

Specification (Cassette)

IDU			RCI-1.5UNE1NH	RCI-2.0UNE1NH	RCI-3.0UNE1NH	RCI-4.0UNE1NH	RCI-5.0UNE1NH	RCI-6.0UNE1NH	RCI-6.5UNE1NH
ODU			RAS-1.5UNESNH1	RAS-2.0UNESNH1	RAS-3.0UNESNH1	RAS-4.0UNESNH1	RAS-5.0UMESNH1	RAS-6.0UMESNH1	RAS-6.5UMESNH1
Power supply			220~240/1/50				380~415/3/50		
Max. input consumption			W	1,800	2,710	4,100	5,150	6,400	7,800
Max. input current			A	8.1	12.3	18.1	22.5	11.0	13.1
Average	Pdesignc	kW	3.520	5.100	7.070	10.300	12.068	13.400	14.500
	SEER	W/W	6.61	6.11	6.46	6.13	5.72	6.01	5.87
	Energy Efficiency Class		A++	A+	A++	A++	A+	A+	A+
	Pdesignh	kW	3.520	4.800	5.680	9.600	10.000	13.500	11.000
	SCOP	W/W	4.25	4.01	4.07	3.90	3.80	3.88	3.77
	Energy Efficiency Class		A+	A	A+	A	A	A	A
Cooling	Capacity	Btu/h	12,310	18,088	24,123	35,144	41,176	45,721	49,474
	Capacity	kW	3.6	5.3	7.1	10.3	12.1	13.4	14.5
	Input	W	988	1,710	2,209	3,433	4,190	4,621	5,492
	Current	A	4.4	7.6	9.7	16.5	7.2	7.4	9.7
	EER	W/W	3.65	3.10	3.20	3.00	2.88	2.90	2.64
Heating	Capacity	Btu/h	13,000	21,100	28,000	39,238	47,768	56,100	60,000
	Capacity	kW	3.8	6.2	8.2	11.5	14.0	16.4	17.6
	Input	W	960	1,897	2,372	3,605	3,900	4,850	5,709
	Current	A	4.2	8.3	10.5	16.0	7.3	7.4	9.1
	COP	W/W	3.97	3.26	3.46	3.19	3.59	3.39	3.08
Indoor fan motor	Qty		1	1	1	1	1	1	1
	Input	W	30	28	35	80	124	124	124
	Capacitor	µF	/	2	/	/	/	/	/
	Speed(Hi/Med/L0)	r/min	700/590/520	980/840/720	450/390/270	600/480/390	630/600/570	700/540/460	700/540/460
Indoor air flow Rated(Hi/Med/L0)			m³/h	575/484/400	820/730/620	1100/976/852	1600/1300/1000	1850/1700/1550	2000/1900/1700
Indoor air flow Rated(Hi/Med/L0)			CFM	338/285/235	482/429/365	647/574/501	941/765/588	1088/1000/912	1180/1120/1000
Indoor noise level (Hi/Med/L0)			dB(A)	39/37/36	45/41/39	41/38/36	45/40/37	46/43/41	50/48/46
Indoor noise level (Sound Power)			dB(A)	52	59	57	61	62	64
Indoor unit	Dimension (WxHxD)	mm	650×270×570	650×270×570	840×248×840	840×248×840	840×298×840	840×298×840	840×298×840
	Packing(WxHxD)	mm	770×310×750	770×310×750	996×370×956	996×370×956	996×420×956	996×420×956	996×420×956
