

Specification (Cassette)

IDU			RCI-1.0UNZ1NH	RCI-1.5UNZ1NH	RCI-2.0UNZ1NH	RCI-3.0UNZ1NH	RCI-4.0UNZ1NH	RCI-6.0UNZ1NH	RCI-6.5UNZ1NH
ODU			RAS-1.0UNZGNH1	RAS-1.5UNZGNH1	RAS-2.0UNZGNH1	RAS-3.0UNZGNH1	RAS-4.0UNZGMH1	RAS-6.0UNZGMH1	RAS-6.5UNZGMH1
Power supply		V/Ph/Hz	220~240/1/50				380~415/3/50		
Max. input consumption		W	1,800	1,800	2,355	3,254	4,368	6,200	8,234
Max. input current		A	10.0	10.0	10.5	15.5	9.1	11.8	16.6
Cooling	Capacity	Btu/h	10,230	11,500	15,860	23,300	34,310	42,670	52,000
	Capacity	W	2,998	3,370	4,648	6,829	10,056	12,506	15,240
	Input	W	1,052	1,127	1,761	2,519	3,566	4,581	5,583
	Current	A	6.2	6.2	7.5	10.5	6.9	8.9	10.0
	EER	W/W	2.85	2.99	2.64	2.81	2.82	2.73	2.73
Heating	Capacity	Btu/h	10,570	12,220	19,070	25,640	38,240	46,670	54,840
	Capacity	W	3,098	3,549	5,589	7,515	11,208	13,678	16,073
	Input	W	908	987	1,689	2,204	3,131	4,485	5,700
	Current	A	5.6	5.6	7.0	9.7	6.4	9.3	10.3
	COP	W/W	3.41	3.63	3.31	3.41	3.58	3.05	2.82
Indoor fan motor	Qty		1	1	1	1	1	1	1
	Input	W	39	39	69	88	165	174	174
	Capacitor	µF	1.5	1.5	2.0	3.0	5.0	4.0	4.0
	Speed(Hi/Med/Lo)	r/min	700/600/500	700/600/500	980/840/720	450/390/270	625/550/480	640/550/450	640/550/450
Indoor air flow Rated(Hi/Med/Lo)		m ³ /h	600/510/430	600/510/430	800/700/600	1100/1000/900	1600/1400/1200	2000/1800/1600	2000/1800/1600
Indoor air flow Rated(Hi/Med/Lo)		CFM	353/300/253	353/300/253	470/412/353	647/588/529	941/823/705	1176/1058/941	1176/1058/941
Indoor noise level (Hi/Med/Lo)		dB(A)	42/40/36	42/40/36	46/44/42	43/41/38	53/50/48	50/45/42	50/45/42
Indoor unit	Dimension (WxHxD)	mm	650×270×570	650×270×570	650×270×570	840×248×840	840×248×840	840×298×840	840×298×840
	Packing(WxHxD)	mm	770×310×750	770×310×750	770×310×750	996×370×956	996×370×956	996×420×956	996×420×956
	Net/Gross weight	kg	19/25	19/25	20/27	28/35	30/39	33/42	33/42
Drainage water pipe diameter (ID)		mm	IDØ21	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	147/315/384	72/144/168	72/144/168	60/120/144	60/120/144
Compressor	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	Scroll
	Rated current(RLA)	A	4.1	4.1	7.2	11.4	5.9	7.8	9.2
	Refrigerant oil	ml	VG74 /350	VG74 /350	ATMOS-RB68EP/600	α68HES-H/570	α68HES-H/2600	α68HES-H/1600	α68HES-H/1600
Outdoor fan motor	Qty		1	1	1	1	1	2	2
	Input	W	25	25	41	118	160	74	145
	Speed	r/min	850	850	910	880/830/540	880/740/660	900/800/700	700/600/500
Outdoor noise level(Sound Pressure)		dB(A)	55	55	54	56	62	55	58
Throttle type			Throttle Valve	Throttle Valve	Throttle Valve	Throttle Valve	Capillary	Capillary	Capillary
Outdoor unit	Dimension(WxDxH)	mm	715×482×240	715×482×240	810×280×585	860×665×310	885×795×366	950×1050×340	950×1386×340
	Packing(WxDxH)	mm	830×530×315	830×530×315	940×420×640	990×730×450	1050×890×500	1110×1200×460	1110×1530×460
	Net/Gross weight	kg	28/30	28/30	42/45	51/56	67/71	96/103	106/116
Refrigerant	Type		R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
	Charged volume	kg	0.85	0.85	1.30	1.58	2.60	2.40	3.10
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Φ6.35/Φ12.7 (1/4"/1/2")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ6.35/Φ12.7 (1/4"/1/2")	Φ9.52/Φ15.88 (3/8"/5/8")	Φ9.52/Φ19 (3/8"/3/4")	Φ9.52/Φ19.05 (3/8"/3/4")	Φ9.52/Φ19.05 (3/8"/3/4")
	Max. pipe length	m	15	15	20	30	30	50	50
	Max. difference in level	m	7.5	7.5	15	15	20	30	30
Ambient temperature	Cooling	°C	15~43	15~43	-15~43	-15~43	-15~43	-15~43	-15~43
	Heating	°C	-10~24	-10~24	-10~24	-10~24	-10~24	-10~24	-10~24
Qty' per 20' /40' /40'HQ (Outdoor unit)		Set	204/412/520	204/412/520	102/204/272	90/186/186	44/92/96	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]

