

Job Name	
Order No.	

# HITACHI

<b>Submittal Data Sheet</b>	RAM-G18N2HAA
2 Port, 18,000 Btu/hr Outdoor Heat Pump	



### Performance

Cooling(Btu/hr)	
Rated	18000
Operating Range	14°F~115°F

**Rated Heating Conditions:** Indoor: 80°F DB/67°F WB  
Outdoor: 95°F DB/75°F WB

Heating(Btu/hr)	
Rated	22000
Operating Range	-4°F~75°F

**Rated Heating Conditions:** Indoor: 70°F DB/60°F WB  
Outdoor: 47°F DB/43°F WB

Electrical		
	208/60/1	230/60/1
System MCA	16	16
System MFA	25	25
Compressor RLA	6.65	6.65
Outdoor fan motor FLA	2.0	2.0
Outdoor fan motor W	47	47

**MFA:** Max. fuse amps    **MCA:** Min. circuit amps (A)    **FLA:** Full load amps (A)  
**RLA:** Rated load amps (A)    **W:** Fan motor rated output (W)

### Piping

Liquid (in)	1/4
Gas (in)	3/8
Drain (in)	0.63
Max. System Piping Length (ft)	165
Max. Interunit Piping Length (ft)	82
Max. Height Difference – IDU to ODU (ft)	66
Max. Height Difference – IDU to IDU (ft)	16
Chargeless (ft)	99
Additional Charge of Refrigerant (oz/ft)	0.05

### Outdoor Specifications

Compressor	2-cylinder rotary	
Refrigerant	R32	
Factory Charge (oz)	54.67	
Refrigerant Oil	ACS-68R	
Airflow Rate (cfm)	Cooling 1273	Heating 1273
Sound Pressure Level (dBA)	Cooling 50	Heating 52
Dimensions (W × H × D) (in)	33.5 × 31.5 × 11.75	
Weight (lbs)	108	

### Efficiency

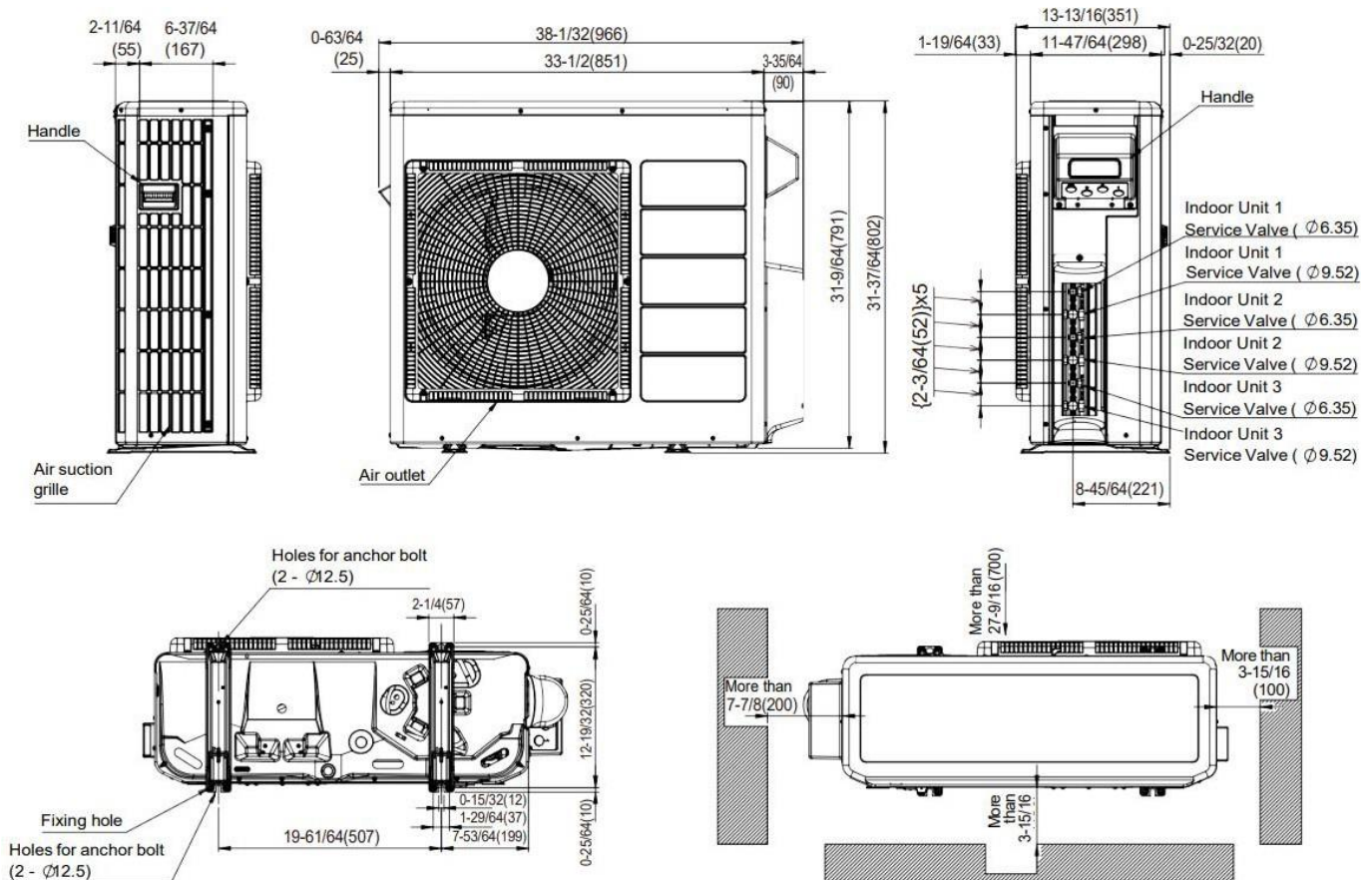
	SEER2	EER2	HSPF2	COP
<b>Non -Ducted</b>	23	12.5	10	3.3
<b>Ducted</b>	18	12	9.5	3.4

