TECHNICAL CATALOGUE

Cooling & Heating

HITACHI

MULTIZONE

OUTDOOR UNIT

RAM-G42N5HAA

INDOOR

RAK-DJ07QHAA
RAK-DJ(09-24)RHAA
RAK-GJ(07-24)QHAA
RAF-FJ(07-18)QHAA
RAI-GJ(07-24)QHAA
RAD-GJ(07-24)QHAA

HITACHI

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1 SPECIFICATIONS

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1.1. MULTIZONE INDOOR

1.1.1. WALL TYPE (RAK-DJ07QHAA/RAK-DJ09RHAA/RAK-DJ12RHAA)

INDOOR	Unit	RAK-DJ07QHAA	RAK-DJ09RHAA	RAK-DJ12RHAA
Nominal capacity adjustable		no	no	no
Nominal Cooling capacity (min - max)	BTU	7000(3050-9000)	9000(5450~10500)	12000(5500~13200)
Cooling sensible capacity	BTU	-	-	-
Nominal Heating capacity (min - max)	BTU	9000(3050-10900)	10500(4200~11500)	13000(4400~14500)
Noise level cooling (sound pressure)(S/L/M/H/HIHI)	dB(A)	29/36/40/42/44	29/36/40/42/44	29/36/40/44/46
Noise level heating (sound pressure)(S/L/M/H/HIHI)	dB(A)	29/36/40/42/44	29/36/40/42/44	29/36/40/44/46
Noise level (sound power) *match with Fiche/ Eurovent/Product Info	dB(A)	56	56	58
Air flow cooling mode (SL / L / M / H / HIHI)	cfm (m³/h)	110/150/180/250/260	110/150/180/250/260	140/190/230/280/290
Air flow heating mode (SL / L / M / H / HIHI)	cfm (m³/h)	130/180/210/230/310	110/150/180/250/260	140/170/200/260/280
Fan Motor	W	38	38	38
Dehumidification	l/h	1.0	1.4	1.6
Included drain pump *for RAI/RAD	yes/no	no	no	no
Max. height available for drain pump (RAD/RAI only)	in. (mm)	no	no	no
Drain pump pressure lift *for RAI/RAD	in. (mm)	no	no	no
Static pressure switch at High(L / M / H) *for RAD	Pa (m3/h)	no	no	no
Dimensions (H x W x D)	in. (mm)	30.71x11.02x8.74 (780x280x222)	30.71x11.02x8.74 (780x280x222)	30.71x11.02x8.74 (780x280x222)
Weight *must match with Packing data information	lbs. (kg)	21.5 (9.7)	21.5 (9.7)	21.5 (9.7)
Panel weight *for RAI	lbs. (kg)	-	-	-
Panel dimensions (H x W x D) *for RAI	in. (mm)	-	-	-
Colour (Munsell Code)				
Condensate Drain	in. (mm)	-	-	-
Panel reference		-	-	-
Color of the panel (RAL)		-	-	-
Running current (C/H) *for single split indoor&outdoor must be matched	A	-	-	-
Power supply	V	FROM OUTDOOR	FROM OUTDOOR	FROM OUTDOOR
Cable section (interconnection/*if power supply is connected to indoor)	mm²	0.8x 3+EARTH/-	0.8x 3+EARTH/-	0.8x 3+EARTH/-
Piping diameter (Liq / Gas)	Inch	1/4" / 3/8"	1/4" / 3/8"	1/4" / 3/8"
Drain diameter (ext)	in. (mm)	0.63(16)	0.63(16)	0.63(16)
Remote control (standard/optional) *	Standard	RC-AGU1EA0N	RC-AGU1EA0N	RC-AGU1EA0N
	Optional	-	-	-
Filter				
ACL Filter Standard (Material & Accessory code)		-	-	-
ACL Filter Standard Dimensions (H x W x D)	in. (mm)	-	-	-
ACL Filter Optional (Material - Accessory code)		-	-	-
Pre-filter Standard Material		Stainleš pre-filter	Stainleš pre-filter	Stainleš pre-filter
Pre-filter Optional (Material & Accessory code)		-	-	-

NOTE:

1. *Capacity and seasonal performance data (SEER /HSPF) are based on AHRI 210-240. The nominal heating and cooling capacity is the combined capacity of the HITACHI Split system (Indoor + Outdoor Unit).*

Operation Conditions		***Cooling***	***Heating***
Indoor Air Inlet Temperature	***dB***	*80 °F*	*70 °F*
	WB	*67 °F*	
Outdoor Air Inlet Temperature	***dB***	*95 °F*	*47 °F*
	WB		*43 °F*
***Piping Length**: 24-39/64ft (7.5m); **Piping Lift**: 0ft (0m)* ***dB**: Dry Bulb; **WB**: Wet Bulb*			

2. *The Sound Pressure Level is based on the following conditions:*
   - *2-5/8ft (0.8m) beneath indoor height center*
   - *3-9/32ft (1m) from Discharge grille*

   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

1.1.2. WALL TYPE (RAK-DJ18RHAA / RAK-DJ24RHAA)

INDOOR	Unit	RAK-DJ18RHAA	RAK-DJ24RHAA
Nominal capacity adjustable		no	no
Nominal Cooling capacity (min - max)	BTU	17600(5700~18600)	24000(8200~25200)
Cooling sensible capacity	BTU	-	-
Nominal Heating capacity (min - max)	BTU	19000(6700~20500)	25000(8300~26500)
Noise level cooling (sound pressure) (S/L/M/H/HIHI)	dB(A)	35/38/42/46/48	35/40/45/49/51
Noise level heating (sound pressure) (S/L/M/H/HIHI)	dB(A)	35/38/42/46/48	35/40/45/49/51
Noise level (sound power) *match with Fiche/ Eurovent/Product Info	dB(A)	62	65
Air flow cooling mode (SL / L / M / H / HIHI)	cfm (m³/h)	240/270/360/390/420	310/350/460/550/580
Air flow heating mode (SL / L / M / H / HIHI)	cfm (m³/h)	210/270/300/360/380	320/390/490/530/550
Fan Motor	W	30	38
Dehumidification	l/h	2.9	3.4
Included drain pump *for RAI/RAD	yes/no	no	no
Max. height available for drain pump (RAD/RAI only)	in. (mm)	no	no
Drain pump pressure lift *for RAI/RAD	in. (mm)	no	no
Static pressure switch at High(L / M / H) *for RAD	Pa (m3/h)	no	no
Dimensions (H x W x D)	in. (mm)	37.40x11.57x9.06 (950x294x230)	41.34x11.57x10.04 (1050x294x255)
Weight *must match with Packing data information	lbs. (kg)	27.6 (12.5)	30.9 (14.0)
Panel weight *for RAI	lbs. (kg)	-	-
Panel dimensions (H x W x D) *for RAI	in. (mm)	-	-
Colour (Munsell Code)			
Condensate Drain	in. (mm)	-	-
Panel reference		-	-
Color of the panel (RAL)		-	-
Running current (C/H) *for single split indoor&outdoor must be matched	A	-	-
Power supply	V	FROM OUTDOOR	FROM OUTDOOR
Cable section (interconnection/*if power supply is connected to indoor)	mm²	0.8x 3+EARTH/-	0.8x 3+EARTH/-
Piping diameter (Liq / Gas)	Inch	1/4" / 1/2"	1/4" / 5/8"
Drain diameter (ext)	in. (mm)	0.63(16)	0.63(16)
Remote control (standard/optional) *	Standard	RC-AGU1EA0N	RC-AGU1EA0N
	Optional	-	-
Filter			
ACL Filter Standard (Material & Accessory code)		-	-
ACL Filter Standard Dimensions (H x W x D)	in. (mm)	-	-
ACL Filter Optional (Material - Accessory code)		-	-
Pre-filter Standard Material		Stainless pre-filter	Stainless pre-filter
Pre-filter Optional (Material & Accessory code)		-	-

NOTE:

1. *Capacity and seasonal performance data (SEER /HSPF) are based on AHRI 210-240. The nominal heating and cooling capacity is the combined capacity of the HITACHI Split system (Indoor + Outdoor Unit).*

Operation Conditions		***Cooling***	***Heating***
Indoor Air Inlet Temperature	***dB***	*80 °F*	*70 °F*
	WB	*67 °F*	
Outdoor Air Inlet Temperature	***dB***	*95 °F*	*47 °F*
	WB		*43 °F*
***Piping Length**: 24-39/64ft (7.5m); **Piping Lift**: 0ft (0m)* ***dB**: Dry Bulb; **WB**: Wet Bulb*			

2. *The Sound Pressure Level is based on the following conditions:*
   - *2-5/8ft (0.8m) beneath indoor height center*
   - *3-9/32ft (1m) from Discharge grille*

   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

1.1.3. WALL TYPE (RAK-GJ07QHAA / RAK-GJ09QHAA /RAK-GJ12QHAA)

INDOOR	Unit	RAK-GJ07QHAA	RAK-GJ09QHAA	RAK-GJ12QHAA
Nominal capacity adjustable		no	no	no
Nominal Cooling capacity (min - max)	BTU	7000(3050-9000)	9000(5100~10500)	12000(5150~14000)
Cooling sensible capacity	BTU	-	-	-
Nominal Heating capacity (min - max)	BTU	9000(3050-10900)	11000(5450~15000)	14000(5500~18000)
Noise level cooling (sound pressure) (S/L/M/H/HIHI)	dB(A)	27/35/39/41/44	27/35/39/41/44	27/35/40/43/46
Noise level heating (sound pressure) (S/L/M/H/HIHI)	dB(A)	27/35/39/41/43	27/35/39/41/43	27/35/40/43/46
Noise level (sound power) *match with Fiche/ Eurovent/Product Info	dB(A)	57	57	60
Air flow cooling mode (SL / L / M / H / HIHI)	cfm (m³/h)	206/288/335/388/430	206/288/335/388/430	206/288/335/430/470
Air flow heating mode (SL / L / M / H /HIHI)	cfm (m³/h)	214/303/347/400/441	214/303/347/400/441	214/303/347/444/482
Fan Motor	W	30	30	30
Dehumidification	l/h	1.0	1.0	1.5
Included drain pump *for RAI/RAD	yes/no	no	no	no
Max. height available for drain pump (RAD/RAI only)	in. (mm)	no	no	no
Drain pump pressure lift *for RAI/RAD	in. (mm)	no	no	no
Static pressure switch at High(L / M / H) *for RAD	Pa (m3/h)	no	no	no
Dimensions (H x W x D)	in. (mm)	11-9/16 x 37-13/32 x 9-1/4 (294x950x235)	11-9/16 x 37-13/32 x 9-1/4 (294x950x235)	11-9/16 x 37-13/32 x 9-1/4 (294x950x235)
Weight *must match with Packing data information	lbs. (kg)	24 (11)	24 (11)	24 (11)
Panel weight *for RAI	lbs. (kg)	-	-	-
Panel dimensions (H x W x D) *for RAI	in. (mm)	-	-	-
Colour (Munsell Code)				
Condensate Drain	in. (mm)	-	-	-
Panel reference		-	-	-
Color of the panel (RAL)		-	-	-
Running current (C/H) *for single split indoor&outdoor must be matched	A	-	-	-
Power supply	V	FROM OUTDOOR	FROM OUTDOOR	FROM OUTDOOR
Cable section (interconnection/*if power supply is connected to indoor)	mm²	0.8x 3+EARTH/-	0.8x 3+EARTH/-	0.8x 3+EARTH/-
Piping diameter (Liq / Gas)	Inch	1/4" / 3/8"	1/4" / 3/8"	1/4" / 3/8"
Drain diameter (ext)	in. (mm)	0.63(16)	0.63(16)	0.63(16)
Remote control (standard/optional) *	Standard	RC-AGS1EA0N	RC-AGS1EA0N	RC-AGS1EA0N
	Optional	-	-	-
Filter				
ACL Filter Standard (Material & Accessory code)		-	-	-
ACL Filter Standard Dimensions (H x W x D)	in. (mm)	-	-	-
ACL Filter Optional (Material - Accessory code)		-	-	-
Pre-filter Standard Material		Stainless pre-filter	Stainless pre-filter	Stainless pre-filter
Pre-filter Optional (Material & Accessory code)		-	-	-

NOTE:

1. *Capacity and seasonal performance data (SEER /HSPF) are based on AHRI 210-240. The nominal heating and cooling capacity is the combined capacity of the HITACHI Split system (Indoor + Outdoor Unit).*

Operation Conditions		***Cooling***	***Heating***
Indoor Air Inlet Temperature	***dB***	*80 °F*	*70 °F*
	WB	*67 °F*	
Outdoor Air Inlet Temperature	***dB***	*95 °F*	*47 °F*
	WB		*43 °F*
***Piping Length**: 24-39/64ft (7.5m); **Piping Lift**: 0ft (0m)* ***dB**: Dry Bulb; **WB**: Wet Bulb*			

2. *The Sound Pressure Level is based on the following conditions:*
   - *2-5/8ft (0.8m) beneath indoor height center*
   - *3-9/32ft (1m) from Discharge grille*

   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

1.1.4. WALL TYPE (RAK-GJ18QHAA / RAK-GJ24QHAA)

INDOOR	Unit	RAK-GJ18QHAA	RAK-GJ24QHAA
Nominal capacity adjustable		no	no
Nominal Cooling capacity (min - max)	BTU	18000(6600~20500)	22000(9700~25000)
Cooling sensible capacity	BTU	-	-
Nominal Heating capacity (min - max)	BTU	21500(7100~26000)	25000(8500~29500)
Noise level cooling (sound pressure) (S/L/M/H/HIHI)	dB(A)	35/42/45/47/49	39/45/48/53/58
Noise level heating (sound pressure) (S/L/M/H/HIHI)	dB(A)	35/42/45/47/49	39/45/48/53/58
Noise level (sound power) *match with Fiche/ Eurovent/Product Info	dB(A)	63	65
Air flow cooling mode (SL / L / M / H / HIHI)	cfm (m³/h)	265/388/471/559/618	265/353/470/588/676
Air flow heating mode (SL / L / M / H / HIHI)	cfm (m³/h)	276/397/480/568/633	279/279/480/601/689
Fan Motor	W	38	38
Dehumidification	l/h	1.8	2.5
Included drain pump *for RAI/RAD	yes/no	no	no
Max. height available for drain pump (RAD/RAI only)	in. (mm)	no	no
Drain pump pressure lift *for RAI/RAD	in. (mm)	no	no
Static pressure switch at High(L / M / H) *for RAD	Pa (m3/h)	no	no
Dimensions (H x W x D)	in. (mm)	(294 x 1050 x 255)	(300x1100x273)
Weight *must match with Packing data information	lbs. (kg)	30.9 (14.0)	37.5 (17.0)
Panel weight *for RAI	lbs. (kg)	-	-
Panel dimensions (H x W x D) *for RAI	in. (mm)	-	-
Colour (Munsell Code)			
Condensate Drain	in. (mm)	-	-
Panel reference		-	-
Color of the panel (RAL)		-	-
Running current (C/H) *for single split indoor&outdoor must be matched	A	-	-
Power supply	V	FROM OUTDOOR	FROM OUTDOOR
Cable section (interconnection/*if power supply is connected to indoor)	mm²	0.8x 3+EARTH/-	0.8x 3+EARTH/-
Piping diameter (Liq / Gas)	Inch	1/4" / 1/2"	1/4" / 5/8"
Drain diameter (ext)	in. (mm)	0.63(16)	0.63(16)
Remote control (standard/optional) *	Standard	RC-AGS1EA0N	RC-AGS1EA0N
	Optional	-	-
Filter			
ACL Filter Standard (Material & Accessory code)		-	-
ACL Filter Standard Dimensions (H x W x D)	in. (mm)	-	-
ACL Filter Optional (Material - Accessory code)		-	-
Pre-filter Standard Material		Stainless pre-filter	Stainless pre-filter
Pre-filter Optional (Material & Accessory code)		-	-

NOTE:

1. *Capacity and seasonal performance data (SEER /HSPF) are based on AHRI 210-240. The nominal heating and cooling capacity is the combined capacity of the HITACHI Split system (Indoor + Outdoor Unit).*

Operation Conditions		***Cooling***	***Heating***
Indoor Air Inlet Temperature	***dB***	*80 °F*	*70 °F*
	WB	*67 °F*	
Outdoor Air Inlet Temperature	***dB***	*95 °F*	*47 °F*
	WB		*43 °F*
***Piping Length**: 24-39/64ft (7.5m); **Piping Lift**: 0ft (0m)* ***dB**: Dry Bulb; **WB**: Wet Bulb*			

2. *The Sound Pressure Level is based on the following conditions:*
   - *2-5/8ft (0.8m) beneath indoor height center*
   - *3-9/32ft (1m) from Discharge grille*

   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

1.1.5. FLOOR TYPE (RAF-FJ07QHAA / RAF-FJ09QHAA/ RAF-FJ12QHAA / RAF-FJ18QHAA)

INDOOR	Unit	RAF-FJ07QHAA	RAF-FJ09QHAA	RAF-FJ12QHAA	RAF-FJ18QHAA
Nominal capacity adjustable		no	no	no	no
Nominal Cooling capacity (min - max)	BTU	7000(3050-9000)	9000(3050-10600)	12000(3050-13650)	18000(3050-17750)
Cooling sensible capacity	BTU	-	-	-	-
Nominal Heating capacity (min - max)	BTU	9000(3050-10900)	11600(3050-15000)	15350(3050-18000)	20500(3050-27600)
Noise level cooling (sound pressure) (S/L/M/H/HIHI)	dB(A)	22/26/31/36/38	22/26/31/36/38	22/26/31/38/39	23/29/36/41/43
Noise level heating (sound pressure) (S/L/M/H/HIHI)	dB(A)	22/26/31/36/38	22/26/31/36/38	23/26/31/38/41	26/29/36/43/44
Noise level (sound power) *match with Fiche/ Eurovent/Product Info	dB(A)	52	52	53	57
Air flow cooling mode (SL / L / M / H / Rapid)	cfm (m^3/h)	160.7/232.1/303.6/345.2/375 (270/390/510/582/630)	160.7/232.1/303.6/345.2/375 (270/390/510/582/630)	160.7/232.1/303.6/345.2/375 (270/390/510/582/630)	178.6/267.9/321.4/386.9/416.7 (300/450/540/648/702)
Air flow heating mode (SL / L / M / H /Rapid)	cfm (m^3/h)	178.6/250/321.4/357.1/392.9 (300/420/540/600/660)	178.6/250/321.4/357.1/392.9 (300/420/540/600/660)	178.6/250/321.4/357.1/392.9 (300/420/540/600/660)	196.4/285.7/339.3/404.8/434.5 (330/480/570/678/732)
Fan Motor	W	38	38	38	38
Dehumidification	l/h	1.2	1.4	1.9	2
Included drain pump *for RAI/RAD	yes/no	no	no	no	no
Max. height available for drain pump (RAD/RAI only)	in. (mm)	no	no	no	no
Drain pump pressure lift *for RAI/RAD	in. (mm)	no	no	no	no
Static pressure switch at High(L / M / H) *for RAD	Pa (m3/h)	no	no	no	no
Dimensions (H x W x D)	in. (mm)	29.5×23.2×8.6 (750 × 590 × 219)	29.5×23.2×8.6 (750 × 590 × 219)	29.5×23.2×8.6 (750 × 590 × 219)	29.5×23.2×8.6 (750 × 590 × 219)
Weight *must match with Packing data information	lbs. (kg)	32.4(14.7)	32.4(14.7)	32.4(14.7)	32.4(14.7)
Panel weight *for RAI	lbs. (kg)	-	-	-	-
Panel dimensions (H x W x D) *for RAI	in. (mm)	-	-	-	-
Colour (Munsell Code)		ShadowWhite (5PB8.7/0.5)	ShadowWhite (5PB8.7/0.5)	ShadowWhite (5PB8.7/0.5)	ShadowWhite (5PB8.7/0.5)
Condensate Drain	in. (mm)	0.63(16)	0.63(16)	0.63(16)	0.63(16)
Panel reference		-	-	-	-
Color of the panel (RAL)		-	-	-	-
Running current (C/H) *for single split indoor&outdoor must be matched	A	-	-	-	-
Power supply	V	FROM OUTDOOR	FROM OUTDOOR	FROM OUTDOOR	FROM OUTDOOR
Cable section (interconnection/*if power supply is connected to indoor)	mm^2	0.8x 3+EARTH/-	0.8x 3+EARTH/-	0.8x 3+EARTH/-	0.8x 3+EARTH/-
Piping diameter (Liq / Gas)	Inch	1/4" / 3/8"	1/4" / 3/8"	1/4" / 3/8"	1/4" / 1/2"
Drain diameter (ext)	in. (mm)	0.63(16)	0.63(16)	0.63(16)	0.63(16)
Remote control (standard/optional) *	Standard	RC-BGH1FB0N	RC-BGH1FB0N	RC-BGH1FB0N	RC-BGH1FB0N
	Optional	RC-BGH1FD0N	RC-BGH1FD0N	RC-BGH1FD0N	RC-BGH1FD0N
Filter					
ACL Filter Standard (Material & Accessory code)		-	-	-	-
ACL Filter Standard Dimensions (H x W x D)	in. (mm)	-	-	-	-
ACL Filter Optional (Material - Accessory code)		-	-	-	-
Pre-filter Standard Material		Stainless coating	Stainless coating	Stainless coating	Stainless coating
Pre-filter Optional (Material & Accessory code)		-	-	-	-

NOTE:

1. *Capacity and seasonal performance data (SEER /HSPF) are based on AHRI 210-240. The nominal heating and cooling capacity is the combined capacity of the HITACHI Split system (Indoor + Outdoor Unit).*

Operation Conditions		***Cooling***	***Heating***
Indoor Air Inlet Temperature	***dB***	*80 °F*	*70 °F*
	WB	*67 °F*	
Outdoor Air Inlet Temperature	***dB***	*95 °F*	*47 °F*
	WB		*43 °F*
***Piping Length**: 24-39/64ft (7.5m); **Piping Lift**: 0ft (0m)* ***dB**: Dry Bulb; **WB**: Wet Bulb*			

2. *The Sound Pressure Level is based on the following conditions:*
   - *2-5/8ft (0.8m) beneath indoor height center*
   - *3-9/32ft (1m) from Discharge grille*

   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

1.1.6. CEILING CASSETTE (RAI-GJ07QHAA / RAI-GJ09QHAA / RAI-GJ12QHAA)

INDOOR	Unit	RAI-GJ07QHAA	RAI-GJ09QHAA	RAI-GJ12QHAA
Nominal capacity adjustable		no	no	no
Nominal Cooling capacity (min - max)	BTU	7000(3050-8500)	9000(3050-10200)	12000(3050-10200)
Cooling sensible capacity	BTU	-	-	-
Nominal Heating capacity (min - max)	BTU	9000(3050-10900)	12000(3050-18000)	12000(3050-18000)
Noise level cooling (sound pressure) (S/L/M/H/HIHI)	dB(A)	27/33/37/39/40	27/33/37/39/40	27/33/37/39/40
Noise level heating (sound pressure) (S/L/M/H/HIHI)	dB(A)	28/34/38/40/41	28/34/38/40/41	28/34/38/40/41
Noise level (sound power) *match with Fiche/ Eurovent/Product Info	dB(A)	54	54	54
Air flow cooling mode (SL / L / M / H / HIHI)	cfm (m³/h)	212/297/347/371/388 (360/505/590/630/660)	212/297/347/371/388 (360/505/590/630/660)	212/297/347/371/388 (360/505/590/630/660)
Air flow heating mode (SL / L / M / H / HIHI)	cfm (m³/h)	261/318/371/400/420 444/540/630/678/720	261/318/371/400/420 444/540/630/678/720	261/318/371/400/420 444/540/630/678/720
Fan Motor	W	20	20	20
Dehumidification	l/h	1.2	1.4	1.4
Included drain pump *for RAI/RAD	yes/no	Yes	Yes	Yes
Max. height available for drain pump (RAD/RAI only)	in. (mm)	33(850)	33(850)	33(850)
Drain pump pressure lift *for RAI/RAD	in. (mm)	**4.5(115)**	**4.5(115)**	**4.5(115)**
Static pressure switch at High(L / M / H) *for RAD	Pa (m3/h)	no	no	no
Dimensions (H x W x D)	in. (mm)	11 x 22 x 22 (285 x 570 x 570)	11 x 22 x 22 (285 x 570 x 570)	11 x 22 x 22 (285 x 570 x 570)
Weight *must match with Packing data information	lbs. (kg)	37 (17)	37 (17)	37 (17)
Panel weight *for RAI	lbs. (kg)	6.17 (2.8)	6.17 (2.8)	6.17 (2.8)
Panel dimensions (H x W x D) *for RAI	in. (mm)	1.2 x 24.4 x 24.4 (30 x 620 x 620)	1.2 x 24.4 x 24.4 (30 x 620 x 620)	1.2 x 24.4 x 24.4 (30 x 620 x 620)
Colour (Munsell Code)		-	-	-
Condensate Drain	in. (mm)	1.26 (32)	1.26 (32)	1.26 (32)
Panel reference		-	-	-
Color of the panel (RAL)		-	-	-
Running current (C/H) *for single split indoor&outdoor must be matched	A	-	-	-
Power supply	V	FROM OUTDOOR	FROM OUTDOOR	FROM OUTDOOR
Cable section (interconnection/*if power supply is connected to indoor)	mm²	0.8x 3+EARTH/-	0.8x 3+EARTH/-	0.8x 3+EARTH/-
Piping diameter (Liq / Gas)	Inch	1/4" / 3/8"	1/4" / 3/8"	1/4" / 3/8"
Drain diameter (ext)	in. (mm)	1.26 (32)	1.26 (32)	1.26 (32)
Remote control (standard/optional) *	Standard	RC-AGS1EA0N	RC-AGS1EA0N	RC-AGS1EA0N
	Optional	-	-	-
Filter				
ACL Filter Standard (Material & Accessory code)		-	-	-
ACL Filter Standard Dimensions (H x W x D)	in. (mm)	-	-	-
ACL Filter Optional (Material - Accessory code)		-	-	-
Pre-filter Standard Material		NORMAL	NORMAL	NORMAL
Pre-filter Optional (Material & Accessory code)		-	-	-

NOTE:

1. *Capacity and seasonal performance data (SEER /HSPF) are based on AHRI 210-240. The nominal heating and cooling capacity is the combined capacity of the HITACHI Split system (Indoor + Outdoor Unit).*

Operation Conditions		***Cooling***	***Heating***
Indoor Air Inlet Temperature	***dB***	*80 °F*	*70 °F*
	WB	*67 °F*	
Outdoor Air Inlet Temperature	***dB***	*95 °F*	*47 °F*
	WB		*43 °F*
***Piping Length**: 24-39/64ft (7.5m); **Piping Lift**: 0ft (0m)* ***dB**: Dry Bulb; **WB**: Wet Bulb*			

2. *The Sound Pressure Level is based on the following conditions:*
   - *2-5/8ft (0.8m) beneath indoor height center*
   - *3-9/32ft (1m) from Discharge grille*

   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

1.1.7. CEILING CASSETTE (RAI-GJ18QHAA / RAI-GJ24QHAA)

INDOOR	Unit	RAI-GJ18QHAA	RAI-GJ24QHAA
Nominal capacity adjustable		no	no
Nominal Cooling capacity (min - max)	BTU	18000	24000
Cooling sensible capacity	BTU	-	-
Nominal Heating capacity (min - max)	BTU	16400(3050-22500)	20500(4100-23200)
Noise level cooling (sound pressure) (S/L/M/H/HIHI)	dB(A)	29/35/39/41/43	29/35/39/41/43
Noise level heating (sound pressure) (S/L/M/H/HIHI)	dB(A)	30/36/40/42/44	30/36/40/42/44
Noise level (sound power) *match with Fiche/ Eurovent/Product Info	dB(A)	56	56
Air flow cooling mode (SL / L / M / H / HIHI)	cfm (m³/h)	229/318/371/406/424 (390/540/630/690/720)	229/318/371/406/424 (390/540/630/690/720)
Air flow heating mode (SL / L / M / H / HIHI)	cfm (m³/h)	265/353/406/435/459 (450/600/690/738/780)	265/353/406/435/459 (450/600/690/738/780)
Fan Motor	W	57	57
Dehumidification	l/h	1.4	2.8
Included drain pump *for RAI/RAD	yes/no	Yes	Yes
Max. height available for drain pump (RAD/RAI only)	in. (mm)	33(850)	33(850)
Drain pump pressure lift *for RAI/RAD	in. (mm)	**4.5(115)**	**4.5(115)**
Static pressure switch at High(L / M / H) *for RAD	Pa (m3/h)	no	no
Dimensions (H x W x D)	in. (mm)	11 x 22 x 22 (285 x 570 x 570)	11 x 22 x 22 (285 x 570 x 570)
Weight *must match with Packing data information	lbs. (kg)	37 (17)	37 (17)
Panel weight *for RAI	lbs. (kg)	6.17 (2.8)	6.17 (2.8)
Panel dimensions (H x W x D) *for RAI	in. (mm)	1.2 x 24.4 x 24.4 (30 x 620 x 620)	1.2 x 24.4 x 24.4 (30 x 620 x 620)
Colour (Munsell Code)		-	-
Condensate Drain	in. (mm)	1.26 (32)	1.26 (32)
Panel reference		-	-
Color of the panel (RAL)		-	-
Running current (C/H) *for single split indoor&outdoor must be matched	A	-	-
Power supply	V	FROM OUTDOOR	FROM OUTDOOR
Cable section (interconnection/*if power supply is connected to indoor)	mm²	0.8x 3+EARTH/-	0.8x 3+EARTH/-
Piping diameter (Liq / Gas)	Inch	1/4" / 3/8"	1/4" / 1/2"
Drain diameter (ext)	in. (mm)	1.26 (32)	1.26 (32)
Remote control (standard/optional) *	Standard	RC-AGS1EA0N	RC-AGS1EA0N
	Optional	-	-
Filter			
ACL Filter Standard (Material & Accessory code)		-	-
ACL Filter Standard Dimensions (H x W x D)	in. (mm)	-	-
ACL Filter Optional (Material - Accessory code)		-	-
Pre-filter Standard Material		Normal Pre-Filter	Normal Pre-Filter
Pre-filter Optional (Material & Accessory code)		-	-

NOTE:

1. *Capacity and seasonal performance data (SEER /HSPF) are based on AHRI 210-240. The nominal heating and cooling capacity is the combined capacity of the HITACHI Split system (Indoor + Outdoor Unit).*

Operation Conditions		***Cooling***	***Heating***
Indoor Air Inlet Temperature	***dB***	*80 °F*	*70 °F*
	WB	*67 °F*	
Outdoor Air Inlet Temperature	***dB***	*95 °F*	*47 °F*
	WB		*43 °F*
***Piping Length**: 24-39/64ft (7.5m); **Piping Lift**: 0ft (0m)* ***dB**: Dry Bulb; **WB**: Wet Bulb*			

2. *The Sound Pressure Level is based on the following conditions:*
   - *2-5/8ft (0.8m) beneath indoor height center*
   - *3-9/32ft (1m) from Discharge grille*

   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

1.1.8. DUCT TYPE (RAD-GJ07QHAA / RAD-GJ09QHAA/ RAD-GJ12QHAA)

INDOOR	Unit	RAD-GJ07QHAA	RAD-GJ09QHAA	RAD-GJ12QHAA
Nominal capacity adjustable		no	no	no
Nominal Cooling capacity (min - max)	BTU	7000(3050-8500)	9000(3050-10200)	12000(3050-13650)
Cooling sensible capacity	BTU	-	-	-
Nominal Heating capacity (min - max)	BTU	9000(3050-10900)	12000(3050-18000)	16400(3050-22500)
Noise level cooling (sound pressure) (SL/L/M/H/HIHI)	dB(A)	30/33/37/41	30/33/37/41	**20**/33/37/41
Noise level heating (sound pressure) (SL/L/M/H/HIHI)	dB(A)	30/34/38/42	30/34/38/42	30/34/38/42
Noise level (sound power) *match with Fiche/ Eurovent/Product Info	dB(A)	57	57	57
Air flow cooling mode (SL / L / M / H / HIHI)	cfm (m³/h)	194/229/259/294/300 (330/390/438/498/510)	194/229/259/294/300 (330/390/438/498/510)	194/229/259/294/300 (330/390/438/498/510)
Air flow heating mode (SL / L / M / H / HIHI)	cfm (m³/h)	200/235/276/303/309 (342/402/468/516/528)	200/235/276/303/309 (342/402/468/516/528)	200/235/276/303/309 (342/402/468/516/528)
Fan Motor	W	20	20	20
Dehumidification	l/h	1.4	1.4	1.6
Included drain pump *for RAI/RAD	yes/no	yes	yes	yes
Max. height available for drain pump (RAD/RAI only)	in. (mm)	33(850)	33(850)	33(850)
Drain pump pressure lift *for RAI/RAD	in. (mm)	**4.5(115)**	**4.5(115)**	**4.5(115)**
Static pressure switch at High(L / M / H) *for RAD	Pa (m3/h)	70	70	70
Dimensions (H x W x D)	in. (mm)	9x29x15 （235x750x400）	9x29x15 （235x750x400）	9x29x15 （235x750x400）
Weight *must match with Packing data information	lbs. (kg)	35（16）	35（16）	35（16）
Panel weight *for RAI	lbs. (kg)	-	-	-
Panel dimensions (H x W x D) *for RAI	in. (mm)	-	-	-
Colour (Munsell Code)		-	-	-
Condensate Drain	in. (mm)	0.63(16)	0.63(16)	0.63(16)
Panel reference		-	-	-
Color of the panel (RAL)		-	-	-
Running current (C/H) *for single split indoor&outdoor must be matched	A	-	-	-
Power supply	V	FROM OUTDOOR	FROM OUTDOOR	FROM OUTDOOR
Cable section (interconnection/*if power supply is connected to indoor)	mm²	0.8x 3+EARTH/-	0.8x 3+EARTH/-	0.8x 3+EARTH/-
Piping diameter (Liq / Gas)	Inch	1/4"，3/8"	1/4"，3/8"	1/4"，3/8"
Drain diameter (ext)	in. (mm)	0.63（16）	0.63（16）	0.63（16）
Remote control (standard/optional) *	Standard	RC-AGU1EA0N	RC-AGU1EA0N	RC-AGU1EA0N
	Optional	-	-	-
Filter				
ACL Filter Standard (Material & Accessory code)		-	-	-
ACL Filter Standard Dimensions (H x W x D)	in. (mm)	-	-	-
ACL Filter Optional (Material - Accessory code)		-	-	-
Pre-filter Standard Material		Normal Pre-Filter	Normal Pre-Filter	Normal Pre-Filter
Pre-filter Optional (Material & Accessory code)		-	-	-

NOTE:

1. *Capacity and seasonal performance data (SEER /HSPF) are based on AHRI 210-240. The nominal heating and cooling capacity is the combined capacity of the HITACHI Split system (Indoor + Outdoor Unit).*

Operation Conditions		***Cooling***	***Heating***
Indoor Air Inlet Temperature	***dB***	*80 °F*	*70 °F*
	WB	*67 °F*	
Outdoor Air Inlet Temperature	***dB***	*95 °F*	*47 °F*
	WB		*43 °F*
***Piping Length**: 24-39/64ft (7.5m); **Piping Lift**: 0ft (0m)* ***dB**: Dry Bulb; **WB**: Wet Bulb*			

2. *The Sound Pressure Level is based on the following conditions:*
   - *2-5/8ft (0.8m) beneath indoor height center*
   - *3-9/32ft (1m) from Discharge grille*

   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

1.1.9. DUCT TYPE (RAD-GJ18QHAA / RAD-GJ24QHAA)

INDOOR	Unit	RAD-GJ18QHAA	RAD-GJ24QHAA
Nominal capacity adjustable		no	no
Nominal Cooling capacity (min - max)	BTU	18000(4100-19800)	24000(4100-25600)
Cooling sensible capacity	BTU	-	-
Nominal Heating capacity (min - max)	BTU	20500(4100-23200)	27300(4100-30690)
Noise level cooling (sound pressure) (SL/L/M/H/HIHI)	dB(A)	29/32/35/39	29/32/35/39
Noise level heating (sound pressure) (SL/L/M/H/HIHI)	dB(A)	29/32/35/40	29/32/35/40
Noise level (sound power) *match with Fiche/ Eurovent/Product Info	dB(A)	53	53
Air flow cooling mode (SL / L / M / H / HIHI)	cfm (m^3/h)	206/318.1/471/571/671 (348/540/798/972/1140)	206/318.1/471/571/671 (348/540/798/972/1140)
Air flow heating mode (SL / L / M / H /HIHI)	cfm (m^3/h)	212/327/480/683/683 (360/558/816/1158/1158)	212/327/480/683/683 (360/558/816/1158/1158)
Fan Motor	W	180	180
Dehumidification	l/h	2.8	2.8
Included drain pump *for RAI/RAD	yes/no	yes	yes
Max. height available for drain pump (RAD/RAI only)	in. (mm)	33(850)	33(850)
Drain pump pressure lift *for RAI/RAD	in. (mm)	**4.5(115)**	**4.5(115)**
Static pressure switch at High(L / M / H) *for RAD	Pa (m3/h)	50/100150	50/100150
Dimensions (H x W x D)	in. (mm)	10x35x28（270x900x700）	10x35x28（270x900x700）
Weight *must match with Packing data information	lbs. (kg)	77（35）	77（35）
Panel weight *for RAI	lbs. (kg)	-	-
Panel dimensions (H x W x D) *for RAI	in. (mm)	-	-
Colour (Munsell Code)		-	-
Condensate Drain	in. (mm)	1.26 (32)	1.26 (32)
Panel reference		-	-
Color of the panel (RAL)		-	-
Running current (C/H) *for single split indoor&outdoor must be matched	A	-	-
Power supply	V	FROM OUTDOOR	FROM OUTDOOR
Cable section (interconnection/*if power supply is connected to indoor)	mm^2	0.8x 3+EARTH/-	0.8x 3+EARTH/-
Piping diameter (Liq / Gas)	Inch	1/4"，1/2"	1/4"，1/2"
Drain diameter (ext)	in. (mm)	1.26（32）	1.26（32）
Remote control (standard/optional) *	Standard	RC-AGU1EA0N	RC-AGU1EA0N
	Optional	-	-
Filter			
ACL Filter Standard (Material & Accessory code)		-	-
ACL Filter Standard Dimensions (H x W x D)	in. (mm)	-	-
ACL Filter Optional (Material - Accessory code)		-	-
Pre-filter Standard Material		Normal Pre-Filter	Normal Pre-Filter
Pre-filter Optional (Material & Accessory code)		-	-

NOTE:

1. *Capacity and seasonal performance data (SEER /HSPF) are based on AHRI 210-240. The nominal heating and cooling capacity is the combined capacity of the HITACHI Split system (Indoor + Outdoor Unit).*

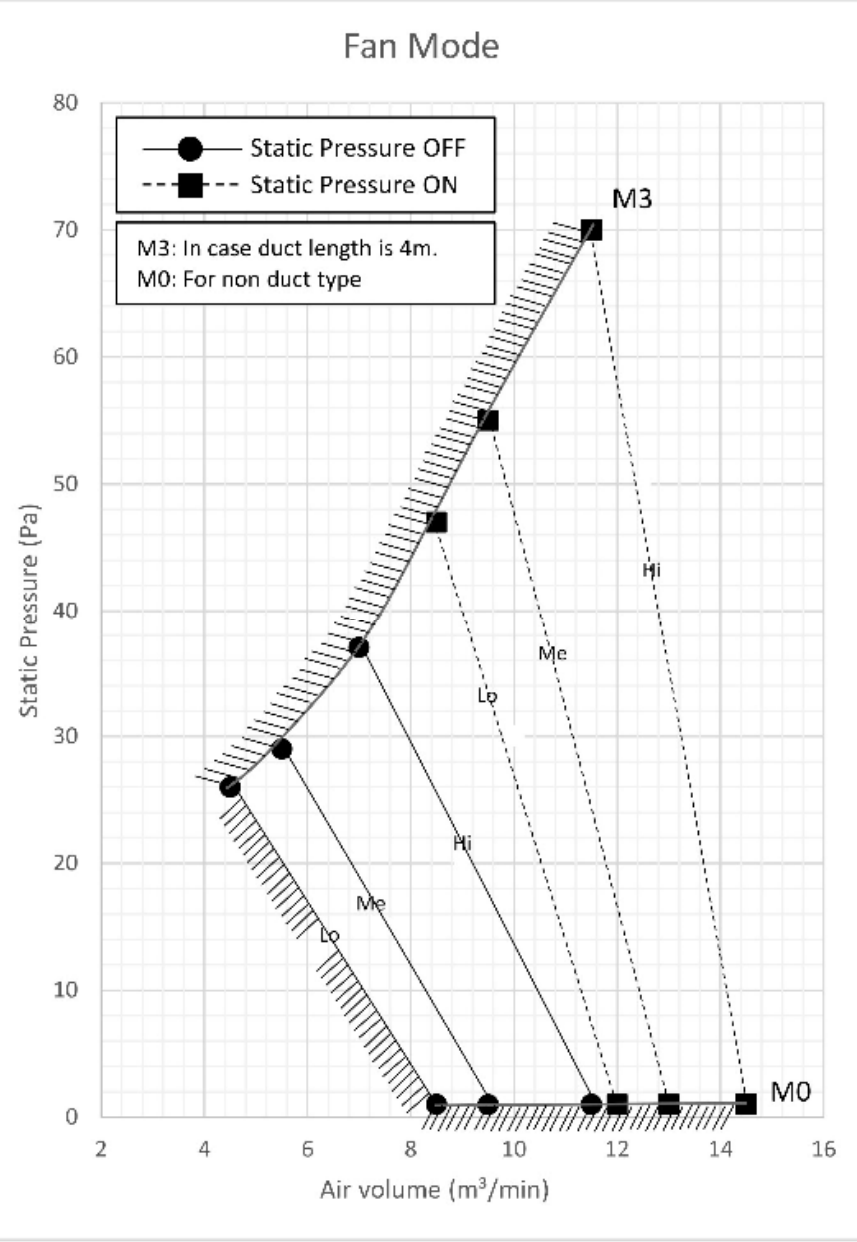
Operation Conditions		***Cooling***	***Heating***
Indoor Air Inlet Temperature	***dB***	*80 °F*	*70 °F*
	WB	*67 °F*	
Outdoor Air Inlet Temperature	***dB***	*95 °F*	*47 °F*
	WB		*43 °F*
***Piping Length**: 24-39/64ft (7.5m); **Piping Lift**: 0ft (0m)* ***dB**: Dry Bulb; **WB**: Wet Bulb*			

2. *The Sound Pressure Level is based on the following conditions:*
   - *2-5/8ft (0.8m) beneath indoor height center*
   - *3-9/32ft (1m) from Discharge grille*

   The above data was measured in an anechoic chamber so that reflected sound should be taken into consideration when installing the unit.

