

TECHNICAL CATALOGUE

UTOPIA

R32 SERIES

R410A SERIES

MODELS

RAS-3HVRC2

RAS-(4-6)H(V)RC2E - RAS-(4-6)H(V)RP2E

RAS-(4-6)H(V)NC2E - RAS-(4-6)H(V)NP2E



Cooling & Heating

3.1 General information

◆ Combination with indoor units and complementary systems

All the UTOPIA Prime and UTOPIA IVX Prime described in this Technical Catalogue can be combined with the indoor units indicated in the following table:

IU \ OU		UTOPIA Prime and UTOPIA IVX Prime	
		R32	R410A
		RAS-3HVRC2 RAS-(4-6)H(V)R(C/P)2E	RAS-(4-6)H(V)N(C/P)2E
New series	RCI-FSR	✓	✓
	RCIM-FSRE (*)	✓	✓
	RCD-FSR	✓	✓
	RPC-FSR	✓	✓
	RPIL-FSRE (*)	✓	✓
	RPI-FSRE	✓	✓
	RPIH-FSRE	✓	✓
	RPK-FSR(H)M (*)	✓	✓
	RPI-4.0FSN6E-EF	✗	✓
Previous series	RCI-FSN4	✗	✓
	RCIM-FSN4E (*)	✗	✓
	RCD-FSN3	✗	✓
	RPC-FSN3	✗	✓
	RPI-FSN5E (*)	✗	✓
	RPIM-FSN4E(DU) (*)	✗	✓
	RPK-FSN(H)4M (*)	✗	✓
	RPF-FSN2E	✗	✓
	RPFI-FSN2E	✗	✓
	KPI-E4E	✓	✓
	KPI-X4E	✗	✓
	EXV-E2	✗	✓

NOTE

- For older OU series, contact Hitachi CSC.
- (*): The minimum capacity of indoor units that can be used in combination with R32 and R410A UTOPIA Prime and UTOPIA IVX Prime series is 0.8HP.

3.2 General specifications

◆ UTOPIA Prime with R32 refrigerant for single phase units

OUTDOOR UNITS		RAS-3HVRC2	RAS-4HVRC2E	RAS-5HVRC2E	RAS-6HVRC2E
Power supply	-	1~ 230V 50Hz	1~ 230V 50Hz	1~ 230V 50Hz	1~ 230V 50Hz
Nominal cooling capacity	kW	7.1	10.0	11.9	14.0
Nominal heating capacity	kW	8	11.2	14.0	16.0
Minimum - Maximum connectable indoor units	-	1 - 2	1 - 4	1 - 4	1 - 4
Minimum - Maximum connected capacity	%	90% - 100%	90% - 115%	90% - 115%	90% - 115%
Noise level cooling (sound pressure) (night mode)	dB(A)	54 (48)	54 (51)	54 (51)	56 (51)
Noise level heating (sound pressure)	dB(A)	52	54	54	56
Noise level (sound power)	dB(A)	69	70	70	72
Air flow (cooling / heating)	m³/min	45	80	80	80
Dimensions (H x W x D)	mm	629 x 799(+95) x 300	1140 x 950 x 370	1140 x 950 x 370	1140 x 950 x 370
Net weight	kg	48	84	84	84
Recommended circuit breaker	A	20	25	25	25
Maximum current	A	15.8	22.5	22.5	22.5
Running current cooling	A	7.6	12.4	16.3	21.1
Running current heating	A	8.1	12.8	17.0	17.6
Size of power cable (according to EN 60335-1)	quantity x mm²	3 x 4.0	3 x 6.0	3 x 6.0	3 x 6.0
Size of transmission cable between indoor unit and outdoor unit	quantity x mm²	2 x 0.75	2 x 0.75	2 x 0.75	2 x 0.75
Piping diameter (liquid / gas)	mm (inch)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)
Minimum piping length	m	5	5	5	5
Maximum piping length (chargeless)	m	20	20	20	20
Maximum piping length	m	50	75	75	75
Height difference (higher OU / lower OU)	m	30 / 20	30 / 20	30 / 20	30 / 20
Refrigerant	-	R32	R32	R32	R32
Refrigerant charge before shipment	kg	1.7	3	3	3
Additional refrigerant charge needed	g/m	45	45	45	45
Compressor type	-	Rotative DC Inverter driven	Rotative DC Inverter driven	Rotative DC Inverter driven	Rotative DC Inverter driven