Specification (Floor Ceiling)

IDU			RPFC-2.0UNZ1NH	RPFC-3.0UNZ1NH	RPFC-4.0UNZ1NH	RPFC-6.0UNZ1NH	RPFC-6.5UNZ1NH
ODU			RAS-2.0UNZGNH1	RAS-3.0UNZGNH1	RAS-4.0UNZGMH1	RAS-6.0UNZGMH1	RAS-6.5UNZGMH1
Power supply		V/Ph/Hz	220~240/1/50			380~415/3/50	
Max. input consumption		W	2,405	3,255	4,272	6,479	8,234
Max. input current		A	11.0	15.5	8.9	12.1	16.6
Cooling	Capacity	Btu/h	16,000	22,300	32,920	43,910	49,860
	Capacity	W	4,689	6,536	9,648	12,869	14,613
	Input	W	1,790	2,430	3,483	4,564	5,412
	Current	A	7.5	10.2	7.1	8.8	10.0
	EER	W/W	2.62	2.69	2.77	2.82	2.70
Heating	Capacity	Btu/h	18,050	24,530	38,070	46,340	56,020
	Capacity	W	5,290	7,189	11,158	13,581	16,419
	Input	W	1,876	2,514	3,311	4,312	5,681
	Current	A	7.7	10.3	6.4	8.6	10.3
	COP	W/W	2.82	2.86	3.37	3.15	2.89
Indoor fan motor	Qty		1	1	1	1	1
	Input	W	73	175	229	243	243
	Speed(Hi/Med/Lo)	r/min	850/720/630	1280/1100/920	1260/1130/1000	1200/1100/1000	1200/1100/1000
Indoor air flow Rated(Hi/Med/Lo)		m ³ /h	800/700/600	800/700/600	1800/1650/1500	2000/1800/1600	2000/1800/1600
Indoor air flow Rated(Hi/Med/Lo)		CFM	470/412/353	470/412/353	1059/971/882	1176/1058/941	1176/1058/941
Indoor noise level (Hi/Med/Lo)		dB(A)	41/38/36	56/53/50	58/54/52	53/52/50	53/52/50
Indoor unit	Dimension (WxHxD)	mm	990×680×230	990×680×230	1285×680×230	1580×680×230	1580×680×230
	Packing(WxHxD)	mm	1100×820×350	1100×820×350	1400×820×350	1690×820×350	1690×820×350
	Net/Gross weight	kg	28/33	28/33	37/44	46/54	46/54
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	66/132/154	42/84/98	42/84/98
Compressor	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Rated current(RLA)	A	7.2	11.4	5.9	7.8	9.2
	Refrigerant oil	ml	ATMOS-RB68EP/600	α68HES-H/570	α68HES-H/2600	α68HES-H/1600	α68HES-H/1600
Outdoor fan motor	Qty		1	1	1	2	2
	Input	W	41	118	160	74	145
	Speed	r/min	910	880/830/540	880/740/660	900/800/700	700/600/500
Outdoor noise level(Sound Pressure)		dB(A)	53	55	59	55	58
Throttle type			Throttle Valve	Throttle Valve	Throttle Valve	Capillary	Capillary
Outdoor unit	Dimension(WxDxH)	mm	810×280×585	860×665×310	885×795×366	950×1050×340	950×1386×340
	Packing(WxDxH)	mm	940×420×640	990×740×450	1050×900×510	1110×1200×460	1110×1530×460
	Net/Gross weight	kg	42/45	48/54	64/72	96/103	106/116
Refrigerant	Type		R-410A	R-410A	R-410A	R-410A	R-410A
	Charged volume	kg	1.30	1.58	2.60	2.40	3.10
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(3/8"/3/4")	Φ9.52/Φ19.05(3/8"/3/4")	Φ9.52/Φ19.05(3/8"/3/4")
	Max. pipe length	m	20	30	30	50	50
	Max. difference in level	m	15	15	20	30	30
Ambient temperature	Cooling	°C	-15~43	-15~43	-15~43	-15~43	-15~43
	Heating	°C	-10~24	-10~24	-10~24	-10~24	-10~24
Qty' per 20' /40' /40'HQ (Outdoor unit)		Set	102/204/272	90/186/186	44/92/96	26/53/106	26/53/53