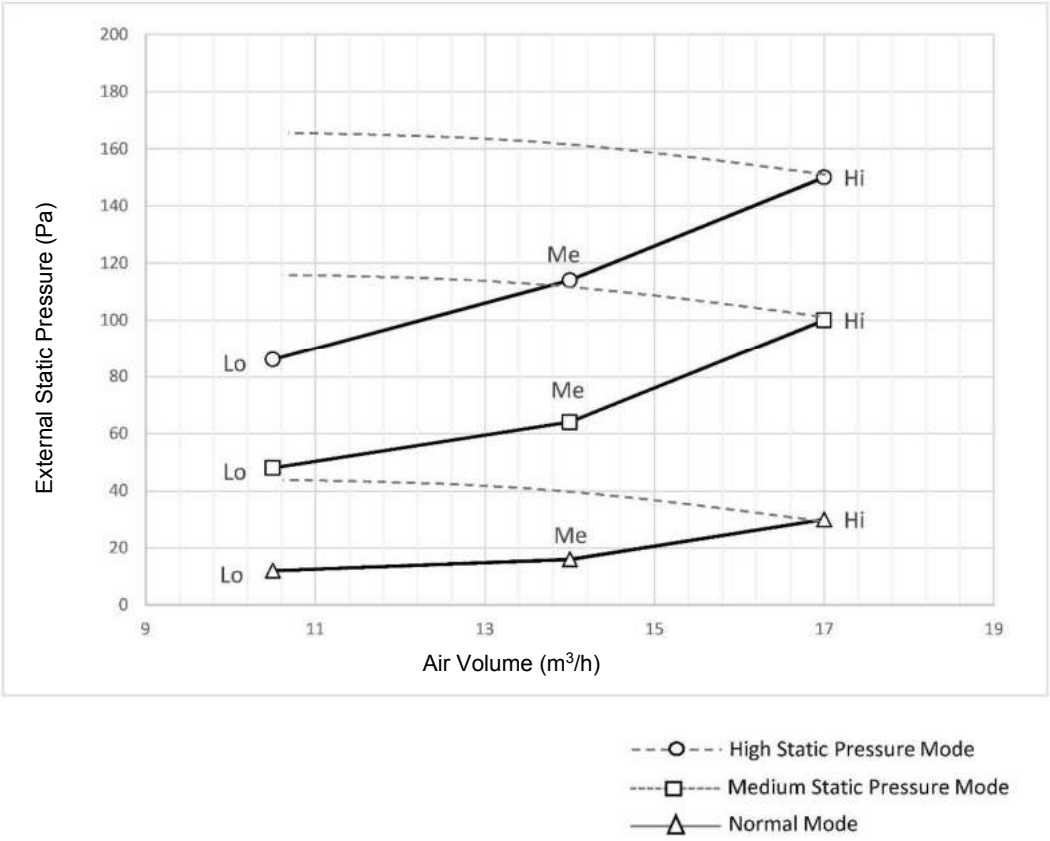
1.1.10. DUCT STATIC PRESSURE AND AIR FLOW (RAD-GJ07/09/12QHAA)

RAD-GJ07QHAA
RAD-GJ09QHAA
RAD-GJ12QHAA



1.1.11. DUCT STATIC PRESSURE AND AIR FLOW (RAD-GJ18/24QHAA)

RAD-GJ18QHAA
RAD-GJ24QHAA



1.2. RAM-G42NAHAA

OUTDOOR	UNIT	RAM-G42NAHAA
Minimum / Maximum indoor units connectable (for MULTI only)		2/5
Minimum / Maximum connected indoor capacity (for MULTI only)	kBTU	14/60
Nominal Cooling capacity (min - max) *for single split indoor&outdoor must be matched	BTU	42000(7000～46000)
Nominal Heating capacity (min - max) *for single split indoor&outdoor must be matched	BTU	45000(9000～51000)
Nominal cooling power input (min - max)	kW	3.36(0.46 - 5.3)
Nominal heating power input (min - max)	kW	3.665(0.46- 5.4)
EER2(EER)	Btu/W	12.5(12.5)
COP (H1 condition)	Btu/W	11.3
SEER2(SEER)		23.0(23.0)
HSPF2(HSPF)		9.2(10.8)
Noise level cooling (sound pressure)	dB(A)	56
Noise level heating (sound pressure)	dB(A)	58
Noise level - ODU (sound power)	dB(A)	70
Air flow (Cooling / Heating)	cfm (m^3/h)	2471(4200)/2471(4200)
Dimensions (H x W x D)	in. (mm)	37x37x15(945x950x370)
Net weight	lbs. (kg)	216.1(98)
Colour (Munsell Code)		Beige (5Y7/2)
Power supply	V/Ph/Hz	208- 230V / 1Ph / 60Hz
Recommended fuse size	A	40
Starting current(rated current of COOL/HEAT whichever higher for inverter)	A	16.32 / 20.62
Running current (C/H) *for single split indoor&outdoor must be matched	A	14.76 / 18.65
Cable section (power)	mm^2	4.00x 2+EARTH
Interconnection between indoor unit and outdoor unit	mm^2	0.80x 3+EARTH
Piping diameter (Liq / Gas) *for single split indoor&outdoor must be matched	Inch	(1/4,3/8)X3+(1/4,1/2)X2
Minimum piping length	ft. (m)	16(5)
Maximum piping length / height difference	ft. (m)	246(75)/66(20)
Current quantity of refrigerant / Chargeless	lbs. (kg)	7.94(3.6)
Chargeless length / Additional refrigerant charge	m / g/m	35 / 8
Working range (cooling / heating)	°F(°C)	14 to 115（-10 to +46）
	°F(°C)	-4 to 75 (-20 to +24)
Refrigerant		R32
Condenser Fan		Propeller Fan
Compressor	Type	2 Cylinder Rotary
	Oil Type	ACS-68R or equivalent
	Oil Charge l	1650±20 ml
	Coil resistance	0.502Ω at 20℃
	Quantity	1

NOTE:

1. *The Sound Pressure Level is based on the following conditions:*
   - *Half height of the unit*
   - *1 meter from Discharge grille*

The above data was measured in an anechoic chamber. Please take into consideration reflected sound of your specific site

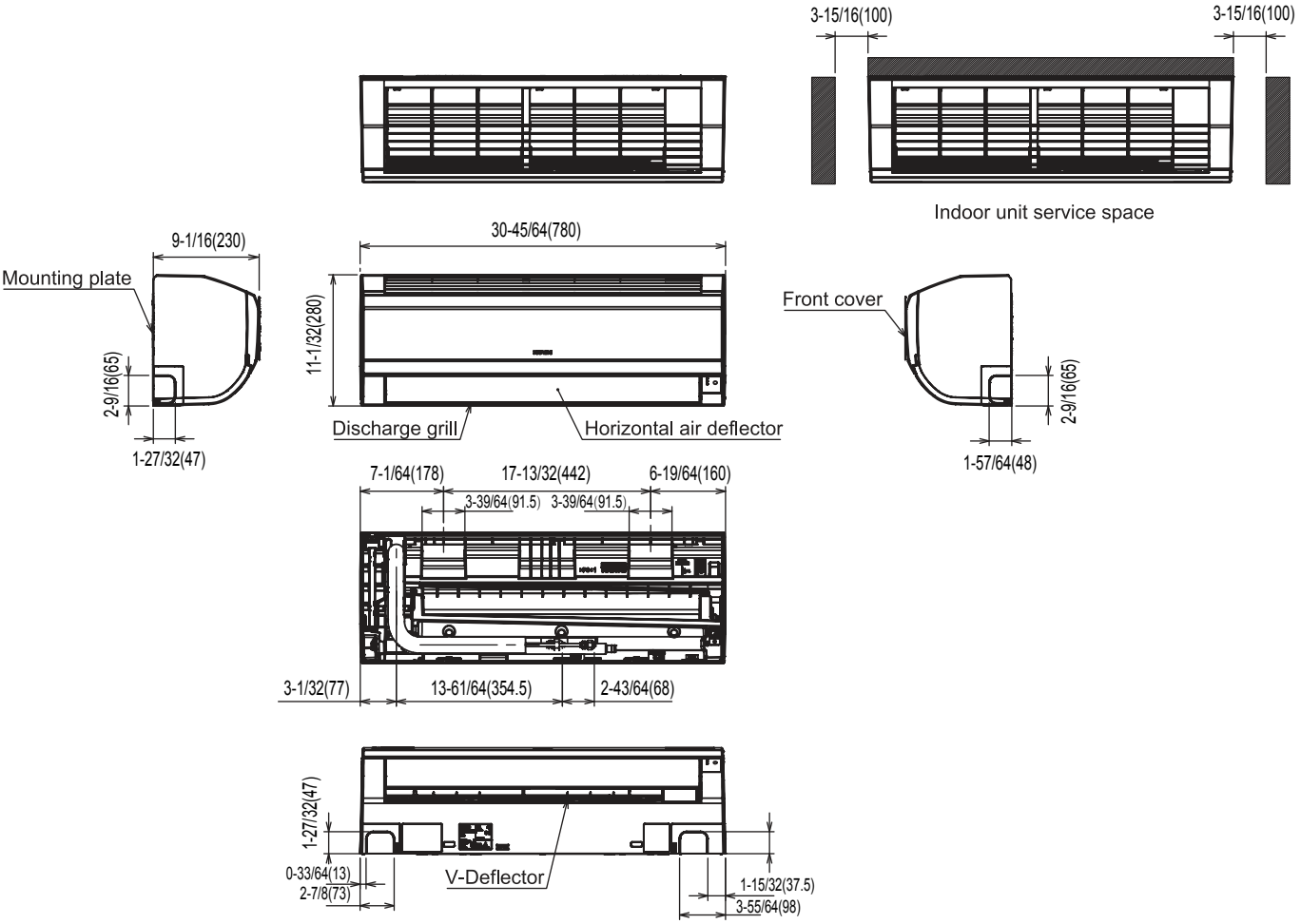
2 DIMENSIONAL DATA

CONTENTS

2.1. MULTIZONE INDOOR UNITS

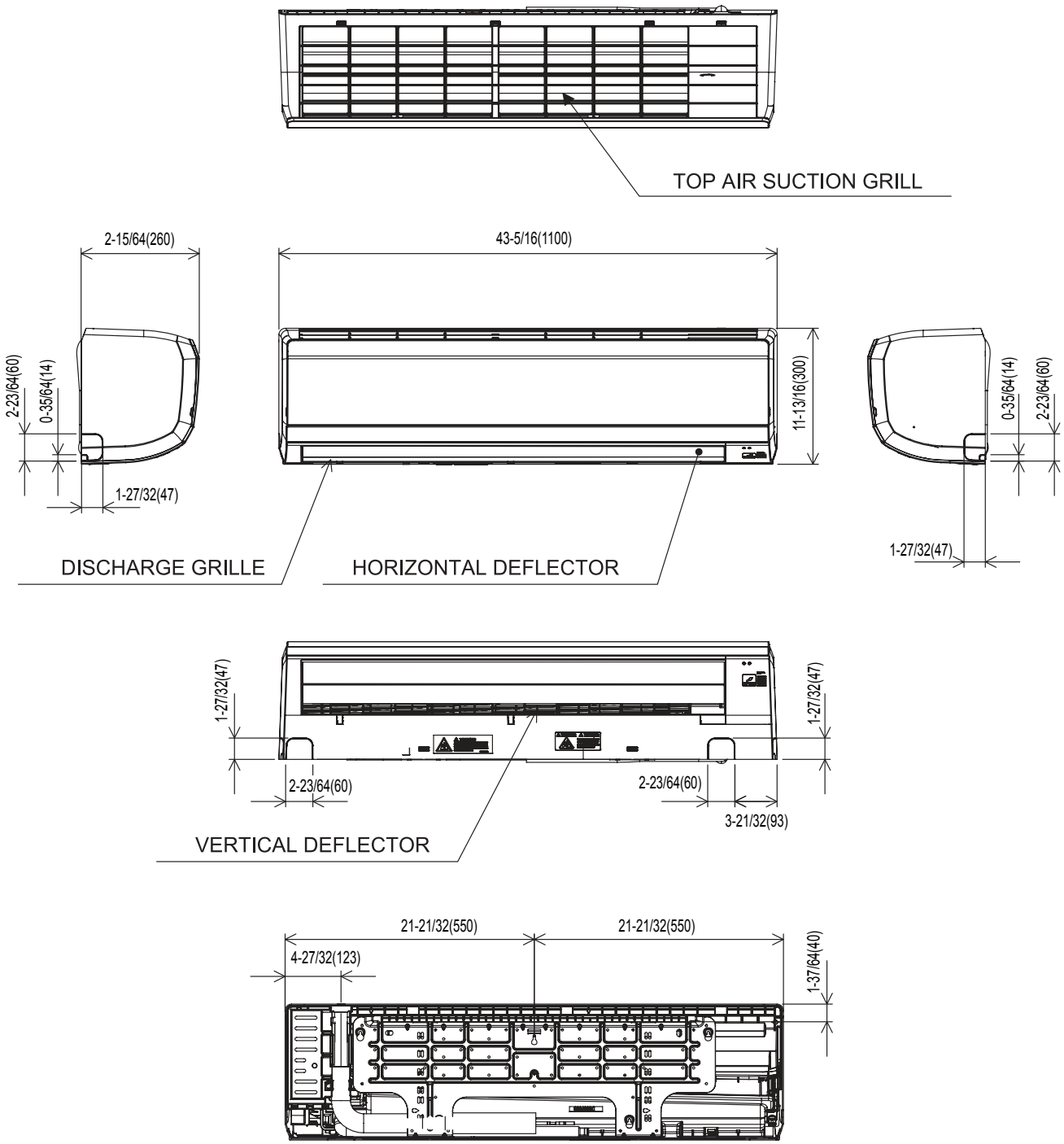
2.1.1. WALL TYPE: RAK-DJ07QHAA / RAK-DJ09RHAA / RAK-DJ12RHAA

Unit:inch(mm)



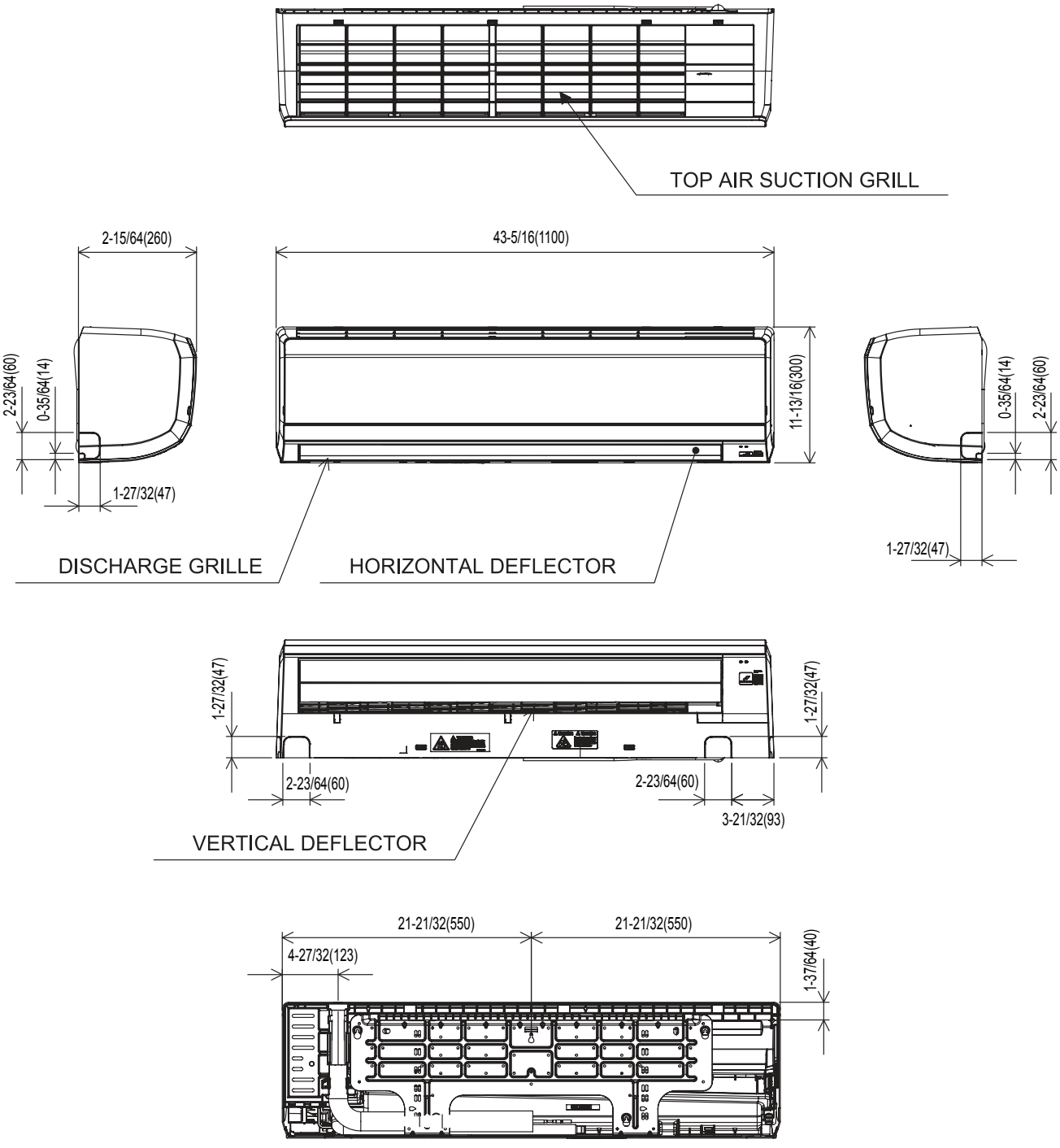
2.1.2. WALL TYPE: RAK-DJ18RHAA

Unit:inch(mm)



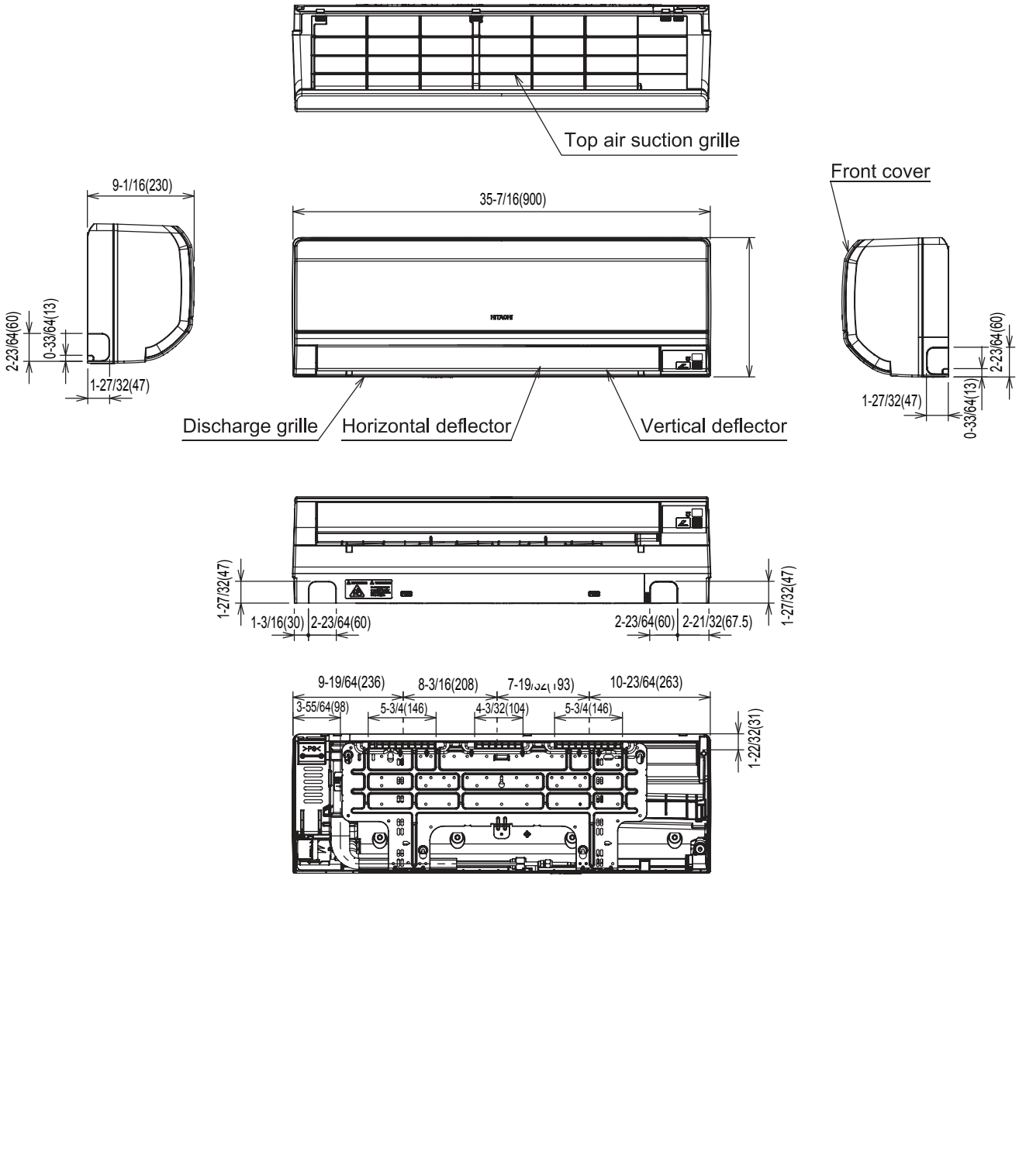
2.1.3. WALL TYPE: RAK-DJ24RHAA

Unit:inch(mm)



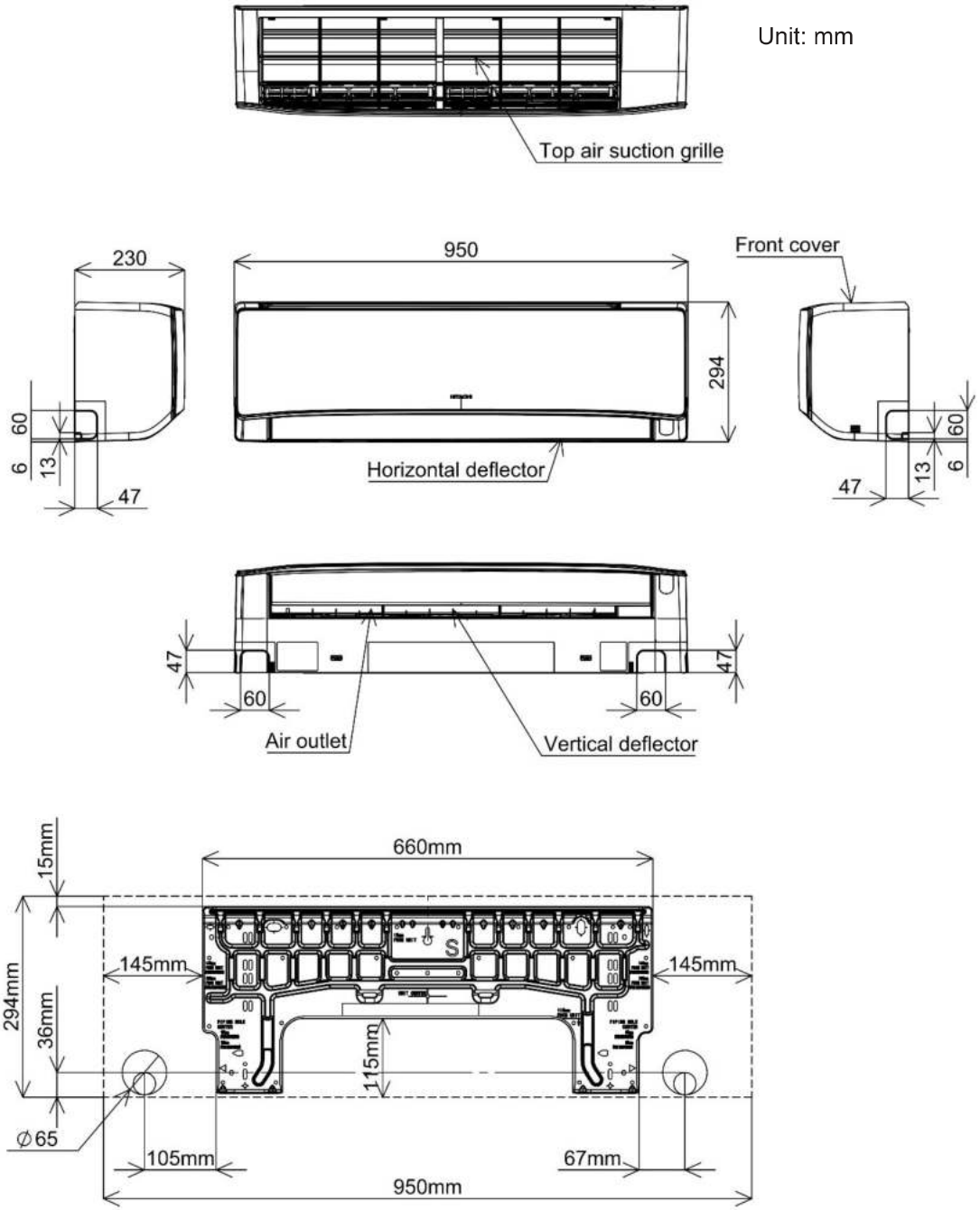
2.1.4. WALL TYPE: RAK-GJ07QHAA / RAK-GJ09QHAA / RAK-GJ12QHAA

Unit:inch(mm)

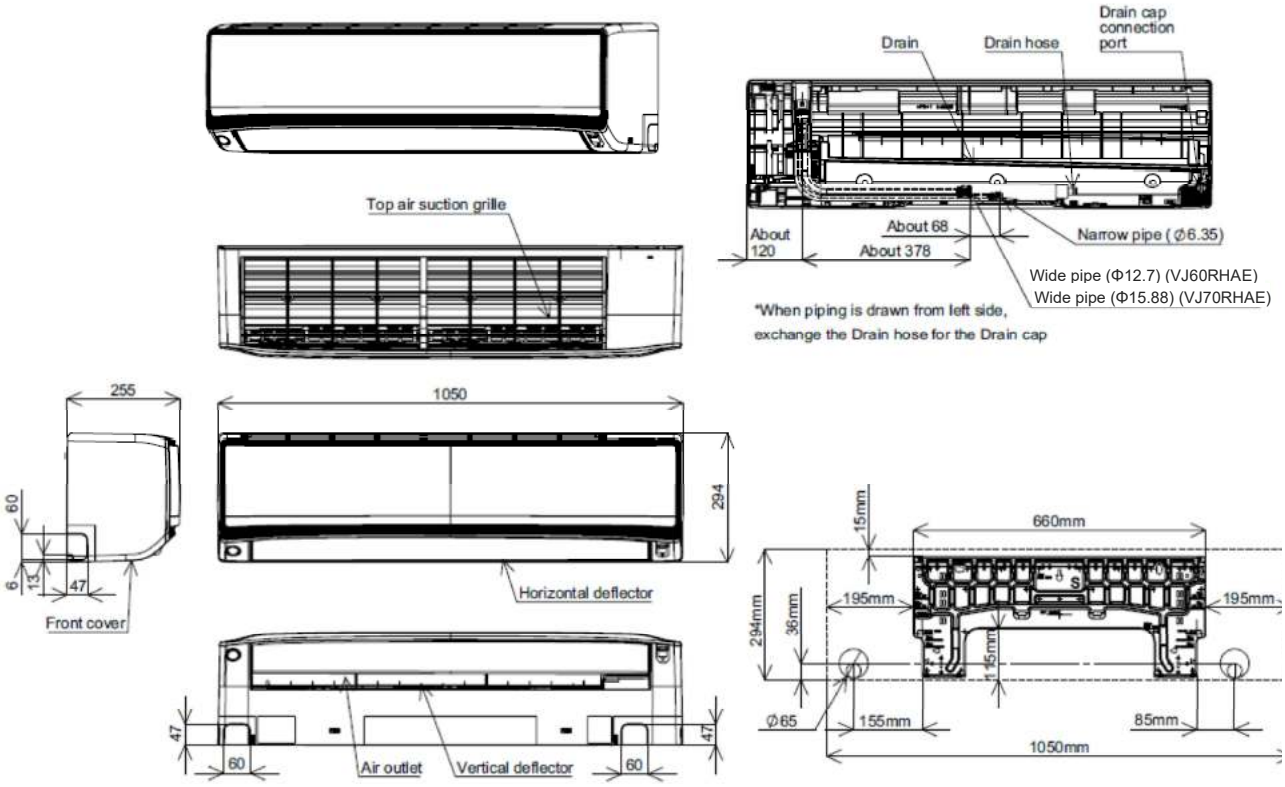


2.1.4. WALL TYPE: RAK-GJ18QHAA

Unit: mm

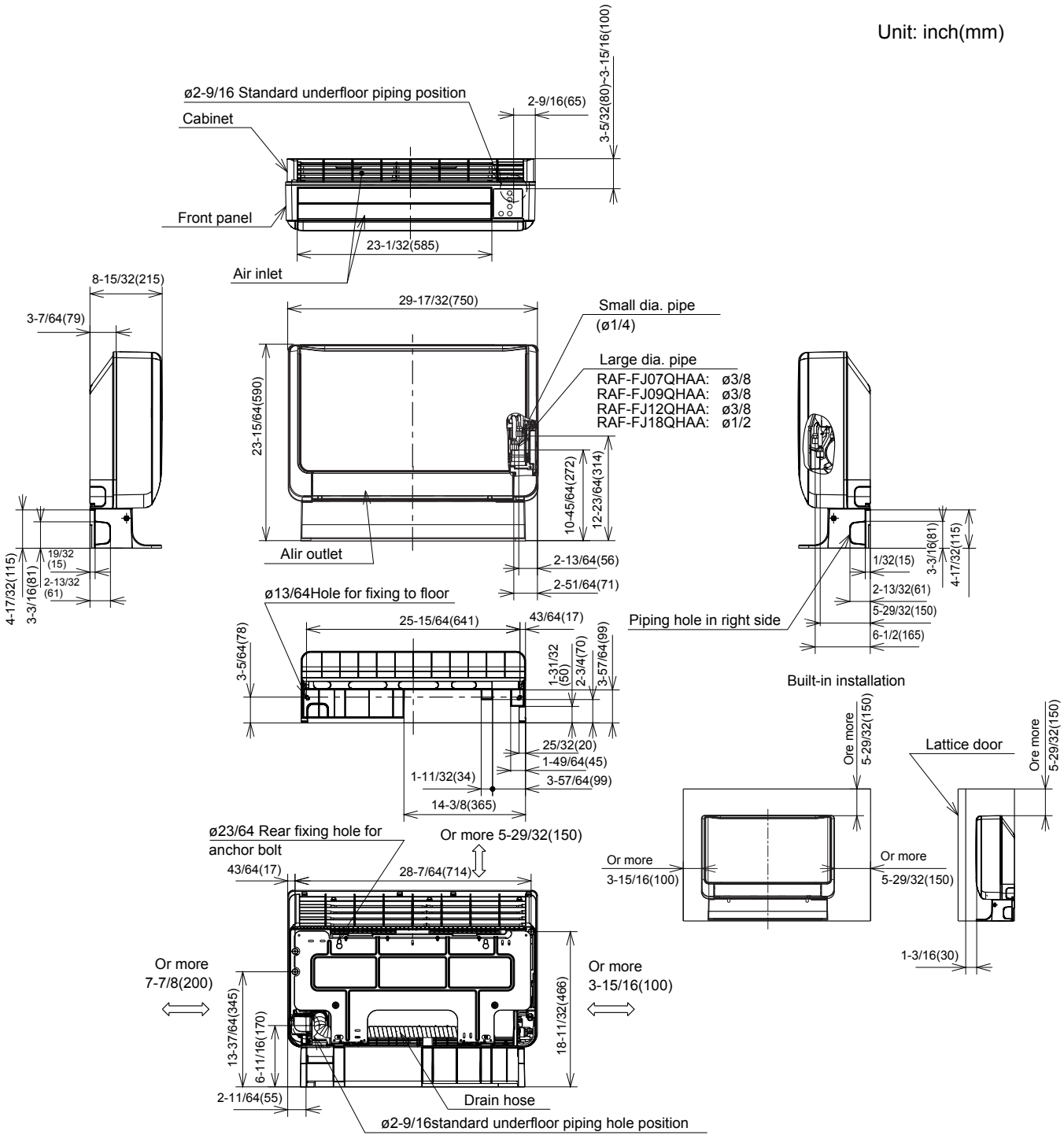


2.1.4. WALL TYPE: RAK-GJ24QHAA



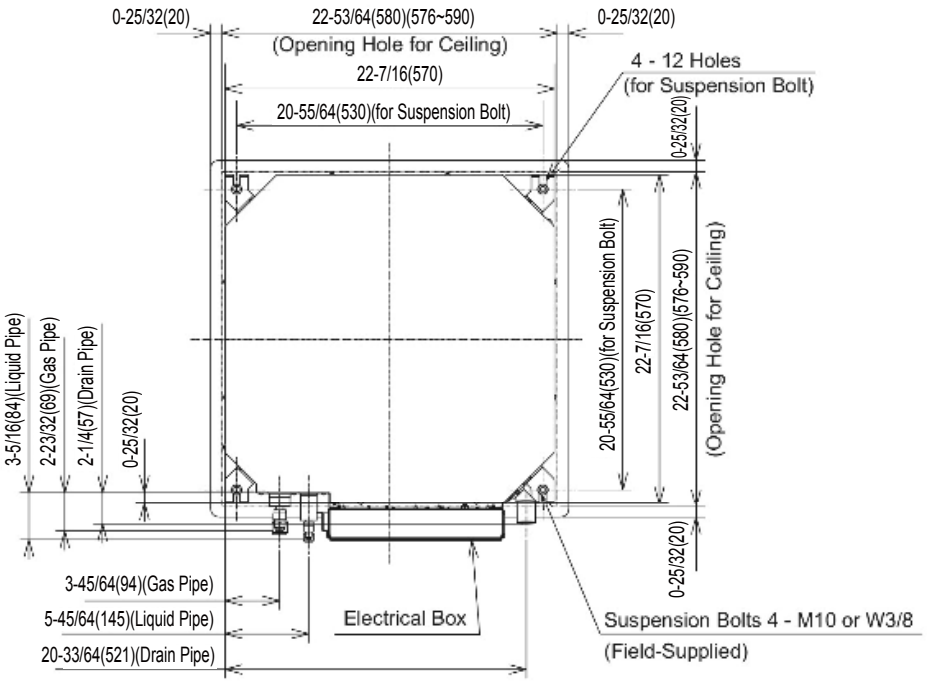
2.1.4. FLOOR TYPE: RAF-FJ07QHAA / FJ09QHAA/ FJ12QHAA / FJ18QHAA

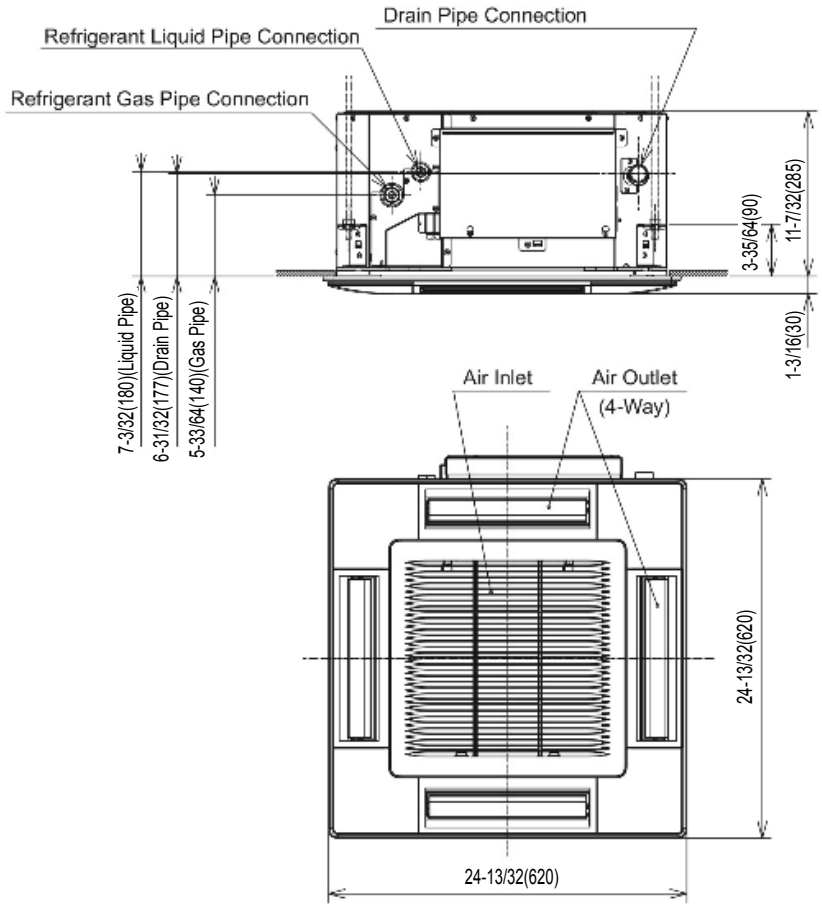
Unit: inch(mm)



2.1.5. CEILING CASSETTE TYPE: RAI-GJ07QHAA/RAI-GJ09QHAA/RAI-GJ12QHAA/RAI-GJ18QHAA RAI-GJ24QHAA

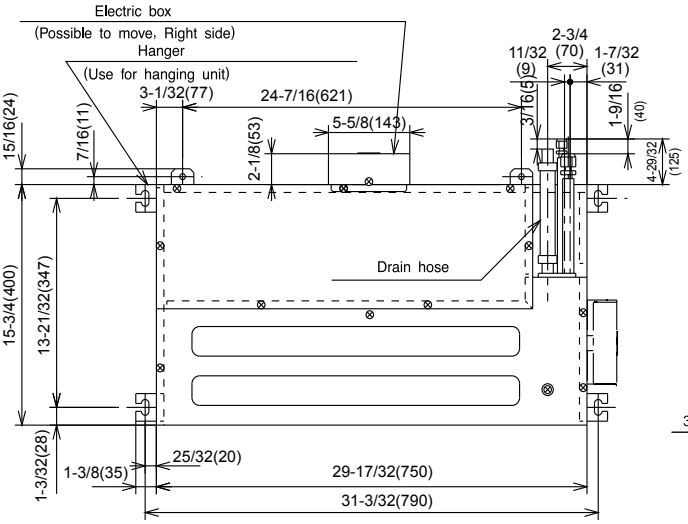
Unit:inch(mm)