◆ **UTOPIA Prime with R32 refrigerant for three phase units**

OUTDOOR UNITS		RAS-4HRC2E	RAS-5HRC2E	RAS-6HRC2E
Power supply	-	3N~ 400V 50Hz	3N~ 400V 50Hz	3N~ 400V 50Hz
Nominal cooling capacity	kW	10.0	11.9	14.0
Nominal heating capacity	kW	11.2	14.0	16.0
Minimum - Maximum connectable indoor units	-	1 - 4	1 - 4	1 - 4
Minimum - Maximum connected capacity	%	90% - 115%	90% - 115%	90% - 115%
Noise level cooling (sound pressure) (night mode)	dB(A)	54 (51)	54 (51)	56 (51)
Noise level heating (sound pressure)	dB(A)	54	54	56
Noise level (sound power)	dB(A)	70	70	72
Air flow (cooling / heating)	m³/min	80	80	80
Dimensions (H x W x D)	mm	1140 x 950 x 370	1140 x 950 x 370	1140 x 950 x 370
Net weight	kg	86	86	86
Recommended circuit breaker	A	20	20	20
Maximum current	A	15	15	15
Running current cooling	A	4.4	5.7	7.4
Running current heating	A	4.5	6.0	6.2
Size of power cable (according to EN 60335-1)	quantity x mm²	5 x 4.0	5 x 4.0	5 x 4.0
Size of transmission cable between indoor unit and outdoor unit	quantity x mm²	2 x 0.75	2 x 0.75	2 x 0.75
Piping diameter (liquid / gas)	mm (inch)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)
Minimum piping length	m	5	5	5
Maximum piping length (chargeless)	m	20	20	20
Maximum piping length	m	75	75	75
Height difference (higher OU / lower OU)	m	30 / 20	30 / 20	30 / 20
Refrigerant	-	R32	R32	R32
Refrigerant charge before shipment	kg	3	3	3
Additional refrigerant charge needed	g/m	45	45	45
Compressor type	-	Rotative DC Inverter driven	Rotative DC Inverter driven	Rotative DC Inverter driven

◆ **UTOPIA Prime with R410A refrigerant for single phase units**

OUTDOOR UNITS		RAS-4HVNC2E	RAS-5HVNC2E	RAS-6HVNC2E
Power supply	-	1~ 230V 50Hz	1~ 230V 50Hz	1~ 230V 50Hz
Nominal cooling capacity	kW	10.0	11.9	14.0
Nominal heating capacity	kW	11.2	14.0	16.0
Minimum - Maximum connectable indoor units	-	1 - 4	1 - 4	1 - 4
Minimum - Maximum connected capacity	%	90% - 115%	90% - 115%	90% - 115%
Noise level cooling (sound pressure) (night mode)	dB(A)	54 (51)	54 (51)	56 (51)
Noise level heating (sound pressure)	dB(A)	54	54	56
Noise level (sound power)	dB(A)	70	70	72
Air flow (cooling / heating)	m³/min	80	80	80
Dimensions (H x W x D)	mm	1140 x 950 x 370	1140 x 950 x 370	1140 x 950 x 370
Net weight	kg	84	84	84
Recommended circuit breaker	A	25	25	25
Maximum current	A	22.5	22.5	22.5
Running current cooling	A	13.8	18.3	23.7
Running current heating	A	12.6	17.0	17.6
Size of power cable (according to EN 60335-1)	quantity x mm²	3 x 6.0	3 x 6.0	3 x 6.0
Size of transmission cable between indoor unit and outdoor unit	quantity x mm²	2 x 0.75	2 x 0.75	2 x 0.75
Piping diameter (liquid / gas)	mm (inch)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)
Minimum piping length	m	5	5	5
Maximum piping length (chargeless)	m	20	20	20
Maximum piping length	m	75	75	75
Height difference (higher OU / lower OU)	m	30 / 20	30 / 20	30 / 20
Refrigerant	-	R410A	R410A	R410A
Refrigerant charge before shipment	kg	3.2	3.2	3.2
Additional refrigerant charge needed	g/m	60	60	60
Compressor type	-	Rotative DC Inverter driven	Rotative DC Inverter driven	Rotative DC Inverter driven