Johnson Controls - Hitachi Air Conditioning

New Pier Takeshiba South Tower

1-16-1, Kaigan Minato-ku, Tokyo 105-0022, JAPAN

Tel: +81-3-6721-5567

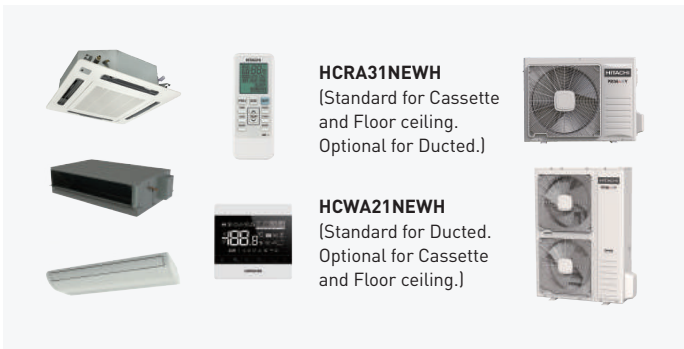
www.jci-hitachi.com

UNZGN(M)H1-L-1709-1



LIGHT COMMERCIAL SYSTEM

FIXED SPEED 2.6-2.8 HEAT PUMP



Product Features

General

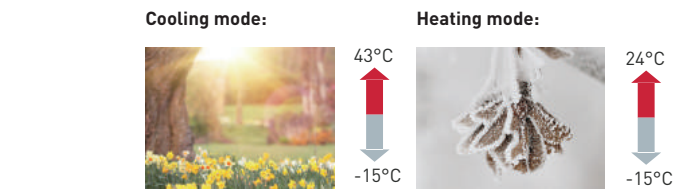
Hydrophilic Aluminium Fin

Hydrophilic aluminum fin enhances heat exchanging performance by increasing water wettability on fin surface and preventing water droplet from forming blockage between fins. Blue coating enhances protection from corrosion resulting from environmental and microbiological factors, increasing reliability and ensuring performance.