	Net/Gross weight	kg	19/24	21/26	28/37	30/39	32/41	32/41	32/41
Drainage water pipe diameter (ID)			mm	IDØ21	IDØ21	IDØ32	IDØ32	IDØ32	IDØ32
Controller				Remote controller					
Operation temperature			°C	16 - 30					
Qty*per 20' /40' /40"HQ (Indoor unit)			Set	147/315/384	147/315/384	72/144/168	60/120/144	60/120/144	60/120/144
Compressor	Type			ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Rated current(RLA)	A	5.7	8.1	8.9	5.1	5.1	13.2	12.0
	Refrigerant oil	ml	ESTER OIL VG74/370	ESTEL OIL VG74/500	POE VG74/670	POE VG74/1000	PQE VG74/1000	α 68HES-H or equivalent/1650	FV50S or PVE/1400
Outdoor fan motor	Qty		1	1	1	1	1	2	2
	Input	W	30	61	61	121	138	121	121
	Speed	r/min	880	840	880	830	850	810	810
Outdoor noise level(Sound Pressure)			dB(A)	48	53	53	55	58	58
Outdoor noise level(Sound Power)			dB(A)	62	65	68	70	74	69
Throttle type				EEV	EEV	EEV	EEV	EEV	EEV
Outdoor unit	Dimension(WxHxD)	mm	810×585×280	860×670×310	860×670×310	950×840×340	950×1050×340	950×1386×340	950×1386×340
	Packing(WxHxD)	mm	940×640×420	990×730×450	990×730×450	1110×910×460	1110×1200×460	1110×1527×460	1110×1527×460
	Net/Gross weight	kg	34/38.5	45/49	51/57	70/80	85/95	103/109	103/109
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charged volume	kg	1.05	1.30	1.70	2.80	3.20	3.78	3.95
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ6.35/Φ9.52(1/4/3/8)	Φ6.35/Φ12.7(1/4/1/2)	Φ9.52/Φ15.88(3/8/5/8)	Φ9.52/Φ19.05(3/8/3/4)	Φ9.52/Φ19.05(3/8/3/4)	Φ9.52/Φ19.05(3/8/3/4)	Φ9.52/Φ19.05(3/8/3/4)
	Max. pipe length	m	25	30	30	50	50	50	50
	Max. difference in level	m	10	15	15	30	30	30	30
	Annual energy consumption(cooling)	kWh/a	185	303	405	599	676	857	933
Annual energy consumption(heating)			kWh/a	1,190	1,785	2,095	3,229	3,679	4,276
Ambient temperature	Cooling	°C	-15~48	-15~48	-15~48	-15~48	-15~48	-15~48	-15~48
	Heating	°C	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24
Qty*per 20' /40' /40"HQ (Outdoor unit)			Set	102/204/272	90/186/186	90/186/186	52/106/106	26/53/53	26/53/53