◆ **UTOPIA Prime with R410A refrigerant for three phase units**

OUTDOOR UNITS		RAS-4HNC2E	RAS-5HNC2E	RAS-6HNC2E
Power supply	-	3N~ 400V 50Hz	3N~ 400V 50Hz	3N~ 400V 50Hz
Nominal cooling capacity	kW	10.0	11.9	14.0
Nominal heating capacity	kW	11.2	14.0	16.0
Minimum - Maximum connectable indoor units	-	1 - 4	1 - 4	1 - 4
Minimum - Maximum connected capacity	%	90% - 115%	90% - 115%	90% - 115%
Noise level cooling (sound pressure) (night mode)	dB(A)	54 (51)	54 (51)	56 (51)
Noise level heating (sound pressure)	dB(A)	54	54	56
Noise level (sound power)	dB(A)	70	70	72
Air flow (cooling / heating)	m³/min	80	80	80
Dimensions (H x W x D)	mm	1140 x 950 x 370	1140 x 950 x 370	1140 x 950 x 370
Net weight	kg	86	86	86
Recommended circuit breaker	A	20	20	20
Maximum current	A	15	15	15
Running current cooling	A	4.9	6.4	8.3
Running current heating	A	4.4	6.0	6.2
Size of power cable (according to EN 60335-1)	quantity x mm²	5 x 4.0	5 x 4.0	5 x 4.0
Size of transmission cable between indoor unit and outdoor unit	quantity x mm²	2 x 0.75	2 x 0.75	2 x 0.75
Piping diameter (liquid / gas)	mm (inch)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)
Minimum piping length	m	5	5	5
Maximum piping length (chargeless)	m	20	20	20
Maximum piping length	m	75	75	75
Height difference (higher OU / lower OU)	m	30 / 20	30 / 20	30 / 20
Refrigerant	-	R410A	R410A	R410A
Refrigerant charge before shipment	kg	3.2	3.2	3.2
Additional refrigerant charge needed	g/m	60	60	60
Compressor type	-	Rotative DC Inverter driven	Rotative DC Inverter driven	Rotative DC Inverter driven

◆ **UTOPIA IVX Prime with R32 refrigerant for single phase units**

OUTDOOR UNITS		RAS-4HVRP2E	RAS-5HVRP2E	RAS-6HVRP2E
Power supply	-	1~ 230V 50Hz	1~ 230V 50Hz	1~ 230V 50Hz
Nominal cooling capacity	kW	10.0	12.5	14.0
Nominal heating capacity	kW	11.2	14.0	16.0
Minimum - Maximum connectable indoor units	-	1 - 4	1 - 4	1 - 4
Minimum - Maximum connected capacity	%	90% - 115%	90% - 115%	90% - 115%
Noise level cooling (sound pressure) (night mode)	dB(A)	54 (51)	56 (51)	56 (51)
Noise level heating (sound pressure)	dB(A)	54	56	56
Noise level (sound power)	dB(A)	70	72	72
Air flow (cooling / heating)	m³/min	80	80	80
Dimensions (H x W x D)	mm	1140 x 950 x 370	1140 x 950 x 370	1140 x 950 x 370
Net weight	kg	84	84	84
Recommended circuit breaker	A	25	25	25
Maximum current	A	22.5	22.5	22.5
Running current cooling	A	12.1	16.5	21.1
Running current heating	A	12.6	16.4	17.6
Size of power cable (according to EN 60335-1)	quantity x mm²	3 x 6.0	3 x 6.0	3 x 6.0
Size of transmission cable between indoor unit and outdoor unit	quantity x mm²	2 x 0.75	2 x 0.75	2 x 0.75
Piping diameter (liquid / gas)	mm (inch)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)
Minimum piping length	m	5	5	5
Maximum piping length (chargeless)	m	20	20	20
Maximum piping length	m	75	75	75
Height difference (higher OU / lower OU)	m	30 / 20	30 / 20	30 / 20
Refrigerant	-	R32	R32	R32
Refrigerant charge before shipment	kg	3	3	3
Additional refrigerant charge needed	g/m	45	45	45
Compressor type	-	Rotative DC Inverter driven	Rotative DC Inverter driven	Rotative DC Inverter driven