Wide ambient temperature range

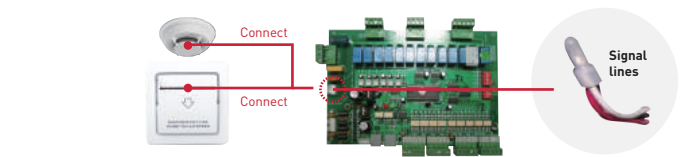
High cooling performance even at high ambient temperature.



Stronger cooling capability at high ambient temperature.

Expansion Interface

Enable connection to smoke detector, key slot, etc.



IDU Features

Cassette Type

IR receiver for remote controller

Reserved port for Remote sensing which makes control more convenient.

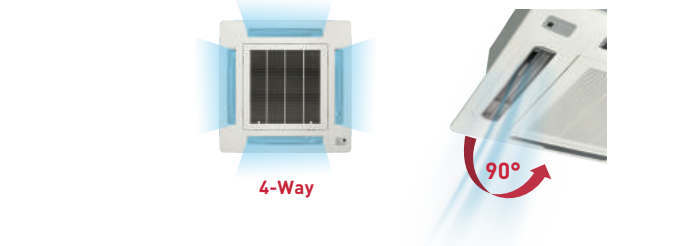


Washable Filter

Washable filter allows for convenience service and maintenance.

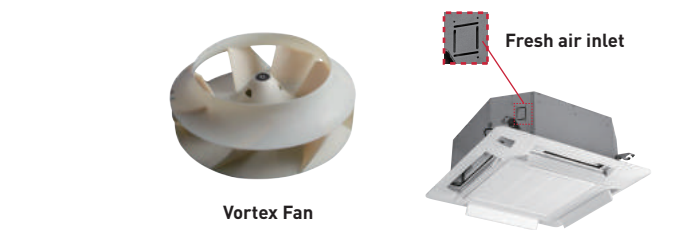
4-Way Airflow

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.



Low Noise Vortex Fan & Fresh Air Inlet

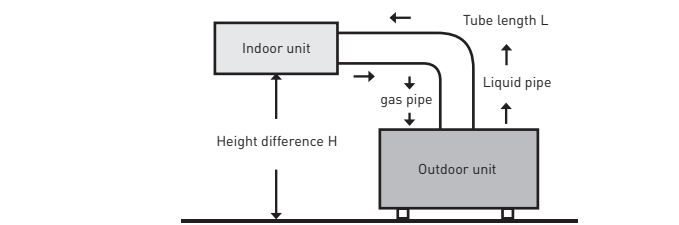
Incorporating with vortex fan technology, these units fit neatly into the ceiling and distribute conditioned air through 4 sides of the unit. Streamline design of vortex fan blades improved air flow while reduces noise. Fresh air outside can be led into the room, which keeps room air fresh and ventilated. It's about 15m³/h. (Optional function to build fresh air plenum.)



Ducted Type

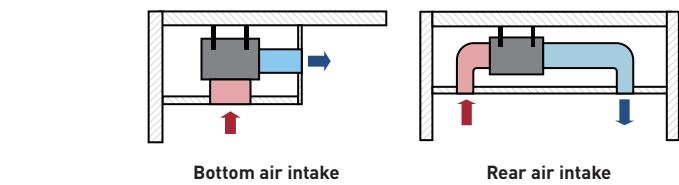
Long piping and Large Height Difference

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



Flexible air return from bottom or rear

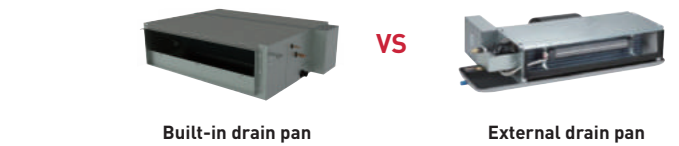
Depending on different installation circumstances, the installation will be highly flexible.