Nominal testing conditions:
Cooling - Indoor 80.6°F DB / 66.2°F WB [27°C DB / 19°C WB] & Outdoor 95°F DB / 75.2°F WB [35°C DB / 24°C WB]
Heating - Indoor 68°F DB / 59°F WB [20°C DB / 15°C WB] & Outdoor 44.6°F DB / 42.8°F WB [7°C DB / 6°C WB]

Specification (Floor Ceiling)

IDU			RPFC-2.0UNE1NH	RPFC-3.0UNE1NH	RPFC-4.0UNE1NH	RPFC-5.0UNE1NH	RPFC-6.0UNE1NH	RPFC-6.5UNE1NH
ODU			RAS-2.0UNESNH1	RAS-3.0UNESNH1	RAS-4.0UNESNH1	RAS-5.0UMESNH1	RAS-6.0UMESNH1	RAS-6.5UMESNH1
Power supply			220~240/1/50				380~415/3/50	
Max. input			W	2,600	4,100	5,100	6,400	8,200
Max. input current			A	11.0	18.0	22.5	11.6	13.5
Average	Pdesignc	kW	5.200	6.750	10.230	12.050	12.868	14.420
	SEER	W/W	6.80	5.79	6.07	5.41	5.99	5.90
	Energy Efficiency Class		A++	A+	A+	A	A+	A+
	Pdesignh	kW	4.800	5.630	8.465	10.500	12.000	12.300
	SCOP	W/W	4.10	3.92	3.97	3.79	3.80	3.80
	Energy Efficiency Class		A+	A	A	A	A	A
Cooling	Capacity	Btu/h	17,870	23,031	34,905	41,115	43,906	49,201
	Capacity	kW	5.2	6.8	10.2	12.1	12.9	14.4
	Input	W	1,652	2,163	3,680	4,866	4,247	5,381
	Current	A	7.6	9.7	17.6	8.3	8.2	10.1
	EER	W/W	3.17	3.12	2.78	2.48	3.03	2.68
Heating	Capacity	Btu/h	20,900	28,000	38,385	47,768	55,000	60,000
	Capacity	kW	6.1	8.2	11.3	14.0	16.1	17.6
	Input	W	1,885	2,393	3,750	4,502	5,150	6,395
	Current	A	8.2	10.5	16.3	8.2	8.2	9.3
	COP	W/W	3.25	3.43	3.00	3.11	3.13	2.75
Indoor fan motor	Qty		1	1	1	1	1	1
	Input	W	100	100	140	181	181	181
	Speed(Hi/Med/L0)	r/min	800/700/610	1280/1100/920	1220/1160/1080	1200/1100/1000	1250/1000/800	1250/1100/950
	Indoor air flow Rated(Hi/Med/L0)	m³/h	800/690/590	1100/950/800	1700/1500/1300	2000/1800/1600	2000/1600/1200	2000/1700/1500
Indoor air flow Rated(Hi/Med/L0)			CFM	470/400/340	650/570/500	1000/882/765	1176/1059/941	1180/940/710
Indoor noise level (Hi/Med/L0)			dB(A)	43/39/36	48/46/42	50/49/48	50/48/45	51/45/41
Indoor noise level (Sound Power)			dB(A)	57	63	64	66	67
Indoor unit	Dimension (WxHxD)	mm	990×230×680	990×230×680	1285×230×680	1580×230×680	1580×230×680	1580×230×680
	Packing(WxHxD)	mm	1100×350×820	1100×350×820	1400×350×820	1690×350×820	1690×350×820	1690×350×820
	Net/Gross weight	kg	29/34	30/35	37/44	48/56	48/56	50/58
Drainage water pipe diameter (OD)			mm	ODØ25	ODØ25	ODØ25	ODØ25	ODØ25
Controller				Remote controller				
Operation temperature			°C	16 - 30				
Qty*per 20' /40' /40"HQ (Indoor unit)			Set	84/168/196	84/168/196	42/84/98	42/84/98	42/84/98
Compressor	Type			ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Rated current(RLA)	A	8.1	8.9	5.1	5.1	13.2	12.0
	Refrigerant oil	ml	ESTEL OIL VG74/500	POE VG74/670	POE VG74/1000	POE VG74/1000	α 68HES-H or equivalent/1650	FV50S or PVE/1400
Outdoor fan motor	Qty		1	1	1	1	2	2
	Input	W	61	61	121	138	121	121
	Speed	r/min	840	880	830	850	810	810
Outdoor noise level(Sound Pressure)			dB(A)	53	53	54	58	53
Outdoor noise level(Sound Power)			dB(A)	65	68	70	74	69
Throttle type				EEV	EEV	EEV	EEV	EEV
Outdoor unit	Dimension(WxHxD)	mm	860×670×310	860×670×310	950×840×340	950×1050×340	950×1386×340	950×1386×340
	Packing(WxHxD)	mm	990×730×450	990×730×450	1110×910×460	1110×1200×460	1110×1527×460	1110×1527×460
	Net/Gross weight	kg	45/49	51/57	70/80	85/95	103/109	103/109
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A
	Charged volume	kg	1.30	1.70	2.80	3.20	3.78	3.95
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ6.35/Φ12.7(1/4/1/2)	Φ9.52/Φ15.88(3/8/5/8)	Φ9.52/Φ19.05(3/8/3/4)	Φ9.52/Φ19.05(3/8/3/4)	Φ9.52/Φ19.05(3/8/3/4)	Φ9.52/Φ19.05(3/8/3/4)
	Max. pipe length	m	30	30	50	50	50	50
	Max. difference in level	m	15	15	30	30	30	30
	Annual energy consumption(cooling)	kWh/a	267	426	605	668	838	917
Annual energy consumption(heating)			kWh/a	1,647	2,205	3,173	3,683	4,474
Ambient temperature	Cooling	°C	-15~48	-15~48	-15~48	-15~48	-15~48	-15~48
	Heating	°C	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24
Qty*per 20' /40' /40"HQ (Outdoor unit)			Set	90/186/186	90/186/186	52/106/106	26/53/106	26/53/53