◆ **UTOPIA IVX Prime with R32 refrigerant for three phase units**

OUTDOOR UNITS		RAS-4HRP2E	RAS-5HRP2E	RAS-6HRP2E
Power supply	-	3N~ 400V 50Hz	3N~ 400V 50Hz	3N~ 400V 50Hz
Nominal cooling capacity	kW	10.0	12.5	14.0
Nominal heating capacity	kW	11.2	14.0	16.0
Minimum - Maximum connectable indoor units	-	1 - 4	1 - 4	1 - 4
Minimum - Maximum connected capacity	%	90% - 115%	90% - 115%	90% - 115%
Noise level cooling (sound pressure) (night mode)	dB(A)	54 (51)	56 (51)	56 (51)
Noise level heating (sound pressure)	dB(A)	54	56	56
Noise level (sound power)	dB(A)	70	72	72
Air flow (cooling / heating)	m³/min	80	80	80
Dimensions (H x W x D)	mm	1140 x 950 x 370	1140 x 950 x 370	1140 x 950 x 370
Net weight	kg	86	86	86
Recommended circuit breaker	A	20	20	20
Maximum current	A	15	15	15
Running current cooling	A	4.3	5.8	7.4
Running current heating	A	4.4	5.8	6.2
Size of power cable (according to EN 60335-1)	quantity x mm²	5 x 4.0	5 x 4.0	5 x 4.0
Size of transmission cable between indoor unit and outdoor unit	quantity x mm²	2 x 0.75	2 x 0.75	2 x 0.75
Piping diameter (liquid / gas)	mm (inch)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)
Minimum piping length	m	5	5	5
Maximum piping length (chargeless)	m	20	20	20
Maximum piping length	m	75	75	75
Height difference (higher OU / lower OU)	m	30 / 20	30 / 20	30 / 20
Refrigerant	-	R32	R32	R32
Refrigerant charge before shipment	kg	3	3	3
Additional refrigerant charge needed	g/m	45	45	45
Compressor type	-	Rotative DC Inverter driven	Rotative DC Inverter driven	Rotative DC Inverter driven

◆ **UTOPIA IVX Prime with R410A refrigerant for single phase units**

OUTDOOR UNITS		RAS-4HVNP2E	RAS-5HVNP2E	RAS-6HVNP2E
Power supply	-	1~ 230V 50Hz	1~ 230V 50Hz	1~ 230V 50Hz
Nominal cooling capacity	kW	10.0	12.5	14.0
Nominal heating capacity	kW	11.2	14.0	16.0
Minimum - Maximum connectable indoor units	-	1 - 4	1 - 4	1 - 4
Minimum - Maximum connected capacity	%	90% - 115%	90% - 115%	90% - 115%
Noise level cooling (sound pressure) (night mode)	dB(A)	54 (51)	56 (51)	56 (51)
Noise level heating (sound pressure)	dB(A)	54	56	56
Noise level (sound power)	dB(A)	70	72	72
Air flow (cooling / heating)	m³/min	80	80	80
Dimensions (H x W x D)	mm	1140 x 950 x 370	1140 x 950 x 370	1140 x 950 x 370
Net weight	kg	84	84	84
Recommended circuit breaker	A	25	25	25
Maximum current	A	22.5	22.5	22.5
Running current cooling	A	13.6	18.5	23.7
Running current heating	A	12.4	16.4	17.6
Size of power cable (according to EN 60335-1)	quantity x mm²	3 x 6.0	3 x 6.0	3 x 6.0
Size of transmission cable between indoor unit and outdoor unit	quantity x mm²	2 x 0.75	2 x 0.75	2 x 0.75
Piping diameter (liquid / gas)	mm (inch)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)
Minimum piping length	m	5	5	5
Maximum piping length (chargeless)	m	20	20	20
Maximum piping length	m	75	75	75
Height difference (higher OU / lower OU)	m	30 / 20	30 / 20	30 / 20
Refrigerant	-	R410A	R410A	R410A
Refrigerant charge before shipment	kg	3.2	3.2	3.2
Additional refrigerant charge needed	g/m	60	60	60
Compressor type	-	Rotative DC Inverter driven	Rotative DC Inverter driven	Rotative DC Inverter driven