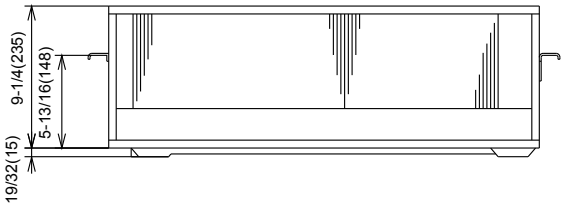




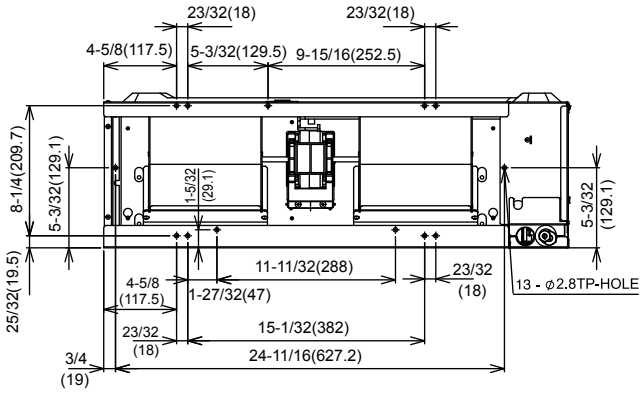
2.1.6. DUCT TYPE: RAD-GJ07QHAA / GJ09QHAA / GJ12QHAA

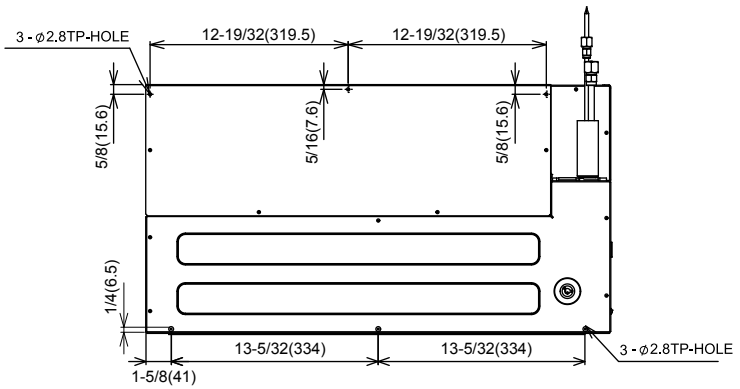
Unit: inch(mm)



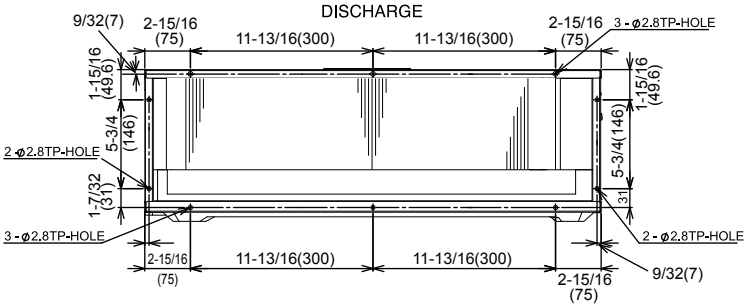


BACK SUCTION





DISCHARGE



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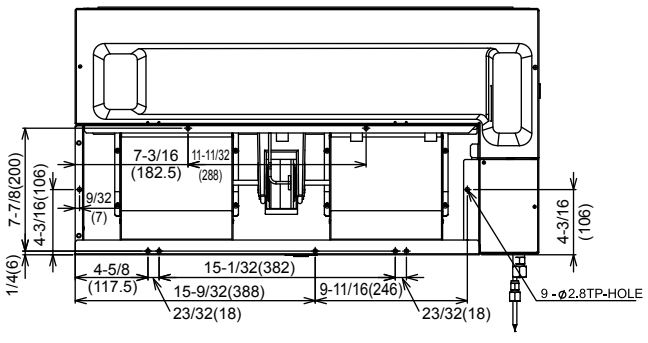
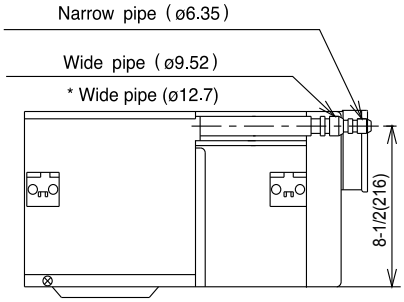
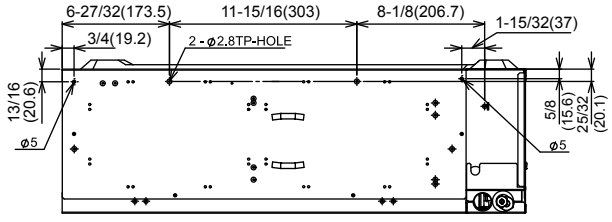
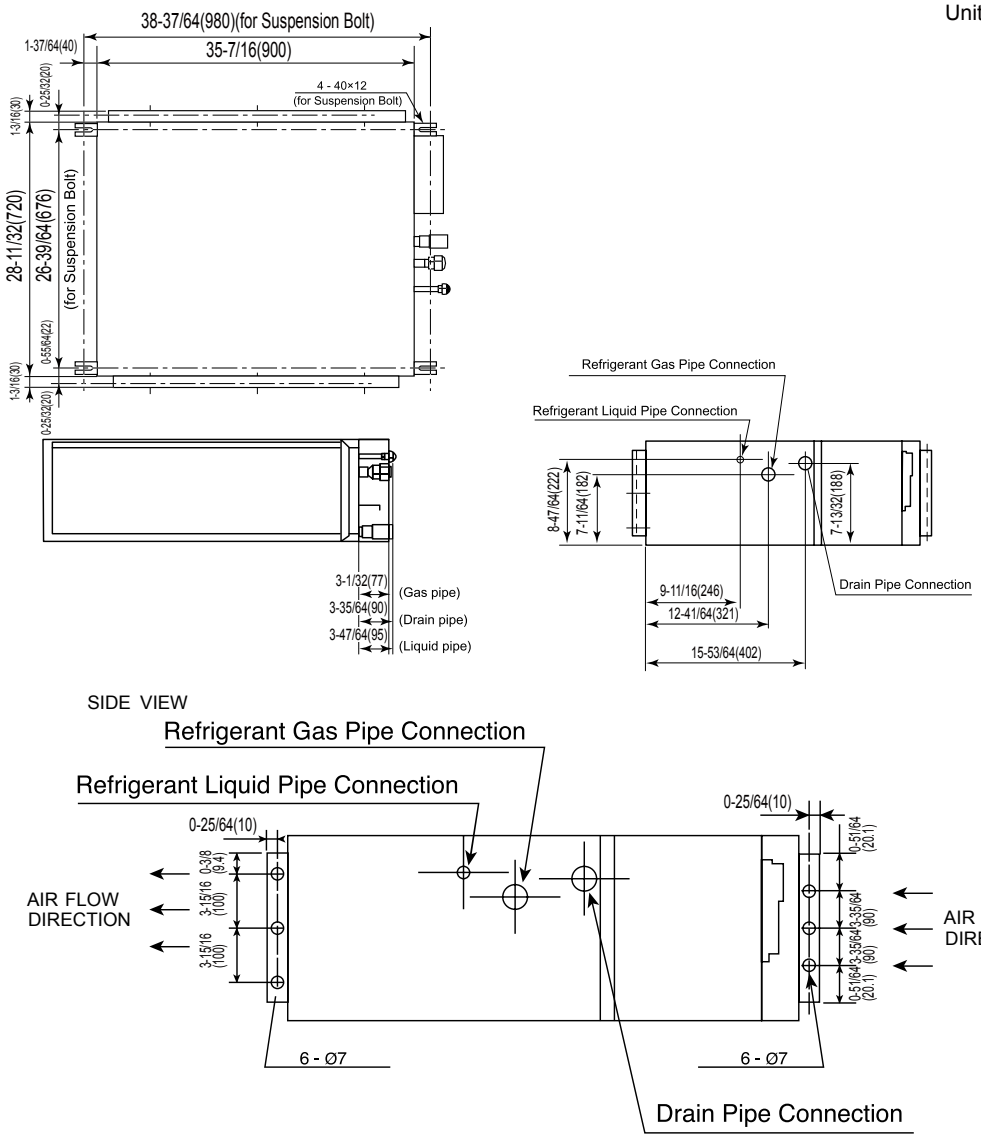






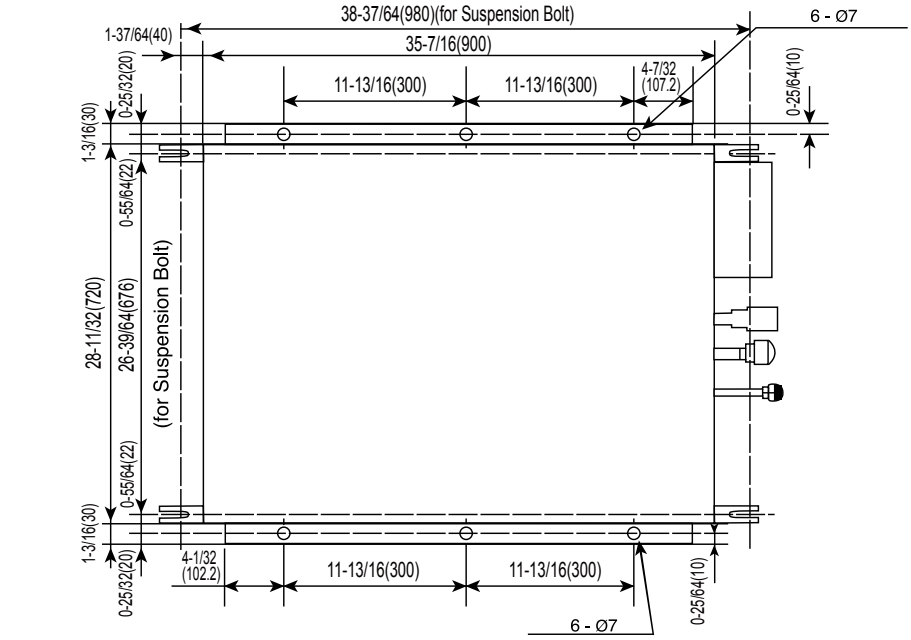
2.1.7. DUCT TYPE: RAD-GJ18QHAA / GJ24QHAA

Unit:inch(mm)



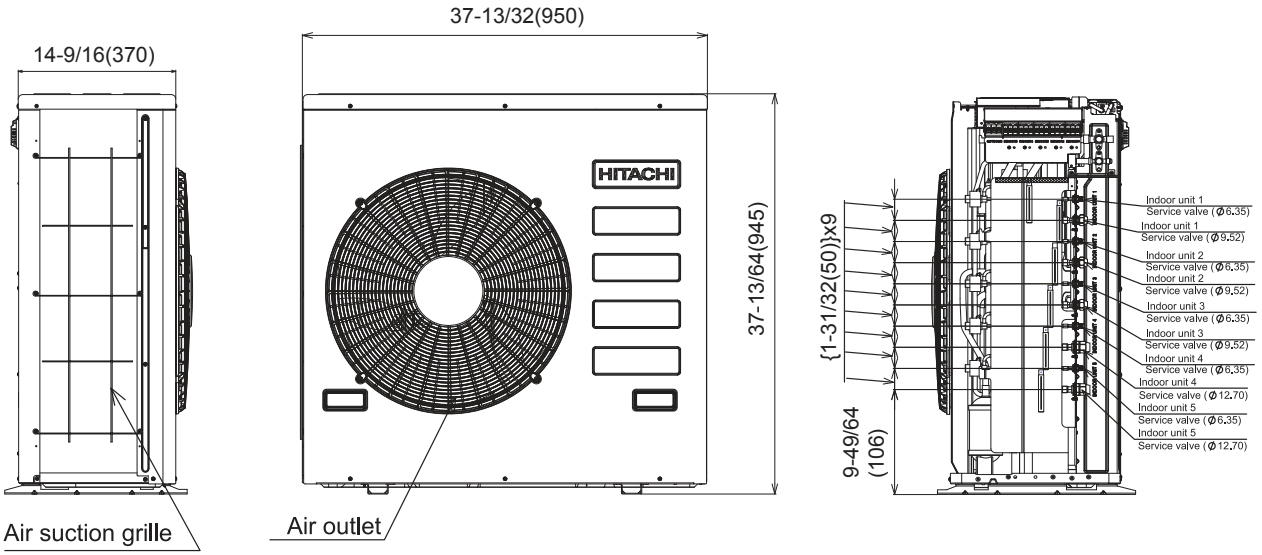
SIDE VIEW

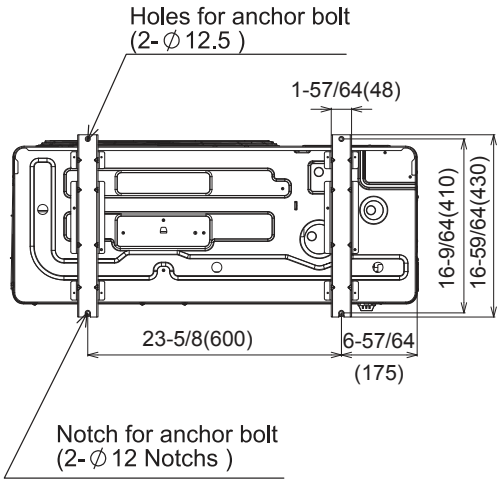
TOP VIEW

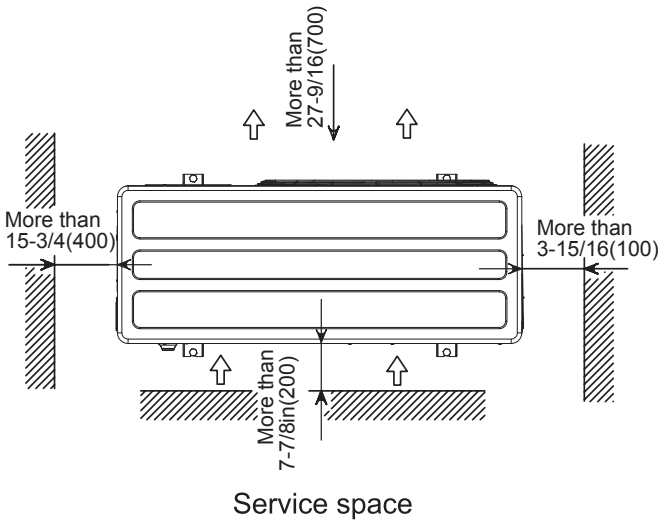


2.2.1. 5 ROOMS MULTIZONE: RAM-G42N5HAA

Unit: inch(mm)







3 CAPACITIES AND SELECTION DATA

CONTENTS

3.1. SYSTEM SELECTION PROCEDURE

The following system procedure is giving a sample regarding unit selection system, indicating how to use all parameters showed in this chapter.

3.1.1. SELECTION UNIT FEATURES

Considering the building distribution, the possible indoor unit position and the available air flow distribution, select the unit features that are giving the best efficiency and comfort to each room.
Decide the Outdoor Unit position getting easy service maintenance and easy refrigerant pipe installation.

Therefore, the maximum indoor unit capacity combined with outdoor unit should be carefully considered for correct indoor unit distribution at each building

3.1.2. SELECTION GUIDE

The following guide giving the method for indoor and outdoor unit selection.

* **Step 1: Determine the system requirements**

  Calculate the cooling capacity and heating capacity of each indoor unit according to the following conditions:

Total Load for each room

Item		Room					
		1	2	3	4	5	1+2+3+4+5
Estimated Cooling Load	kW	2.46	2.50	2.51	2.53	2.59	12.59
Estimated Heating Load	kW	2.94	2.94	3.17	3.08	2.98	15.11

*Example

Temperature Condition

Cooling	Heating
Outdoor Air Inlet • Dry Bulb: 95°F	Outdoor Air Inlet • Dry Bulb: 47°F • Wet Bulb:43°F
Indoor Air Inlet • Dry Bulb: 80°F • Wet Bulb: 67°F	Indoor Air Inlet • Dry Bulb: 70°F

*Example

* **Step 2**: **Select Unit Capacity Performance**

  The unit kW is selected following the Cooling capacity and Heating capacity showed in the combination table.

* **Step 3**: **Read Selected Capacity Performance**

  The unit performance should be calculated considering the following correction factors:
  1. Cooling and Heating piping length
  2. Outdoor unit performance capacity
  3. Indoor unit performance capacity for each room cooling load

Kindly refer to the unit selection combination table for correct capacity performance.

3.2. CAPACITY CHARACTERISTIC CURVES FOR MULTIZONE

The following charts show the characteristics of outdoor unit capacity, which corresponds with the operating ambient temperature of outdoor unit.

Conditions:

①Pipe length / height difference : 7.5m / 0m

②Indoor fan speed at High mode

③Capacity loss due to white frost and defrost operation is not included.

RAM-G42N5HAA

COOLING [60Hz, 230V]

	INDOOR		OUTDOOR TEMPERATURE (°FDW)																									
	EWB	EDB	14			70			81			90			95			104			110			115					
	°F	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI		
7K	54	64	5810	5324	476	6580	7098	565	6090	6552	666	5740	6211	736	5530	5938	768	5180	5597	824	4970	5324	856	4620	4982	912		
	57	68	5810	5324	476	7070	7098	565	6580	6620	674	6160	6211	744	5950	6006	776	5530	5597	832	5320	5392	872	4970	5051	928		
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9K+12K+24K	54	64	37350	34223	2000	42300	45630	2375	39150	42120	2799	36900	39926	3091	35550	38171	3226	33300	35978	3461	31950	34223	3595	29700	32029	3830
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12K+12K+12K	54	64	29880	27378	1907	33840	36504	2264	31320	33696	2668	29520	31941	2947	28440	30537	3075	26640	28782	3299	25560	27378	3428	23760	25623	3652
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7K+7K+7K+7K	54	64	23240	21294	1689	26320	28392	2006	24360	26208	2364	22960	24843	2611	22120	23751	2724	20720	22386	2923	19880	21294	3036	18480	19929	3235
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7K+7K+7K+9K	54	64	24900	22815	1751	28200	30420	2079	26100	28080	2451	24600	26618	2707	23700	25448	2824	22200	23985	3030	21300	22815	3148	19800	21353	3354
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7K+7K+7K+12K	54	64	27390	25097	1844	31020	33462	2190	28710	30888	2581	27060	29279	2851	26070	27992	2975	24420	26384	3192	23430	25097	3316	21780	23488	3533
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7K+7K+7K+18K	54	64	32370	29660	1969	36660	39546	2338	33930	36504	2755	31980	34603	3043	30810	33082	3175	28860	31181	3407	27690	29660	3539	25740	27758	3771
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7K+7K+9K+9K	54	64	26560	24336	1813	30080	32448	2153	27840	29952	2538	26240	28392	2803	25280	27144	2925	23680	25584	3138	22720	24336	3260	21120	22776	3473
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7K+7K+9K+18K	54	64	34030	31181	2040	38540	41574	2423	35670	38376	2856	33620	36377	3154	32390	34778	3291	30340	32780	3531	29110	31181	3668	27060	29182	3908
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7K+7K+12K+18K	54	64	36520	33462	2162	41360	44616	2567	38280	41184	3025	36080	39039	3341	34760	37323	3487	32560	35178	3741	31240	33462	3886	29040	31317	4140
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	72	86	44880	39039	2263	58080	50622	2668	53680	46761	3168	50600	44187	3523	48840	42471	3668	44000	41184	4032	40920	40326	4249	38720	38181	4504
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7K+9K+9K+9K	54	64	28220	25857	1875	31960	34476	2227	29580	31824	2625	27880	30167	2899	26860	28841	3025	25160	27183	3246	24140	25857	3372	22440	24200	3592
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7K+9K+9K+24K	54	64	39840	36504	2202	45120	48672	2615	41760	44928	3082	39360	42588	3404	37920	40716	3552	35520	38376	3811	34080	36504	3959	31680	34164	4218
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7K+9K+12K+12K	54	64	33200	30420	2081	37600	40560	2471	34800	37440	2912	32800	35490	3216	31600	33930	3356	29600	31980	3601	28400	30420	3741	26400	28470	3985
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7K+9K+12K+18K	54	64	38180	34983	2202	43240	46644	2615	40020	43056	3082	37720	40814	3404	36340	39020	3552	34040	36777	3811	32660	34983	3959	30360	32741	4218
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9K+9K+12K+24K	54	64	39840	36504	2202	45120	48672	2615	41760	44928	3082	39360	42588	3404	37920	40716	3552	35520	38376	3811	34080	36504	3959	31680	34164	4218
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7K+7K+7K+7K+24K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
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7K+7K+7K+9K+9K	54	64	32370	29660	1969	36660	39546	2338	33930	36504	2755	31980	34603	3043	30810	33082	3175	28860	31181	3407	27690	29660	3539	25740	27758	3771
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7K+7K+7K+9K+12K	54	64	34860	31941	2000	39480	42588	2375	36540	39312	2799	34440	37265	3091	33180	35627	3226	31080	33579	3461	29820	31941	3595	27720	29894	3830
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	66	**81**	38640	37674	2094	49980	48731	2469	46200	45045	2931	43680	42588	3226	42000	40950	3360	29140	38493	3595	37800	36855	3730	35700	34808	3965
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7K+7K+7K+9K+18K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
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	66	**81**	44160	43056	2136	57120	55692	2519	52800	51480	2990	49920	48672	3291	48000	46800	3428	29140	43992	3668	43200	42120	3805	40800	39780	4045
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7K+7K+7K+12K+12K	54	64	37350	34223	2040	42300	45630	2423	39150	42120	2856	36900	39926	3154	35550	38171	3291	33300	35978	3531	31950	34223	3668	29700	32029	3908
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7K+7K+7K+12K+18K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
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7K+7K+9K+9K+9K	54	64	34030	31181	2000	38540	41574	2375	35670	38376	2799	33620	36377	3091	32390	34778	3226	30340	32780	3461	29110	31181	3595	27060	29182	3830
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7K+7K+9K+9K+12K	54	64	36520	33462	2040	41360	44616	2423	38280	41184	2856	36080	39039	3154	34760	37323	3291	32560	35178	3531	31240	33462	3668	29040	31317	3908
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7K+7K+9K+9K+18K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
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	66	**81**	44160	43056	2136	57120	55692	2519	52800	51480	2990	49920	48672	3291	48000	46800	3428	29140	43992	3668	43200	42120	3805	40800	39780	4045
	72	86	48960	42588	2136	63360	55224	2519	58560	51012	2990	55200	48204	3325	53280	46332	3462	48000	44928	3805	44640	43992	4011	42240	41652	4251
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7K+7K+9K+12K+12K	54	64	39010	35744	2040	44180	47658	2423	40890	43992	2856	38540	41701	3154	37130	39868	3291	34780	37577	3531	33370	35744	3668	31020	33452	3908
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7K+7K+9K+12K+18K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
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7K+7K+9K+12K+24K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
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7K+7K+12K+12K+12K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
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7K+7K+12K+12K+18K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
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7K+9K+9K+9K+9K	54	64	35690	32702	2040	40420	43602	2423	37410	40248	2856	35260	38152	3154	33970	36475	3291	31820	34379	3531	30530	32702	3668	28380	30605	3908
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7K+9K+9K+9K+12K	54	64	38180	34983	2040	43240	46644	2423	40020	43056	2856	37720	40814	3154	36340	39020	3291	34040	36777	3531	32660	34983	3668	30360	32741	3908
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7K+9K+9K+9K+18K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
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7K+9K+9K+12K+12K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
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7K+12K+12K+12K+12K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
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9K+9K+9K+9K+12K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
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	66	**81**	44160	43056	2136	57120	55692	2519	52800	51480	2990	49920	48672	3291	48000	46800	3428	29140	43992	3668	43200	42120	3805	40800	39780	4045
	72	86	48960	42588	2136	63360	55224	2519	58560	51012	2990	55200	48204	3325	53280	46332	3462	48000	44928	3805	44640	43992	4011	42240	41652	4251
	75	90	52320	42588	2168	67680	55224	2550	62400	51012	3023	59040	48204	3325	56640	46332	3497	49920	45864	3908	45600	45396	4148	43200	43056	4388
9K+9K+9K+9K+18K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
	57	68	39840	36504	2040	48480	48672	2423	45120	45396	2889	42240	42588	3188	40800	41184	3325	37920	38376	3565	36480	36972	3737	34080	34632	3976
	61	72	39840	38844	2072	51840	48672	2455	48000	45396	2923	45120	42588	3222	43680	41184	3394	40800	38376	3634	39360	36972	3771	36960	34632	4011
	64	77	42720	41652	2104	55200	52884	2487	50880	49140	2956	48000	46332	3257	46080	44460	3394	43200	41652	3668	41280	39780	3805	38880	37440	4045
	66	**81**	44160	43056	2136	57120	55692	2519	52800	51480	2990	49920	48672	3291	48000	46800	3428	29140	43992	3668	43200	42120	3805	40800	39780	4045
	72	86	48960	42588	2136	63360	55224	2519	58560	51012	2990	55200	48204	3325	53280	46332	3462	48000	44928	3805	44640	43992	4011	42240	41652	4251
	75	90	52320	42588	2168	67680	55224	2550	62400	51012	3023	59040	48204	3325	56640	46332	3497	49920	45864	3908	45600	45396	4148	43200	43056	4388
9K+9K+9K+9K+24K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
	57	68	39840	36504	2040	48480	48672	2423	45120	45396	2889	42240	42588	3188	40800	41184	3325	37920	38376	3565	36480	36972	3737	34080	34632	3976
	61	72	39840	38844	2072	51840	48672	2455	48000	45396	2923	45120	42588	3222	43680	41184	3394	40800	38376	3634	39360	36972	3771	36960	34632	4011
	64	77	42720	41652	2104	55200	52884	2487	50880	49140	2956	48000	46332	3257	46080	44460	3394	43200	41652	3668	41280	39780	3805	38880	37440	4045
	66	**81**	44160	43056	2136	57120	55692	2519	52800	51480	2990	49920	48672	3291	48000	46800	3428	29140	43992	3668	43200	42120	3805	40800	39780	4045
	72	86	48960	42588	2136	63360	55224	2519	58560	51012	2990	55200	48204	3325	53280	46332	3462	48000	44928	3805	44640	43992	4011	42240	41652	4251
	75	90	52320	42588	2168	67680	55224	2550	62400	51012	3023	59040	48204	3325	56640	46332	3497	49920	45864	3908	45600	45396	4148	43200	43056	4388
9K+9K+9K+12K+12K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
	57	68	39840	36504	2040	48480	48672	2423	45120	45396	2889	42240	42588	3188	40800	41184	3325	37920	38376	3565	36480	36972	3737	34080	34632	3976
	61	72	39840	38844	2072	51840	48672	2455	48000	45396	2923	45120	42588	3222	43680	41184	3394	40800	38376	3634	39360	36972	3771	36960	34632	4011
	64	77	42720	41652	2104	55200	52884	2487	50880	49140	2956	48000	46332	3257	46080	44460	3394	43200	41652	3668	41280	39780	3805	38880	37440	4045
	66	**81**	44160	43056	2136	57120	55692	2519	52800	51480	2990	49920	48672	3291	48000	46800	3428	29140	43992	3668	43200	42120	3805	40800	39780	4045
	72	86	48960	42588	2136	63360	55224	2519	58560	51012	2990	55200	48204	3325	53280	46332	3462	48000	44928	3805	44640	43992	4011	42240	41652	4251
	75	90	52320	42588	2168	67680	55224	2550	62400	51012	3023	59040	48204	3325	56640	46332	3497	49920	45864	3908	45600	45396	4148	43200	43056	4388
9K+9K+9K+12K+18K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
	57	68	39840	36504	2040	48480	48672	2423	45120	45396	2889	42240	42588	3188	40800	41184	3325	37920	38376	3565	36480	36972	3737	34080	34632	3976
	61	72	39840	38844	2072	51840	48672	2455	48000	45396	2923	45120	42588	3222	43680	41184	3394	40800	38376	3634	39360	36972	3771	36960	34632	4011
	64	77	42720	41652	2104	55200	52884	2487	50880	49140	2956	48000	46332	3257	46080	44460	3394	43200	41652	3668	41280	39780	3805	38880	37440	4045
	66	**81**	44160	43056	2136	57120	55692	2519	52800	51480	2990	49920	48672	3291	48000	46800	3428	29140	43992	3668	43200	42120	3805	40800	39780	4045
	72	86	48960	42588	2136	63360	55224	2519	58560	51012	2990	55200	48204	3325	53280	46332	3462	48000	44928	3805	44640	43992	4011	42240	41652	4251
	75	90	52320	42588	2168	67680	55224	2550	62400	51012	3023	59040	48204	3325	56640	46332	3497	49920	45864	3908	45600	45396	4148	43200	43056	4388
9K+9K+12K+12K+12K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
	57	68	39840	36504	2040	48480	48672	2423	45120	45396	2889	42240	42588	3188	40800	41184	3325	37920	38376	3565	36480	36972	3737	34080	34632	3976
	61	72	39840	38844	2072	51840	48672	2455	48000	45396	2923	45120	42588	3222	43680	41184	3394	40800	38376	3634	39360	36972	3771	36960	34632	4011
	64	77	42720	41652	2104	55200	52884	2487	50880	49140	2956	48000	46332	3257	46080	44460	3394	43200	41652	3668	41280	39780	3805	38880	37440	4045
	66	**81**	44160	43056	2136	57120	55692	2519	52800	51480	2990	49920	48672	3291	48000	46800	3428	29140	43992	3668	43200	42120	3805	40800	39780	4045
	72	86	48960	42588	2136	63360	55224	2519	58560	51012	2990	55200	48204	3325	53280	46332	3462	48000	44928	3805	44640	43992	4011	42240	41652	4251
	75	90	52320	42588	2168	67680	55224	2550	62400	51012	3023	59040	48204	3325	56640	46332	3497	49920	45864	3908	45600	45396	4148	43200	43056	4388
9K+12K+12K+12K+12K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
	57	68	39840	36504	2040	48480	48672	2423	45120	45396	2889	42240	42588	3188	40800	41184	3325	37920	38376	3565	36480	36972	3737	34080	34632	3976
	61	72	39840	38844	2072	51840	48672	2455	48000	45396	2923	45120	42588	3222	43680	41184	3394	40800	38376	3634	39360	36972	3771	36960	34632	4011
	64	77	42720	41652	2104	55200	52884	2487	50880	49140	2956	48000	46332	3257	46080	44460	3394	43200	41652	3668	41280	39780	3805	38880	37440	4045
	66	**81**	44160	43056	2136	57120	55692	2519	52800	51480	2990	49920	48672	3291	48000	46800	3428	29140	43992	3668	43200	42120	3805	40800	39780	4045
	72	86	48960	42588	2136	63360	55224	2519	58560	51012	2990	55200	48204	3325	53280	46332	3462	48000	44928	3805	44640	43992	4011	42240	41652	4251
	75	90	52320	42588	2168	67680	55224	2550	62400	51012	3023	59040	48204	3325	56640	46332	3497	49920	45864	3908	45600	45396	4148	43200	43056	4388
12K+12K+12K+12K+12K	54	64	39840	36504	2040	45120	48672	2423	41760	44928	2856	39360	42588	3154	37920	40716	3291	35520	38376	3531	34080	36504	3668	31680	34164	3908
	57	68	39840	36504	2040	48480	48672	2423	45120	45396	2889	42240	42588	3188	40800	41184	3325	37920	38376	3565	36480	36972	3737	34080	34632	3976
	61	72	39840	38844	2072	51840	48672	2455	48000	45396	2923	45120	42588	3222	43680	41184	3394	40800	38376	3634	39360	36972	3771	36960	34632	4011
	64	77	42720	41652	2104	55200	52884	2487	50880	49140	2956	48000	46332	3257	46080	44460	3394	43200	41652	3668	41280	39780	3805	38880	37440	4045
	66	**81**	44160	43056	2136	57120	55692	2519	52800	51480	2990	49920	48672	3291	48000	46800	3428	29140	43992	3668	43200	42120	3805	40800	39780	4045
	72	86	48960	42588	2136	63360	55224	2519	58560	51012	2990	55200	48204	3325	53280	46332	3462	48000	44928	3805	44640	43992	4011	42240	41652	4251
	75	90	52320	42588	2168	67680	55224	2550	62400	51012	3023	59040	48204	3325	56640	46332	3497	49920	45864	3908	45600	45396	4148	43200	43056	4388

EWB : Evaporator Wet Bulb temperature (°F)

EDB : Evaporator Dry Bulb temperature (°F)

(°FDB) : Outdoor Unit Inlet Air Dry Temperature (°F)

TC : Total Capacity (Btu)

SHC : Sensible Heating Capacity (Btu)

PI : Power Input (W)

HEATING [60Hz, 230V]

	INDOOR	OUTDOOR TEMPERATURE (°FDW)																										
	EDB	-4			5			14			17			23			32			47			50			59		
	°F	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
7K	61	2691	0	1095	3240	0	1184	5130	0	1216	5848	0	1267	6327	0	1302	7704	0	1457	9099	0	1477	9927	0	1517	11457	0	1592
	64	2653	0	1110	3195	0	1200	5085	0	1232	5792	0	1294	6264	0	1336	7623	0	1494	9054	0	1552	9891	0	1584	11412	0	1667
	68	**4900**	0	**1745**	**5900**	0	**1887**	**6815**	0	**1975**	**7200**	0	**2007**	**7789**	0	**2085**	**8763**	0	**2195**	**9000**	0	**1600**	9675	0	1656	11340	0	1744
	72	2579	0	1139	3105	0	1232	4995	0	1264	5670	0	1342	6120	0	1395	7479	0	1557	8946	0	1664	9783	0	1716	11286	0	1816
	75	2541	0	1154	3060	0	1248	4950	0	1280	5621	0	1368	6066	0	1429	7416	0	1593	8892	0	1728	9729	0	1782	11124	0	1889
9K	61	3588	0	1123	4320	0	1214	6840	0	1247	7797	0	1300	8436	0	1336	10272	0	1495	12132	0	1515	13236	0	1556	15276	0	1633
	64	3538	0	1138	4260	0	1231	6780	0	1264	7722	0	1328	8352	0	1370	10164	0	1533	12072	0	1592	13188	0	1625	15216	0	1710
	68	**6533**	0	**1791**	**7867**	0	**1936**	**9086**	0	**2026**	**9600**	0	**2059**	**10385**	0	**2139**	**11684**	0	**2252**	**12000**	0	**1641**	12900	0	1698	15120	0	1789
	72	3438	0	1169	4140	0	1264	6660	0	1296	7560	0	1377	8160	0	1431	9972	0	1597	11928	0	1707	13044	0	1761	15048	0	1863
	75	3388	0	1184	4080	0	1280	6600	0	1313	7494	0	1404	8088	0	1465	9888	0	1634	11856	0	1772	12972	0	1828	14832	0	1938
12K	61	4903	0	1180	5904	0	1275	9348	0	1310	10656	0	1365	11529	0	1403	14038	0	1570	16580	0	1591	18089	0	1634	20877	0	1715
	64	4835	0	1196	5822	0	1293	9266	0	1327	10553	0	1394	11414	0	1439	13891	0	1610	16498	0	1672	18024	0	1706	20795	0	1796
	68	**8929**	0	**1881**	**10751**	0	**2033**	**12418**	0	**2128**	**13120**	0	**2163**	**14193**	0	**2247**	**15969**	0	**2365**	**16400**	0	**1724**	17630	0	1784	20664	0	1879
	72	4699	0	1227	5658	0	1327	9102	0	1362	10332	0	1446	11152	0	1503	13628	0	1677	16302	0	1793	17827	0	1849	20566	0	1956
	75	4631	0	1243	5576	0	1344	9020	0	1379	10242	0	1474	11054	0	1539	13514	0	1717	16203	0	1861	17728	0	1920	20270	0	2036
18K	61	6129	0	1377	7380	0	1489	11685	0	1530	13320	0	1594	14412	0	1638	17548	0	1833	20726	0	1858	22612	0	1908	26097	0	2003
	64	6044	0	1396	7278	0	1509	11583	0	1550	13192	0	1628	14268	0	1681	17364	0	1880	20623	0	1952	22530	0	1992	25994	0	2097
	68	**11161**	0	**2196**	**13439**	0	**2374**	**15522**	0	**2485**	**16400**	0	**2525**	**17741**	0	**2623**	**19961**	0	**2761**	**20500**	0	**2013**	22038	0	2083	25830	0	2194
	72	5874	0	1433	7073	0	1550	11378	0	1590	12915	0	1689	13940	0	1755	17036	0	1958	20377	0	2093	22284	0	2160	25707	0	2284
	75	5789	0	1452	6970	0	1570	11275	0	1610	12802	0	1722	13817	0	1797	16892	0	2005	20254	0	2174	22161	0	2242	25338	0	2377
24K	61	8162	0	1643	9828	0	1776	15561	0	1824	17738	0	1901	19192	0	1954	23369	0	2186	27600	0	2215	30112	0	2275	34753	0	2388
	64	8049	0	1665	9692	0	1800	15425	0	1848	17568	0	1942	19001	0	2004	23123	0	2242	27464	0	2328	30003	0	2376	34616	0	2501
	68	**14863**	0	**2619**	**17897**	0	**2831**	**20671**	0	**2963**	**21840**	0	**3011**	**23626**	0	**3128**	**26582**	0	**3293**	**27300**	0	**2400**	29348	0	2484	34398	0	2616
	72	7822	0	1709	9419	0	1848	15152	0	1896	17199	0	2014	18564	0	2093	22686	0	2335	27136	0	2496	29675	0	2575	34234	0	2724
	75	7709	0	1731	9282	0	1872	15015	0	1920	17049	0	2053	18400	0	2143	22495	0	2390	26972	0	2592	29511	0	2674	33743	0	2834
7K+7K	61	4479	0	1406	5393	0	1520	8539	0	1561	9733	0	1627	10531	0	1672	12823	0	1871	15145	0	1896	16523	0	1947	19070	0	2044
	64	4416	0	1425	5318	0	1540	8464	0	1582	9640	0	1662	10426	0	1715	12688	0	1918	15070	0	1992	16463	0	2033	18995	0	2140
	68	**8156**	0	**2241**	**9820**	0	**2423**	**11342**	0	**2536**	**11984**	0	**2577**	**12964**	0	**2677**	**14586**	0	**2818**	**14980**	0	**2054**	16104	0	2126	18875	0	2239
	72	4292	0	1463	5168	0	1582	8314	0	1623	9437	0	1723	10186	0	1791	12448	0	1998	14890	0	2136	16283	0	2204	18785	0	2331
	75	4230	0	1482	5093	0	1602	8239	0	1643	9355	0	1757	10097	0	1834	12344	0	2046	14800	0	2218	16193	0	2288	18515	0	2426
7K+9K	61	5119	0	1462	6163	0	1581	9758	0	1624	11124	0	1692	12035	0	1739	14655	0	1946	17308	0	1972	18883	0	2025	21794	0	2126
	64	5047	0	1482	6078	0	1602	9673	0	1645	11017	0	1728	11916	0	1784	14501	0	1995	17223	0	2072	18815	0	2115	21708	0	2226
	68	**9321**	0	**2331**	**11223**	0	**2521**	**12963**	0	**2638**	**13696**	0	**2681**	**14816**	0	**2785**	**16670**	0	**2931**	**17120**	0	**2136**	18404	0	2211	21571	0	2329
	72	4905	0	1521	5906	0	1645	9502	0	1688	10786	0	1793	11642	0	1863	14227	0	2079	17017	0	2222	18609	0	2292	21468	0	2425
	75	4834	0	1541	5821	0	1666	9416	0	1709	10691	0	1828	11539	0	1908	14107	0	2128	16915	0	2307	18507	0	2380	21160	0	2523
7K+12K	61	6078	0	1547	7319	0	1673	11588	0	1718	13209	0	1790	14292	0	1840	17402	0	2059	20554	0	2086	22424	0	2143	25880	0	2249
	64	5994	0	1568	7217	0	1695	11486	0	1740	13082	0	1829	14150	0	1887	17220	0	2111	20452	0	2193	22343	0	2238	25778	0	2355
	68	**11068**	0	**2466**	**13328**	0	**2667**	**15393**	0	**2791**	**16264**	0	**2836**	**17594**	0	**2946**	**19795**	0	**3101**	**20330**	0	**2260**	21855	0	2339	25616	0	2464
	72	5825	0	1610	7014	0	1740	11283	0	1786	12808	0	1896	13824	0	1971	16894	0	2199	20208	0	2351	22099	0	2425	25494	0	2566
	75	5741	0	1631	6912	0	1763	11182	0	1808	12696	0	1934	13702	0	2019	16752	0	2251	20086	0	2441	21977	0	2518	25128	0	2669
7K+18K	61	7998	0	1660	9630	0	1795	15248	0	1843	17381	0	1921	18805	0	1974	22898	0	2210	27044	0	2239	29505	0	2299	34053	0	2413
	64	7887	0	1682	9496	0	1819	15114	0	1868	17214	0	1962	18618	0	2025	22657	0	2265	26911	0	2353	29398	0	2401	33919	0	2527
	68	**14564**	0	**2647**	**17536**	0	**2862**	**20254**	0	**2995**	**21400**	0	**3043**	**23150**	0	**3161**	**26046**	0	**3328**	**26750**	0	**2426**	28756	0	2510	33705	0	2644
	72	7664	0	1727	9229	0	1868	14846	0	1916	16853	0	2035	18190	0	2115	22229	0	2360	26590	0	2523	29077	0	2603	33545	0	2753
	75	7553	0	1750	9095	0	1892	14713	0	1940	16705	0	2075	18030	0	2166	22042	0	2416	26429	0	2620	28917	0	2702	33063	0	2865
7K+24K	61	9917	0	1830	11941	0	1978	18907	0	2032	21552	0	2117	23319	0	2176	28394	0	2435	33535	0	2467	36587	0	2534	42225	0	2660
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9K+9K	61	5758	0	1519	6934	0	1642	10978	0	1686	12514	0	1758	13540	0	1806	16487	0	2022	19472	0	2048	21244	0	2104	24518	0	2208
	64	5678	0	1539	6837	0	1664	10882	0	1709	12394	0	1795	13405	0	1853	16313	0	2073	19376	0	2152	21167	0	2197	24422	0	2312
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	64	6625	0	1625	7977	0	1757	12696	0	1804	14459	0	1895	15639	0	1956	19032	0	2188	22605	0	2273	24695	0	2320	28492	0	2441
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9K+18K	61	8637	0	1717	10400	0	1856	16467	0	1906	18771	0	1986	20310	0	2042	24730	0	2285	29208	0	2315	31866	0	2378	36777	0	2496
	64	8518	0	1740	10256	0	1881	16323	0	1931	18591	0	2029	20107	0	2094	24470	0	2343	29063	0	2433	31750	0	2483	36633	0	2613
	68	**15729**	0	**2737**	**18939**	0	**2959**	**21875**	0	**3097**	**23112**	0	**3147**	**25002**	0	**3269**	**28130**	0	**3441**	**28890**	0	**2508**	31057	0	2596	36401	0	2734
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	75	8158	0	1809	9823	0	1956	15890	0	2006	18042	0	2145	19472	0	2240	23805	0	2498	28543	0	2709	31230	0	2794	35708	0	2962
9K+24K	61	10557	0	1886	12712	0	2039	20127	0	2094	22943	0	2183	24823	0	2243	30225	0	2511	35698	0	2544	38947	0	2613	44950	0	2742
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	75	9970	0	1988	12005	0	2150	19421	0	2205	22051	0	2357	23799	0	2461	29095	0	2745	34886	0	2976	38170	0	3070	43643	0	3255