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

Built-in drain pan

Built-in drain pump can pump condensation to a high level, which facilitates draining condensation from indoor unit and makes installation easier. Compared with outside drain pan design, the new built-in drain pan can reduce the dust adhesion, and avoid water leakage.



Durable Protection Drainage System

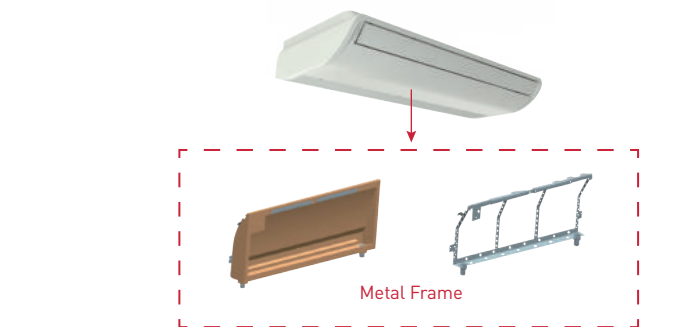
The special design of drain pan makes condensation water flow smoothly without water leakage, also anti-rust.

PRIMARY

Floor Ceiling Type

Metal Frame Reinforcement

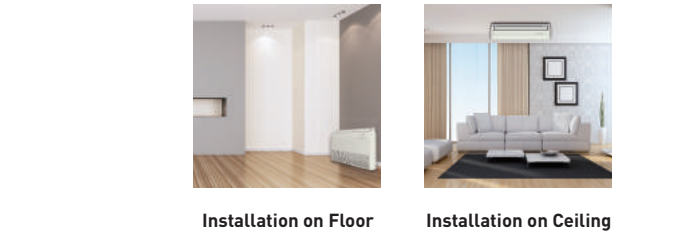
The metal frame structure installed within the drain pan base greatly reinforces the structural durability and stability, increasing reliability in robust handling.



Installation Flexibility

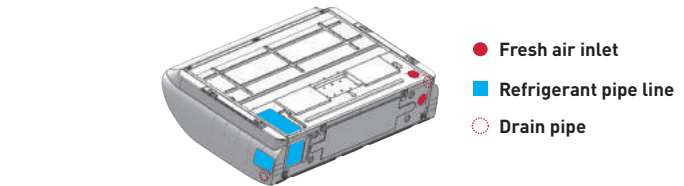
Installation on Floor or Ceiling

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



Dual Drain pipe

Both right and left sides are possible for drainage hose connection, easy for installation. There are 3 choices for refrigerant piping direction, to avoid the inconvenience caused by space limit.



Fresh air inlet

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

Specification (Ducted)