◆ **UTOPIA IVX Prime with R410A refrigerant for three phase units**

OUTDOOR UNITS		RAS-4HNP2E	RAS-5HNP2E	RAS-6HNP2E
Power supply	-	3N~ 400V 50Hz	3N~ 400V 50Hz	3N~ 400V 50Hz
Nominal cooling capacity	kW	10.0	12.5	14.0
Nominal heating capacity	kW	11.2	14.0	16.0
Minimum - Maximum connectable indoor units	-	1 - 4	1 - 4	1 - 4
Minimum - Maximum connected capacity	%	90% - 115%	90% - 115%	90% - 115%
Noise level cooling (sound pressure) (night mode)	dB(A)	54 (51)	56 (51)	56 (51)
Noise level heating (sound pressure)	dB(A)	54	56	56
Noise level (sound power)	dB(A)	70	72	72
Air flow (cooling / heating)	m³/min	80	80	80
Dimensions (H x W x D)	mm	1140 x 950 x 370	1140 x 950 x 370	1140 x 950 x 370
Net weight	kg	86	86	86
Recommended circuit breaker	A	20	20	20
Maximum current	A	15	15	15
Running current cooling	A	4.8	6.5	8.3
Running current heating	A	4.3	5.8	6.2
Size of power cable (according to EN 60335-1)	quantity x mm²	5 x 4.0	5 x 4.0	5 x 4.0
Size of transmission cable between indoor unit and outdoor unit	quantity x mm²	2 x 0.75	2 x 0.75	2 x 0.75
Piping diameter (liquid / gas)	mm (inch)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)	Ø9.52 (3/8) / Ø15.88 (5/8)
Minimum piping length	m	5	5	5
Maximum piping length (chargeless)	m	20	20	20
Maximum piping length	m	75	75	75
Height difference (higher OU / lower OU)	m	30 / 20	30 / 20	30 / 20
Refrigerant	-	R410A	R410A	R410A
Refrigerant charge before shipment	kg	3.2	3.2	3.2
Additional refrigerant charge needed	g/m	60	60	60
Compressor type	-	Rotative DC Inverter driven	Rotative DC Inverter driven	Rotative DC Inverter driven

3.3 Cooling and heating performance

3.3.1 UTOPIA Prime single phase series

System combination			Cooling				Heating			
Refrigerant	Outdoor unit	Indoor unit	SEER	EER	Energy Class	P Design (35°C)	SCOP	COP	Energy Class	P Design (-10°C)
			-		-	kW				kW
R32	RAS-3HVR2C	RCI-3.0FSR	7.33	3.93	A++	7.10	4.20	4.11	A+	6.00
		RPI-3.0FSRE	6.70	3.47	A++	7.10	3.92	3.63	A	6.00
		RPC-3.0FSR	7.02	3.91	A++	7.10	4.09	3.52	A+	6.00
		RPK-3.0FSR(H)M	7.04	3.37	A++	7.10	3.90	3.01	A	5.60
	RAS-4HVR2C2E	RCI-4.0FSR	6.93	3.90	A++	10.00	4.36	4.23	A+	8.70
		RPIH-4.0FSRE	7.18	3.73	A++	10.00	4.38	3.73	A+	8.70
		RPI-4.0FSRE	6.44	3.62	A++	10.00	4.04	3.71	A+	8.70
		RPC-4.0FSR	5.93	3.47	A+	10.00	4.13	3.47	A+	8.70
		RPK-4.0FSR(H)M	6.45	2.42	A++	10.00	3.80	2.82	A	7.40
	RAS-5HVR2C2E	RCI-5.0FSR	6.60	3.52	A++	11.90	4.26	3.98	A+	11.93
		RPI(H)-5.0FSRE	7.06	3.37	A++	11.90	4.36	3.52	A+	11.93
		RPI-5.0FSRE	6.10	3.26	A++	11.90	4.03	3.42	A+	11.93
		RPC-5.0FSR	6.09	3.06	A+	11.90	4.09	3.21	A+	11.93
	RAS-6HVR2C2E	2 x RCI-3.0FSR	7.35	3.24	-	14.00	4.73	4.40	-	14.20
		2 x RPI-3.0FSRE	7.30	3.09	-	14.00	4.73	4.40	-	14.20
R410A	RAS-4HVNC2E	RCI-4.0FSR	6.69	3.50	A++	10.00	4.40	4.30	A+	8.70
		RPIH-4.0FSRE	6.90	3.33	A++	10.00	4.44	3.79	A+	8.70
		RPI-4.0FSRE	6.21	3.24	A++	10.00	4.09	3.71	A+	8.70
		RPC-4.0FSR	5.72	3.10	A+	10.00	4.18	3.53	A+	8.70
		RPK-4.0FSR(H)M	6.17	2.16	A++	10.00	3.83	2.87	A	7.40
	RAS-5HVNC2E	RCI-5.0FSR	6.35	3.15	A++	11.90	4.24	3.98	A+	11.93
		RPI(H)-5.0FSRE	6.77	3.01	A++	11.90	4.34	3.52	A+	11.93
		RPI-5.0FSRE	5.87	2.92	A+	11.90	3.93	3.42	A	11.93
		RPC-5.0FSR	5.86	2.74	A+	11.90	4.09	3.21	A+	11.93
	RAS-6HVNC2E	2 x RCI-3.0FSR	7.01	2.85	-	14.00	4.71	4.40	-	14.20
		2 x RPI-3.0FSRE	6.99	2.81	-	14.00	4.70	4.40	-	14.20

