

Hitachi Air Conditioning

Engineered for tomorrow.

SYSTEM
FREE

-10
+15

-5
+43

DC
INVERTER

Utopia
Split Systems

Utopia ES

Our expanded range of Utopia Splits systems includes entry-level Utopia ES.

With cooling and heating capacities from 7.1kW to 28kW these compact single fan units are economical and can be used for multi split applications (master slave control)



Features and Benefits

- ✔ Capacities from 7.1kW to 28kW
- ✔ R410A refrigerant
- ✔ Compact design – single fan (up to 6HP)
- ✔ Multi split applications possible (Master slave control)
- ✔ SCOP of up to 3.88 A rating and SEER of up to 5.14 A rating
- ✔ Compatible with all Hitachi System Free indoor units
- ✔ Available in single phase and three phase.

	Utopia ES
	RAS 3.0 ~ 10H(V)RNS(2)(3)(E)
Nominal Cooling Capacity (kW)	7.1 ~ 25.0
Nominal Heating Capacity (kW)	8.0 ~ 28.0
Individual IXV Control (Min - Max Indoor Units) ⁽³⁾	1 - 4
Connected Capacity (Min - Max) ⁽⁴⁾	100%
Seasonal Efficiency SEER ^{(1) (2)}	5.14
Energy Efficiency Class	A
Seasonal Efficiency SCOP ^{(1) (2)} (Average Climate)	3.88
Energy Efficiency Class	A
Refrigerant / GWP	R410A / 1975
Operating Range (Cooling)	-5°C / +46°C
Operating Range (Heating)	-20(wb)°C / +15(wb)°C
Remote Controller Type	Infra Red or Wired

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

(2) Selected Models

(3) Maximum indoor unit quantity dependant on Outdoor Capacity

(4) Restrictions apply, consult Technical Manual

Optional Individual Controls

- ✔ PC-LH3A - Wireless remote controller
- ✔ PC-LH3B - Wireless remote controller
- ✔ PC-ARH - Simple wired remote controller
- ✔ PC-ART - Standard wired remote controller (inc. 7-day timer)
- ✔ PC-ARF - Advanced wired LED controller (inc. 7-day timer)



PC-LH3A



PC-LH3B



PC-ARH



PC-ART



PC-ARF

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HITACHI
Inspire the Next



RAS HVRNS3



RAS HVRNS3

SYSTEM
FREE



Utopia ES

Outdoor Unit		RAS 3HVRNS3	RAS 4HVRNS3E	RAS 4HRNS3E	RAS 5HVRNS2E
Power supply (1Ø/3Ø)		230V / 1Ph / 50Hz	230V / 1Ph / 50Hz	400V / 3Ph / 50Hz	230V / 1Ph / 50Hz
Nominal Cooling Capacity (min - max)	kW	7.1 (3.2 - 8.0)	10 (4.5 - 11.2)	10 (4.5 - 11.2)	12.5 (5.7 - 14.0)
Nominal Heating Capacity (min - max)	kW	8.0 (3.5 - 10.6)	11.2 (5.0 - 14.0)	11.2 (5.0 - 14.0)	14.0 (6.0 - 18.0)
UK Cooling Capacity (sensible) ⁽³⁾	kW	7.4 (6.0)	10.3 (7.9)	10.3 (7.9)	12.7 (9.1)
Minimum - Maximum Indoor Units		1 - 2	1 - 2	1 - 2	1 - 2
Seasonal Efficiency SEER ⁽²⁾		5.14	4.95	4.85	n/a
Energy Efficiency Class	kWh/yr	A	B	B	-
Seasonal Efficiency SCOP ⁽²⁾ (Average Climate)		3.88	3.85	3.85	n/a
Energy Efficiency Class	kWh/yr	A	A	A	-
Nominal Load Efficiency EER / COP ⁽²⁾		3.05 / 3.88	3.69 / 4.16	3.69 / 4.16	2.91 / 3.24
Energy Class (Cool/Heat)		B / A	A / A	A / A	C / C
Dimensions (H x W x D)	mm	600x792x300	800x950x370	800x950x370	800x950x370
Weight	Kg	44.0	67.0	67.0	83
Piping diameter (Liquid / Gas)	Inch	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8	3/8 / 5/8
	mm	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88
Minimum Piping Length	m	5	5	5	5
Maximum Piping Length / Height Difference	m	50 / 30	70 / 30	70 / 30	50 / 30
Working Range (cooling / heating)	°C	-5°C~43(db)°C / -10°C~15(wb)°C			

Outdoor Unit		RAS 5HRNS2E	RAS 6HVRNS2E	RAS 6HRNS2E	RAS 8HRNSE	RAS 10HRNSE
Power supply (1Ø/3Ø)		400V / 3Ph / 50Hz	230V / 1Ph / 50Hz		400V / 3Ph / 50Hz	
Nominal Cooling Capacity (min - max)	kW	12.5 (5.7 - 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)	kW	14.0 (6.0 - 18.0)	16.0 (6.0 - 18.0)	16.0 (6.0 - 18.0)	22.4 (8.3 - 25.0)	28.0 (9.0 - 31.5)
UK Cooling Capacity (sensible) ⁽³⁾	kW	12.7 (9.1)	15.2 (10.5)	15.2 (10.5)	20.1 (15.5)	24.9 (17.9)
Minimum - Maximum Indoor Units		1 - 2	1 - 3	1 - 3	1 - 4	1 - 4
Seasonal Efficiency SEER ⁽²⁾		n/a	n/a	n/a	n/a	n/a
Energy Efficiency Class	kWh/yr	-	-	-	-	-
Seasonal Efficiency SCOP ⁽²⁾ (Average Climate)		n/a	n/a	n/a	n/a	n/a
Energy Efficiency Class	kWh/yr	-	-	-	-	-
Nominal Load Efficiency EER / COP ⁽²⁾		2.91 / 3.24	2.45 / 2.88	2.45 / 2.88	3.01 / 3.42	2.81 / 3.21
Energy Class (Cool/Heat)		C / C	E / D	E / D	B / B	C / C
Dimensions (H x W x D)	mm	800x950x370	800x950x370	800x950x370	1380x950x370	1380x950x370
Weight	Kg	83	83	83	135	141
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
	mm	9.53 / 15.88	9.53 / 15.88	9.53 / 15.88	9.53 / 28.61	12.07 / 28.61
Minimum Piping Length	m	5	5	5	5	5
Maximum Piping Length / Height Difference	m	50 / 30	50 / 30	50 / 30	50 / 30	50 / 30
Working Range (cooling / heating)	°C	-5°C~43(db)°C / -10°C~15(wb)°C				

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

⁽³⁾ Data specified includes connection to RCI-FSN3 indoor unit