12K+12K	61	7678	0	1688	9245	0	1825	14638	0	1875	16686	0	1954	18053	0	2008	21982	0	2247	25962	0	2277	28325	0	2339	32691	0	2454
	64	7571	0	1711	9116	0	1850	14509	0	1899	16525	0	1996	17873	0	2060	21751	0	2304	25834	0	2393	28222	0	2442	32562	0	2570
	68	**13981**	0	**2692**	**16835**	0	**2910**	**19444**	0	**3046**	**20544**	0	**3095**	**22224**	0	**3215**	**25004**	0	**3385**	**25680**	0	**2467**	27606	0	2553	32357	0	2689
	72	7358	0	1757	8860	0	1899	14252	0	1949	16178	0	2070	17462	0	2151	21340	0	2400	25526	0	2565	27914	0	2647	32203	0	2800
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	72	9197	0	1874	11075	0	2027	17816	0	2079	20223	0	2208	21828	0	2295	26675	0	2561	31907	0	2737	34893	0	2824	40253	0	2987
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	72	11037	0	2021	13289	0	2186	21379	0	2242	24268	0	2381	26194	0	2475	32010	0	2762	38289	0	2952	41871	0	3046	48304	0	3222
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7K+7K+7K	61	6718	0	1575	8089	0	1703	12808	0	1749	14600	0	1823	15796	0	1874	19234	0	2097	22717	0	2124	24784	0	2182	28604	0	2290
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	75	7855	0	1899	9459	0	2053	15301	0	2106	17374	0	2251	18751	0	2350	22924	0	2621	27486	0	2843	30073	0	2932	34386	0	3108
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7K+12K+12K	61	9917	0	2027	11941	0	2192	18907	0	2251	21552	0	2346	23319	0	2411	28394	0	2699	33535	0	2734	36587	0	2808	42225	0	2947
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	64	11672	0	2255	14054	0	2438	22368	0	2504	25476	0	2630	27555	0	2715	33533	0	3037	39828	0	3154	43509	0	3219	50200	0	3388
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7K+12K+24K	61	13756	0	2480	16564	0	2681	26226	0	2753	29895	0	2869	32345	0	2949	39385	0	3300	46516	0	3344	50749	0	3435	58571	0	3605
	64	13565	0	2513	16334	0	2717	25996	0	2790	29607	0	2931	32023	0	3025	38970	0	3384	46286	0	3514	50565	0	3587	58341	0	3775
	68	**25050**	0	**3953**	**30162**	0	**4274**	**34837**	0	**4473**	**36808**	0	**4546**	**39818**	0	**4722**	**44799**	0	**4971**	**46010**	0	**3623**	49461	0	3750	57973	0	3949
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	75	12992	0	2614	15643	0	2826	25306	0	2898	28733	0	3099	31011	0	3235	37912	0	3608	45458	0	3913	49737	0	4036	56868	0	4279
7K+18K+18K	61	13756	0	2423	16564	0	2620	26226	0	2691	29895	0	2804	32345	0	2882	39385	0	3225	46516	0	3268	50749	0	3356	58571	0	3523
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	75	12992	0	2554	15643	0	2761	25306	0	2832	28733	0	3028	31011	0	3162	37912	0	3526	45458	0	3824	49737	0	3944	56868	0	4181
7K+18K+24K	61	14351	0	2480	17280	0	2681	27360	0	2753	31188	0	2869	33744	0	2949	41088	0	3300	48528	0	3344	52944	0	3435	61104	0	3605
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12K+12K+12K	61	11517	0	2253	13867	0	2437	21956	0	2502	25028	0	2608	27080	0	2680	32973	0	3000	38944	0	3039	42488	0	3121	49036	0	3276
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12K+12K+18K	61	13436	0	2451	16178	0	2650	25616	0	2722	29200	0	2837	31593	0	2915	38469	0	3263	45434	0	3306	49569	0	3395	57209	0	3564
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12K+12K+24K	61	14351	0	2480	17280	0	2681	27360	0	2753	31188	0	2869	33744	0	2949	41088	0	3300	48528	0	3344	52944	0	3435	61104	0	3605
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12K+18K+18K	61	14351	0	2480	17280	0	2681	27360	0	2753	31188	0	2869	33744	0	2949	41088	0	3300	48528	0	3344	52944	0	3435	61104	0	3605
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12K+18K+24K	61	14351	0	2480	17280	0	2681	27360	0	2753	31188	0	2869	33744	0	2949	41088	0	3300	48528	0	3344	52944	0	3435	61104	0	3605
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12K+24K+24K	61	14351	0	2480	17280	0	2681	27360	0	2753	31188	0	2869	33744	0	2949	41088	0	3300	48528	0	3344	52944	0	3435	61104	0	3605
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	75	13554	0	2614	16320	0	2826	26400	0	2898	29976	0	3099	32352	0	3235	39552	0	3608	47424	0	3913	51888	0	4036	59328	0	4279

18K+18K+18K	61	14351	0	2480	17280	0	2681	27360	0	2753	31188	0	2869	33744	0	2949	41088	0	3300	48528	0	3344	52944	0	3435	61104	0	3605
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	75	13554	0	2614	16320	0	2826	26400	0	2898	29976	0	3099	32352	0	3235	39552	0	3608	47424	0	3913	51888	0	4036	59328	0	4279
18K+18K+24K	61	14351	0	2480	17280	0	2681	27360	0	2753	31188	0	2869	33744	0	2949	41088	0	3300	48528	0	3344	52944	0	3435	61104	0	3605
	64	14152	0	2513	17040	0	2717	27120	0	2790	30888	0	2931	33408	0	3025	40656	0	3384	48288	0	3514	52752	0	3587	60864	0	3775
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7K+7K+7K+7K	61	8957	0	1943	10786	0	2100	17077	0	2157	19467	0	2248	21062	0	2310	25646	0	2586	30290	0	2620	33046	0	2691	38139	0	2824
	64	8833	0	1969	10636	0	2129	16927	0	2186	19279	0	2296	20852	0	2370	25376	0	2651	30140	0	2753	32926	0	2810	37989	0	2958
	68	**16311**	0	**3097**	**19641**	0	**3349**	**22685**	0	**3505**	**23968**	0	**3562**	**25928**	0	**3700**	**29172**	0	**3894**	**29960**	0	**2838**	32207	0	2938	37750	0	3094
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	64	9464	0	2055	11396	0	2222	18137	0	2281	20656	0	2396	22342	0	2474	27189	0	2767	32293	0	2873	35278	0	2933	40703	0	3087
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	64	10410	0	2198	12535	0	2377	19950	0	2440	22722	0	2564	24576	0	2646	29908	0	2960	35522	0	3074	38806	0	3137	44773	0	3302
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7K+7K+7K+18K	61	12476	0	2366	15023	0	2559	23786	0	2628	27114	0	2739	29336	0	2815	35721	0	3150	42189	0	3192	46028	0	3278	53122	0	3440
	64	12303	0	2398	14814	0	2593	23577	0	2662	26853	0	2797	29044	0	2887	35345	0	3230	41980	0	3354	45861	0	3423	52914	0	3603
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	75	11783	0	2494	14188	0	2697	22952	0	2766	26060	0	2958	28126	0	3088	34386	0	3444	41229	0	3734	45110	0	3852	51578	0	4084
7K+7K+7K+24K	61	14351	0	2621	17280	0	2834	27360	0	2910	31188	0	3033	33744	0	3117	41088	0	3489	48528	0	3535	52944	0	3630	61104	0	3810
	64	14152	0	2656	17040	0	2872	27120	0	2949	30888	0	3098	33408	0	3198	40656	0	3577	48288	0	3714	52752	0	3791	60864	0	3990
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	72	13753	0	2727	16560	0	2949	26640	0	3025	30240	0	3213	32640	0	3339	39888	0	3726	47712	0	3983	52176	0	4109	60192	0	4346
	75	13554	0	2762	16320	0	2987	26400	0	3064	29976	0	3276	32352	0	3420	39552	0	3814	47424	0	4136	51888	0	4266	59328	0	4522
7K+7K+9K+9K	61	10237	0	2112	12326	0	2284	19517	0	2345	22247	0	2444	24071	0	2512	29309	0	2811	34617	0	2849	37767	0	2926	43588	0	3071
	64	10095	0	2141	12155	0	2315	19346	0	2376	22033	0	2497	23831	0	2577	29001	0	2882	34445	0	2994	37630	0	3055	43416	0	3216
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	64	11041	0	2284	13295	0	2469	21159	0	2535	24099	0	2664	26065	0	2749	31720	0	3075	37675	0	3194	41158	0	3260	47487	0	3431
	68	**20389**	0	**3593**	**24551**	0	**3884**	**28356**	0	**4065**	**29960**	0	**4131**	**32410**	0	**4292**	**36465**	0	**4518**	**37450**	0	**3293**	40259	0	3408	47187	0	3589
	72	10730	0	2345	12920	0	2535	20785	0	2601	23594	0	2762	25466	0	2871	31121	0	3204	37225	0	3424	40708	0	3533	46962	0	3737
	75	10575	0	2375	12733	0	2568	20598	0	2634	23388	0	2816	25241	0	2940	30859	0	3279	37001	0	3556	40483	0	3668	46288	0	3889
7K+7K+9K+18K	61	13116	0	2451	15793	0	2650	25006	0	2722	28505	0	2837	30841	0	2915	37553	0	3263	44353	0	3306	48389	0	3395	55847	0	3564
	64	12934	0	2484	15574	0	2686	24787	0	2758	28230	0	2898	30534	0	2991	37158	0	3345	44133	0	3474	48213	0	3546	55627	0	3732
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7K+7K+12K+12K	61	12156	0	2395	14638	0	2589	23176	0	2659	26419	0	2771	28584	0	2848	34805	0	3188	41107	0	3230	44848	0	3317	51760	0	3482
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	72	11650	0	2492	14028	0	2694	22566	0	2764	25616	0	2936	27649	0	3051	33788	0	3405	40416	0	3639	44197	0	3754	50988	0	3971
	75	11481	0	2524	13824	0	2729	22363	0	2799	25392	0	2993	27405	0	3125	33504	0	3485	40172	0	3779	43953	0	3898	50256	0	4132
7K+7K+12K+18K	61	14076	0	2593	16949	0	2803	26836	0	2879	30590	0	3000	33097	0	3084	40300	0	3451	47598	0	3496	51929	0	3591	59933	0	3769
	64	13880	0	2628	16713	0	2841	26600	0	2917	30296	0	3065	32768	0	3163	39877	0	3538	47362	0	3674	51741	0	3750	59697	0	3947
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	75	13294	0	2733	16007	0	2955	25894	0	3030	29401	0	3240	31732	0	3383	38794	0	3773	46515	0	4091	50893	0	4220	58191	0	4474
7K+7K+12K+24K	61	14351	0	2621	17280	0	2834	27360	0	2910	31188	0	3033	33744	0	3117	41088	0	3489	48528	0	3535	52944	0	3630	61104	0	3810
	64	14152	0	2656	17040	0	2872	27120	0	2949	30888	0	3098	33408	0	3198	40656	0	3577	48288	0	3714	52752	0	3791	60864	0	3990
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	75	13554	0	2762	16320	0	2987	26400	0	3064	29976	0	3276	32352	0	3420	39552	0	3814	47424	0	4136	51888	0	4266	59328	0	4522
7K+7K+18K+18K	61	14351	0	2621	17280	0	2834	27360	0	2910	31188	0	3033	33744	0	3117	41088	0	3489	48528	0	3535	52944	0	3630	61104	0	3810
	64	14152	0	2656	17040	0	2872	27120	0	2949	30888	0	3098	33408	0	3198	40656	0	3577	48288	0	3714	52752	0	3791	60864	0	3990
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7K+7K+18K+24K	61	14351	0	2621	17280	0	2834	27360	0	2910	31188	0	3033	33744	0	3117	41088	0	3489	48528	0	3535	52944	0	3630	61104	0	3810
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7K+9K+9K+12K	61	11837	0	2310	14252	0	2498	22566	0	2565	25724	0	2673	27832	0	2747	33889	0	3075	40025	0	3115	43668	0	3200	50398	0	3358
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7K+9K+9K+18K	61	13756	0	2536	16564	0	2742	26226	0	2816	29895	0	2935	32345	0	3016	39385	0	3376	46516	0	3420	50749	0	3513	58571	0	3687
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7K+9K+9K+24K	61	14351	0	2621	17280	0	2834	27360	0	2910	31188	0	3033	33744	0	3117	41088	0	3489	48528	0	3535	52944	0	3630	61104	0	3810
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7K+9K+12K+12K	61	12796	0	2480	15408	0	2681	24396	0	2753	27809	0	2869	30088	0	2949	36637	0	3300	43271	0	3344	47208	0	3435	54484	0	3605
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7K+9K+18K+18K	61	14351	0	2621	17280	0	2834	27360	0	2910	31188	0	3033	33744	0	3117	41088	0	3489	48528	0	3535	52944	0	3630	61104	0	3810
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7K+9K+18K+24K	61	14351	0	2621	17280	0	2834	27360	0	2910	31188	0	3033	33744	0	3117	41088	0	3489	48528	0	3535	52944	0	3630	61104	0	3810
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9K+9K+9K+24K	61	14351	0	2621	17280	0	2834	27360	0	2910	31188	0	3033	33744	0	3117	41088	0	3489	48528	0	3535	52944	0	3630	61104	0	3810
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9K+9K+18K+18K	61	14351	0	2621	17280	0	2834	27360	0	2910	31188	0	3033	33744	0	3117	41088	0	3489	48528	0	3535	52944	0	3630	61104	0	3810
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9K+12K+12K+12K	61	14351	0	2621	17280	0	2834	27360	0	2910	31188	0	3033	33744	0	3117	41088	0	3489	48528	0	3535	52944	0	3630	61104	0	3810
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12K+12K+12K+18K	61	14351	0	2621	17280	0	2834	27360	0	2910	31188	0	3033	33744	0	3117	41088	0	3489	48528	0	3535	52944	0	3630	61104	0	3810
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	72	13753	0	2698	16560	0	2917	26640	0	2993	30240	0	3178	32640	0	3303	39888	0	3686	47712	0	3940	52176	0	4065	60192	0	4299
	75	13554	0	2733	16320	0	2955	26400	0	3030	29976	0	3240	32352	0	3383	39552	0	3773	47424	0	4091	51888	0	4220	59328	0	4474
7K+9K+12K+12+K18K	61	14351	0	2593	17280	0	2803	27360	0	2879	31188	0	3000	33744	0	3084	41088	0	3451	48528	0	3496	52944	0	3591	61104	0	3769
	64	14152	0	2628	17040	0	2841	27120	0	2917	30888	0	3065	33408	0	3163	40656	0	3538	48288	0	3674	52752	0	3750	60864	0	3947
	68	**26133**	0	**4133**	**31467**	0	**4469**	**36344**	0	**4677**	**38400**	0	**4753**	**41541**	0	**4937**	**46737**	0	**5197**	**48000**	0	**3788**	51600	0	3921	60480	0	4129
	72	13753	0	2698	16560	0	2917	26640	0	2993	30240	0	3178	32640	0	3303	39888	0	3686	47712	0	3940	52176	0	4065	60192	0	4299
	75	13554	0	2733	16320	0	2955	26400	0	3030	29976	0	3240	32352	0	3383	39552	0	3773	47424	0	4091	51888	0	4220	59328	0	4474
7K+12K+12K+12K+12K	61	14351	0	2593	17280	0	2803	27360	0	2879	31188	0	3000	33744	0	3084	41088	0	3451	48528	0	3496	52944	0	3591	61104	0	3769
	64	14152	0	2628	17040	0	2841	27120	0	2917	30888	0	3065	33408	0	3163	40656	0	3538	48288	0	3674	52752	0	3750	60864	0	3947
	68	**26133**	0	**4133**	**31467**	0	**4469**	**36344**	0	**4677**	**38400**	0	**4753**	**41541**	0	**4937**	**46737**	0	**5197**	**48000**	0	**3788**	51600	0	3921	60480	0	4129
	72	13753	0	2698	16560	0	2917	26640	0	2993	30240	0	3178	32640	0	3303	39888	0	3686	47712	0	3940	52176	0	4065	60192	0	4299
	75	13554	0	2733	16320	0	2955	26400	0	3030	29976	0	3240	32352	0	3383	39552	0	3773	47424	0	4091	51888	0	4220	59328	0	4474
9K+9K+9K+9K+9K	61	14351	0	2593	17280	0	2803	27360	0	2879	31188	0	3000	33744	0	3084	41088	0	3451	48528	0	3496	52944	0	3591	61104	0	3769
	64	14152	0	2628	17040	0	2841	27120	0	2917	30888	0	3065	33408	0	3163	40656	0	3538	48288	0	3674	52752	0	3750	60864	0	3947
	68	**26133**	0	**4133**	**31467**	0	**4469**	**36344**	0	**4677**	**38400**	0	**4753**	**41541**	0	**4937**	**46737**	0	**5197**	**48000**	0	**3788**	51600	0	3921	60480	0	4129
	72	13753	0	2698	16560	0	2917	26640	0	2993	30240	0	3178	32640	0	3303	39888	0	3686	47712	0	3940	52176	0	4065	60192	0	4299
	75	13554	0	2733	16320	0	2955	26400	0	3030	29976	0	3240	32352	0	3383	39552	0	3773	47424	0	4091	51888	0	4220	59328	0	4474
9K+9K+9K+9K+12K	61	14351	0	2593	17280	0	2803	27360	0	2879	31188	0	3000	33744	0	3084	41088	0	3451	48528	0	3496	52944	0	3591	61104	0	3769
	64	14152	0	2628	17040	0	2841	27120	0	2917	30888	0	3065	33408	0	3163	40656	0	3538	48288	0	3674	52752	0	3750	60864	0	3947
	68	**26133**	0	**4133**	**31467**	0	**4469**	**36344**	0	**4677**	**38400**	0	**4753**	**41541**	0	**4937**	**46737**	0	**5197**	**48000**	0	**3788**	51600	0	3921	60480	0	4129
	72	13753	0	2698	16560	0	2917	26640	0	2993	30240	0	3178	32640	0	3303	39888	0	3686	47712	0	3940	52176	0	4065	60192	0	4299
	75	13554	0	2733	16320	0	2955	26400	0	3030	29976	0	3240	32352	0	3383	39552	0	3773	47424	0	4091	51888	0	4220	59328	0	4474
9K+9K+9K+9K+18K	61	14351	0	2593	17280	0	2803	27360	0	2879	31188	0	3000	33744	0	3084	41088	0	3451	48528	0	3496	52944	0	3591	61104	0	3769
	64	14152	0	2628	17040	0	2841	27120	0	2917	30888	0	3065	33408	0	3163	40656	0	3538	48288	0	3674	52752	0	3750	60864	0	3947
	68	**26133**	0	**4133**	**31467**	0	**4469**	**36344**	0	**4677**	**38400**	0	**4753**	**41541**	0	**4937**	**46737**	0	**5197**	**48000**	0	**3788**	51600	0	3921	60480	0	4129
	72	13753	0	2698	16560	0	2917	26640	0	2993	30240	0	3178	32640	0	3303	39888	0	3686	47712	0	3940	52176	0	4065	60192	0	4299
	75	13554	0	2733	16320	0	2955	26400	0	3030	29976	0	3240	32352	0	3383	39552	0	3773	47424	0	4091	51888	0	4220	59328	0	4474
9K+9K+9K+9K+24K	61	14351	0	2593	17280	0	2803	27360	0	2879	31188	0	3000	33744	0	3084	41088	0	3451	48528	0	3496	52944	0	3591	61104	0	3769
	64	14152	0	2628	17040	0	2841	27120	0	2917	30888	0	3065	33408	0	3163	40656	0	3538	48288	0	3674	52752	0	3750	60864	0	3947
	68	**26133**	0	**4133**	**31467**	0	**4469**	**36344**	0	**4677**	**38400**	0	**4753**	**41541**	0	**4937**	**46737**	0	**5197**	**48000**	0	**3788**	51600	0	3921	60480	0	4129
	72	13753	0	2698	16560	0	2917	26640	0	2993	30240	0	3178	32640	0	3303	39888	0	3686	47712	0	3940	52176	0	4065	60192	0	4299
	75	13554	0	2733	16320	0	2955	26400	0	3030	29976	0	3240	32352	0	3383	39552	0	3773	47424	0	4091	51888	0	4220	59328	0	4474
9K+9K+9K+12K+12K	61	14351	0	2593	17280	0	2803	27360	0	2879	31188	0	3000	33744	0	3084	41088	0	3451	48528	0	3496	52944	0	3591	61104	0	3769
	64	14152	0	2628	17040	0	2841	27120	0	2917	30888	0	3065	33408	0	3163	40656	0	3538	48288	0	3674	52752	0	3750	60864	0	3947
	68	**26133**	0	**4133**	**31467**	0	**4469**	**36344**	0	**4677**	**38400**	0	**4753**	**41541**	0	**4937**	**46737**	0	**5197**	**48000**	0	**3788**	51600	0	3921	60480	0	4129
	72	13753	0	2698	16560	0	2917	26640	0	2993	30240	0	3178	32640	0	3303	39888	0	3686	47712	0	3940	52176	0	4065	60192	0	4299
	75	13554	0	2733	16320	0	2955	26400	0	3030	29976	0	3240	32352	0	3383	39552	0	3773	47424	0	4091	51888	0	4220	59328	0	4474
9K+9K+9K+12K+18K	61	14351	0	2593	17280	0	2803	27360	0	2879	31188	0	3000	33744	0	3084	41088	0	3451	48528	0	3496	52944	0	3591	61104	0	3769
	64	14152	0	2628	17040	0	2841	27120	0	2917	30888	0	3065	33408	0	3163	40656	0	3538	48288	0	3674	52752	0	3750	60864	0	3947
	68	**26133**	0	**4133**	**31467**	0	**4469**	**36344**	0	**4677**	**38400**	0	**4753**	**41541**	0	**4937**	**46737**	0	**5197**	**48000**	0	**3788**	51600	0	3921	60480	0	4129
	72	13753	0	2698	16560	0	2917	26640	0	2993	30240	0	3178	32640	0	3303	39888	0	3686	47712	0	3940	52176	0	4065	60192	0	4299
	75	13554	0	2733	16320	0	2955	26400	0	3030	29976	0	3240	32352	0	3383	39552	0	3773	47424	0	4091	51888	0	4220	59328	0	4474
9K+9K+12K+12K+12K	61	14351	0	2593	17280	0	2803	27360	0	2879	31188	0	3000	33744	0	3084	41088	0	3451	48528	0	3496	52944	0	3591	61104	0	3769
	64	14152	0	2628	17040	0	2841	27120	0	2917	30888	0	3065	33408	0	3163	40656	0	3538	48288	0	3674	52752	0	3750	60864	0	3947
	68	**26133**	0	**4133**	**31467**	0	**4469**	**36344**	0	**4677**	**38400**	0	**4753**	**41541**	0	**4937**	**46737**	0	**5197**	**48000**	0	**3788**	51600	0	3921	60480	0	4129
	72	13753	0	2698	16560	0	2917	26640	0	2993	30240	0	3178	32640	0	3303	39888	0	3686	47712	0	3940	52176	0	4065	60192	0	4299
	75	13554	0	2733	16320	0	2955	26400	0	3030	29976	0	3240	32352	0	3383	39552	0	3773	47424	0	4091	51888	0	4220	59328	0	4474
12K+12K+12K+12K+12K	61	14351	0	2593	17280	0	2803	27360	0	2879	31188	0	3000	33744	0	3084	41088	0	3451	48528	0	3496	52944	0	3591	61104	0	3769
	64	14152	0	2628	17040	0	2841	27120	0	2917	30888	0	3065	33408	0	3163	40656	0	3538	48288	0	3674	52752	0	3750	60864	0	3947
	68	**26133**	0	**4133**	**31467**	0	**4469**	**36344**	0	**4677**	**38400**	0	**4753**	**41541**	0	**4937**	**46737**	0	**5197**	**48000**	0	**3788**	51600	0	3921	60480	0	4129
	72	13753	0	2698	16560	0	2917	26640	0	2993	30240	0	3178	32640	0	3303	39888	0	3686	47712	0	3940	52176	0	4065	60192	0	4299
	75	13554	0	2733	16320	0	2955	26400	0	3030	29976	0	3240	32352	0	3383	39552	0	3773	47424	0	4091	51888	0	4220	59328	0	4474

EWB : Evaporator Wet Bulb temperature (°F)

EDB : Evaporator Dry Bulb temperature (°F)

(°FDB) : Outdoor Unit Inlet Air Dry Temperature (°F)

TC : Total Capacity (Btu)

SHC : Sensible Heating Capacity (Btu)

PI : Power Input (W)

3.3. CORRECTION FACTORS ACCORDING TO PIPING LENGTH

Correction Factor for **Cooling Capacity** according to Piping Length

The cooling capacity should be corrected according to the following formula:

CCA = CC x F

CCA: Actual Corrected Cooling Capacity (kcal/h)
CC: Cooling Capacity in the Performance Table (kcal/h)
F: Correction Factor Based on the Equivalent Piping Length

Correction Factor for **Heating Capacity** according to Piping Length

The heating capacity should be corrected according to the following formula:

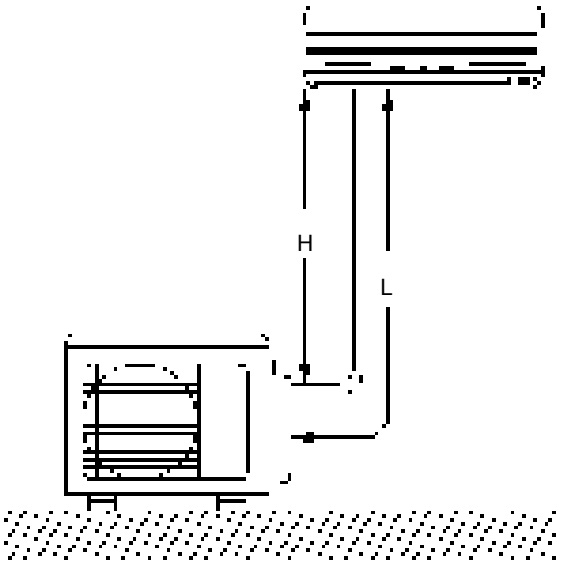
HCA= HC x F

HCA: Actual Corrected Heating Capacity (kcal/h)
HC: Heating Capacity in the Performance Table (kcal/h)
F: Correction Factor Based on the Equivalent Piping Length

The correction factors are shown in the following figure.

Equivalent Piping Length for:

- One 90º Elbow is 0.5m.
- One 180º Curve is 1.5m.



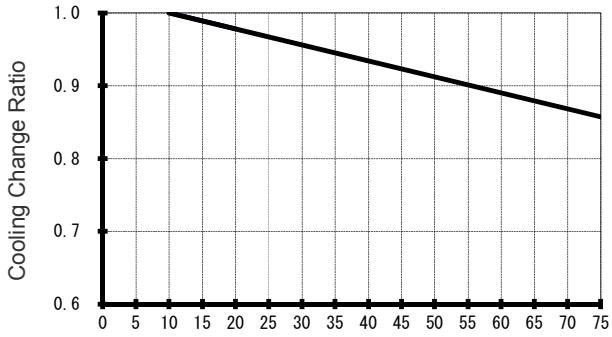
H: Vertical Distance Between Indoor Unit and Outdoor Units in Meters

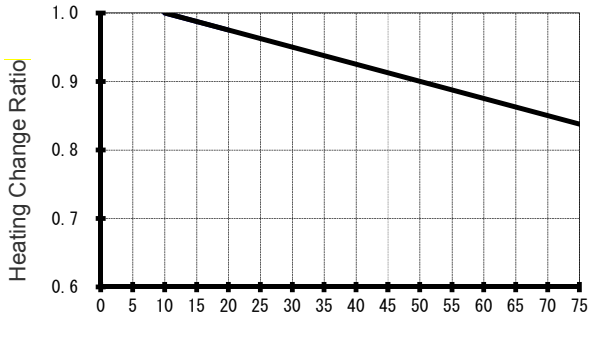
L: Actual One-Way Piping Length Between Indoor Unit and Outdoor Unit in Meters

EL: Equivalent Total Distance Between Indoor Unit and Outdoor Unit in Meters
(Equivalent One-Way Piping Length)

Model Multi Outdoor 42000 BTU/h

RAM-G42N5HAA





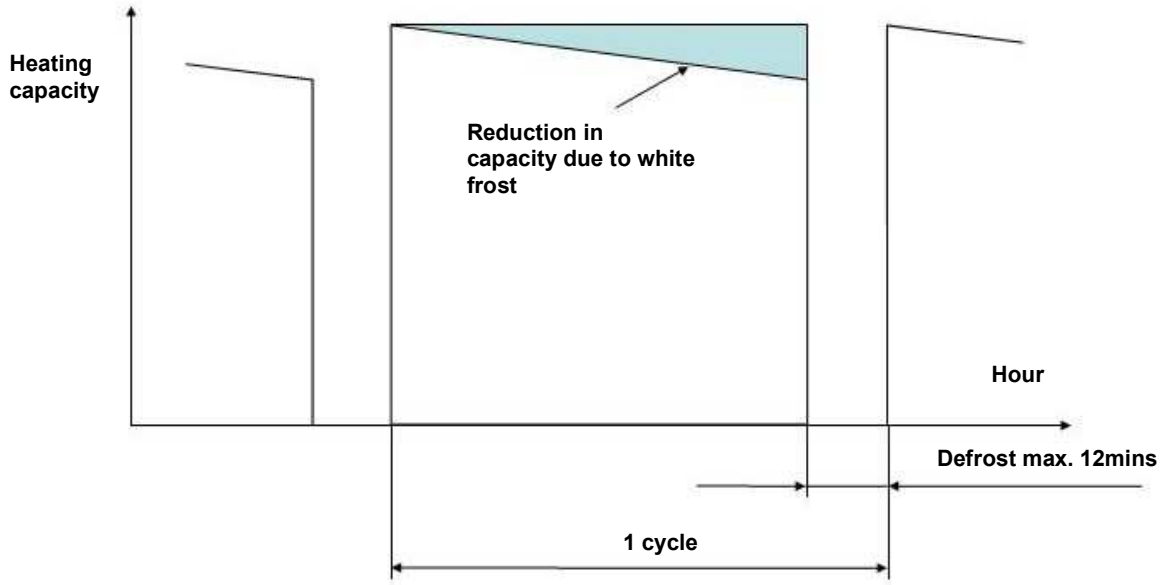
3.4. CORRECTION FACTORS ACCORDING TO DEFROSTING OPERATION

The heating capacity in the preceding paragraph, excludes the condition of the frost or the defrosting operation period. In consideration of the frost or the defrosting operation, the heating capacity is corrected by the equation below.

Corrected heating capacity = Defrost Correction factor x unit capacity

OUTDOOR TEMPERATURE (°CDB)	-15	-10	-7	-5	0	7	10	15
Correction factor (humidity rate85% RH)	0.95	0.95	0.89	0.85	0.81	1.0	1.0	1.0

Correction Factor



NOTE:
The correction factor is not valid for special conditions such as snowfall or operation in a transitional period.

3.5. COMBINATION TABLE FOR MULTIZONE OUTDOOR

Whichever indoor units are installed, cooling and heating capacity depends on how many and which indoor units are operating at that time.

5 ROOM MULTI-SPLIT INVERTER TYPE RAC : RAM-G42N5HAA
POSSIBLE COMBINATION TO OPERATE (SAME TIME OPERATION)

(Reference value)