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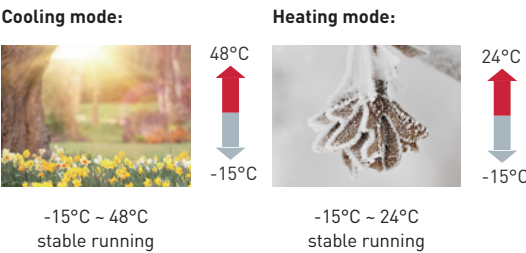
Product Features

General



Wide Ambient Temperature Range

High cooling and heating performance at wide ambient temperature range.



Refrigerant Leakage Detection

Indoor unit will stop operation automatically and show error code when the refrigerant charging amount is lower than 30%, which can avoid the compressor being damaged by high temperature due to refrigerant leakage. When the refrigerant charging amount is between 30%~80%, the unit will judge itself if error code is necessary. This feature can also better ensure the heat transfer efficiency and the safety of the unit.

IDU Features

Cassette Type



IR receiver for Remote Controller

Reserved port for Remote sensing which makes control more convenient.



Washable Filter

Washable filter allows for convenience service and maintenance.



4-Way Airflow

Front air deflectors are adjustable for horizontal or vertical airflow. Smooth airflow can be directed to air condition the whole room or even a particular point for better comfort.



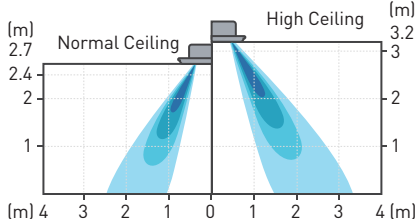
Fresh Air Inlet

Fresh air outside can be led into the room, which keeps room air fresh and ventilated. It's about 15m³/h.



Temperature compensation

Cassette bring temperature compensation setting by wired controller. This function can revise this temperature difference to make a more accurate temperature control.

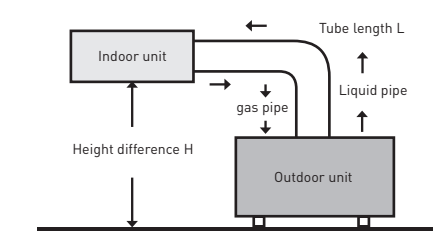


Ducted Type



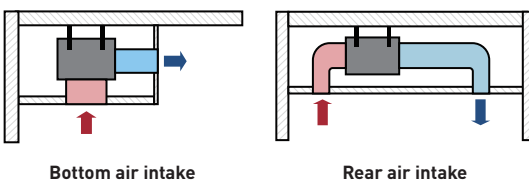
Long piping and Large Height Difference

Up to 50m piping run and 30m height applications can be covered, high flexibility in installation configuration.



Flexible air return from bottom or rear

Depending on different installation circumstances, the installation will be highly flexible.

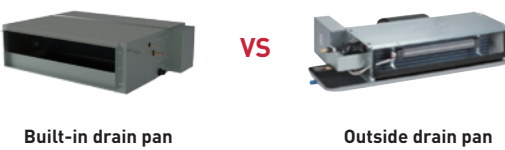


These two kinds of design (straight blow & external ducted), without changing equipment, just adjust the ESP setting.



Built-in drain pan

Compared with outside drain pan design, the new built-in drain pan can reduce the dust adhesion, and avoid water leakage.



Wide ESP range

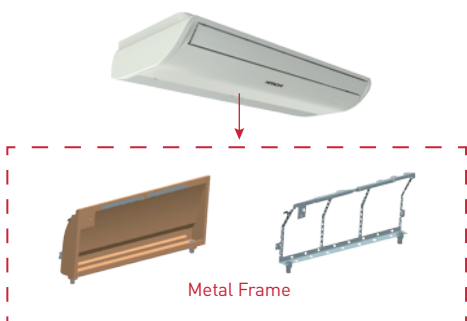
Optional wide static pressure range for long ducting and multi-zone applications, more flexible and convenient in installation.

