mm	φ16mm	φ16mm	φ16mm
Remote Control	Std	Infra Red (RAR-6N1)	Infra Red (RAR-6N1)	Infra Red (RAR-6N1)	Infra Red (RAR-6N1)	Infra Red (RAR-6N1)
	Opt	SPX-WKT3 / SPX-RCDB	SPX-WKT3 / SPX-RCDB	SPX-WKT3 / SPX-RCDB	SPX-WKT3 / SPX-RCDB	SPX-WKT3 / SPX-RCDB

OUTDOOR UNITS

Outdoor Unit Model		RAC-18WPD	RAC-25WPD	RAC-35WPD	RAC-42WPD	RAC-50WPD
Noise level cooling (sound pressure) ⁽³⁾	dB(A)	44	46	48	49	49
Noise level heating (sound pressure) ⁽³⁾	dB(A)	45	47	49	50	50
Noise level (sound power) ⁽¹⁾	dB(A)	58	60	61	63	63
Air flow (Cooling / Heating)	m³/h	1860 / 1620	1860 / 1620	1920 / 1620	2160 / 2160	2160 / 2160
Dimensions (H x W x D)	mm	548x750 x288	548x750 x288	548x750x288	600x792x299	600x792x299
Weight	kg	32.5	32.5	32.5	39.0	39.0
Piping diameter (Liquid / Gas)	Inch	1/4 - 3/8	1/4 - 3/8	1/4 - 3/8	1/4" / 1/2"	1/4" / 1/2"
	mm	6.35 - 9.52	6.35 - 9.52	6.35 - 9.52	6.35 - 12.7	6.35 - 12.7
Minimum Piping Length	m	3.0	3.0	3.0	3.0	3.0
Maximum Piping Length / Height Difference	m	20 / 10	20 / 10	20 / 10	20 / 10	20 / 10
Current Quantity of Refrigerant	kg	0.87	0.87	0.87	1.05	1.05
Chargeless / Additional Refrigerant Charge	m / g/m	20 / -	20 / -	20 / -	20 / -	20 / -
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
Recommended fuse size	A	15	15	15	25	25
Starting current	A	2.9	3.9	5.1	6.0	7.1
Running current (cooling/heating)	A	1.09-4.39 / 1.09-4.22	1.09-5.61 / 1.09-6.52	1.09-6.35 / 1.09-7.39	1.30-7.39 / 2.17-8.70	1.30-8.70 / 2.17-11.96
Interconnecting Cables	No.	1.50x 3+EARTH	1.50x 3+EARTH	1.50x 3+EARTH	1.50x 3+EARTH	1.50x 3+EARTH
Working Range (cooling/heating)	°C	-10°C ~ +43°C / -15°C ~ +21°C				
Refrigerant / GWP		R32 / 675	R32 / 675	R32 / 675	R32 / 675	R32 / 675
Compressor type		Rotary	Rotary	Rotary	Rotary	Twin Rotary
System Price	(£)	616	653	767	1,022	1,445

(1) 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

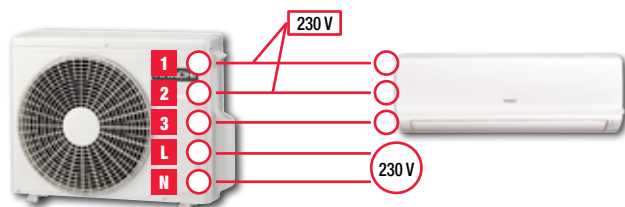
(2) Sound pressure level is measured at 0.8 meter beneath indoor unit 1m from discharge grille in anechoic chamber

(3) Sound pressure level is measured at 1.0m from front face of unit, 1.5m above the ground in anechoic chamber

(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)

! The indoor units are now to be supplied with 220-230 V from the outside unit.



Wall Mounted R32 SHIROKUMA



RAK 25-50RXD

Indoor units

- ✓ Sustainable R32 refrigerant
- ✓ High seasonal performance SEER A+++ 8.70 and SCOP A+++ 5.20, fully ErP compliant
- ✓ **Stainless Clean**
The components of the inner unit (including filter) are made of stainless steel for greater purity of the air
- ✓ **Human Sensor**
Adapts the operation of the unit according to the presence or not of people in the room
- ✓ Dry contact available
- ✓ Auto-diagnosis function
- ✓ Operating status available
- ✓ Can be locked into heating only
- ✓ **Horizontal & Vertical Auto-swing**
4 Way Swing keeps the temperature of the room constant by combining vertical & horizontal airflow for added end user comfort
- ✓ Constant power maintaining heating capacity down to -15°C
- ✓ Range compatible with the SOMFY & Hi-Kumo Wi-Fi home automation solution.



INFRA-RED REMOTE CONTROL*
RAR-6N1



WIRED REMOTE CONTROL**
SPX-WKT3



WIRED REMOTE CONTROL**
SPX-RCDB

Remote controllers

- ✓ 24-hour, 7-day Infra-red remote controller
- ✓ Eco operation energy saving function
- ✓ Leave home function - set temperature at 10°C automatically when no one is at home for up to 99 days
- ✓ Weekly timer - 6 patterns
- ✓ Can be locked in heating only.