3.3.2 UTOPIA IVX Prime single phase series

System combination			Cooling				Heating			
Refrigerant	Outdoor unit	Indoor unit	SEER	EER	Energy Class	P Design (35°C)	SCOP	COP	Energy Class	P Design (-10°C)
			-		-	kW				kW
R32	RAS-4HVRP2E	2 x RCI-2.0FSR	7.31	3.98	A++	10.00	4.60	4.31	A++	8.70
		2 x RPI-2.0FSRE	5.94	3.55	A+	10.00	3.91	3.71	A	8.70
	RAS-5HVRP2E	-	8.35	3.66	-	12.50	4.75	4.13	-	11.93
	RAS-6HVRP2E	-	7.35	3.24	-	14.00	4.73	4.40	-	14.20
R410A	RAS-4HVNP2E	2 x RCI-2.0FSR	7.04	3.56	A++	10.00	4.64	4.38	A++	8.70
		2 x RPI-2.0FSRE	5.75	3.24	A+	10.00	3.91	3.71	A	8.70
	RAS-5HVNP2E	-	7.80	3.26	-	12.50	4.68	4.13	-	11.93
	RAS-6HVNP2E	-	7.01	2.85	-	14.00	4.71	4.40	-	14.20

3.3.3 UTOPIA Prime three phase series

System combination			Cooling				Heating			
Refrigerant	Outdoor unit	Indoor unit	SEER	EER	Energy Class	P Design (35°C)	SCOP	COP	Energy Class	P Design (-10°C)
			-		-	kW				kW
R32	RAS-4HRC2E	RCI-4.0FSR	6.62	3.90	A++	10.00	4.36	4.23	A+	8.70
		RPIH-4.0FSRE	6.84	3.73	A++	10.00	4.38	3.73	A+	8.70
		RPI-4.0FSRE	6.17	3.62	A++	10.00	4.04	3.63	A+	8.70
		RPC-4.0FSR	5.70	3.47	A+	10.00	4.12	3.47	A+	8.70
		RPK-4.0FSR(H)M	6.18	2.42	A++	10.00	3.80	2.82	A	7.40
	RAS-5HRC2E	RCI-5.0FSR	6.37	3.52	A++	11.90	4.25	3.98	A+	11.93
		RPI(H)-5.0FSRE	6.79	3.37	A++	11.90	4.36	3.52	A+	11.93
		RPI-5.0FSRE	5.89	3.26	A+	11.90	4.03	3.42	A+	11.93
		RPC-5.0FSR	5.89	3.06	A+	11.90	4.09	3.21	A+	11.93
	RAS-6HRC2E	2 x RCI-3.0FSR	7.25	3.24	-	14.00	4.73	4.40	-	14.20
		2 x RPI-3.0FSRE	7.20	3.09	-	14.00	4.73	4.40	-	14.20
R410A	RAS-4HNC2E	RCI-4.0FSR	6.42	3.50	A++	10.00	4.40	4.30	A+	8.70
		RPIH-4.0FSRE	6.60	3.33	A++	10.00	4.43	3.79	A+	8.70
		RPI-4.0FSRE	5.96	3.24	A+	10.00	4.09	3.71	A+	8.70
		RPC-4.0FSR	5.51	3.10	A	10.00	4.17	3.53	A+	8.70
		RPK-4.0FSR(H)M	5.92	2.16	A+	10.00	3.83	2.87	A	7.40
	RAS-5HNC2E	RCI-5.0FSR	6.13	3.15	A++	11.90	4.23	3.98	A+	11.93
		RPI(H)-5.0FSRE	6.52	3.01	A++	11.90	4.34	3.52	A+	11.93
		RPI-5.0FSRE	5.68	2.92	A+	11.90	3.93	3.42	A	11.93
		RPC-5.0FSR	5.67	2.74	A+	11.90	4.09	3.21	A+	11.93
	RAS-6HNC2E	2 x RCI-3.0FSR	6.92	2.85	-	14.00	4.71	4.40	-	14.20
		2 x RPI-3.0FSRE	6.90	2.81	-	14.00	4.70	4.40	-	14.20