Floor Ceiling Type



Metal frame of drain pan

The drain pan adopts integrated design with high strength of steel and foaming PS, which can effectively enhance the durability of drain pan and improve the thermal insulation and anti-condensation function of the unit.



Installation Flexibility

Fresh air inlet

Allow fresh air intake to improve indoor ventilation and air quality.



Installation on Floor or Ceiling

Floor installation and ceiling suspended installation allows users great flexibility to choose most optimized configuration for air conditioning needs.



Installation on Floor

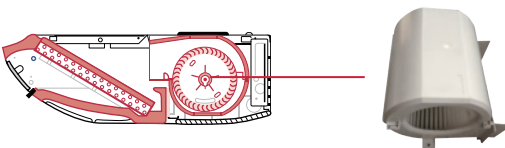


Installation on Ceiling



Plastic Fan housing

Plastic fan housing can reduce the noise level effectively.



Plastic Fan housing

Specification (Ducted)

IDU		RPIL-1.0UNE1NH	RPIL-1.5UNE1NH	RPIM-2.0UNE1NH	RPIM-3.0UNE1NH	RPIM-4.0UNE1NH	RPIH-5.0UNE1NH	RPIH-6.0UNE1NH	RPIH-6.5UNE1NH
ODU		RAS-1.0UNESNH1	RAS-1.5UNESNH1	RAS-2.0UNESNH1	RAS-3.0UNESNH1	RAS-4.0UNESNH1	RAS-5.0UNESNH1	RAS-6.0UNESNH1	RAS-6.5UNESNH1
Power supply		220~240/1/50						380~415/3/50	
Max.input consumption	W	1,140	1,800	2,460	4,100	5,100	6,400	7,000	7,800
Max.input current	A	7.8	8.1	11.1	18.1	22.5	11.6	12.0	13.1
Average	Pdesignc	kW	2.610	3.520	5.280	6.800	10.100	12.026	15.760
	SEER	W/W	6.15	6.45	6.11	6.17	6.23	5.71	6.08
	Energy Efficiency Class		A+	A++	A+	A++	A++	A+	A+
	Pdesignh	kW	2.200	3.520	4.800	5.620	8.650	9.930	12.400
	SCOP	W/W	4.01	4.01	4.01	3.85	3.79	3.77	3.78
Cooling	Capacity	Btu/h	9,180	12,000	18,225	23,202	34,461	41,033	53,773
	Capacity	kW	2.7	3.5	5.3	6.8	10.1	12.0	15.8
	Input	W	780	999	1,653	2,230	3,311	4,295	6,062
	Current	A	3.6	4.4	7.6	9.7	16.5	7.4	7.5
	EER	W/W	3.45	3.52	3.23	3.05	3.05	2.80	3.02
Heating	Capacity	Btu/h	9,180	12,600	20,511	27,100	39,067	47,768	63,000
	Capacity	kW	2.7	3.7	6.0	7.9	11.5	14.0	18.5
	Input	W	700	945	1,720	2,370	3,400	4,100	4,900
	Current	A	3.0	4.2	7.9	10.5	15.2	7.5	7.7
	COP	W/W	3.91	3.91	3.49	3.46	3.38	3.41	3.42
Indoor fan motor	Qty		1	1	1	1	1	1	1
	Input	W	40	40	40	95	250	250	250
	Capacitor	μF	/	/	2	/	/	/	/
	Speed(Hi/Med/Lo)	r/min	770/640/540	880/740/610	1130/950/850	890/790/690	800/700/600	910/810/710	1100/1000/900
Indoor air flow Rate (Hi/Med/Lo)		m³/h	500/400/320	575/484/400	900/840/730	1100/976/852	1450/1250/1050	1750/1500/1300	2400/2200/1900
Indoor noise level (Hi/Med/Lo)		dB(A)	32/28/25	36/34/29	43/41/38	44/41/38	46/42/49	51/47/44	55/52/50
Indoor noise level (Sound Power)		dB(A)	46	50	57	58	62	67	70
ESP	Rated	Pa	25	25	25	25	37	50	50
