

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