POSSIBLE COMBINATIONS TO OPERATE			COOLING									HEATING								
			TOTAL (BTU)	CAPACITY RATING (BTU) (RANGE)			压缩机转速		CONSUMPTION (W)		AMPERE (A) at 208 ~ 230	EER2	TOTAL (BTU)	CAPACITY RATING (BTU) (RANGE)			CONSUMPTION (W)		AMPERE (A) at 208 ~ 230	COP2
	7K	7K	7,000	3,050 ~ 8,500			1,150	1,150 ~ 1,300	800	800 ~ 957	3.85	3.48	8.7	9,000	3,050 ~ 10,900			2,150	1,000 ~ 2,550	1,600	600 ~ 1,930	7.69	6.96	5.6
	9K	9K	9,000	3,050 ~ 10,200			1,200	1,150 ~ 1,450	852	800 ~ 1,113	4.10	3.71	10.6	12,000	3,050 ~ 15,000			2,200	1,000 ~ 2,650	1,641	600 ~ 2,013	7.89	7.13	7.3
ONE UNIT	12K	12K	12,000	3,050 ~ 13,650			1,350	1,150 ~ 1,600	1,009	800 ~ 1,270	4.85	4.39	11.9	16,400	3,050 ~ 18,000			2,300	1,000 ~ 2,750	1,724	600 ~ 2,095	8.29	7.49	9.5
	18K	18K	18,000	3,050 ~ 17,750			1,550	1,150 ~ 1,850	1,218	800 ~ 1,531	5.86	5.30	14.8	20,500	3,050 ~ 23,200			2,450	1,000 ~ 2,900	1,847	600 ~ 2,219	8.88	8.03	11.1
	24K	24K	24,000	4,100 ~ 25,600			1,850	1,150 ~ 2,200	1,531	800 ~ 1,897	7.36	6.66	15.7	27,300	4,100 ~ 30,690			2,650	1,000 ~ 3,000	2,013	600 ~ 2,302	9.68	8.75	13.6
	14K	7K+7K	14,000	7,000 ~ 16,667			2,100	1,150 ~ 2,500	1,793	800 ~ 2,211	8.62	7.79	7.8	14,980	9,000 ~ 18,031			2,700	1,200 ~ 3,250	2,054	815 ~ 2,508	9.87	8.93	7.3
	16K	7K+9K	16,000	7,000 ~ 19,273			2,200	1,150 ~ 2,650	1,897	800 ~ 2,367	9.12	8.25	8.4	17,120	9,000 ~ 20,483			2,800	1,200 ~ 3,350	2,136	815 ~ 2,591	10.27	9.29	8.0
	19K	7K+12K	19,000	7,000 ~ 22,638			2,350	1,150 ~ 2,800	2,054	800 ~ 2,524	9.87	8.93	9.3	20,330	9,000 ~ 24,120			2,950	1,200 ~ 3,500	2,260	815 ~ 2,715	10.87	9.83	9.0
	25K	7K+18K	25,000	7,000 ~ 29,327			2,600	1,150 ~ 3,050	2,315	800 ~ 2,785	11.13	10.07	10.8	26,750	9,000 ~ 31,845			3,150	1,200 ~ 3,750	2,426	815 ~ 2,921	11.66	10.55	11.0
	31K	7K+24K	31,000	7,000 ~ 36,982			2,850	1,150 ~ 3,400	2,576	800 ~ 3,151	12.39	11.20	12.0	33,170	9,000 ~ 39,419			3,450	1,200 ~ 4,100	2,673	815 ~ 3,210	12.85	11.62	12.4
	18K	9K+9K	18,000	7,000 ~ 21,522			2,300	1,150 ~ 2,750	2,002	800 ~ 2,472	9.62	8.70	9.0	19,260	9,000 ~ 22,913			2,900	1,200 ~ 3,450	2,219	815 ~ 2,673	10.67	9.65	8.7
	21K	9K+12K	21,000	7,000 ~ 24,857			2,450	1,150 ~ 2,900	2,158	800 ~ 2,629	10.38	9.38	9.7	22,470	9,000 ~ 26,890			3,050	1,200 ~ 3,650	2,343	815 ~ 2,838	11.26	10.19	9.6
TWO UNIT	27K	9K+18K	27,000	7,000 ~ 31,500			2,700	1,150 ~ 3,150	2,420	800 ~ 2,890	11.63	10.52	11.2	28,890	9,000 ~ 34,668			3,250	1,200 ~ 3,900	2,508	815 ~ 3,045	12.06	10.90	11.5
	33K	9K+24K	33,000	7,000 ~ 39,153			2,950	1,150 ~ 3,500	2,681	800 ~ 3,256	12.89	11.66	12.3	35,310	9,000 ~ 41,775			3,550	1,200 ~ 4,200	2,756	815 ~ 3,293	13.25	11.98	12.8
	24K	12K+12K	24,000	7,000 ~ 28,615			2,600	1,150 ~ 3,100	2,315	800 ~ 2,838	11.13	10.07	10.4	25,680	9,000 ~ 30,495			3,200	1,200 ~ 3,800	2,467	815 ~ 2,962	11.86	10.73	10.4
	30K	12K+18K	30,000	7,000 ~ 35,893			2,800	1,150 ~ 3,350	2,524	800 ~ 3,099	12.14	10.97	11.9	32,100	9,000 ~ 38,237			3,400	1,200 ~ 4,050	2,632	815 ~ 3,169	12.65	11.44	12.2
	36K	12K+24K	36,000	7,000 ~ 42,968			3,100	1,150 ~ 3,700	2,838	800 ~ 3,637	13.64	12.34	12.7	38,520	9,000 ~ 51,000			3,650	1,200 ~ 4,350	2,838	815 ~ 3,416	13.65	12.34	13.6
	36K	18K+18K	36,000	7,000 ~ 42,492			3,050	1,150 ~ 3,600	2,785	800 ~ 3,360	13.39	12.11	12.9	38,520	9,000 ~ 46,010			3,600	1,200 ~ 4,300	2,797	815 ~ 3,375	13.45	12.16	13.8
	42K	18K+24K	42,000	7,000 ~ 50,000			3,300	1,150 ~ 3,950	3,047	800 ~ 4,330	14.65	13.25	13.8	44,940	9,000 ~ 51,000			3,900	1,200 ~ 4,400	3,045	815 ~ 3,458	14.64	13.24	14.8
	48K	24K+24K	48,000	7,000 ~ 50,000			3,350	1,150 ~ 4,000	3,099	800 ~ 4,469	14.90	13.47	15.5	48,000	9,000 ~ 51,000			3,900	1,200 ~ 4,400	3,045	815 ~ 3,458	14.64	13.24	15.8
	21K	7K+7K+7K	21,000	7,000 ~ 24,889			2,700	1,150 ~ 3,200	2,420	800 ~ 2,942	11.63	10.52	8.7	22,470	9,000 ~ 26,964			3,000	1,500 ~ 3,600	2,302	1,063 ~ 2,797	11.07	10.01	9.8
	23K	7K+7K+9K	23,000	7,000 ~ 27,107			2,800	1,150 ~ 3,300	2,524	800 ~ 3,047	12.14	10.97	9.1	24,610	9,000 ~ 29,298			3,150	1,500 ~ 3,750	2,426	1,063 ~ 2,921	11.66	10.55	10.1
	26K	7K+7K+12K	26,000	7,000 ~ 30,847			2,950	1,150 ~ 3,500	2,681	800 ~ 3,256	12.89	11.66	9.7	27,820	9,000 ~ 33,139			3,400	1,500 ~ 4,050	2,632	1,063 ~ 3,169	12.65	11.44	10.6
	32K	7K+7K+18K	32,000	7,000 ~ 38,095			3,150	1,150 ~ 3,750	2,890	800 ~ 3,776	13.89	12.56	11.1	34,240	9,000 ~ 40,631			3,750	1,500 ~ 4,450	2,921	1,063 ~ 3,499	14.04	12.70	11.7
	38K	7K+7K+24K	38,000	7,000 ~ 44,609			3,450	1,150 ~ 4,050	3,203	800 ~ 4,607	15.40	13.93	11.9	40,660	9,000 ~ 51,000			4,200	1,500 ~ 5,000	3,293	1,063 ~ 3,953	15.83	14.32	12.3
	25K	7K+9K+9K	25,000	7,000 ~ 29,741			2,900	1,150 ~ 3,450	2,629	800 ~ 3,203	12.64	11.43	9.5	26,750	9,000 ~ 31,541			3,350	1,500 ~ 3,950	2,591	1,063 ~ 3,086	12.46	11.26	10.3
	28K	7K+9K+12K	28,000	7,000 ~ 33,049			3,050	1,150 ~ 3,600	2,785	800 ~ 3,360	13.39	12.11	10.1	29,960	9,000 ~ 35,868			3,550	1,500 ~ 4,250	2,756	1,063 ~ 3,334	13.25	11.98	10.9
	34K	7K+9K+18K	34,000	7,000 ~ 40,277			3,250	1,150 ~ 3,850	2,994	800 ~ 4,053	14.40	13.02	11.4	36,380	9,000 ~ 43,376			3,900	1,500 ~ 4,650	3,045	1,063 ~ 3,664	14.64	13.24	11.9
	40K	7K+9K+24K	40,000	7,000 ~ 45,634			3,550	1,150 ~ 4,050	3,308	800 ~ 4,607	15.90	14.38	12.1	42,800	9,000 ~ 51,000			4,350	1,500 ~ 5,000	3,416	1,063 ~ 3,953	16.43	14.85	12.5
	31K	7K+12K+12K	31,000	7,000 ~ 36,328			3,200	1,150 ~ 3,750	2,942	800 ~ 3,776	14.14	12.79	10.5	33,170	9,000 ~ 39,280			3,800	1,500 ~ 4,500	2,962	1,063 ~ 3,540	14.24	12.88	11.2
	37K	7K+12K+18K	37,000	7,000 ~ 43,529			3,400	1,150 ~ 4,000	3,151	800 ~ 4,469	15.15	13.70	11.7	39,590	9,000 ~ 51,000			4,150	1,500 ~ 4,900	3,251	1,063 ~ 3,871	15.63	14.14	12.2
	43K	7K+12K+24K	43,000	7,000 ~ 48,375			3,600	1,150 ~ 4,050	3,360	800 ~ 4,607	16.15	14.61	12.8	46,010	9,000 ~ 51,000			4,600	1,500 ~ 5,000	3,623	1,063 ~ 3,953	17.42	15.75	12.7
	43K	7K+18K+18K	43,000	7,000 ~ 48,375			3,600	1,150 ~ 4,050	3,360	800 ~ 4,607	16.15	14.61	12.8	46,010	9,000 ~ 51,000			4,500	1,500 ~ 5,000	3,540	1,063 ~ 3,953	17.02	15.39	13.0
	49K	7K+18K+24K	48,000	7,000 ~ 50,000			3,600	1,150 ~ 4,050	3,360	800 ~ 4,607	16.15	14.61	14.3	48,000	9,000 ~ 51,000			4,600	1,500 ~ 5,000	3,623	1,063 ~ 3,953	17.42	15.75	13.2
	55K	7K+24K+24K	48,000	7,000 ~ 50,000			3,600	1,150 ~ 4,050	3,360	800 ~ 4,607	16.15	14.61	14.3	48,000	9,000 ~ 51,000			4,600	1,500 ~ 5,000	3,623	1,063 ~ 3,953	17.42	15.75	13.2
THREE UNIT	27K	9K+9K+9K	27,000	7,000 ~ 31,950			3,000	1,150 ~ 3,550	2,733	800 ~ 3,308	13.14	11.88	9.9	28,890	9,000 ~ 34,255			3,500	1,500 ~ 4,150	2,715	1,063 ~ 3,251	13.05	11.80	10.6
	30K	9K+9K+12K	30,000	7,000 ~ 35,238			3,150	1,150 ~ 3,700	2,890	800 ~ 3,637	13.89	12.56	10.4	32,100	9,000 ~ 38,607			3,700	1,500 ~ 4,450	2,880	1,063 ~ 3,499	13.84	12.52	11.1
	36K	9K+9K+18K	36,000	7,000 ~ 42,448			3,350	1,150 ~ 3,950	3,099	800 ~ 4,330	14.90	13.47	11.6	38,520	9,000 ~ 51,000			4,050	1,500 ~ 4,850	3,169	1,063 ~ 3,829	15.23	13.78	12.2
	42K	9K+9K+24K	42,000	7,000 ~ 47,250			3,600	1,150 ~ 4,050	3,360	800 ~ 4,607	16.15	14.61	12.5	44,940	9,000 ~ 51,000			4,550	1,500 ~ 5,000	3,582	1,063 ~ 3,953	17.22	15.57	12.5
	33K	9K+12K+12K	33,000	7,000 ~ 39,000			3,300	1,150 ~ 3,900	3,047	800 ~ 4,191	14.65	13.25	10.8	35,310	9,000 ~ 51,000			3,950	1,500 ~ 4,700	3,086	1,063 ~ 3,706	14.84	13.42	11.4
	39K	9K+12K+18K	39,000	7,000 ~ 45,129			3,500	1,150 ~ 4,050	3,256	800 ~ 4,607	15.65	14.15	12.0	41,730	9,000 ~ 51,000			4,300	1,500 ~ 5,000	3,375	1,063 ~ 3,953	16.23	14.67	12.4
	45K	9K+12K+24K	45,000	7,000 ~ 50,000			3,600	1,150 ~ 4,050	3,360	800 ~ 4,607	16.15	14.61	13.4	48,150	9,000 ~ 51,000			4,600	1,500 ~ 5,000	3,623	1,063 ~ 3,953	17.42	15.75	13.3
	36K	12K+12K+12K	36,000	7,000 ~ 42,261			3,450	1,150 ~ 4,050	3,203	800 ~ 4,607	15.40	13.93	11.2	38,520	9,000 ~ 51,000			4,200	1,500 ~ 5,000	3,293	1,063 ~ 3,953	15.83	14.32	11.7
	42K	12K+12K+18K	42,000	7,000 ~ 47,250			3,600	1,150 ~ 4,050	3,360	800 ~ 4,607	16.15	14.61	12.5	44,940	9,000 ~ 51,000			4,550	1,500 ~ 5,000	3,582	1,063 ~ 3,953	17.22	15.57	12.5
	48K	12K+12K+24K	48,000	7,000 ~ 50,000			3,600	1,150 ~ 4,050	3,360	800 ~ 4,607	16.15	14.61	14.3	48,000	9,000 ~ 51,000			4,600	1,500 ~ 5,000	3,623	1,063 ~ 3,953	17.42	15.75	13.2
	48K	12K+18K+18K	48,000	7,000 ~ 50,000			3,600	1,150 ~ 4,050	3,360	800 ~ 4,607	16.15	14.61	14.3	48,000	9,000 ~ 51,000			4,600	1,500 ~ 5,000	3,623	1,063 ~ 3,953	17.42	15.75	13.2
	54K	12K+18K+24K	48,000	7,000 ~ 50,000			3,600	1,150 ~ 4,050	3,360	800 ~ 4,607	16.15	14.61	14.3	48,000	9,000 ~ 51,000			4,600	1,500 ~ 5,000	3,623	1,063 ~ 3,953	17.42	15.75	13.2
	60K	12K+24K+24K	48,000	7,000 ~ 50,000			3,600	1,150 ~ 4,050	3,360	800 ~ 4,607	16.15	14.61	14.3	48,000	9,000 ~ 51,000			4,600	1,500 ~ 5,000	3,623	1,063 ~ 3,953	17.42	15.75	13.2
	54K	18K+18K+18K	48,000	7,000 ~ 50,000			3,600	1,150 ~ 4,050	3,360	800 ~ 4,607	16.15	14.61	14.3	48,000	9,000 ~ 51,000			4,600	1,500 ~ 5,000	3,623	1,063 ~ 3,953	17.42	15.75	13.2
	60K	18K+18K+24K	48,000	7,000 ~ 50,000			3,600	1,150 ~ 4,050	3,360	800 ~ 4,607	16.15	14.61	14.3	48,000	9,000 ~ 51,000			4,600	1,500 ~ 5,000	3,623	1,063 ~ 3,953	17.42	15.75	13.2

FOUR UNIT	28K	7K+7K+7K+7K	28,000	7,000	~	32,968	3,100	1,550	~	3,650	2,838	1,218	~	3,499	13.64	12.34	9.9	29,960	9,000	~	35,706	3,650	2,000	~	4,350	2,838	1,476	~	3,416	13.65	12.34	10.6
	30K	7K+7K+7K+9K	30,000	7,000	~	35,625	3,200	1,550	~	3,800	2,942	1,218	~	3,914	14.14	12.79	10.2	32,100	9,000	~	38,436	3,800	2,000	~	4,550	2,962	1,476	~	3,582	14.24	12.88	10.8
	33K	7K+7K+7K+12K	33,000	7,000	~	38,910	3,350	1,550	~	3,950	3,099	1,218	~	4,330	14.90	13.47	10.6	35,310	9,000	~	51,000	4,050	2,000	~	4,800	3,169	1,476	~	3,788	15.23	13.78	11.1
	39K	7K+7K+7K+18K	39,000	7,000	~	46,141	3,550	1,550	~	4,200	3,308	1,218	~	5,023	15.90	14.38	11.8	41,730	9,000	~	51,000	4,400	2,000	~	5,250	3,458	1,476	~	4,160	16.62	15.03	12.1
	45K	7K+7K+7K+24K	45,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	12.2	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	32K	7K+7K+9K+9K	32,000	7,000	~	37,818	3,300	1,550	~	3,900	3,047	1,218	~	4,191	14.65	13.25	10.5	34,240	9,000	~	41,175	3,950	2,000	~	4,750	3,086	1,476	~	3,747	14.84	13.42	11.1
	35K	7K+7K+9K+12K	35,000	7,000	~	41,087	3,450	1,550	~	4,050	3,203	1,218	~	4,607	15.40	13.93	10.9	37,450	9,000	~	51,000	4,200	2,000	~	5,000	3,293	1,476	~	3,953	15.83	14.32	11.4
	41K	7K+7K+9K+18K	41,000	7,000	~	48,301	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	12.0	43,870	9,000	~	51,000	4,550	2,000	~	5,400	3,582	1,476	~	4,284	17.22	15.57	12.2
	47K	7K+7K+9K+24K	47,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	12.7	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	38K	7K+7K+12K+12K	38,000	7,000	~	44,861	3,600	1,550	~	4,250	3,360	1,218	~	5,161	16.15	14.61	11.3	40,660	9,000	~	48,427	4,450	2,000	~	5,300	3,499	1,476	~	4,201	16.82	15.21	11.6
	44K	7K+7K+12K+18K	44,000	7,000	~	49,789	3,800	1,550	~	4,300	3,632	1,218	~	5,300	17.46	15.79	12.1	47,080	9,000	~	51,000	4,800	2,000	~	5,600	3,788	1,476	~	4,449	18.21	16.47	12.4
	50K	7K+7K+12K+24K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	50K	7K+7K+18K+18K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	56K	7K+7K+18K+24K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	34K	7K+9K+9K+9K	34,000	7,000	~	40,000	3,400	1,550	~	4,000	3,151	1,218	~	4,469	15.15	13.70	10.8	36,380	9,000	~	51,000	4,150	2,000	~	4,900	3,251	1,476	~	3,871	15.63	14.14	11.2
	37K	7K+9K+9K+12K	37,000	7,000	~	43,775	3,550	1,550	~	4,200	3,308	1,218	~	5,023	15.90	14.38	11.2	39,590	9,000	~	51,000	4,300	2,000	~	5,200	3,375	1,476	~	4,118	16.23	14.67	11.7
	43K	7K+9K+9K+18K	43,000	7,000	~	49,307	3,750	1,550	~	4,300	3,564	1,218	~	5,300	17.13	15.50	12.1	46,010	9,000	~	51,000	4,700	2,000	~	5,600	3,706	1,476	~	4,449	17.81	16.11	12.4
	49K	7K+9K+9K+24K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	40K	7K+9K+12K+12K	40,000	7,000	~	46,486	3,700	1,550	~	4,300	3,496	1,218	~	5,300	16.81	15.20	11.4	42,800	9,000	~	51,000	4,600	2,000	~	5,450	3,623	1,476	~	4,325	17.42	15.75	11.8
	46K	7K+9K+12K+18K	46,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	12.4	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	52K	7K+9K+12K+24K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	52K	7K+9K+18K+18K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	58K	7K+9K+18K+24K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	43K	7K+12K+12K+12K	43,000	7,000	~	48,026	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	11.6	46,010	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.0
	49K	7K+12K+12K+18K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	55K	7K+12K+12K+24K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	55K	7K+12K+18K+18K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	36K	9K+9K+9K+9K	36,000	7,000	~	42,686	3,500	1,550	~	4,150	3,256	1,218	~	4,884	15.65	14.15	11.1	38,520	9,000	~	51,000	4,300	2,000	~	5,100	3,375	1,476	~	4,036	16.23	14.67	11.4
	39K	9K+9K+9K+12K	39,000	7,000	~	44,132	3,800	1,550	~	4,300	3,632	1,218	~	5,300	17.46	15.79	10.7	41,730	9,000	~	51,000	4,550	2,000	~	5,400	3,582	1,476	~	4,284	17.22	15.57	11.7
	45K	9K+9K+9K+18K	45,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	12.2	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	51K	9K+9K+9K+24K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	42K	9K+9K+12K+12K	42,000	7,000	~	47,526	3,800	1,550	~	4,300	3,360	1,218	~	5,300	16.15	14.61	12.5	44,940	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	11.7
	48K	9K+9K+12K+18K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	54K	9K+9K+12K+24K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	54K	9K+9K+18K+18K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	60K	9K+9K+18K+24K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	45K	9K+12K+12K+12K	45,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	12.2	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	51K	9K+12K+12K+18K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	57K	9K+12K+12K+24K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	57K	9K+12K+18K+18K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	48K	12K+12K+12K+12K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	54K	12K+12K+12K+18K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	60K	12K+12K+12K+24K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
	60K	12K+12K+18K+18K	48,000	7,000	~	50,000	3,850	1,550	~	4,300	3,700	1,218	~	5,300	17.79	16.09	13.0	48,000	9,000	~	51,000	4,850	2,000	~	5,600	3,829	1,476	~	4,449	18.41	16.65	12.5
FIVE UNIT	35K	7K+7K+7K+7K+7K	35,000	7,000	~	41,691	3,400	1,550	~	4,050	3,151	1,218	~	4,607	15.15	13.70	11.1	37,450	9,000	~	51,000	4,200	2,100	~	5,000	3,293	1,558	~	3,953	15.83	14.32	11.4
	37K	7K+7K+7K+7K+9K	37,000	7,000	~	43,343	3,500	1,550	~	4,100	3,256	1,218	~	4,746	15.65	14.15	11.4	39,590	9,000	~	51,000	4,350	2,100	~	5,150	3,416	1,558	~	4,077	16.43	14.85	11.6
	40K	7K+7K+7K+7K+12K	40,000	7,000	~	47,324	3,550	1,550	~	4,200	3,308	1,218	~	5,023	15.90	14.38	12.1	42,800	9,000	~	51,000	4,500	2,100	~	5,400	3,540	1,558	~	4,284	17.02	15.39	12.1
	46K	7K+7K+7K+7K+18K	46,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	13.4	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	52K	7K+7K+7K+7K+24K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	39K	7K+7K+7K+9K+9K	39,000	7,000	~	45,592	3,550	1,550	~	4,150	3,308	1,218	~	4,884	15.90	14.38	11.8	41,730	9,000	~	51,000	4,450	2,100	~	5,300	3,499	1,558	~	4,201	16.82	15.21	11.9
	42K	7K+7K+7K+9K+12K	42,000	7,000	~	46,000	3,600	1,550	~	4,250	3,360	1,218	~	5,161	16.15	14.61	12.5	45,000	9,000	~	51,000	4,650	2,100	~	5,550	3,664	1,558	~	4,407	17.62	15.93	12.3
	48K	7K+7K+7K+9K+18K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	54K	7K+7K+7K+9K+24K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	45K	7K+7K+7K+12K+12K	45,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	13.1	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	51K	7K+7K+7K+12K+18K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	57K	7K+7K+7K+12K+24K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	57K	7K+7K+7K+18K+18K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	41K	7K+7K+9K+9K+9K	41,000	7,000	~	48,403	3,600	1,550	~	4,250	3,360	1,218	~	5,161	16.15	14.61	12.2	48,000	9,000	~	51,000	4,600	2,100	~	5,450	3,623	1,558	~	4,325	17.42	15.75	13.2
	44K	7K+7K+9K+9K+12K	44,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	12.8	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	50K	7K+7K+9K+9K+18K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	56K	7K+7K+9K+9K+24K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	47K	7K+7K+9K+12K+12K	47,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	13.7	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	53K	7K+7K+9K+12K+18K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	59K	7K+7K+9K+12K+24K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	59K	7K+7K+9K+18K+18K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	50K	7K+7K+12K+12K+12K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	56K	7K+7K+12K+12K+18K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	43K	7K+9K+9K+9K+9K	43,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	12.5	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	46K	7K+9K+9K+9K+12K	46,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	13.4	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	52K	7K+9K+9K+9K+18K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	58K	7K+9K+9K+9K+24K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	49K	7K+9K+9K+12K+12K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	55K	7K+9K+9K+12K+18K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	52K	7K+9K+12K+12K+12K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	58K	7K+9K+12K+12K+18K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	55K	7K+12K+12K+12K+12K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	45K	9K+9K+9K+9K+9K	45,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	13.1	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	48K	9K+9K+9K+9K+12K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	54K	9K+9K+9K+9K+18K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	60K	9K+9K+9K+9K+24K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	51K	9K+9K+9K+12K+12K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	57K	9K+9K+9K+12K+18K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	54K	9K+9K+12K+12K+12K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	60K	9K+9K+12K+12K+18K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	57K	9K+12K+12K+12K+12K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7
	60K	12K+12K+12K+12K+12K	48,000	7,000	~	50,000	3,650	1,550	~	4,300	3,428	1,218	~	5,300	16.48	14.90	14.0	48,000	9,000	~	51,000	4,800	2,100	~	5,700	3,788	1,558	~	4,531	18.21	16.47	12.7

* Total nominal cooling capacity should not be more than 60K Btu.

* Two indoor units should be connected at least and please select the combination from the table below when only two IDUs are connected.

No.	IDU1	IDU2	No.	IDU1	IDU2
1	RAK-GJ24QHAA	RAK-DJ07QHAA	16	RAK-GJ24QHAA	RAI-GJ07QHAA
2	RAK-GJ24QHAA	RAK-DJ09RHAA	17	RAK-GJ24QHAA	RAI-GJ09QHAA
3	RAK-GJ24QHAA	RAK-DJ12RHAA	18	RAK-GJ24QHAA	RAI-GJ12QHAA
4	RAK-GJ24QHAA	RAK-DJ18RHAA	19	RAK-GJ24QHAA	RAI-GJ18QHAA
5	RAK-GJ24QHAA	RAK-DJ24RHAA	20	RAK-GJ24QHAA	RAI-GJ24QHAA
6	RAK-GJ24QHAA	RAK-GJ07QHAA	21	RAK-GJ24QHAA	RAF-FJ07QHAA
7	RAK-GJ24QHAA	RAK-GJ09QHAA	22	RAK-GJ24QHAA	RAF-FJ09QHAA
8	RAK-GJ24QHAA	RAK-GJ12QHAA	23	RAK-GJ24QHAA	RAF-FJ12QHAA
9	RAK-GJ24QHAA	RAK-GJ18QHAA	24	RAK-GJ24QHAA	RAF-FJ18QHAA
10	RAK-GJ24QHAA	RAK-GJ24QHAA	-	-	-
11	RAK-GJ24QHAA	RAD-GJ07QHAA	-	-	-
12	RAK-GJ24QHAA	RAD-GJ09QHAA	-	-	-
13	RAK-GJ24QHAA	RAD-GJ12QHAA	-	-	-
14	RAK-GJ24QHAA	RAD-GJ18QHAA	-	-	-
15	RAK-GJ24QHAA	RAD-GJ24QHAA	-	-	-

<REMARKS>
* ONE UNIT INDICATED ARE ONLY FOR ONE UNIT OPERATION WHEN TWO OR MORE INDOOR UNITS ARE CONNECTED.
* TWO UNITS INDICATED ARE ONLY FOR TWO UNITS OPERATION WHEN TWO OR MORE INDOOR UNITS ARE CONNECTED.
* THREE UNITS INDICATED ARE ONLY FOR THREE UNITS OPERATION WHEN THREE OR MORE INDOOR UNITS ARE CONNECTED.
* FOUR UNITS INDICATED ARE ONLY FOR FOUR UNITS OPERATION WHEN FOUR OR FIVE INDOOR UNITS ARE CONNECTED.

RATING CONDITON (DRY BLUB / WET BULB)

	INDOOR °F (℃)	OUTDOOR °F (℃)
COOLING	80/67 (26.67/19.44)	95/75 (35/23.89)
HEATING	70/60 (21.11/15.56)	47/43 (8.33/6.11)

NOMINAL CUULING CAPACITY	indoor unit model	CAPACITY(Btu.) at one unit operation		SUITABLE ROOM SIZE(m2) at one unit operation	
		cooling	heating	cooling	heating
7K Btu	RAK-DJ07QHAA	3050-9000	3050-10900	8 ~ 12	9 ~ 11
	RAK-GJ07QHAA	3050-9000	3050-10900		
	RAD-GJ07QHAA	3050-8500	3050-10900		
	RAI-GJ07QHAA	3050-8500	3050-10900		
	RAF-FJ07QHAA	3050-9000	3050-10900		
9K Btu	RAK-DJ09RHAA	5450-10500	4200-11500	11 ~ 17	14 ~ 18
	RAK-GJ09QHAA	5100-10500	5450-15000		
	RAD-GJ09QHAA	3050-10200	3050-18000		
	RAI-GJ09QHAA	3050-10200	3050-18000		
	RAF-FJ09QHAA	3050-10600	3050-15000		
12K Btu	RAK-DJ12RHAA	5500-13200	4400-14500	16 ~ 24	17 ~ 22
	RAK-GJ12QHAA	5150-14000	5500-18000		
	RAD-GJ12QHAA	3050-13650	3050-22500		
	RAI-GJ12QHAA	3050-13650	3050-22500		
	RAF-FJ12QHAA	3050-13650	3050-18000		
18K Btu	RAK-DJ18RHAA	5700-18600	6700-20500	23 ~ 24	23 ~ 29
	RAK-GJ18QHAA	6600-20500	7100-26000		
	RAD-GJ18QHAA	4100-19800	4100-23200		
	RAI-GJ18QHAA	4100-19800	4100-23200		
	RAF-FJ18QHAA	3050-17750	3050-27600		
24K Btu	RAK-DJ24RHAA	8200-25200	8300-26500	23 ~ 24	23 ~ 29
	RAK-GJ24QHAA	9700-25000	8500-29500		
	RAD-GJ24QHAA	4100-25600	4100-30690		
	RAI-GJ24QHAA	4100-25600	4100-30690		

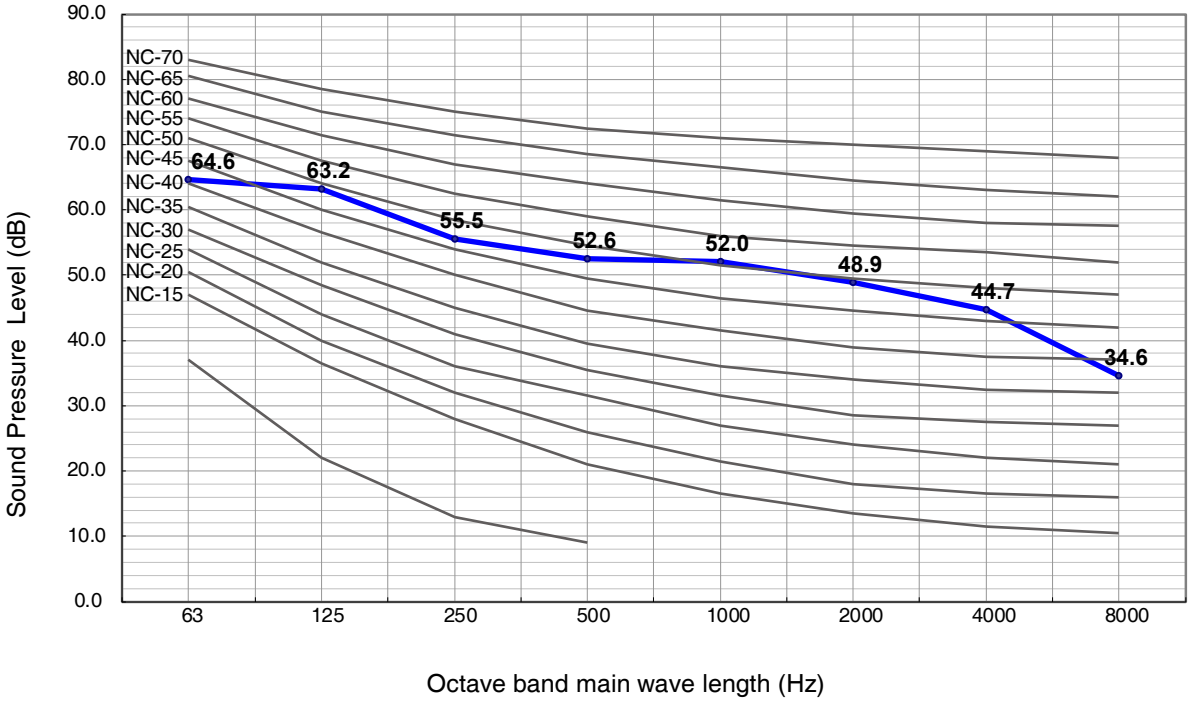
*Two, three, four or five indoor units can be installed with one outdoor unit.
*One-unit values are for one unit operation with two indoors connected.
*Total nominal cooling capacity should not be more than 60K Btu.

4 SOUND DATA

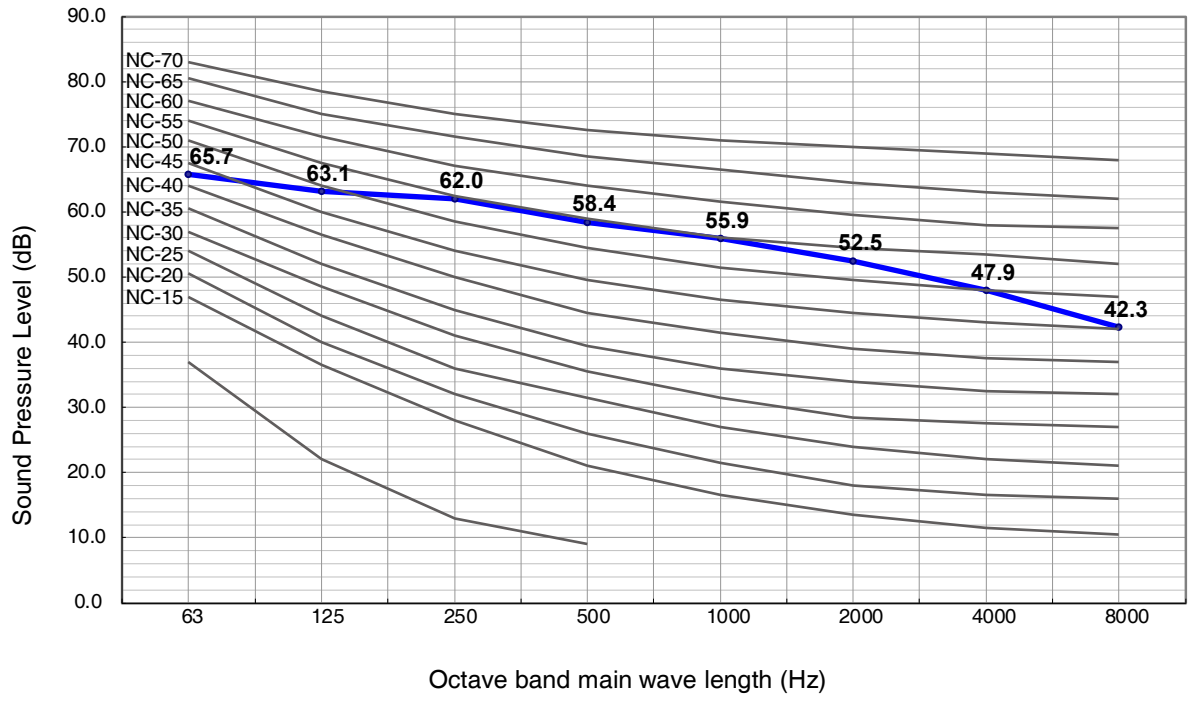
CONTENTS

4.1.1. RAM-G42N5HAA

COOLING MODE



HEATING MODE



The Sound Pressure Level is based on the following conditions:

1 meter from the unit front surface and 1 meter from floor level

The above data was measured in an anechoic chamber. Please take into consideration reflected sound of your specific site

5 WORKING RANGE

CONTENTS

5.1. POWER SUPPLY

Working Voltage	198V ~ 264V
Voltage Imbalance	Within a 3% Deviation from Each Voltage at the Main Terminal of Outdoor Unit
Starting Voltage	Higher than 85% of the Rated Voltage

5.2. WORKING RANGE

5.2.1. MULTIZONE

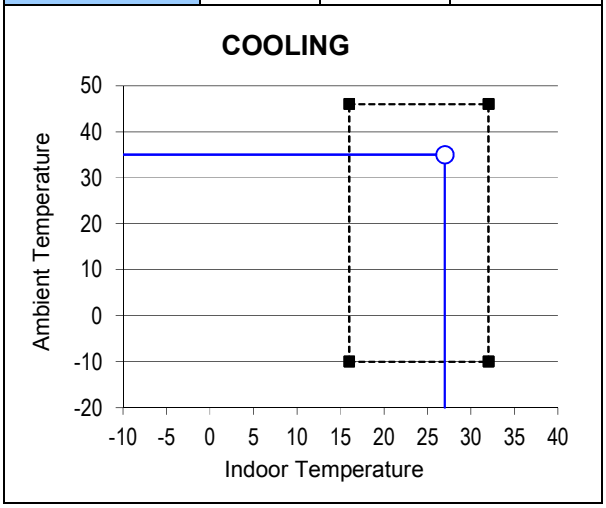
Applicable models:

MULTIZONE
RAM-G42N5HAA

The temperature range is indicated in the following table.

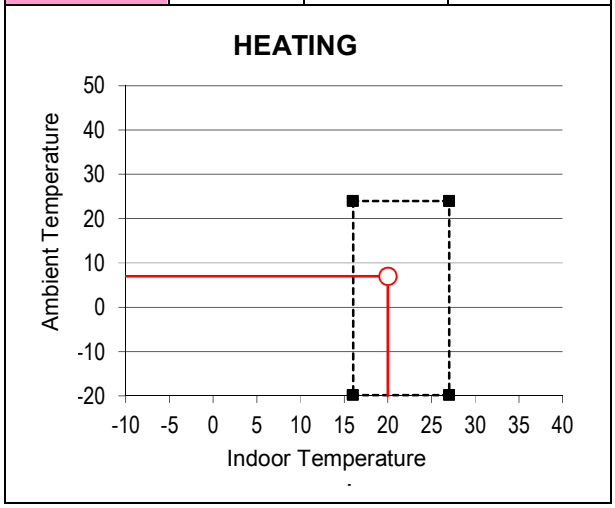
Cooling

working range	min (ºC)	max (ºC)	rated (ºC)
outdoor	-10	46	35
indoor	16	32	26.67



Heating

working range	min (ºC)	max (ºC)	rated (ºC)
outdoor	-20	24	8.33
indoor	16	27	21.11



6 ELECTRICAL DATA

CONTENTS

6.1. INDOOR UNIT

Model	Unit Main Power	Rated input current of power conversion equipment	Indoor Fan Motor	
	VOL, PH, Hz		RNC	IPT
RAK-DJ07QHAA	208-230, 1, 60	0.45	0.67	38
RAK-DJ09RHAA	208-230, 1, 60	0.45	0.67	38
RAK-DJ12RHAA	208-230, 1, 60	0.45	0.67	38
RAK-DJ18RHAA	208-230, 1, 60	0.45	0.67	38
RAK-DJ24RHAA	208-230, 1, 60	0.56	0.16	45
RAK-GJ07QHAA	208-230, 1, 60	0.62	0.67	30
RAK-GJ09QHAA	208-230, 1, 60	0.62	0.67	30
RAK-GJ12QHAA	208-230, 1, 60	0.62	0.67	30
RAK-GJ18QHAA	208-230, 1, 60	0.64	0.16	45
RAK-GJ24QHAA	208-230, 1, 60	0.64	0.16	45
RAF-FJ07QHAA	208-230, 1, 60	0.25	0.75	38
RAF-FJ09QHAA	208-230, 1, 60	0.25	0.75	38
RAF-FJ12QHAA	208-230, 1, 60	0.25	0.75	38
RAF-FJ18QHAA	208-230, 1, 60	0.25	0.75	38
RAI-GJ07QHAA	208-230, 1, 60	0.80	0.25	57
RAI-GJ09QHAA	208-230, 1, 60	0.80	0.25	57
RAI-GJ12QHAA	208-230, 1, 60	0.80	0.25	57
RAI-GJ18QHAA	208-230, 1, 60	0.80	0.25	57
RAI-GJ24QHAA	208-230, 1, 60	0.80	0.25	57
RAD-GJ07QHAA	208-230, 1, 60	0.45	0.11	20
RAD-GJ09QHAA	208-230, 1, 60	0.45	0.11	20
RAD-GJ12QHAA	208-230, 1, 60	0.45	0.11	20
RAD-GJ18QHAA	208-230, 1, 60	1.2	0.75	180
RAD-GJ24QHAA	208-230, 1, 60	1.2	0.75	180

VOL: Rated Unit Power Supply Voltage (V)
Hz: Frequency (Hz)

RNC: Running Current (A)
PH: Phase (ϕ)
IPT: Input (W)

6.2. OUTDOOR UNIT

Model	Unit Main Power		Electrical Data			
	VOL, PH, Hz	Rated input current of power conversion equipment (A)	Rated Cooling Current	Rated Heating Current	MCA	MOP
RAM-G42N5HAA	208-230, 1, 60	22	15	16	25A (2 unit) / 30A (3 ~ 5 unit)	40A (2 unit) / 50A (3 ~ 5 unit)

VOL: Rated Unit Power Supply Voltage (V)
HZ: Frequency (Hz)
PH: Phase (ϕ)
MCA: Minimum Circuit Ampacity (A)
MOP: Maximum Overcurrent Protection (A)

NOTE: *1. The above compressor data is based on 100% capacity combination of indoor units at the rated operating frequency*
2. This data is based on the same conditions as the nominal heating and cooling capacities.
3. The compressor started by an inverter, resulting in extremely low starting current.