3.3.4 UTOPIA IVX Prime three phase series

System combination			Cooling				Heating			
Refrigerant	Outdoor unit	Indoor unit	SEER	EER	Energy Class	P Design (35°C)	SCOP	COP	Energy Class	P Design (-10°C)
			-		-	kW				kW
R32	RAS-4HRP2E	2 x RCI-2.0FSR	6.96	3.98	A++	10.00	4.60	4.31	A++	8.70
		2 x RPI-2.0FSRE	5.71	3.55	A+	10.00	3.91	3.71	A	8.70
	RAS-5HRP2E	-	8.20	3.66	-	12.50	4.75	4.13	-	11.93
	RAS-6HRP2E	-	7.25	3.24	-	14.00	4.73	4.40	-	14.20
R410A	RAS-4HNP2E	2 x RCI-2.0FSR	6.72	3.56	A++	10.00	4.64	4.38	A++	8.70
		2 x RPI-2.0FSRE	5.54	3.24	A	10.00	3.91	3.71	A	8.70
	RAS-5HNP2E	-	7.67	3.26	-	12.50	4.68	4.13	-	11.93
	RAS-6HNP2E	-	6.92	2.85	-	14.00	4.71	4.40	-	14.20

3.4 Component data

◆ RAS-(3-6)H(V)(R/N)C2(E)

MODEL		RAS-3HVRC2	RAS-4H(V)(R/N)C2E	RAS-5H(V)(R/N)C2E	RAS-6H(V)(R/N)C2E
Heat exchanger	Type	Multi-pass cross-finned tube			
	Pipe material	Copper			
	Outer diameter	mm	7	7	
	Rows	2			
	Number of tubes in the heat exchanger	44	108		
	Fin material	Aluminium			
	Fin pitch	1.45	1.4		
	Maximum operating pressure	MPa	4.15		
	Total front area	m ²	0.47	1.11	
	Number of heat exchanger per unit	1			
Fan	Fan type	Direct drive propeller fan			
	Fans per unit	1			
	Outer diameter	mm	449	544	
	Revolutions	rpm	970	822	
	Nominal air flow	m ³ /min	45	80	
Motor	Shell	Drip-proof type enclosure			
	Starting	Direct current control			
	Power	W	50	200	
	Quantity		1	1	
	Insulation class	E			
Compressor	Model	GTD163UKQA8LTH	GTH356SDPC9FQ		
	Oil type	ACS68R	ACS68R		
	Quantity	0.75	1.65		

◆ **RAS-(4-6)H(V)(R/N)P2E**

MODEL		RAS-4H(V)(R/N)P2E	RAS-5H(V)(R/N)P2E	RAS-6H(V)(R/N)P2E
Heat exchanger	Type	Multi-pass cross-finned tube		
	Pipe material	Copper		
	Outer diameter	mm	7	
	Rows		2	
	Number of tubes in the heat exchanger		108	
	Fin material	Aluminium		
	Fin pitch		1.4	
	Maximum operating pressure	MPa	4.15	
	Total front area	m ²	1.11	
	Number of heat exchanger per unit		1	
Fan	Fan type	Direct drive propeller fan		
	Fans per unit		1	
	Outer diameter	mm	544	
	Revolutions	rpm	822	
	Nominal air flow	m ³ /min	80	
Motor	Shell	Drip-proof type enclosure		
	Starting	Direct current control		
	Power	W	200	
	Quantity		1	
	Insulation class		E	
Compressor	Model	GTH356SDPC9FQ		
	Oil type	ACS68R		
	Quantity		1.65	



Hitachi certifies that our products have met EU consumer safety, health and environmental requirements.



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Cooling & Heating

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