	Range	Pa	0~50	0~50	10/30	0~80	0~120	0~120	0~120
Indoor unit	Dimension(W×H×D)	mm	900×190×447	900×190×447	1170×190×447	900×270×720	1300×350×800	1300×350×800	1300×350×800
	Packing(W×H×D)	mm	1070×236×580	1070×236×580	1340×236×580	1170×340×870	1550×410×940	1550×410×940	1550×410×940
	Net/Gross weight	kg	19/23.5	19/23.5	24/29	32/37	51/60	51/60	51/60
	Drainage water pipe diameter	mm	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32
Controller		Wired controller							
Operation temperature		°C	16~30						
Compressor	Qty' per 20'/40'/40'HQ (Indoor unit)	Set	200/440/484	200/440/484	160/340/374	84/182/182	35/75/90	35/75/90	35/75/90
	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Rated current(RLA)	A	2.95	5.70	8.10	8.90	5.10	5.10	13.20
	Refrigerant oil	ml	α68HES-H/320	ESTER OIL VG74/370	ESTEL OIL VG74/500	POE VG74/670	POE VG74/1000	POE VG74/1000	α68HES-H or equivalent /1650
Outdoor fan motor	Qty		1	1	1	1	1	2	2
	Input	W	30	30	61	61	121	138	121
	Speed	r/min	820	880	840	880	830	850	810
	Outdoor noise level (Sound pressure)	dB(A)	52	48	53	53	55	58	53
Outdoor noise level (Sound power)		dB(A)	65	62	65	68	70	74	69
Throttle type			EEV	EEV	EEV	EEV	EEV	EEV	EEV
Outdoor unit	Dimension(W×H×D)	mm	730×536×260	810×585×280	860×670×310	860×670×310	950×840×340	950×1050×340	950×1386×340
	Packing(W×H×D)	mm	860×600×400	940×640×420	990×730×450	990×730×450	1110×910×460	1110×1200×460	1110×1527×460
	Net/Gross weight	kg	31/34	34/38.5	45/49	51/57	70/80	85/95	103/109
	Refrigerant	Type/Charge	R410A/0.83	R410A/1.05	R410A/1.30	R410A/1.70	R410A/2.80	R410A/3.20	R410A/3.78
Refrigerant piping	Liquid side/Gas side	mm(inch)	Φ6.35/Φ9.52 (1/4/3/8)	Φ6.35/Φ9.52 (1/4/3/8)	Φ6.35/Φ12.7 (1/4/1/2)	Φ9.52/Φ15.88 (3/8/5/8)	Φ9.52/Φ19.05 (3/8/3/4)	Φ9.52/Φ19.05 (3/8/3/4)	Φ9.52/Φ19.05 (3/8/3/4)
	Max.pipe length	m	25	25	30	30	50	50	50
	Max.difference in level	m	10	10	15	15	30	30	30
	Annual energy consumption(cooling)	kWh/a	157	195	316	412	587	694	831
Annual energy consumption(heating)		kWh/a	818	1250	1778	2156	3304	3699	4338
Ambient temperature	Cooling	°C	-15~48	-15~48	-15~48	-15~48	-15~48	-15~48	-15~48
	Heating	°C	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24
Qty' per 20'/40'/40'HQ (Outdoor unit)		Set	102/213/292	102/204/272	90/186/186	90/186/186	52/106/106	26/53/106	26/53/53

Nominal testing conditions:
Cooling - Indoor 80.6°F DB / 66.2°F WB [27°C DB / 19°C WB] & Outdoor 95°F DB / 75.2°F WB [35°C DB / 24°C WB]
Heating - Indoor 68°F DB / 59°F WB [20°C DB / 15°C WB] & Outdoor 44.6°F DB / 42.8°F WB [7°C DB / 6°C WB]