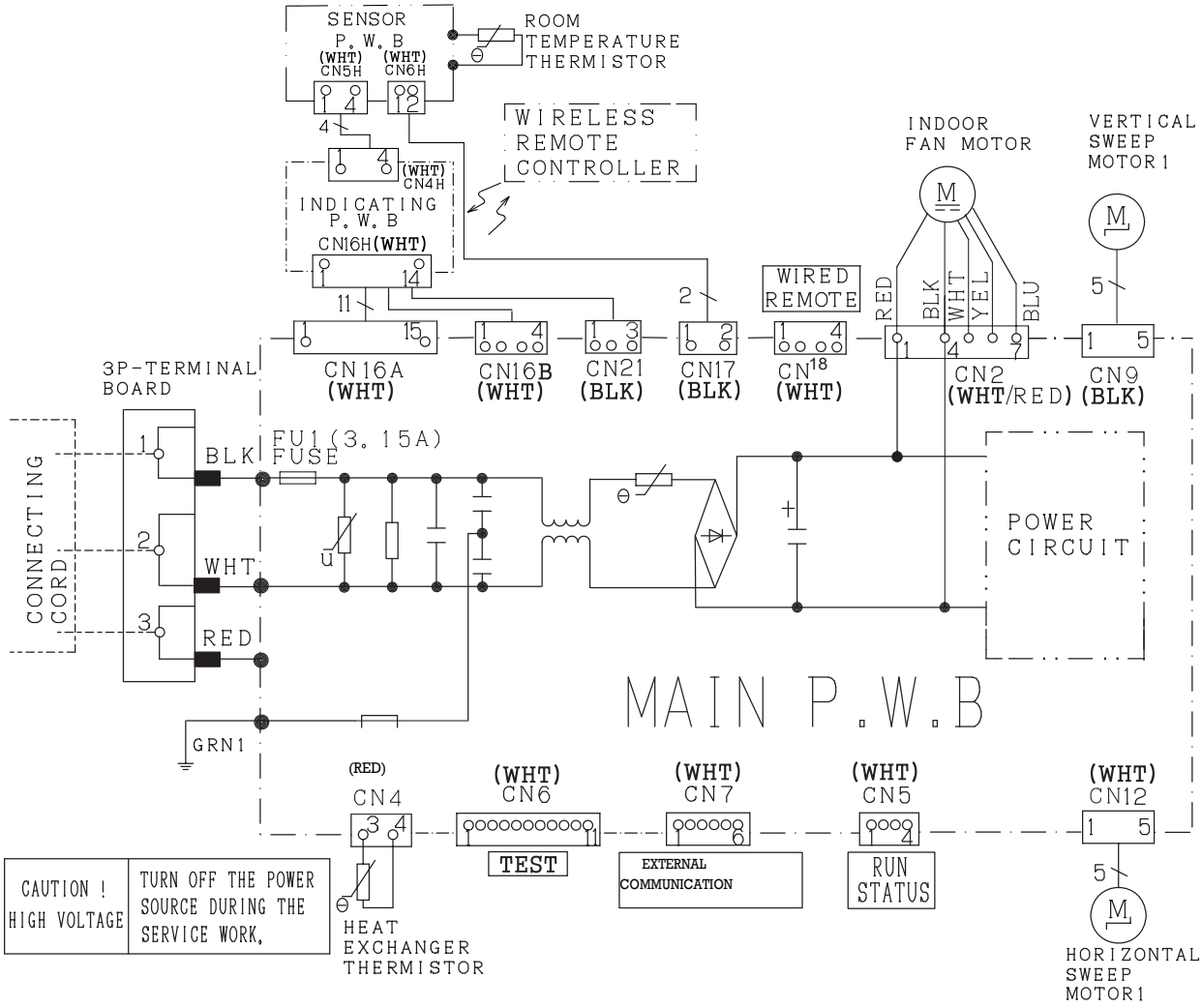
7 WIRING DIAGRAM

CONTENTS

7.1. MULTIZONE

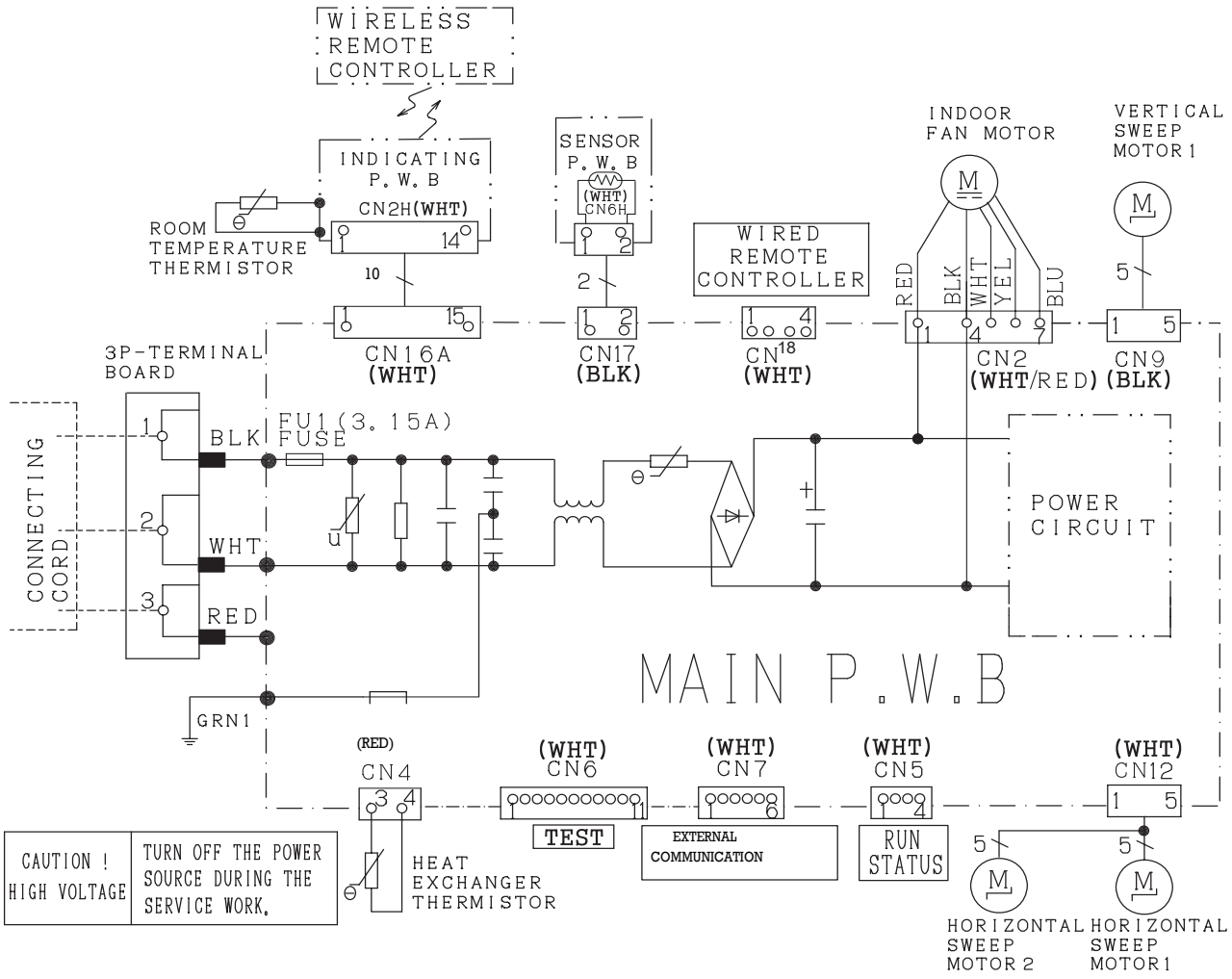
7.1.1. RAK-DJ07QHAA , RAK-DJ09/12/18RHAA

BLU	: BLUE	YEL	: YELLOW	BRN	: BROWN	WHT	: WHITE
GRY	: GRAY	ORN	: ORANGE	GRN	: GREEN	RED	: RED
BLK	: BLACK	PNK	: PINK	VIO	: VIOLET	IVO	: IVORY



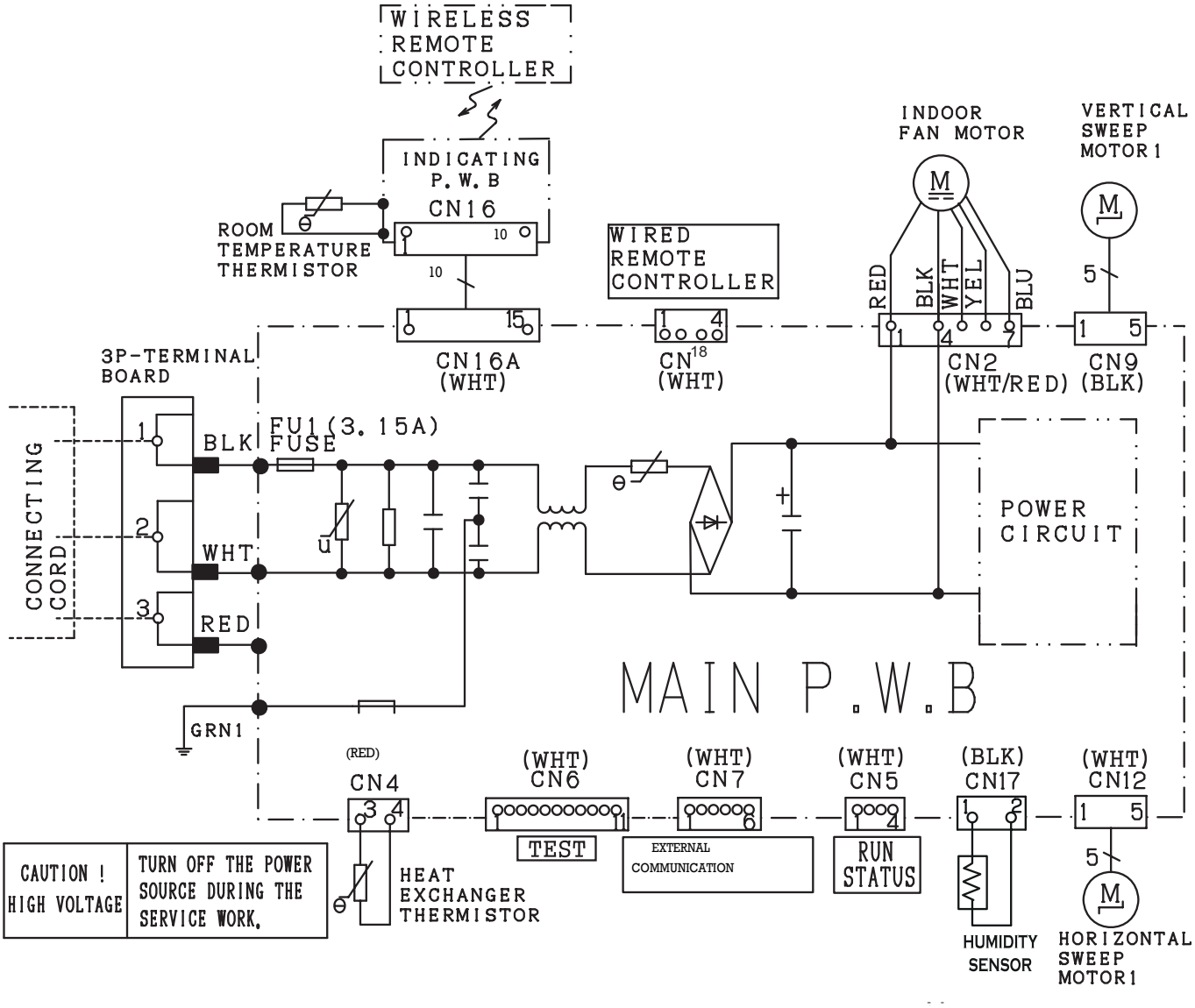
7.1.2. RAK-DJ24RHAA

BLU	: BLUE	YEL	: YELLOW	BRN	: BROWN	WHT	: WHITE
GRY	: GRAY	ORN	: ORANGE	GRN	: GREEN	RED	: RED
BLK	: BLACK	PNK	: PINK	VIO	: VIOLET	IVO	: IVORY



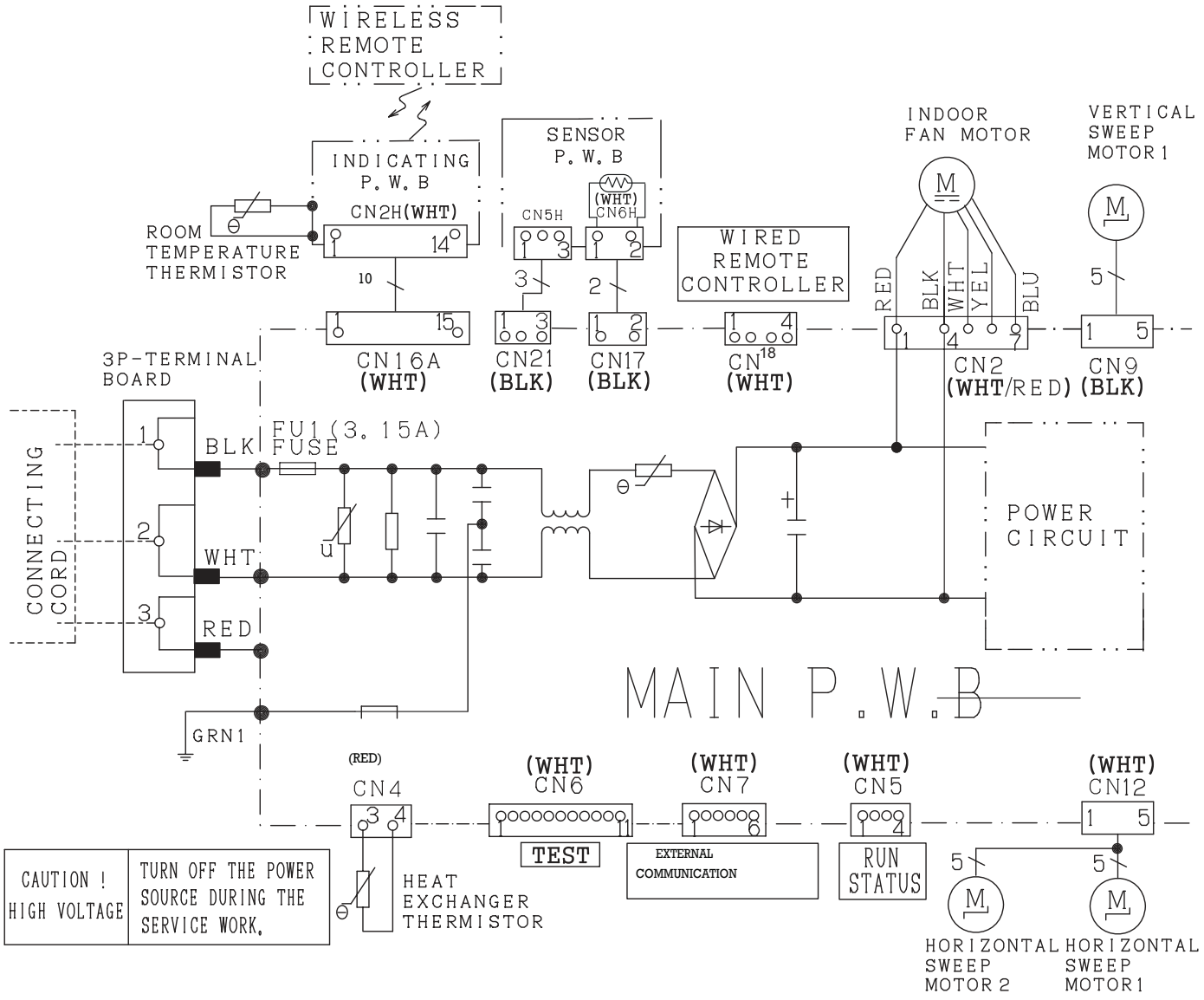
7.1.3. RAK-GJ07QHAA , RAK-GJ09QHAA , RAK-12QHAA

BLU	: BLUE	YEL	: YELLOW	BRN	: BROWN	WHT	: WHITE
GRY	: GRAY	ORN	: ORANGE	GRN	: GREEN	RED	: RED
BLK	: BLACK	PNK	: PINK	VIO	: VIOLET	IVO	: IVORY

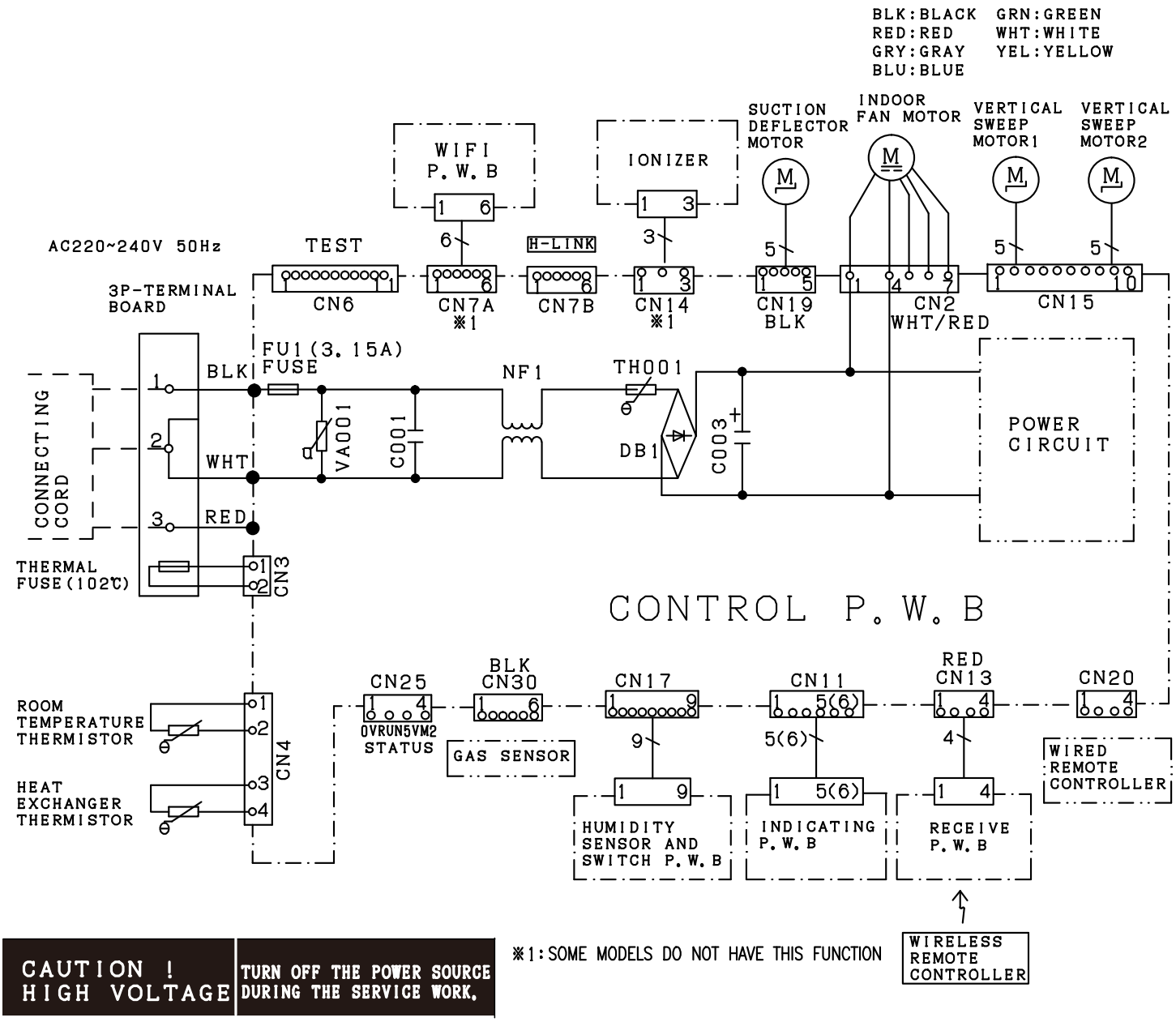


7.1.4. RAK-GJ18QHAA , RAK-GJ24QHAA

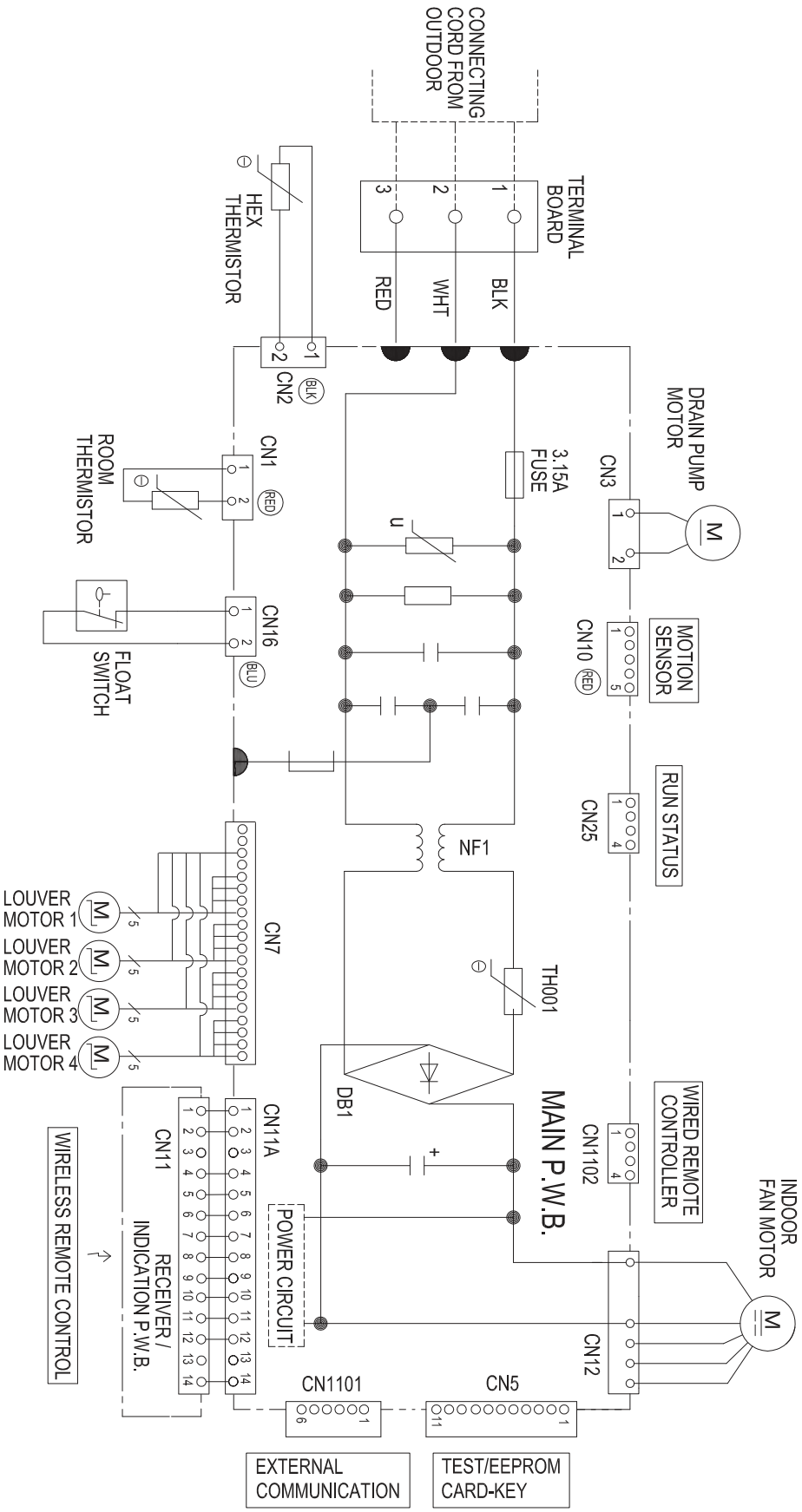
BLU	BLUE	YEL	YELLOW	BRN	BROWN	WHT	WHITE
GRY	GRAY	ORN	ORANGE	GRN	GREEN	RED	RED
BLK	BLACK	PNK	PINK	VIO	VIOLET	IVO	IVORY



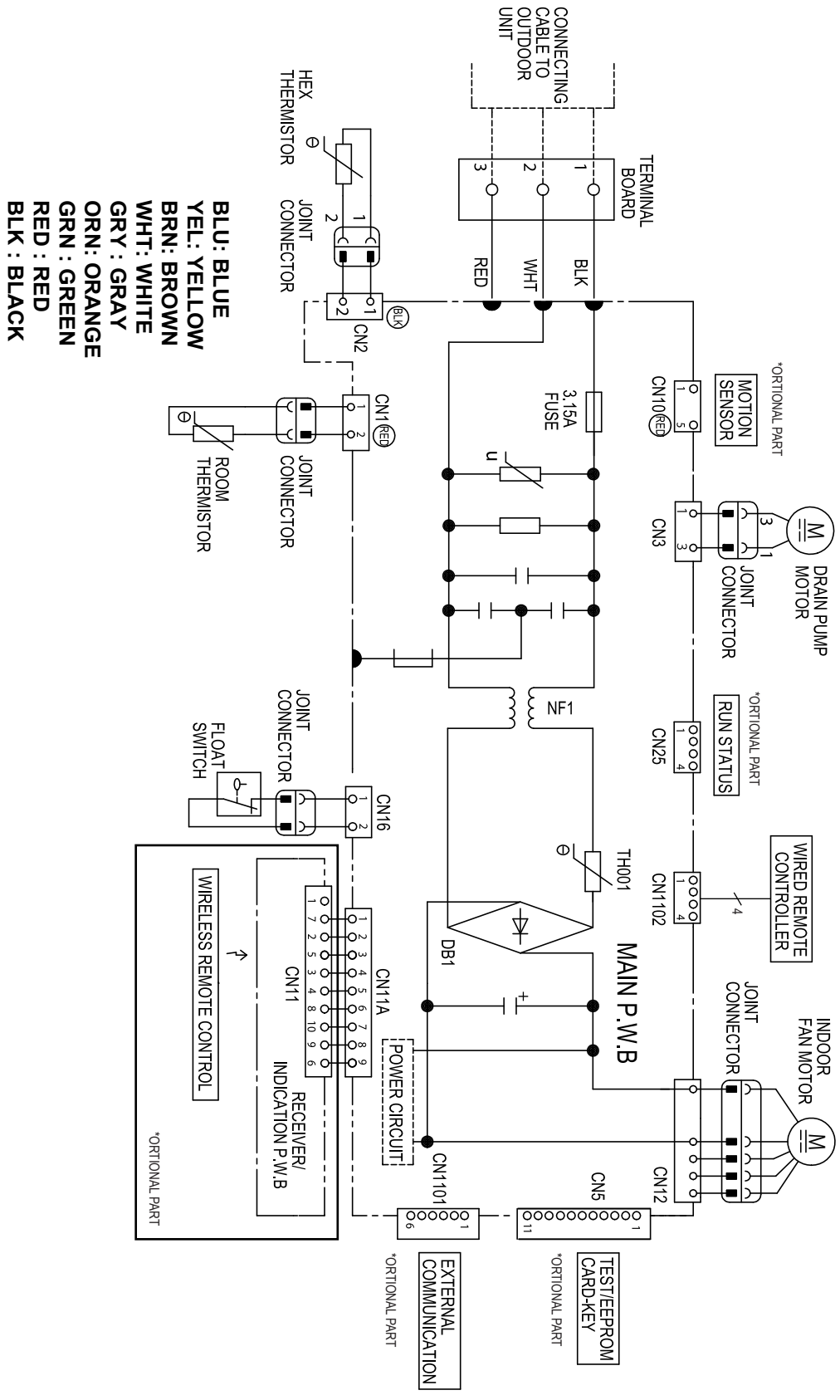
7.1.5. RAF-FJ07QHAA, RAF-FJ09QHAA, RAF-FJ12QHAA, RAF-FJ18QHAA



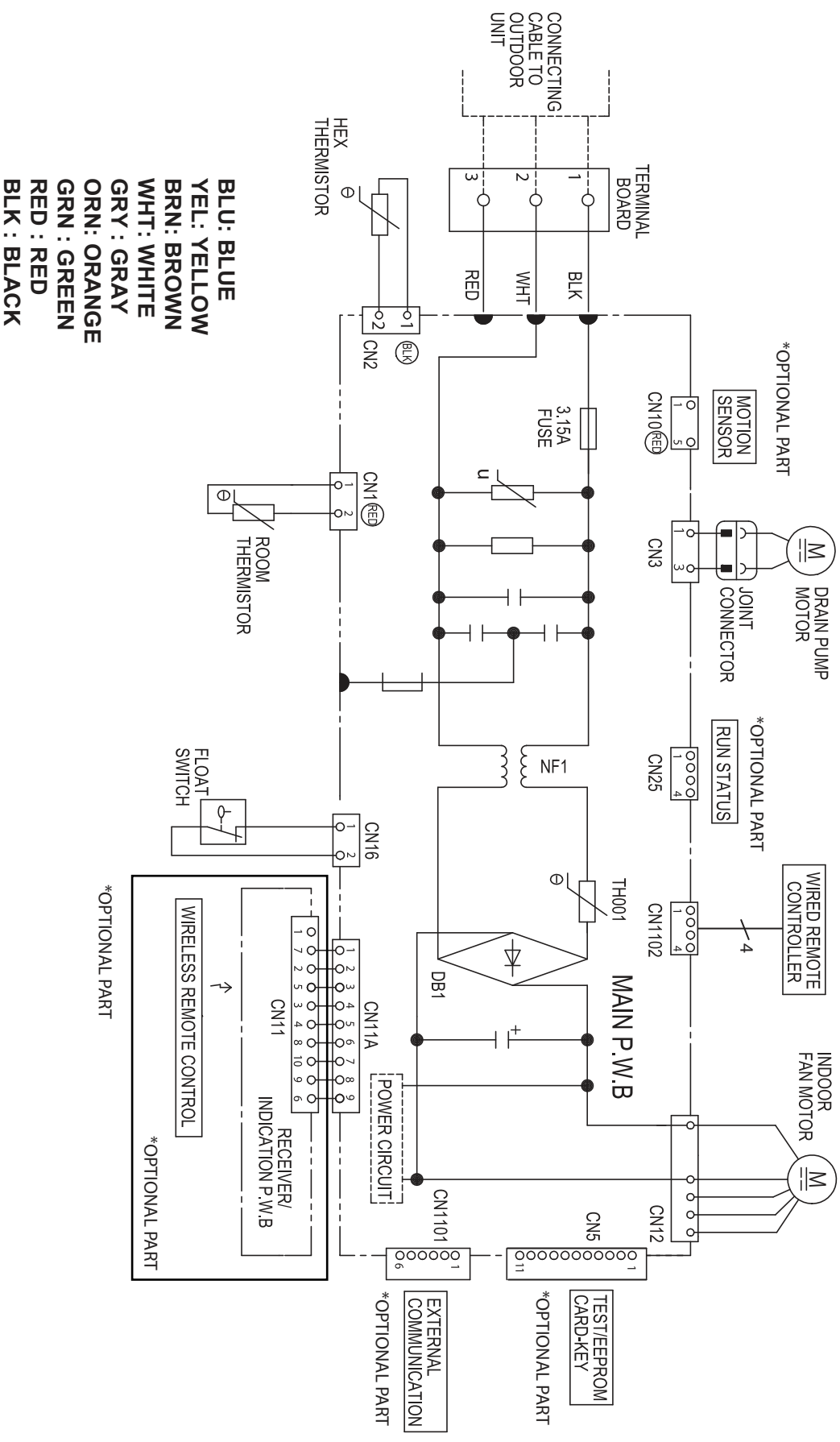
7.1.6. RAI-GJ07/09/12/18/24QHAA



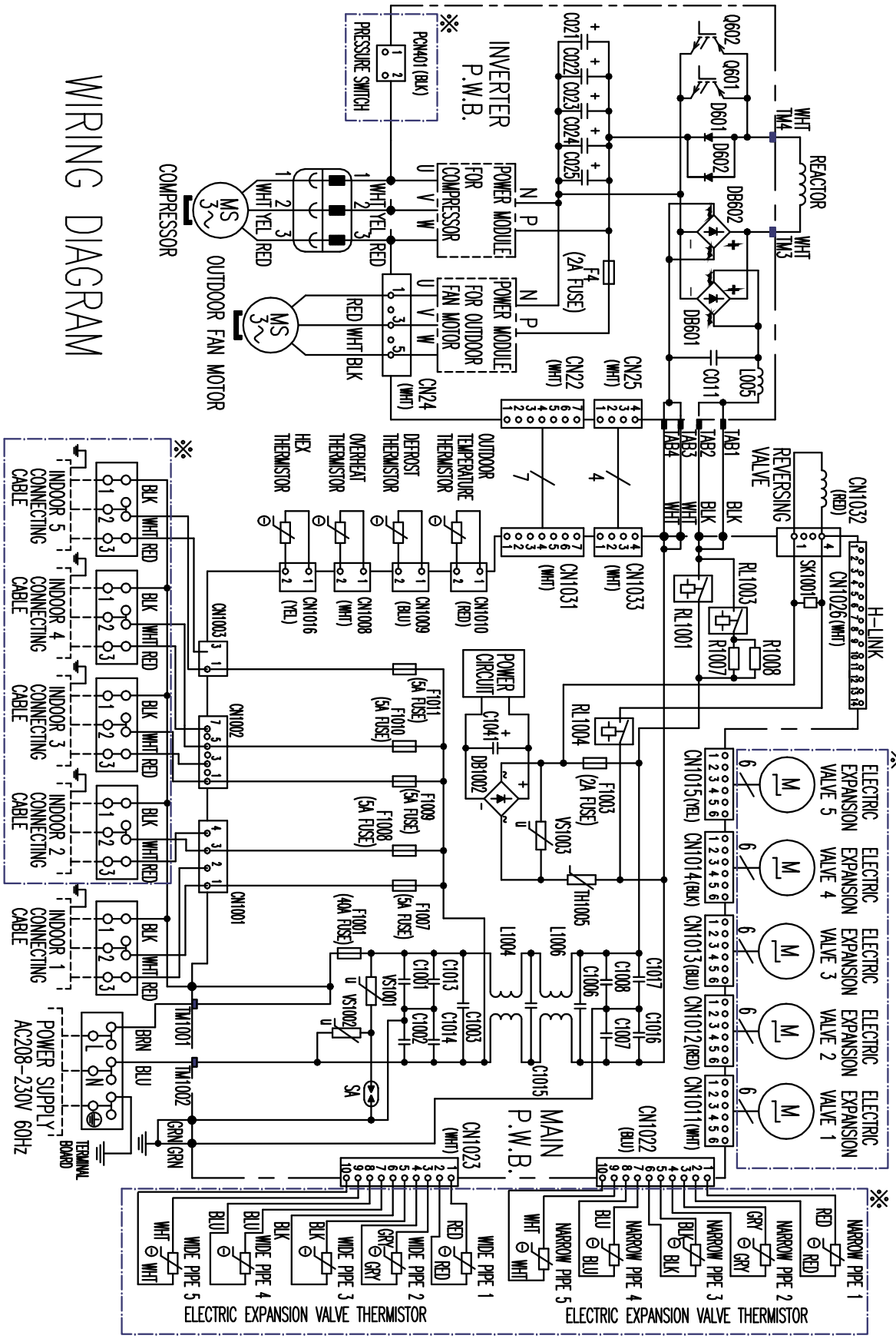
7.1.7. RAD-GJ07QHAA, RAD-GJ09QHAA, RAD-GJ12QHAA



7.1.8. RAD-GJ18QHAA , RAD-GJ24QHAA



7.2 RAM-G42N5HAA



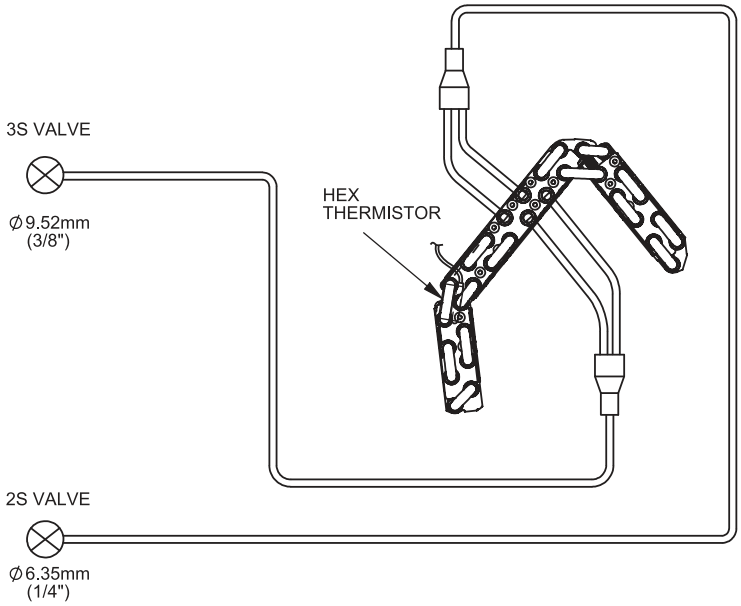
8 REFRIGERANT CYCLE

CONTENT

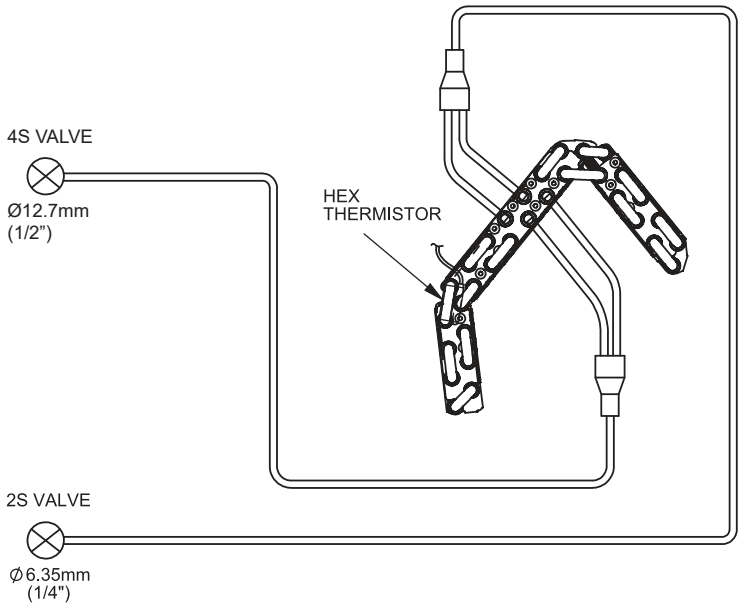
8.1. MULTIZONE INDOOR UNITS

8.1.1. WALL TYPE: RAK-DJ07QHAA,RAK-DJ09/12/18RHAA

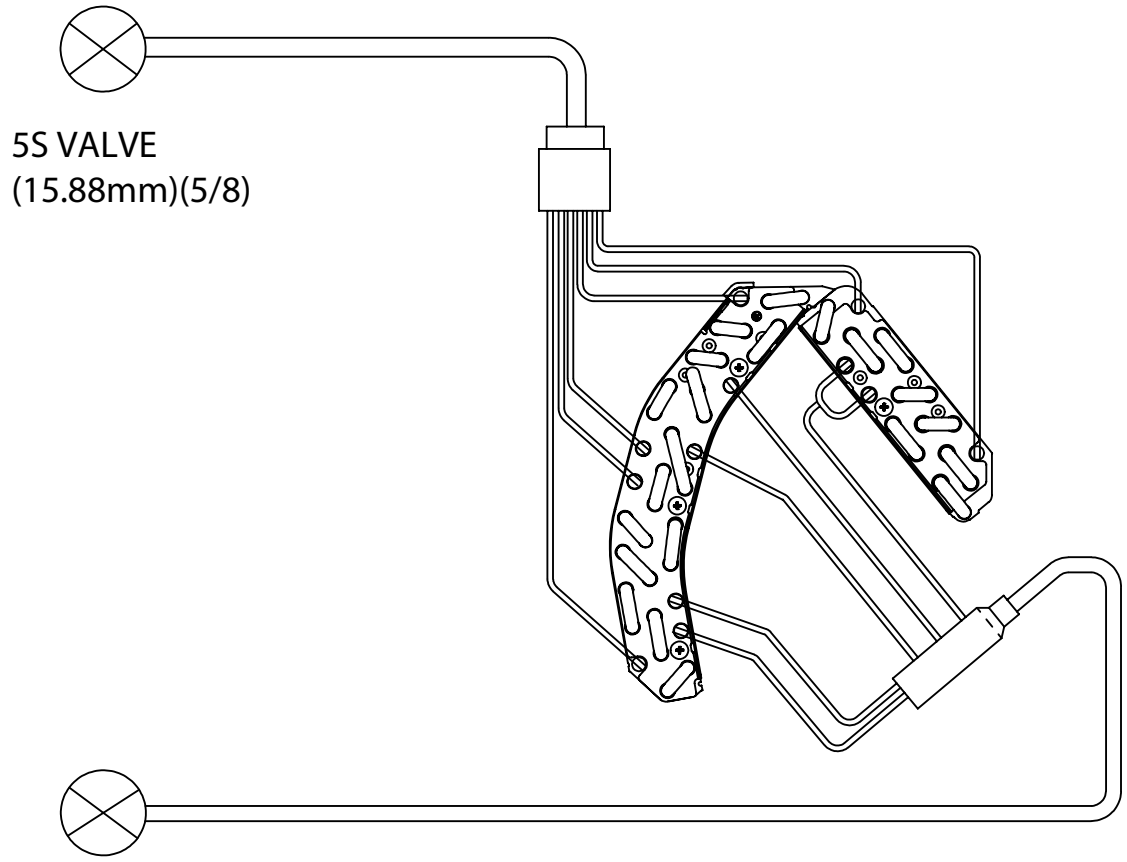
MODEL : RAK-DJ07QHAA
RAK-DJ09RHAA
RAK-DJ12RHAA