Recommended cable between Outdoor and Indoor 14AWG - 18AWG 4 conductors stranded copper wire and Power wiring cable size must comply with applicable national and local codes.

<b>Optional Accessories</b>	
<b>Description</b>	<b>Part Number</b>
H-link adapter ODU	SPX-RAMHLK(ODU)
Condenser Stand	DL87743
Condenser wall bracket	DL87733
Demand Response Kit	SPX-DRFM
5-Wire Thermostat / Wi-Fi / BACnet/Modbus Adapter	C1STAT01

## Dimensional Data:

### Outdoor Unit:



## Capacity Tables:

### Non- Ducted, 60 Hz, 208-230V

(Reference value)

POSSIBLE COMBINATIONS TO OPERATE(Btu)			COOLING					HEATING				
			CAPACITY RATING(Btu) (RANGE)		OUTDOOR UNIT		EER	CAPACITY RATING(Btu) (RANGE)		OUTDOOR UNIT		COP
					POWER CONSUMPTION (W)	AMPERE(A)				POWER CONSUMPTION (W)	AMPERE(A)	
			TOTAL	208 - 230 V	TOTAL	208 - 230 V						
ONE UNIT	7k	7k	7000 (3050~8500)	7000	750 (460~900)	3.61	9.33	9000 (3050~10900)	9000	850 (460~1450)	4.09	10.59
	9k	9k	9000 (3050~10200)	9000	820 (460~1000)	3.94	10.98	11600 (3050~15000)	11600	1100 (460~1600)	5.29	10.55
	12k	12k	12000 (3050~13650)	12000	980 (460~1100)	4.71	12.24	15350 (3050~18000)	15350	1250 (460~1700)	6.01	12.28
TWO UNIT	14k	7k+7k	7000+7000 (7000~18000)	14000	1220 (460~1600)	6.01	11.48	9000+9000 (9000~21000)	18000	1250 (460~1900)	6.01	14.40
	16k	7k+9k	7000+9000 (7000~18700)	16000	1330 (460~1800)	6.39	12.03	9000+11600 (9000~23000)	20600	1400 (460~2000)	6.73	14.71
	19k	7k+12k	7000+11000 (7000~19800)	18000	1510 (460~2100)	7.26	11.92	8100+13900 (9000~24500)	22000	2050 (460~2100)	9.86	10.73
	18k	9k+9k	9000+9000 (7000~19400)	18000	1440 (460~2000)	6.92	12.50	11000+11000 (9000~24500)	22000	1950 (460~2100)	9.38	11.28
	21k	9k+12k	7650+10350 (7000~21000)	18000	1600 (460~2200)	7.69	11.25	9500+12500 (9000~24500)	22000	2100 (460~2100)	10.10	10.48
	24k	12k+12k	9000+9000 (7000~21000)	18000	1700 (460~2200)	8.17	10.59	11000+11000 (9000~24500)	22000	2100 (460~2100)	10.10	10.48

#### NOTICE

As indicated in the above table:

- One unit is only for 1-unit operation when two indoor units are connected.
- Two units are only for 2-unit operation when two indoor units are connected.
- Total nominal cooling capacity should not be more than 12K Btu.