* Standard

** Optional



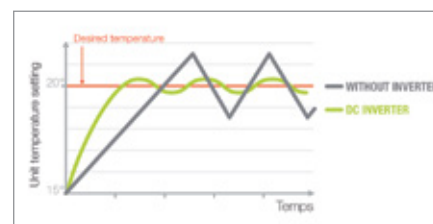
RAC 25-35WXD



RAC 50WXD

DC Inverter Outdoor unit

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RAK 25-50RXD



R32 SHIROKUMA

Wall Mounted



INDOOR UNITS

Indoor Unit Model		RAK-25RXD	RAK-35RXD	RAK-50RXD
Nominal Cooling Capacity (min - max)	kW	2.50 (0.90 - 3.10)	3.50 (0.90 - 4.00)	5.00 (1.90 - 5.20)
Sensible Cooling Capacity	kW	2.3	2.9	3.8
UK Cooling Capacity (sensible)	kW	2.4 (2.3)	2.9 (2.4)	4.1 (3.1)
Nominal Heating Capacity (min - max)	kW	3.20 (0.90- 4.20)	4.00 (0.90- 4.80)	5.80 (2.2- 7.00)
Nominal cooling power input (min - max)	kW	0.48 (0.25 - 1.00)	0.81 (0.25 - 1.40)	1.40 (0.50 - 2.10)
Nominal heating power input (min - max)	kW	0.59 (0.25 - 1.20)	0.80 (0.25 - 1.60)	1.42 (0.50 - 2.70)
Seasonal Efficiency SEER ⁽⁴⁾		8.5	8.7	7.5
Energy Efficiency Class	kWh/yr	A+++	A+++	A++
Annual Energy Consumption		103	141	233
Seasonal Efficiency SCOP ⁽⁴⁾ (Average Climate)		5.2	5.2	4.7
Energy Efficiency Class	kWh/yr	A+++	A+++	A++
Annual Energy Consumption		314	388	581
Nominal Load Efficiency EER / COP ⁽⁵⁾		5.20 / 5.40	4.30 / 5.00	3.58 / 4.10
Energy Class (Cool/Heat)		A / A	A / A	A / A
Noise level cooling (sound pressure) (SL / L / M / H) ⁽²⁾	dB(A)	20 / 27 / 35 / 43	22 / 29 / 35 / 42	25 / 31 / 39 / 47
Noise level heating (sound pressure) (SL / L / M / H) ⁽²⁾	dB(A)	20 / 28 / 36 / 43	22 / 30 / 35 / 42	25 / 31 / 39 / 48
Noise level (sound power) ⁽¹⁾	dB(A)	58	60	60
Air flow cooling mode (SL / L / M / H)	m³/h	300 / 330 / 510 / 600	320 / 340 / 430 / 580	350 / 400 / 580 / 720
Air flow heating mode (SL / L / M / H)	m³/h	290 / 370 / 560 / 680	310 / 360 / 480 / 630	350 / 420 / 620 / 800
Dehumidification	l/h	1.4	1.6	2.0
Dimensions (H x W x D)	mm	295 x 900 x 210	295 x 900 x 210	295 x 900 x 210
Weight	kg	11	11	11
Power supply		230V / 1Ph / 50Hz		
Drain diameter (ext)		φ16mm	φ16mm	φ16mm
Remote Control	Std	Infra-Red (RAR-6N1)	Infra-Red (RAR-6N1)	Infra-Red (RAR-6N1)
	Opt	SPX-WKT3 / SPX-RCDB	SPX-WKT3 / SPX-RCDB	SPX-WKT3 / SPX-RCDB

OUTDOOR UNITS

Outdoor Unit Model		RAC-25WxD	RAC-35WxD	RAC-50WxD
Noise level cooling (sound pressure) ⁽³⁾	dB(A)	47	48	51
Noise level heating (sound pressure) ⁽³⁾	dB(A)	48	50	51
Noise level (sound power) ⁽¹⁾	dB(A)	61	62	65
Air flow (Cooling / Heating)	m³/h	1860 / 1620	1920 / 1620	2160 / 2160
Dimensions (H x W x D)	mm	600x792x299	600x792x299	736x800x350
Weight	kg	37.5	37.5	51.0
Piping diameter (Liquid / Gas)	Inch	1/4 - 3/8	1/4 - 3/8	1/4 / 1/2
	mm	6.35 - 9.52	6.35 - 9.52	6.35 - 12.70
Minimum Piping Length	m	3.0	3.0	3.0
Maximum Piping Length / Height Difference	m	20 / 10	20 / 10	30 / 10
Current Quantity of Refrigerant	kg	0.98	0.98	1.30
Chargeless / Additional Refrigerant Charge	m / g/m	20 / -	20 / -	30 / -
Power supply		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	230V / 1Ph / 50Hz
Recommended fuse size	A	25	25	25
Starting current (cooling/heating)	A	2.92 / 2.73	3.86 / 3.67	6.36 / 6.44
Running current (cooling/heating)	A	1.09-4.35 / 1.09-5.22	1.09-6.09 / 1.09-6.96	2.17-9.13 / 2.17-11.74
Interconnecting Cables	No.	1.50x 3+EARTH	1.50x 3+EARTH	2.50x 3+EARTH
Working Range (cooling/heating)	°C	-10°C ~ +43°C / -20°C ~ +21°C		
Refrigerant / GWP		R32 / 675	R32 / 675	R32 / 675
Compressor type		Rotary	Rotary	Rotary
System Price	(£)	813	935	1,365

(1) 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

(2) Sound pressure level is measured at 0.8 meter beneath indoor unit 1m from discharge grille in anechoic chamber.

(3) Sound pressure level is measured at 1.0m from front face of unit, 1.5m above the ground in anechoic chamber.

(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)

! The indoor units are now to be supplied with 220-230 V from the outside unit.