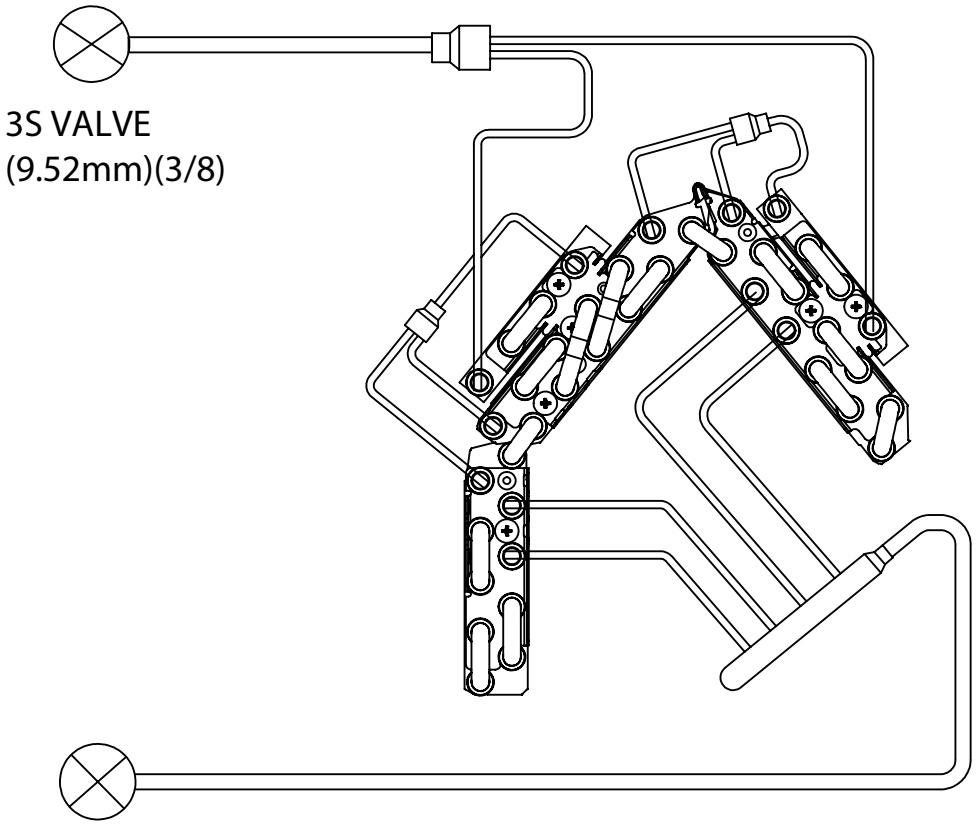
MODEL : RAK-DJ18RHAA



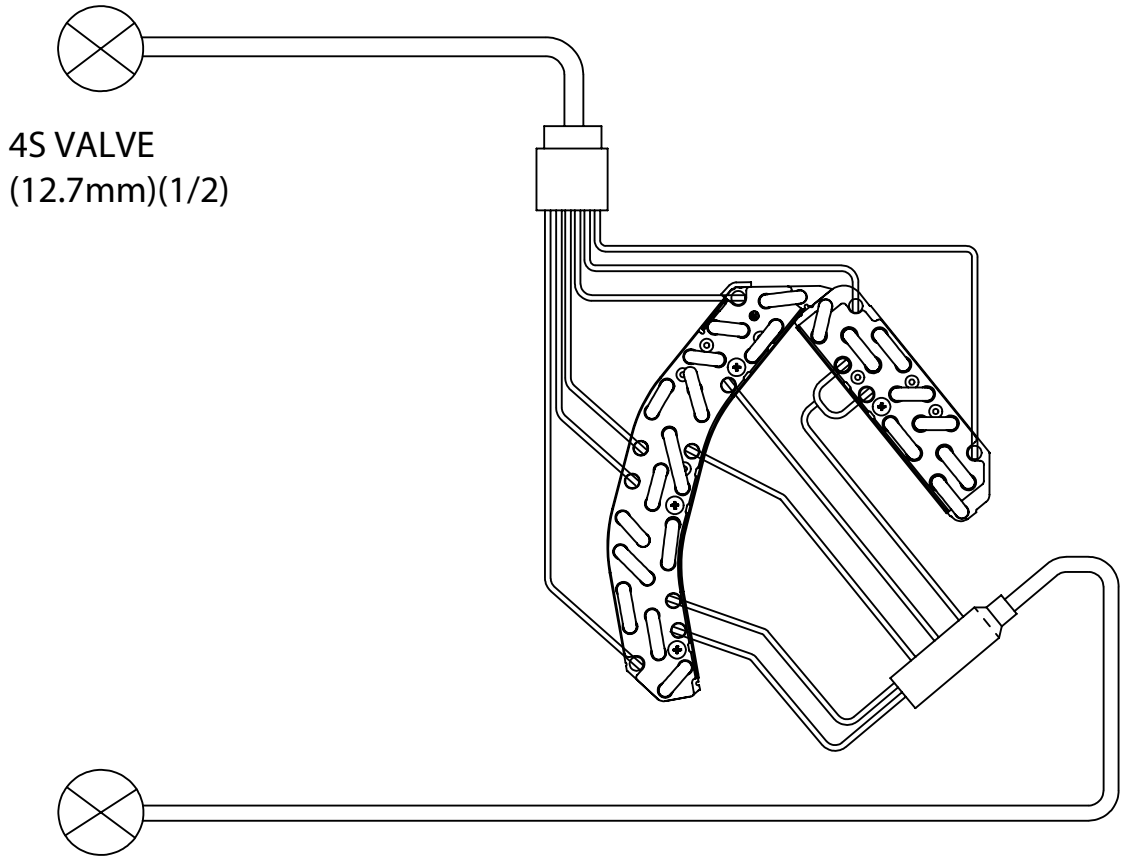
8.1.2. WALL TYPE: RAK-DJ24RHAA ,RAK-GJ24QHAA



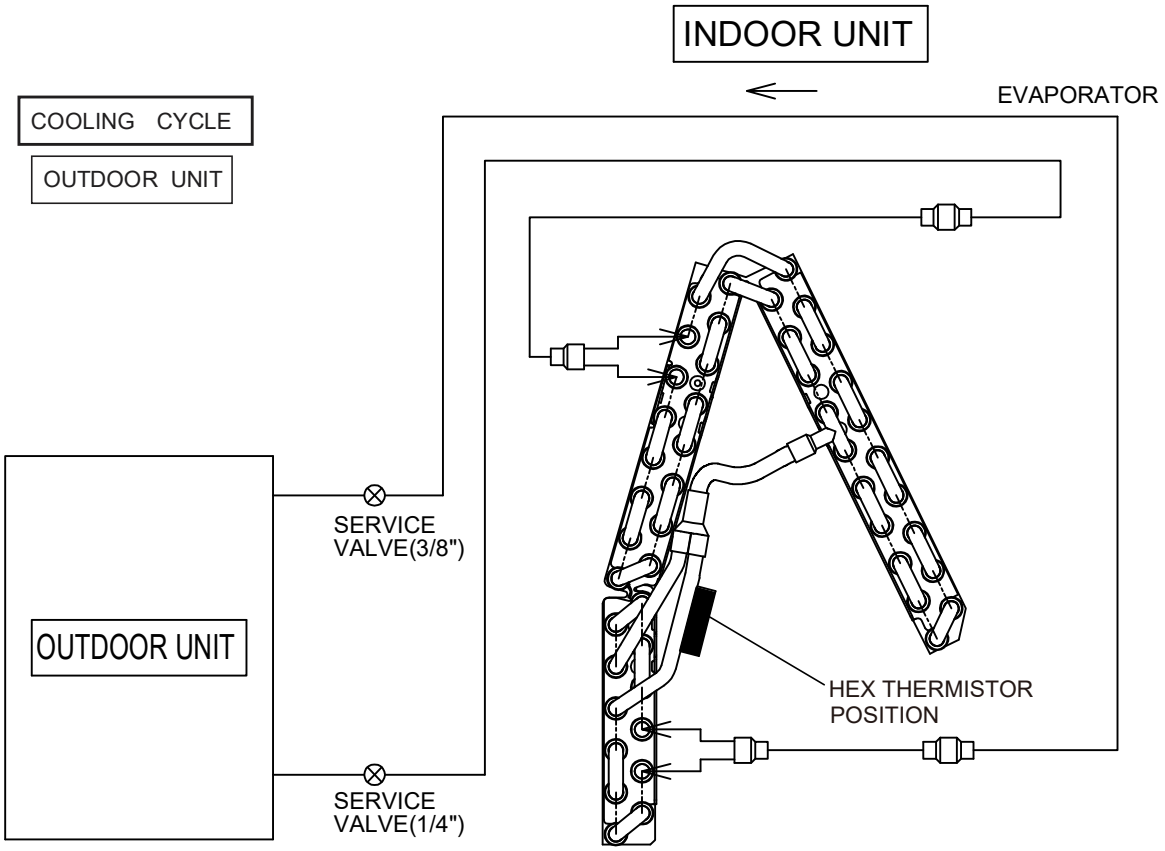
8.1.3. WALL TYPE: RAK-GJ07QHAA , RAK-GJ09/12QHAA

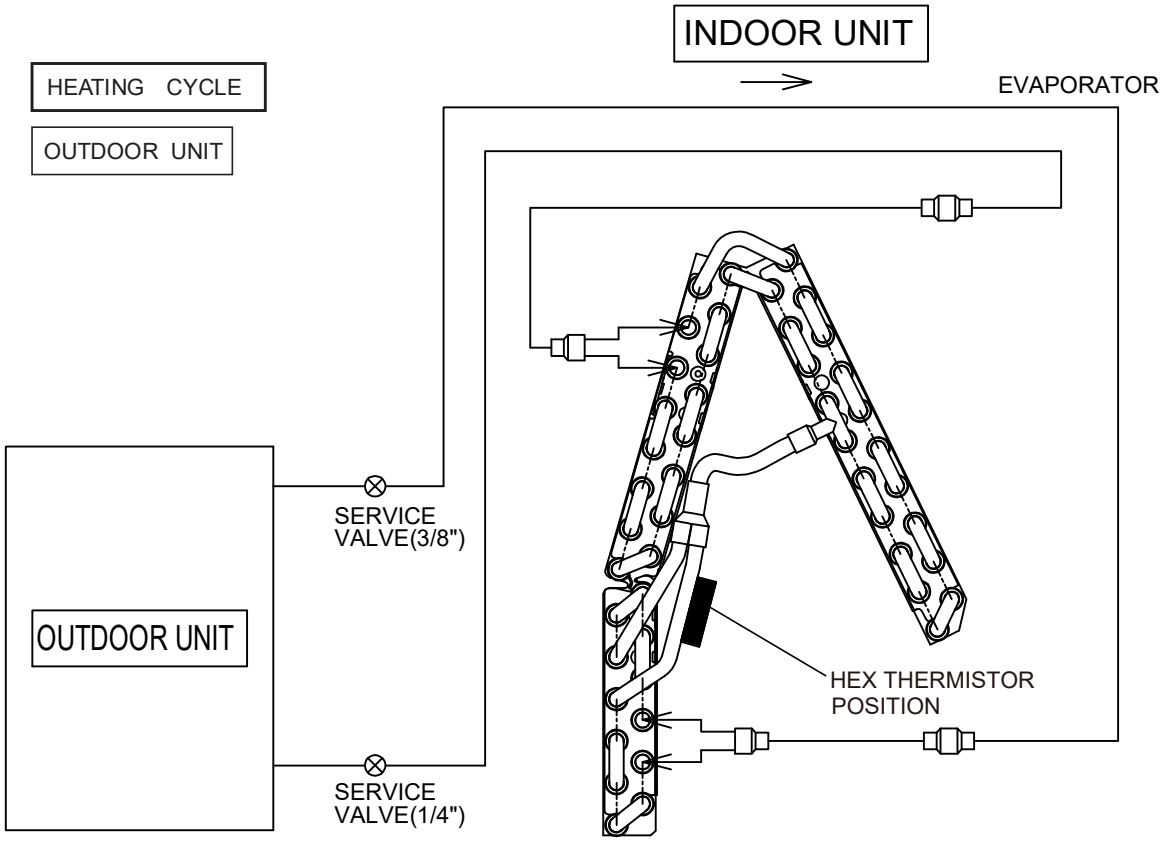


8.1.4. WALL TYPE: **RA**K-GJ18**QHAA**

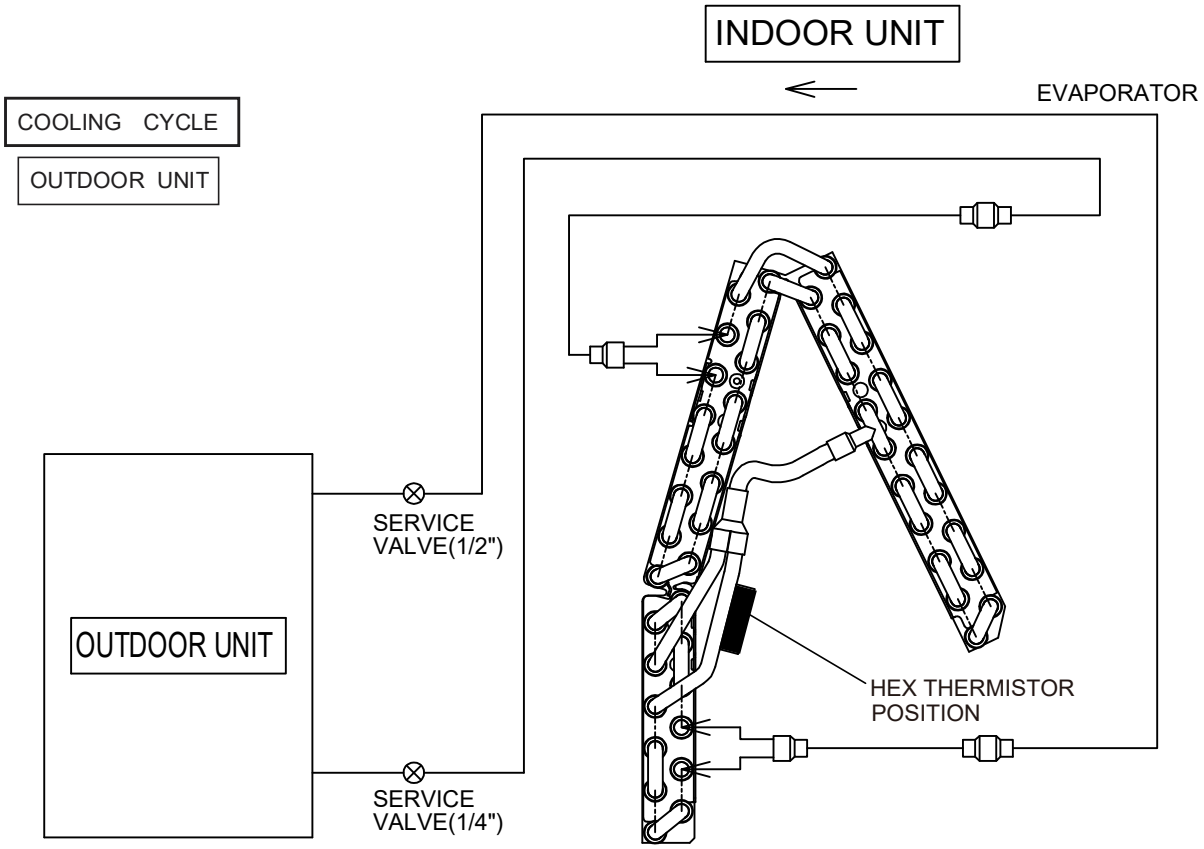


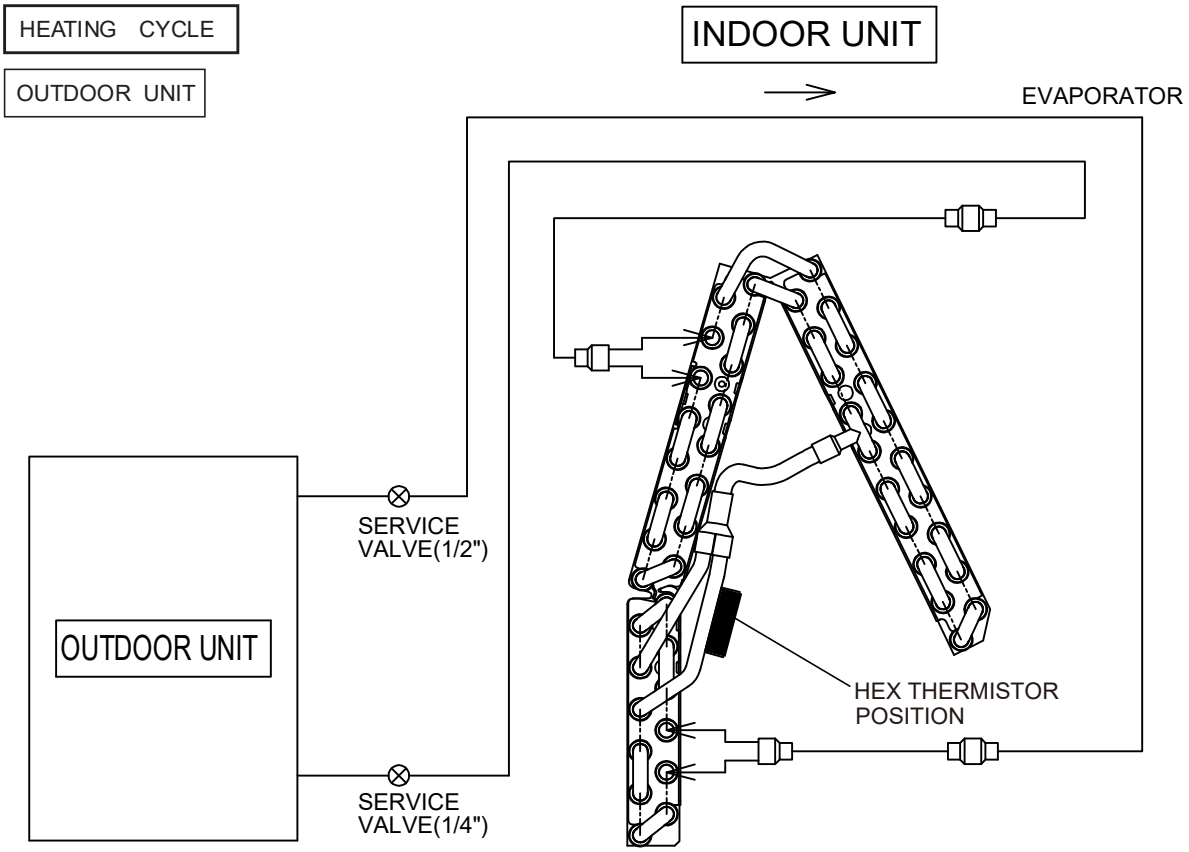
8.1.5. FLOOR TYPE: RAF-FJ07QHAA, RAF-FJ09QHAA, RAF-FJ12QHAA



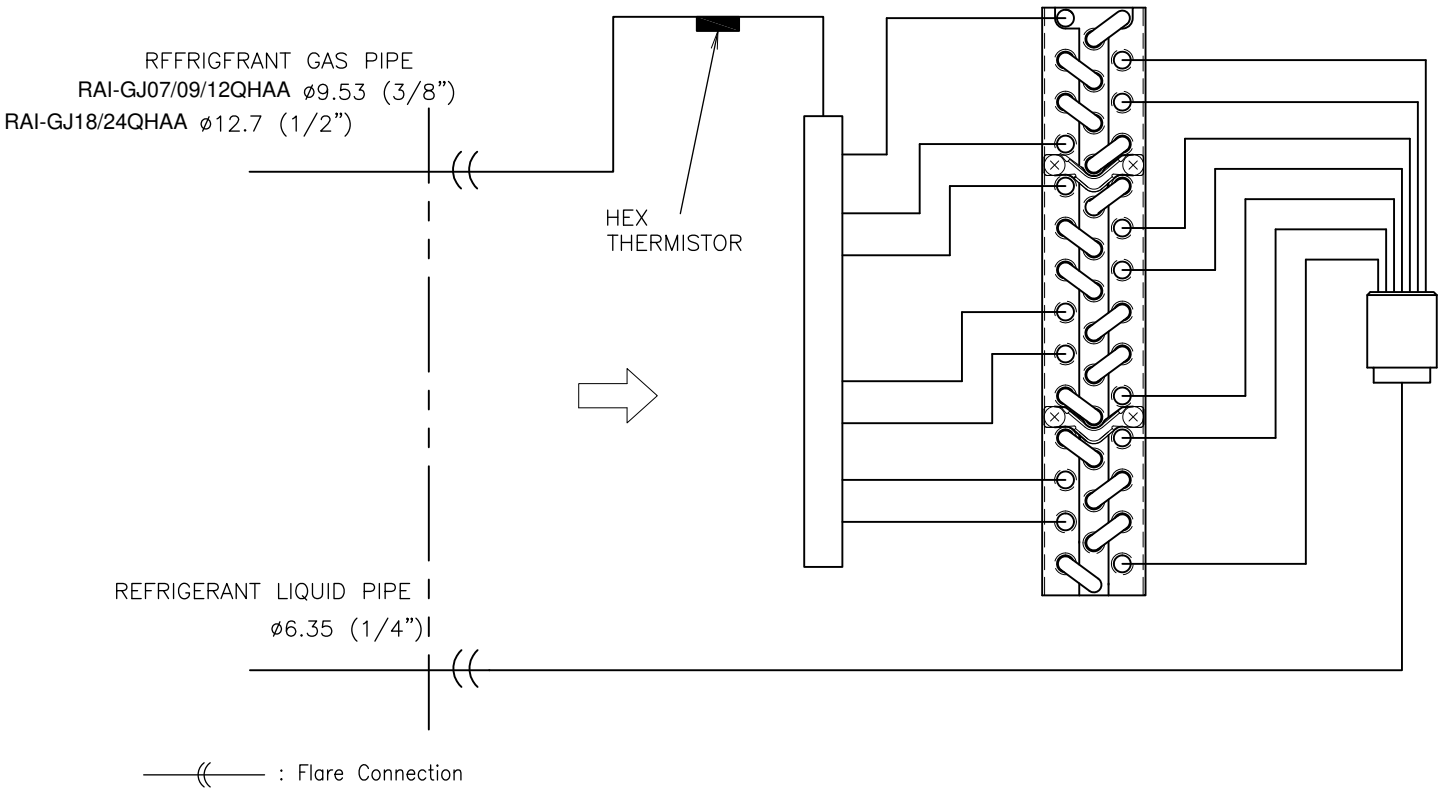


8.1.6. FLOOR TYPE: RAF-FJ18QHAA

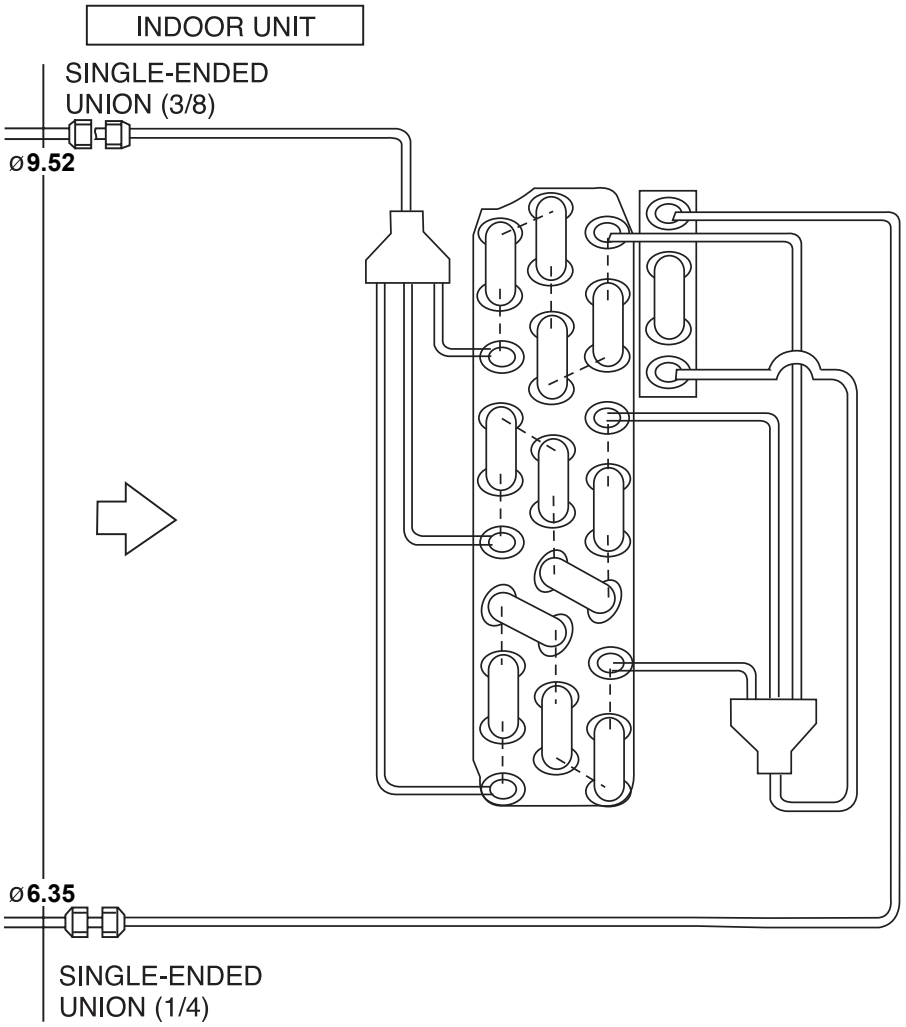




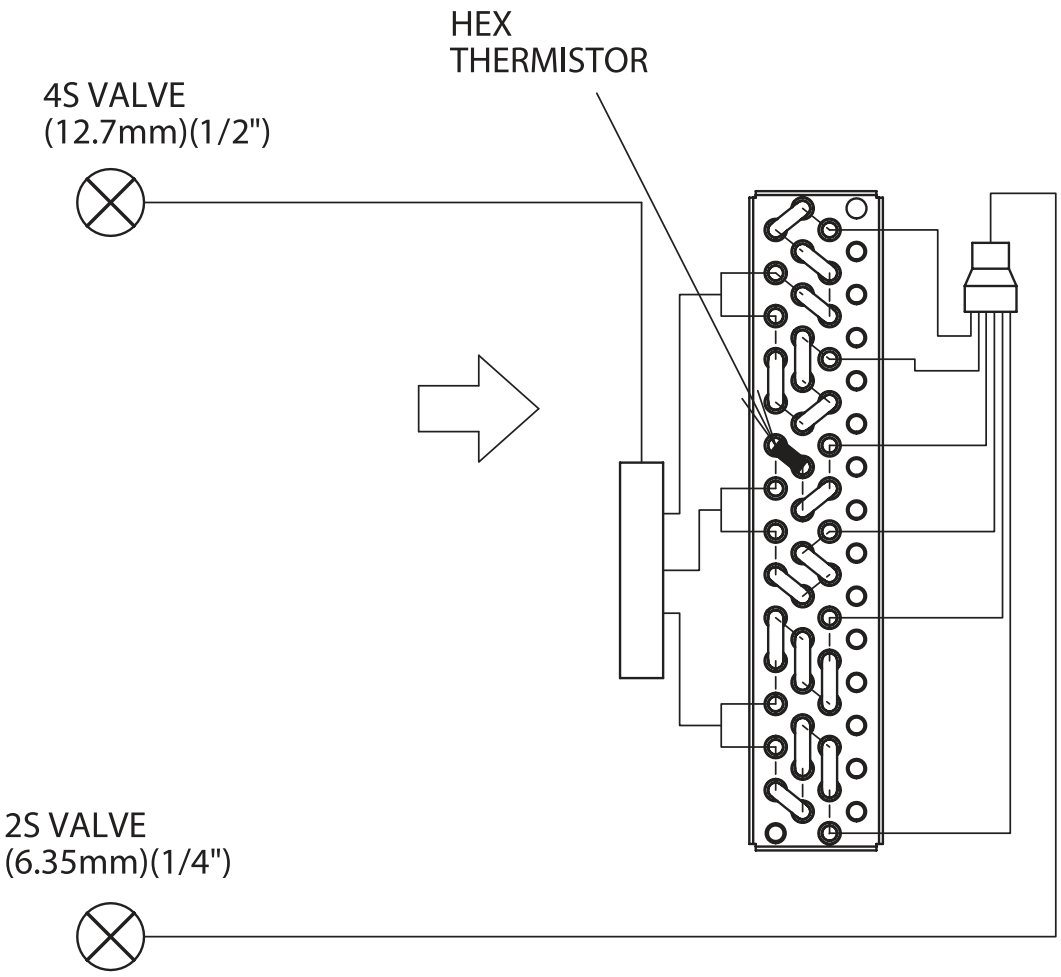
8.1.7. CEILING CASSETTE: RAI-GJ07QHAA, RAI-GJ09QHAA,RAI-GJ12QHAA, RAI-GJ18QHAA,RAI-GJ24QHAA



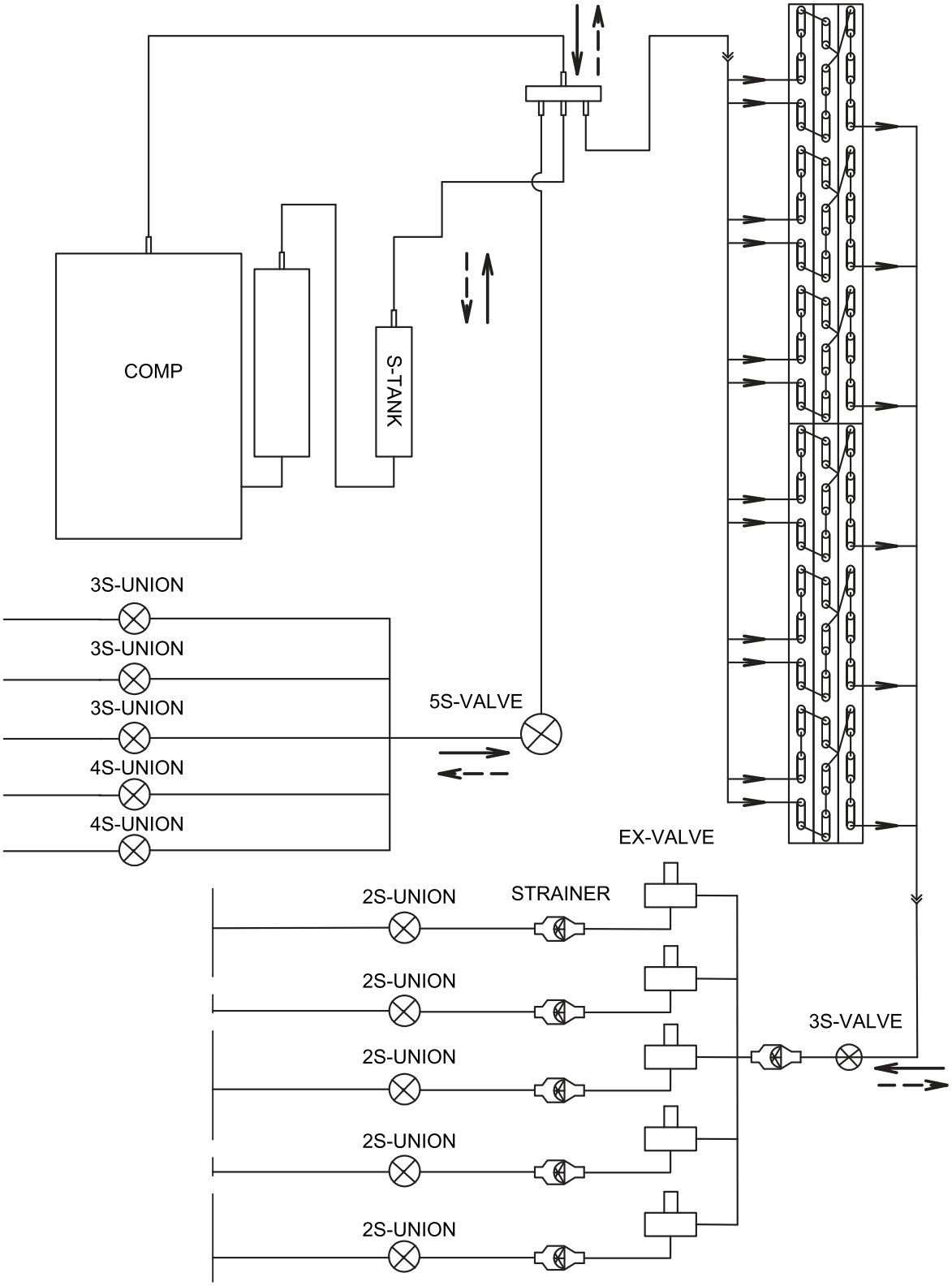
8.1.8. DUCT TYPE: RAD-GJ07QHAA, RAD-GJ09QHAA, RAD-GJ12QHAA



8.1.9. DUCT TYPE: RAD-GJ18QHAA , RAD-GJ24QHAA



8.2 5 ROOMS MULTIZONE: RAM-G42N5HAA

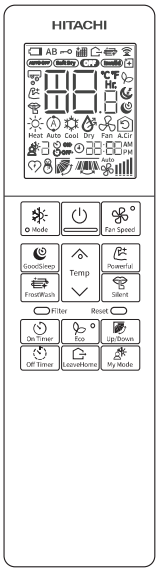
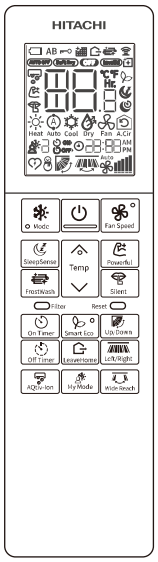
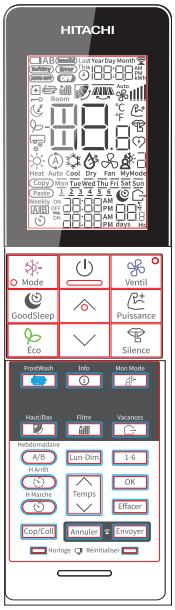
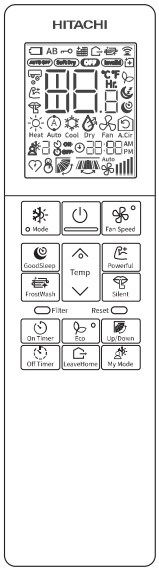
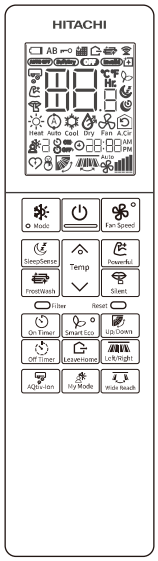


9 CONTROL AND FUNCTION

CONTENTS

9.1 WIRELESS REMOTE CONTROL FUNCTION

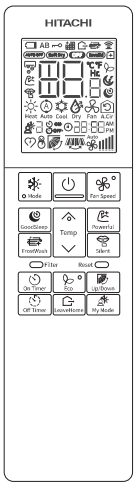
9.1.1. RC-AGU1EA0N, RC-AGS1EA0N, RC-BGH1FB0N, RC-BGH1FD0N

RC-AGU1EA0N	RC-AGS1EA0N	RC-BGH1FB0N	RC-BGH1FD0N	RC-AGU1EA0N	RC-AGS1EA0N
					
STANDARD	STANDARD	STANDARD	Optional	Optional	Optional
RAK-DJ07QHAA RAK-DJ09RHAA RAK-DJ12RHAA RAK-DJ18RHAA RAK-DJ24RHAA	RAK-GJ07QHAA RAK-GJ09QHAA RAK-GJ12QHAA RAK-GJ18QHAA RAK-GJ24QHAA	RAF-FJ07QHAA RAF-FJ09QHAA RAF-FJ012QHAA RAF-FJ018QHAA	RAF-FJ07QHAA RAF-FJ09QHAA RAF-FJ012QHAA RAF-FJ018QHAA	RAD-GJ07QHAA RAD-GJ09QHAA RAD-GJ12QHAA RAD-GJ18QHAA RAD-GJ24QHAA	RAI-GJ07QHAA RAI-GJ09QHAA RAI-GJ12QHAA RAI-GJ18QHAA RAI-GJ24QHAA

9 CONTROL AND FUNCTION

9.1. RC-AGU1EA0N

RC-AGU1EA0N



BUTTONS	FUNCTION
Mode	**Mode Selector Button** Use this button to select the operation mode. Every time you press this button the mode will change from Heat (Heat) → Auto (Auto) → Cool (Cool) → Dry (Dry) → Fan (Fan) cyclically.
GoodSleep	**GoodSleep Button** the unit shifts the room temperature and reduces the fan speed.
Temp	**Temperature Button** Room temperature setting. Value will change quicker when keep pressing.
FrostWash	**FrostWash Button** The dust and dirt adhering to indoor heat exchanger which is the cause of the smell.
Fan Speed	**Fan Speed Button** Select the fan speed.
	On/Off Button Press this button to start operation. Press it again to stop operation.
Powerful	**Powerful Button** The air conditioner performs at maximum power.
Silent	**Silent Button** The fan speed changes to the silent fan speed
On Timer	**On Timer Button** Select the turn ON time.
Off Timer	**Off Timer Button** Select the turn OFF time.
Eco	**Eco Button** Use this button to set the Eco mode.
LeaveHome	**LeaveHome Button** Prevent the room temperature from falling too much by setting temperature 50°F ~ 60°F when no one is at home.
Up/Down	**Up/Down Button** Control the angle of the horizontal air deflector.
My Mode	**My Mode Button** Use this mode for personalized comfortable settings. The My Mode can be set by using the remote controller. Up to 3 programs can be set.

For more information, please refer to the operation manual.

9.2. How to set up from Service setting mode

The Service function, which was set by DIP-SW setting or double pressing of the HHRC in the current model. it will be done by HHRC in GRAC as shown as below.

「On timer」 + 「Fan speed」 + 「Reset」

(Press three Key for 5 seconds to avoid access by User)

ENTRY

All icon ON for 2 Seconds

Layer1
(category selection):
Installation

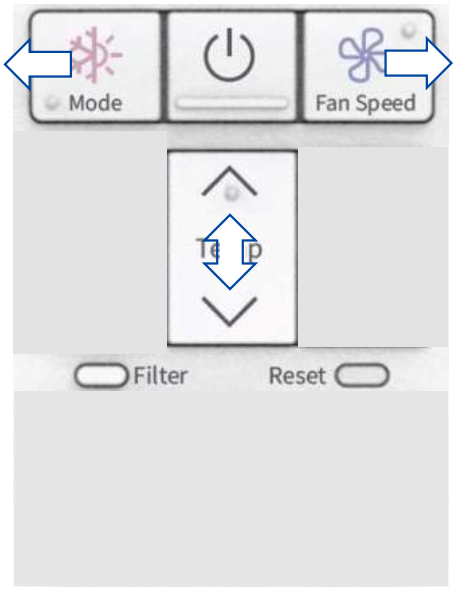
Layer2
(function selection):
Card key

Layer3
(setting select):
Disable

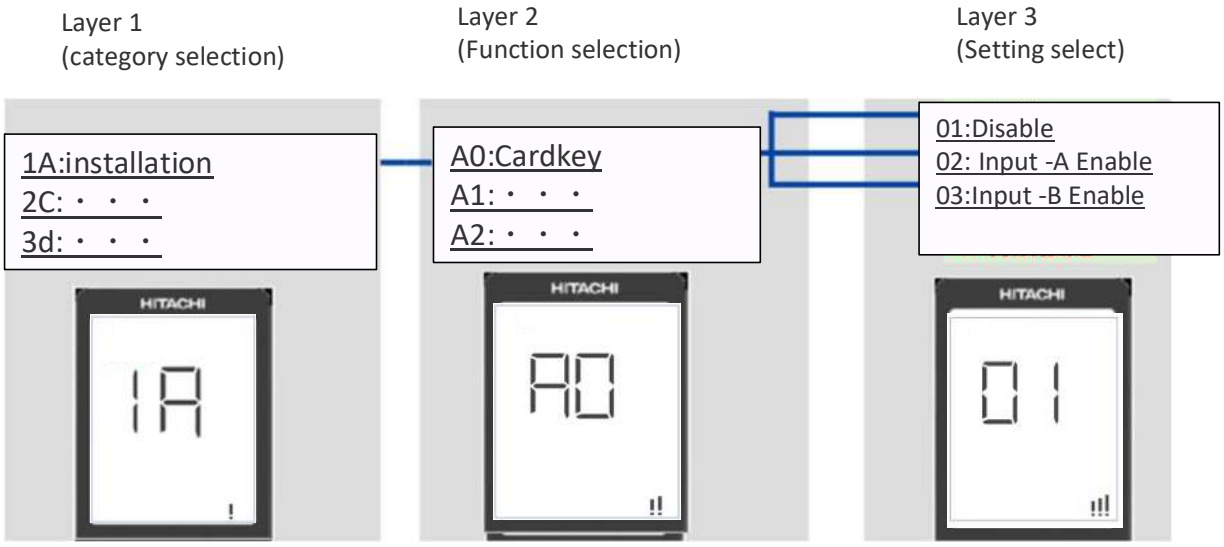
Fan speed： Current Layer

※ If you don't do anything for 30 seconds, you will be out of the service setting mode.

9.3. How to operate the HHRC method

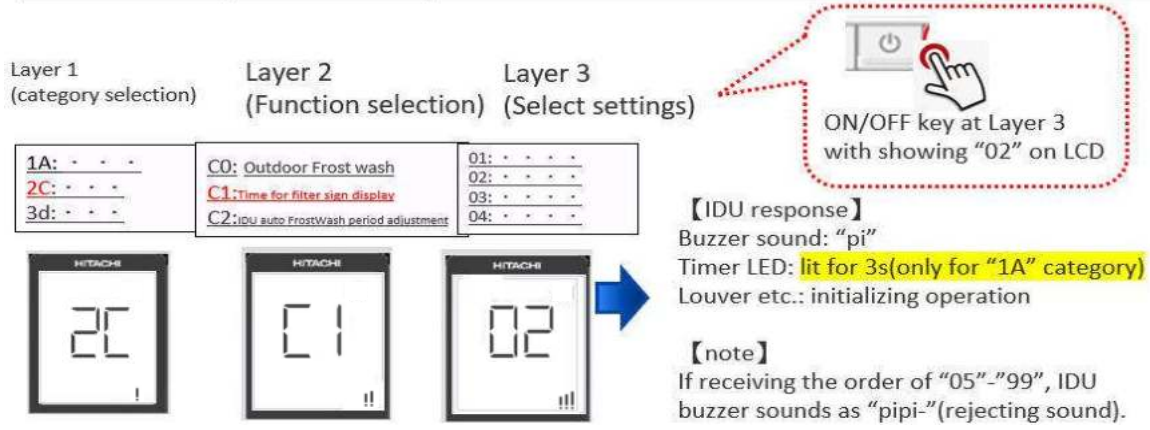


Temp△▽ : Selection (in the same layer)
Mode : move to previous layer
Fan Speed : Move to next layer
ON/OFF : Decision/Send (at layer 3)
: Current setting check(at layer 2)
Filter: category initialization(at layer 1)
Filter + ON/OFF: all category initialization(at layer 1)
※ To exit from this setting mode, you need to either not operate the HHRC panel for 30 seconds or press and hold the UP/Down key for 5 seconds.