IDU		RPIL-1.0UNZ1NH	RPIL-1.5UNZ1NH	RPIL-2.0UNZ1NH	RPIM-3.0UNZ1NH	RPIM-4.0UNZ1NH	RPIH-6.0UNZ1NH	RPIH-6.5UNZ1NH
ODU		RAS-1.0UNZGNH1	RAS-1.5UNZGNH1	RAS-2.0UNZGNH1	RAS-3.0UNZGNH1	RAS-4.0UNZGMH1	RAS-6.0UNZGMH1	RAS-6.5UNZGMH1
Power supply		220~240/1/50					380~415/3/50	
Max.input consumption		W	1,800	1,800	2,460	3,250	4,321	8,234
Max.input current		A	10.0	10.0	10.2	15.5	9.0	16.6
Cooling	Capacity	Btu/h	10,200	11,180	15,990	23,300	35,000	44,740
	Capacity	W	2,989	3,277	4,686	6,829	10,258	13,113
	Input	W	1,076	1,162	1,775	2,439	3,703	4,967
	Current	A	5.1	5.1	7.5	10.2	6.9	8.8
	EER	W/W	2.78	2.82	2.64	2.80	2.77	2.64
Heating	Capacity	Btu/h	10,500	12,100	18,400	26,300	37,700	47,500
	Capacity	W	3,077	3,456	5,393	7,708	11,049	16,530
	Input	W	1,058	1,049	1,757	2,343	3,139	4,323
	Current	A	4.8	4.8	7.3	9.6	6.6	8.6
	COP	W/W	2.91	3.38	3.07	3.29	3.52	3.22
Indoor fan motor	Qty		1	1	1	1	1	1
	Input	W	70	70	83	226	209	558
	Capacitor	μF	3.0	3.0	2.5	6.0	10.0	10.0
	Speed(Hi/Med/L0)	r/min	955/700/655	955/700/655	1280/1130/1070	910/830/730	917/821/787	1000/900/830
Indoor air flow Rated (Hi/Med/L0)		m³/h	650/470/450	650/470/450	750/670/630	1250/1000/900	1800/1650/1500	2000/1800/1600
Indoor noise level (Hi/Med/L0)		dB(A)	34/29/28	34/31/29	38/36/35	42/40/38	40/38/37	46/44/42
ESP	Rated	Pa	10	10	10	50	50	80
	Range	Pa	10/30	10/30	10/30	50/80	50/80	80/120
Indoor unit	Dimension(W×H×D)	mm	900×190×447	900×190×447	900×190×447	900×270×720	1300×350×800	1300×350×800
	Packing(W×H×D)	mm	1110×460×910	1110×460×910	1070×236×580	1170×340×870	1550×410×940	1550×410×940
	Net/Gross weight	kg	19/25	19/25	19/25	30/35	54/62	54/62
Drainage water pipe diameter (OD)		mm	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32	ODΦ32
Controller		Wired controller						
Operation temperature		°C	16~30					
Qty'per 20'/40'/40'HQ (Indoor unit)		Set	200/440/484	200/440/484	200/440/484	84/182/182	35/75/90	35/75/90
Compressor	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Rated current(RLA)	A	4.1	4.1	7.2	11.4	5.9	9.2
	Refrigerant oil	ml	VG74 /350	VG74 /350	ATMOS-RB68EP/600	ø68HES-H/570	ø68HES-H/2600	ø68HES-H/1600
Outdoor fan motor	Qty		1	1	1	1	1	2
	Input	W	25	25	41	118	160	145
	Speed	r/min	850	850	910	880/830/540	880/740/660	900/800/700
Outdoor noise level (Sound pressure)		dB(A)	55	55	54	56	62	55
Throttle	Type		Throttle Valve	Throttle Valve	Throttle Valve	Throttle Valve	Capillary	Capillary
	Dimension(W×H×D)	mm	715×482×240	715×482×240	810×280×585	860×665×310	885×795×366	950×1050×340
	Packing(W×H×D)	mm	830×530×315	830×530×315	940×420×640	990×730×450	1050×890×500	1110×1200×460
Outdoor unit	Net/Gross weight	kg	28/30	28/30	42/45	51/56	67/71	96/103
	Type/Charge	kg	R-410A/0.85	R-410A/0.85	R-410A/1.30	R-410A/1.58	R-410A/2.60	R-410A/2.40
	Liquid side/Gas side	mm(inch)	Φ6.35/Φ12.7 [1/4"/1/2"]	Φ6.35/Φ12.7 [1/4"/1/2"]	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[3/8"] /Φ19.05[3/4"]
Refrigerant piping	Max.pipe length	m	15	15	20	30	30	50
	Max.difference in level	m	7.5	7.5	15	15	20	30
	Cooling	°C	15~43	15~43	-15~43	-15~43	-15~43	-15~43
Ambient temperature	Heating	°C	-10~24	-10~24	-10~24	-10~24	-10~24	-10~24
	Qty'per 20'/40'/40'HQ (Outdoor unit)	Set	204/412/520	204/412/520	102/204/272	90/186/186	44/92/96	26/53/106

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]