The Adjust filter sign Time can be changed by the remote controller.
(This procedure shall be implemented strictly by service personnel only.)
It is possible to return it to the default setting.

Category	Function Name	Value	HHRC LCD display Layer1 Category	Layer2 Function	Layer3 Value
Clean	Time for filter sign display	filter lamp lighting time:Adjustment -1(100h)	2C	C1	01
		filter lamp lighting time:Adjustment ±0(200h)			02
		filter lamp lighting time:Adjustment ±1(300h)			03
		filter lamp lighting time:Adjustment ±2(400h)			04
		reserve			05-99



【IDU response】
Buzzer sound: "pi"
Timer LED: lit for 3s(only for "1A" category)
Louver etc.: initializing operation

【note】
If receiving the order of "05"-"99", IDU buzzer sounds as "pipi-"(rejecting sound).

9.4. Service setting item used for GRAC Entry

Category	Function	Display on LCD Temperature 7 segment Layer Wise			Value setting meaning at Layer-3
		1	2	3	
Installation	Card Key	1A	A0	01	1 - Card Key Input - Disable
				02	2 – Contact A Enable
				03	3 – Contact B Enable
				04-99	4~99 : Reserved
	Heating/Cooling only mode select - (Operation Mode Lock)	1A	A1	01	1 - Normal Mode
				02	2 -Cooling Lock (Cool,Dry,A.circulator,Fan mode available)
				03	3 - Heating Lock (Heat and Fan mode available)
				04-99	4~99 : Reserved
	Auto restart switchover(Standard)	1A	A2	01	auto restart changeover disable
				02	auto restart by previous mode
				03-99	3~99 : Reserved
Clean	Time for filter sign display	2C	C1	01	filter lamp lighting time:Adjustment -1 **(100hours)**
				02	filter lamp lighting time:Adjustment ±0 **(200hours)**
				03	filter lamp lighting time:Adjustment +1 **(300hours)**
				04	filter lamp lighting time:Adjustment +2 **(400hours)**
				05-99	Reserved
Cycle Operation adjustment	Defrost selection Function	3d	E0	01	01 - Standard Region
				02	02- Cold Region
				03-99	Reserved
	Set temperature shift adjustment (Cooling)	3d	E1	01	Setting Temperature Shift Adjustment (-5°C/-10°F
				02	Setting Temperature Shift Adjustment (-4°C/-8°F)
				03	Setting Temperature Shift Adjustment (-3°C/-6°F)
				04	Setting Temperature Shift Adjustment (-2°C/-4°F)
				05	Setting Temperature Shift Adjustment (-1°C/-2°F)
				06	Setting Temperature Shift Adjustment (±0°C/±0°F)
				07	Setting Temperature Shift Adjustment (+1°C/2°F)
				08	Setting Temperature Shift Adjustment (+2°C/4°F)
				09	Setting Temperature Shift Adjustment (+3°C/6°F)
				10	Setting Temperature Shift Adjustment (+4°C/8°F)
				11	Setting Temperature Shift Adjustment (+5°C/10°F)
				12-99	Reserved
	Set temperature shift adjustment (Heating)	3d	E2	01	Setting Temperature Shift Adjustment (-5°C/-10°F
				02	Setting Temperature Shift Adjustment (-4°C/-8°F)
				03	Setting Temperature Shift Adjustment (-3°C/-6°F)
				04	Setting Temperature Shift Adjustment (-2°C/-4°F)
				05	Setting Temperature Shift Adjustment (-1°C/-2°F)
				06	Setting Temperature Shift Adjustment (±0°C/±0°F)
				07	Setting Temperature Shift Adjustment (+1°C/2°F)
				08	Setting Temperature Shift Adjustment (+2°C/4°F)
				09	Setting Temperature Shift Adjustment (+3°C/6°F)
				10	Setting Temperature Shift Adjustment (+4°C/8°F)
				11	Setting Temperature Shift Adjustment (+5°C/10°F)
				12-99	Reserved
	Indoor fan air speed when cooling thermostat is off	3d	E3	01	01 : standard
				02	02 : Cold Region
				03-99	Reserved
	Selection of indoor fan control during heating thermo-off	3d	E4	01	01 : Fan Control at the Time of Heating Thermo- Off "Pattern 1"
				02	02 : Fan Control at the Time of Heating Thermo- Off "Pattern 2"
				03	03 : Fan Control at the Time of Heating Thermo- Off "Pattern 3"
					d
supporting service	Wi-Fi forced reset count	5F	L1	01	4(Number of forced resets)
				02	8(Number of forced resets)
				03	12(Number of forced resets)
				04-99	Reserved

9.4. Service setting item used for GRAC Entry

HHRC	Temperature Resolution change - 0.5°C--> 1°C	6H	P0	01	1 -0.5 °C Resolution
					2-1 °C Resolution
	Fan Speed key sequence (Weaker to stronger , stronger to Weaker)	6H	P1	01	1 - Default (Auto-Silent-Low-Med-Hi-Hi2)
					2- Reverse (Hi2-Hi-Med-Lo-Silent-Auto)
	Operation Mode : Auto	6H	P2	02	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Operation Mode : Cool	6H	P3	02	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Operation Mode : Dry	6H	P4	02	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Operation Mode : Fan	6H	P5	02	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Operation Mode : Heat	6H	P6	02	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Auto Fan speed : Enable / Disable	6H	P8	02	1 -Disable Selection on HHRC by Fan key
					2 - Enable Selection on HHRC by Fan Key
	Fan Speed tapping control	6H	P9	01	1- Normal (Auto,Silent, Low,Med,Hi,H2) Selection on HHRC by Fan key
					2- (Auto,Silent,Lo,Med,Hi) Selection on HHRC by Fan key
	Cooling Lower limit setting	6H	PC	16	Lower set temp. start from 60°F)
				17	Lower set temp. start from 63°F)
				18	Lower set temp. start from 64°F)
				19	Lower set temp. start from 66°F)
				20	Lower set temp. start from 68°F)
				21	Lower set temp. start from 70°F)
				22	Lower set temp. start from 72°F)
				23	Lower set temp. start from 73°F)
				24	Lower set temp. start from 76°F)
				25	Lower set temp. start from 77°F)
				26	Lower set temp. start from 79°F)
				27	Lower set temp. start from 80°F)
				28	Lower set temp. start from 83°F)
				29	Lower set temp. start from 84 °F)
				30	Lower set temp. start from 86 °F)
				31	Lower set temp. start from 88 °F)
				32	Lower set temp. start from 90 °F)
	Heating Upper limit setting	6H	Pd	32	Upper set temp. start from 90 °F)
				31	Upper set temp. start from 88 °F)
				30	Upper set temp. start from 86 °F)
				29	Upper set temp. start from 84 °F)
				28	Upper set temp. start from 83 °F)
				27	Upper set temp. start from 80 °F)
				26	Upper set temp. start from 79 °F)
				25	Upper set temp. start from 77 °F)
				24	Upper set temp. start from 76 °F)
				23	Upper set temp. start from 73 °F)
				22	Upper set temp. start from 72 °F)
				21	Upper set temp. start from 70 °F)
				20	Upper set temp. start from 68 °F)
				19	Upper set temp. start from 66 °F)
				18	Upper set temp. start from 64 °F)
				17	Upper set temp. start from 63 °F)
				16	Upper set temp. start from 60 °F)
Diagnosis	Failure Indication(latest to last 5 times)	7J	t0	01	1: Failure Display History 1 (Latest of last Five)
				02	2: Failure Display History 2
				03	3: Failure Display History 3
				04	4: Failure Display History 4
				05	5: Failure Display History 5 (5 th Error)
				06-99	Reserved
	display ODU Self check (Failure Diagnosis Start)	7J	t1	01	1 : Failure Diagnosis Start
				02-99	Reserved
	Failure Memory Erase	7J	t2	01	1:Failure Memory Erase
				02-99	Reserved
	Humidity Sensor failure diagnosis	7J	t3	01	1:Humidity ensor failure diagnosis request
				02-99	Reserved

9.5. Buzzer sounding for showing error contents

【Purpose】

Reduction of “mis-communication about error contents" at contacting the service call center.

【Function】

Add buzzer sounding for showing error contents during error, in addition to IDU LED action .

【How to use】

When IDU or ODU has failed, and the Timer lamp is blinking. Service engineer can know error contents from the buzzer through phone.

「Up/Down」
(Press this Key for 5 seconds)

In case of IDU failure

LED action

Timer lamp is blinking

Buzzer action

【note】
・for stopping buzzer, stop by On/Off button, or press Up/Down button for 5 seconds.

In case of ODU failure

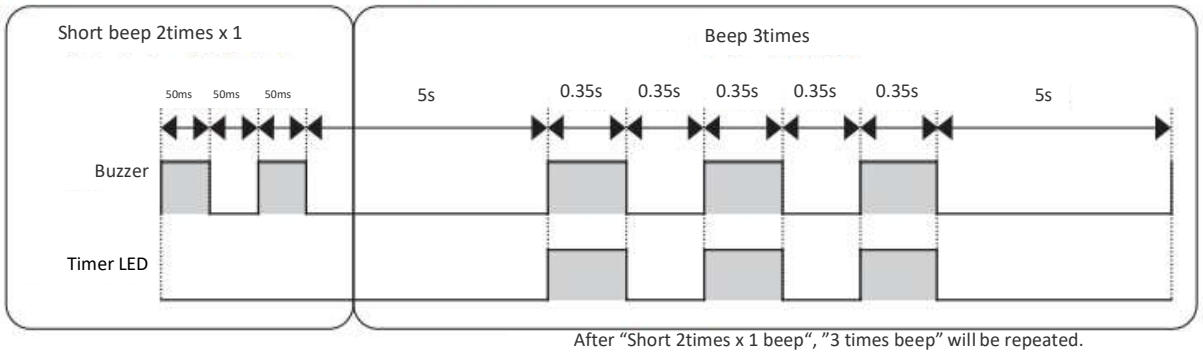
LED action

Operation lamp is blinking

Buzzer action

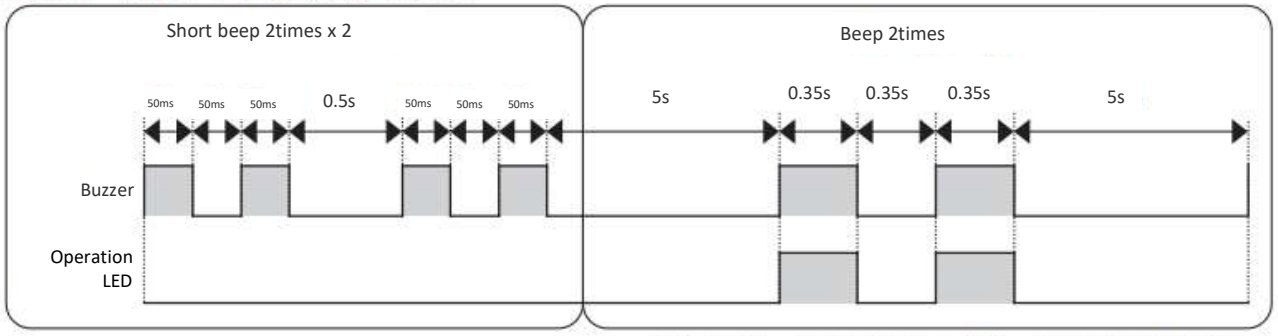
Sounding by same rhythm with LED

<IDU error example: timer LED will blink 3 times(interface defective(IDU) >



After “Short 2times x 1 beep“, ”3 times beep” will be repeated.

<ODU error example: operation LED will blink 2 times(peak current cut) >



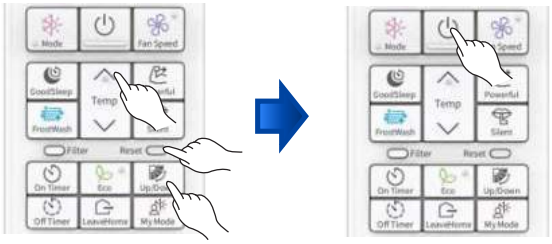
After “Short 2times x 2 beep“, ”2 times beep” will be repeated.

9.6. OTHER SETTING

- **ID SELECTION**

1. Press “Up/Down swing button” and “set. Temp. up button” and “reset button”, and release “reset button”.
2. Select from A or B by pressing “set.temp. button”.
3. Press “On/Off button” toward IDU.

(EEPROM in HHRC will keep the A or B information.)

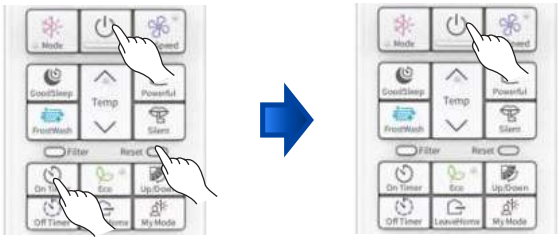


- **DISPLAY MODE**

For operating indoor unit independently (without outdoor unit connection), remote controller has to be set according to below procedures before send the signal to the indoor unit. New communication format between indoor and outdoor is required to communicate with outdoor unit.

1. Press and holding “On Times button” and “On/Off button”, press “reset button” on the same time.
2. Release “reset button” only and make sure thar the FAN speed icon on LCD display.
3. Press”On/Off button” toward IDU.

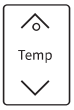
Then, the indoor unit will starts to operate independently according the selected operation mode.



9.7. ERROR CODE INFORMATION

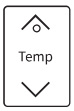
9.7.1. HOW TO DISPLAY ERROR CODE

1.Press three key ([On Timer] + [Fan Speed] + [Reset]) button on the remote control for 5 seconds to avoid access by User.

2. Press “ 

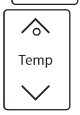
” (Temperature) button of the remote control and select the “7J” option.

3. Press “ 

” (Fan Speed) button of the remote control, then Press “ 

” (Temperature) button select the “t0” option.

4. Press “ 

” (Fan Speed) button of the remote control, then Press “ 

” (Temperature) button select the “01” option.

5. Press “ 
” (On/Off) button of the remote control, the fault information will be seen.

Function Name	Value	Layer1	Layer2	Layer3
		Category	Function	Value
Display self-diagnosis memory(※)	Display History 1 (Latest(newest) of last Five)	7J	t0	01
	Display History 2			02
	Display History 3			03
	Display History 4			04
	Display History 5			05

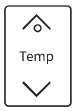
The specific information of error code is shown in the table below:

	TIMER LAMP BLINKING	LD301 BLINKING	CODE	MEANING
INDOOR	-	-	000 00	Normal
	1 time	-	001 00	Refrigerant cycle fault
	2 times	-	-	Outdoor unit is under forced operation
	3 times	9 times	003 00	Communication error (indoor)
	9 times	-	009 00	Indoor thermistor defective
	10 times	-	003 00	Abnormal rotating numbers of DC fan motor
	12 times	9 times	012 00	Communication error (outdoor)
	13 times	-	013 00	EEPROM data reading error
	20 times	-	020 00	Human sensor defective
	21 times	-	021 00	Interface defective (other machine cause)
	25 times	-	025 00	CN7A/B connection defective

	OPERATION LAMP BLINKING	CODE	MEANING (THE FOLLOW DEFECTIVES IN OUTDOOR UNIT)
INDOOR	2 times	002 01	Peak current cut
	3 times	003 01	Compressor abnormal low speed rotation
	4 times	004 01	Compressor switching failure
	5 times	005 01	Overload lower limit cut
	6 times	006 01	OH thermistor temperature rise
	7 times	007 01	Abnormal outdoor thermistor
	9 times	009 01	Communication error
	10 times	010 01	Abnormal power source
	11 times	011 01	Fan stop for strong wind
	12 times	012 01	Fan motor fault
	13 times	013 01	EEPROM reading error
	14 times	014 01	DC Voltage abnormal
	15 times	015 01	Abnormal PWB circuit
	16 times	016 01	High load stop

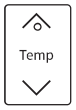
9.7.2. HOW TO REMOVE ERROR CODE

1. Press three key ([On Timer] + [Fan Speed] + [Reset]) button on the remote control for 5 seconds to avoid access by User.

2. Press “ 

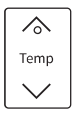
” (Temperature) button of the remote control and select the “7J” option.

3. Press “ 

” (Fan Speed) button of the remote control, then Press “ 

” (Temperature) button select the “t2” option.

4. Press “ 

” (Fan Speed) button of the remote control, then Press “ 

” (Temperature) button select the “01” option.

5. Press “  ” (On/Off) button of the remote control, and the error code will be removed.

10 CONTROL AND FUNCTION

CONTENTS

10 CONTROL AND FUNCTION

10.1. RC-AGS1EA0N

RC-AGS1EA0N

BUTTONS	FUNCTION
Mode	**Mode Selector Button** Use this button to select the operation mode. Every time you press this button the mode will change from Heat (Heat) → Auto (Auto) → Cool (Cool) → Dry (Dry) → Fan (Fan) cyclically.
SleepSense	**SleepSense Button** Control set temperature and fan speed.
Temp	**Temperature Button** Room temperature setting. Value will change quicker when keep pressing.
FrostWash	**FrostWash Button** The dust and dirt adhering to indoor heat exchanger which is the cause of the smell.
Fan Speed	**Fan Speed Button** Select the fan speed.
	On/Off Button Press this button to start operation. Press it again to stop operation.
Powerful	**Powerful Button** The air conditioner performs at maximum power.
Silent	**Silent Button** The fan speed changes to the silent fan speed
On Timer	**On Timer Button** Select the turn ON time.
Off Timer	**Off Timer Button** Select the turn OFF time.
Smart Eco	**Smart Eco Button** Use this button to set the Smart Eco mode.
LeaveHome	**LeaveHome Button** Prevent the room temperature from falling too much by setting temperature 50°F~60°F when no one is at home.
Up/Down	**Up/Down Button** Control the angle of the horizontal air deflector.
My Mode	**My Mode Button** Use this mode for personalized comfortable settings. The My Mode can be set by using the remote controller. Up to 3 programs can be set.
Left/Right	**Left/Right Button** Control the angle of the Vertical air deflector.
Wide Reach	**Wide Reach Button** Control the angle of the Vertical air deflector.
AQtiv-Ion	**AQtiv-Ion Button**

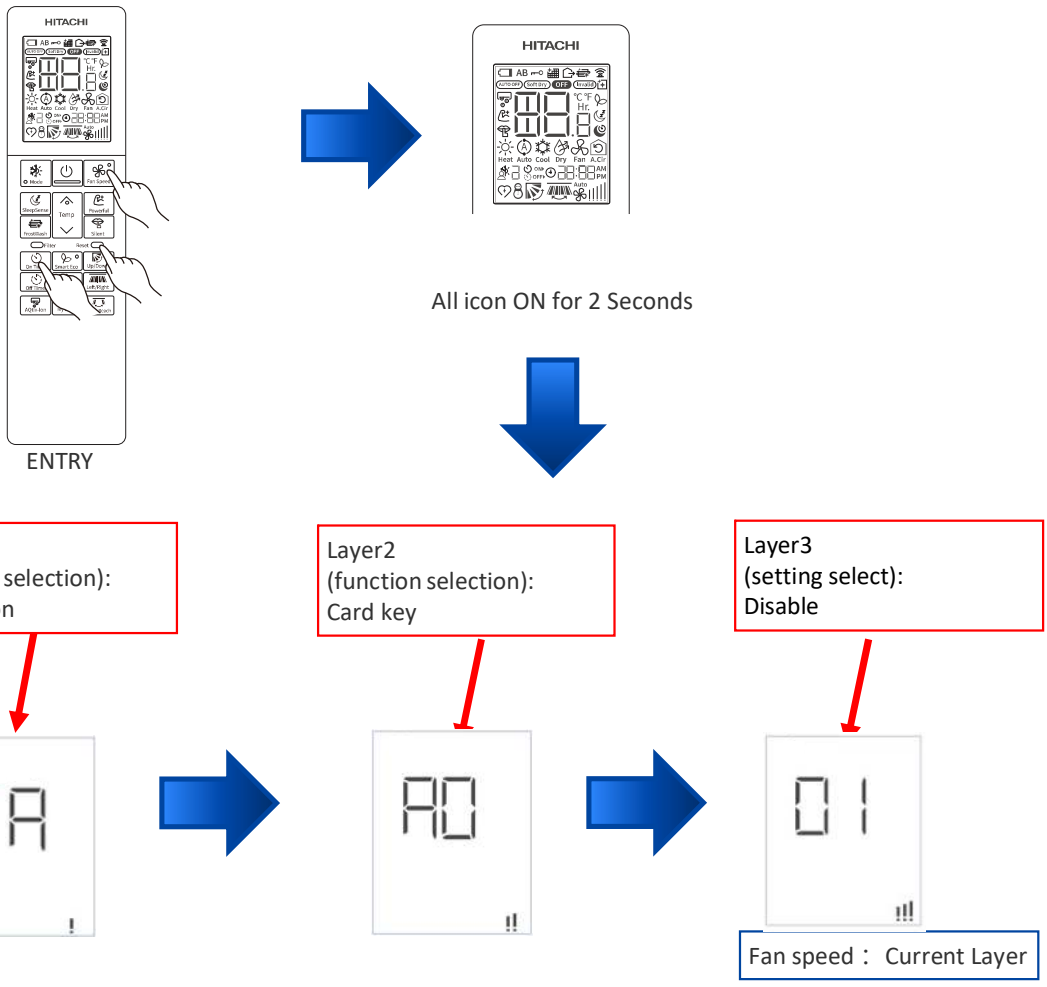
For more information, please refer to the operation manual.

10.2. How to set up from Service setting mode

The Service function, which was set by DIP-SW setting or double pressing of the HHRC in the current model. it will be done by HHRC in GRAC as shown as below.

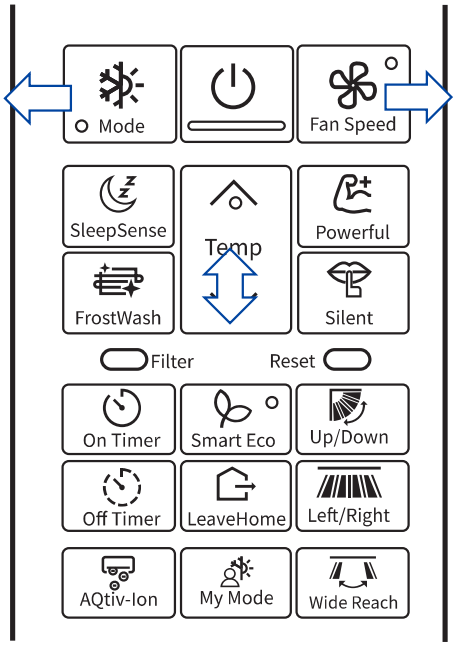
「On timer」 + 「Fan speed」 + 「Reset」

(Press three Key for 5 seconds to avoid access by User)

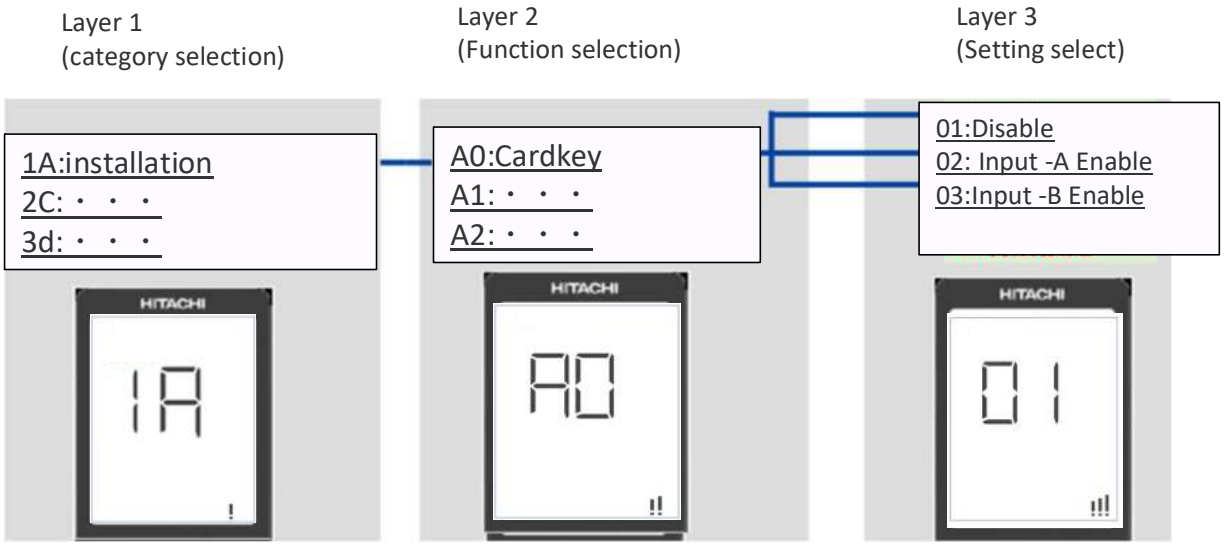


※ If you don't do anything for 30 seconds, you will be out of the service setting mode.

10.3. How to operate the HHRC method

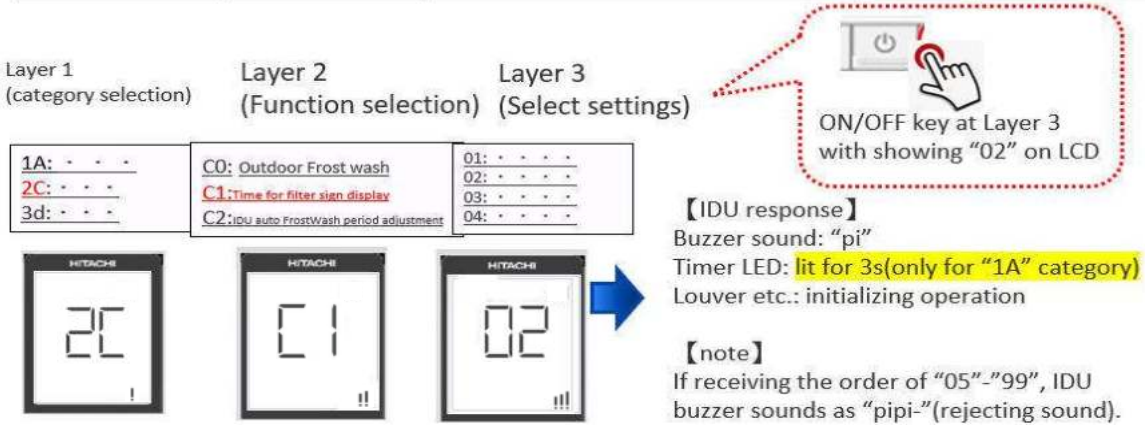


Temp△▽ : Selection (in the same layer)
Mode : move to previous layer
Fan Speed : Move to next layer
ON/OFF : Decision/Send (at layer 3)
: Current setting check(at layer 2)
Filter: category initialization(at layer 1)
Filter + ON/OFF: all category initialization(at layer 1)
※ To exit from this setting mode, you need to either not operate the HHRC panel for 30 seconds or press and hold the UP/Down key for 5 seconds.



The Adjust filter sign Time can be changed by the remote controller.
(This procedure shall be implemented strictly by service personnel only.)
It is possible to return it to the default setting.

Category	Function Name	Value	HHRC LCD display Layer1 Category	Layer2 Function	Layer3 Value
Clean	Time for filter sign display	filter lamp lighting time:Adjustment -1(100h)	2C	C1	01
		filter lamp lighting time:Adjustment ±0(200h)			02
		filter lamp lighting time:Adjustment ±1(300h)			03
		filter lamp lighting time:Adjustment ±2(400h)			04
		reserve			05-99



【IDU response】
Buzzer sound: "pi"
Timer LED: lit for 3s(only for "1A" category)
Louver etc.: initializing operation

【note】
If receiving the order of "05"-"99", IDU buzzer sounds as "pipi-"(rejecting sound).

10.4. Service setting item used for GRAC Standard（Wireless remote model：RC-AGS1EA0N）

Category	Function	Display on LCD Temperature 7 segment Layer Wise			
		1	2	3	Value setting meaning at Layer-3
Installation	Card Key	1A	A0	01	1 - Card Key Input - Disable
				02	2 – Contact A Enable
				03	3 – Contact B Enable
				04-99	4~99 : Reserved
	Heating/Cooling only mode select - (Operation Mode Lock)	1A	A1	01	1 - Normal Mode
				02	2 -Cooling Lock (Cool,Dry,A.circulator,Fan mode available)
				03	3 - Heating Lock (Heat and Fan mode available)
				04-99	4~99 : Reserved
	Auto restart switchover(Standard)	1A	A2	01	auto restart changeover disable
				02	auto restart by previous mode
				03-99	3~99 : Reserved
	Capacity limitation	1A	A6	01	Normal
				02	low capacity
				03-99	(reserve)
Cycle Operation	Defrost selection Function	3d	E0	01	01 - Standard Region
				02	02- Cold Region
				03-99	Reserved
	Set temperature shift adjustment (Cooling)	3d	E1	01	Setting Temperature Shift Adjustment (-5°C/-10°F
				02	Setting Temperature Shift Adjustment (-4°C/-8°F)
				03	Setting Temperature Shift Adjustment (-3°C/-6°F)
				04	Setting Temperature Shift Adjustment (-2°C/-4°F)
				05	Setting Temperature Shift Adjustment (-1°C/-2°F)
				06	Setting Temperature Shift Adjustment (±0°C/±0°F)
				07	Setting Temperature Shift Adjustment (+1°C/2°F)
				08	Setting Temperature Shift Adjustment (+2°C/4°F)
				09	Setting Temperature Shift Adjustment (+3°C/6°F)
				10	Setting Temperature Shift Adjustment (+4°C/8°F)
				11	Setting Temperature Shift Adjustment (+5°C/10°F)
				12-99	Reserved
	Set temperature shift adjustment (Heating)	3d	E2	01	Setting Temperature Shift Adjustment (-5°C/-10°F
				02	Setting Temperature Shift Adjustment (-4°C/-8°F)
				03	Setting Temperature Shift Adjustment (-3°C/-6°F)
				04	Setting Temperature Shift Adjustment (-2°C/-4°F)
				05	Setting Temperature Shift Adjustment (-1°C/-2°F)
				06	Setting Temperature Shift Adjustment (±0°C/±0°F)
				07	Setting Temperature Shift Adjustment (+1°C/2°F)
				08	Setting Temperature Shift Adjustment (+2°C/4°F)
				09	Setting Temperature Shift Adjustment (+3°C/6°F)
				10	Setting Temperature Shift Adjustment (+4°C/8°F)
				11	Setting Temperature Shift Adjustment (+5°C/10°F)
				12-99	Reserved
	Indoor fan air speed when cooling thermostat is off	3d	E3	01	01 : standard
				02	02 : Cold Region
				03-99	Reserved
	Selection of indoor fan control during heating thermo-off	3d	E4	01	01 : Fan Control at the Time of Heating Thermo- Off "Pattern 1"
				02	02 : Fan Control at the Time of Heating Thermo- Off "Pattern 2"
				03	03 : Fan Control at the Time of Heating Thermo- Off "Pattern 3"
				04-99	Reserved

HHRC	Temperature Resolution change - 0.5°C--> 1°C	6H	P0	01	1 -0.5 °C Resolution
					2-1 °C Resolution
	Fan Speed key sequence (Weaker to stronger ,	6H	P1	01	1 - Default (Auto-Silent-Low-Med-Hi-H2)
					2- Reverse (Hi2-Hi-Med-Lo-Silent-Auto)
	Operation Mode : Auto	6H	P2	2	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Operation Mode : Cool	6H	P3	02	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Operation Mode : Dry	6H	P4	02	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Operation Mode : Fan	6H	P5	02	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Operation Mode : Heat	6H	P6	02	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Auto Fan speed : Enable / Disable	6H	P8	02	1 -Disable Selection on HHRC by Fan key
					2 - Enable Selection on HHRC by Fan Key
	Fan Speed tapping control	6H	P9	01	1- Normal (Auto,Silent, Low,Med,Hi,H2) Selection on HHRC by Fan key
					2- (Auto,Silent,Lo,Med,Hi) Selection on HHRC by Fan key
	RTC and Timer setting Format change: 12 Hr Format / 24 HR Format (Only for RTC based models)	6H	PA	02	1 - 12 Hr Format with AM/PM for RTC and Timer ON, Timer OFF
					2 - 24 Hr Format for RTC and Timer ON , Timer OFF
	Cooling Lower limit setting	6H	PC	16	Lower set temp. start from 60˚F)
				17	Lower set temp. start from 63˚F)
				18	Lower set temp. start from 64˚F)
				19	Lower set temp. start from 66˚F)
				20	Lower set temp. start from 68˚F)
				21	Lower set temp. start from 70˚F)
				22	Lower set temp. start from 72˚F)
				23	Lower set temp. start from 73˚F)
				24	Lower set temp. start from 76˚F)
				25	Lower set temp. start from 77˚F)
				26	Lower set temp. start from 79˚F)
				27	Lower set temp. start from 80˚F)
				28	Lower set temp. start from 83 °F)
				29	Lower set temp. start from 84 °F)
				30	Lower set temp. start from 86 °F)
				31	Lower set temp. start from 88 °F)
				32	Lower set temp. start from 90 °F)
	Heating Upper limit setting	6H	Pd	32	Upper set temp. start from 90 °F)
				31	Upper set temp. start from 88 °F)
				30	Upper set temp. start from 86 °F)
				29	Upper set temp. start from 84 °F)
				28	Upper set temp. start from 83 °F)
				27	Upper set temp. start from 80 °F)
				26	Upper set temp. start from 79 °F)
				25	Upper set temp. start from 77 °F)
				24	Upper set temp. start from 76 °F)
				23	Upper set temp. start from 73 °F)
				22	Upper set temp. start from 72 °F)
				21	Upper set temp. start from 70 °F)
				20	Upper set temp. start from 68 °F)
				19	Upper set temp. start from 66 °F)
				18	Upper set temp. start from 64 °F)
				17	Upper set temp. start from 63 °F)
				16	Upper set temp. start from 60 °F)
Diagnosis	Failure Indication(latest to last 5 times)	7J	t0	01	1: Failure Display History 1 (Latest of last Five)
				02	2: Failure Display History 2
				03	3: Failure Display History 3
				04	4: Failure Display History 4
				05	5: Failure Display History 5 (5 th Error)
				06-99	Reserved
	Failure Diagnosis Start	7J	t1	01	1 : Failure Diagnosis Start
				02-99	Reserved
	Failure Memory Erase	7J	t2	01	1:Failure Memory Erase
				02-99	Reserved
	Humidity Sensor failure diagnosis	7J	t3	01	1:Humidity ensor failure diagnosis request
				02-99	Reserved
	Human Sensor failure diagnosis	7J	t4	01	1: failure diagnosis request
				02-99	Reserved

Clean	Time for filter sign display	2C	C1	01	filter lamp lighting time:Adjustment -1 (100hours)
				02	filter lamp lighting time:Adjustment ±0 (200hours)
				03	filter lamp lighting time:Adjustment +1 (300hours)
				04	filter lamp lighting time:Adjustment +2 (400hours)
				05-99	Reserved
	IDU auto FrostWash period adjustment	2C	C2	01	Cleaning time setting(normal case):Adjustment_NO 1 (2hours)
				02	Cleaning time setting(normal case):Adjustment_NO 2 (6hours)
				03	Cleaning time setting(normal case):Adjustment_NO 3 (10hours)
				04	Cleaning time setting(normal case):Adjustment_NO 4 (20hours)
				05	Cleaning time setting(normal case):Adjustment_NO 5 (42hours)
				06	Cleaning time setting(normal case):Adjustment_NO 6 (60hours)
				07	Cleaning time setting(normal case):Adjustment_NO 7 (84hours)
				08	Cleaning time setting(normal case):Adjustment_NO 8 (90hours)
				09	Cleaning time setting(normal case):Adjustment_NO 9 (100hours)
				10	Cleaning time setting(normal case):Adjustment_NO 10 (120hours)
				11	Cleaning time setting(normal case):Adjustment_NO 11 (140hours)
				12	Cleaning time setting(normal case):Adjustment_NO 12 (160hours)
				13	Cleaning time setting(normal case):Adjustment_NO 13 (180hours)
				14	Cleaning time setting(normal case):Adjustment_NO 14 (200hours)
				15	Cleaning time setting(normal case):Adjustment_NO 15 (250hours)
				16~19	(Reserve)
Supporting service category	Time for human sensor Auto off	5F	L3	01	Auto-off monitoring time: Adjustment- 3 (20min)
				02	Auto-off monitoring time: Adjustment- 2 (30min)
				03	Auto-off monitoring time: Adjustment- 1 (40min)
				04	Auto-off monitoring time: Adjustment± 0 (50min)
				05	Auto-off monitoring time: Adjustment+ 1 (60min)
				06	Auto-off monitoring time: Adjustment+ 2 (90min)
				07	Auto-off monitoring time: Adjustment+ 3 (120min)
				08~99	(Reserve)

10.5. Buzzer sounding for showing error contents

【Purpose】

Reduction of “mis-communication about error contents" at contacting the service call center.

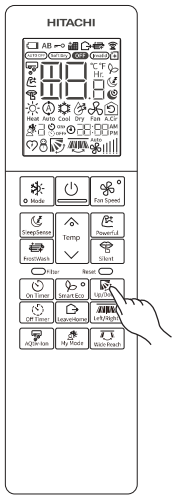
【Function】

Add buzzer sounding for showing error contents during error, in addition to IDU LED action .

【How to use】

When IDU or ODU has failed, and the Timer lamp is blinking. Service engineer can know error contents from the buzzer through phone.

「Up/Down」
(Press this Key for 5 seconds)



In case of IDU failure

LED action

Timer lamp is blinking

Buzzer action

In case of ODU failure

LED action

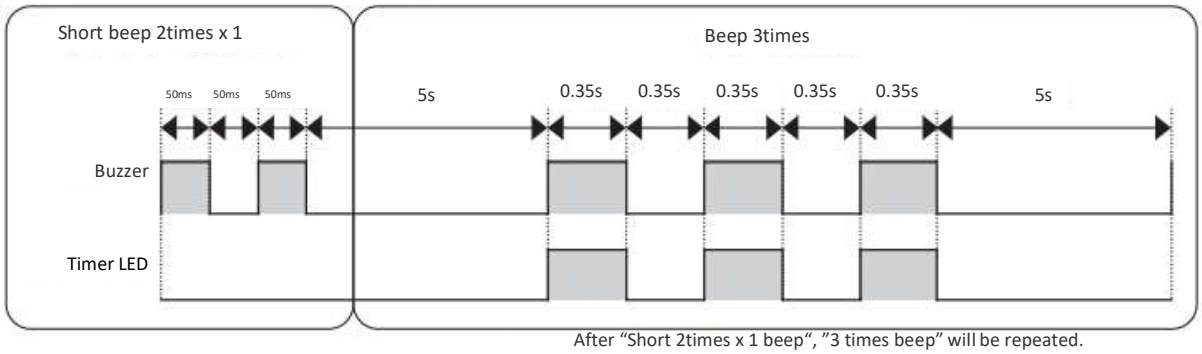
Operation lamp is blinking

Buzzer action

Sounding by same rhythm with LED

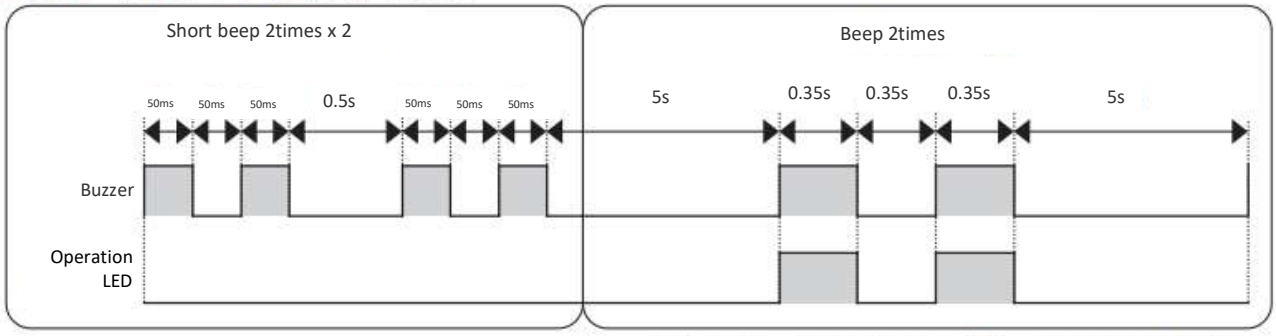
【note】
・for stopping buzzer, stop by On/Off button, or press Up/Down button for 5 seconds.

<IDU error example: timer LED will blink 3 times(interface defective(IDU) >



After “Short 2times x 1 beep“, ”3 times beep” will be repeated.

<ODU error example: operation LED will blink 2 times(peak current cut) >



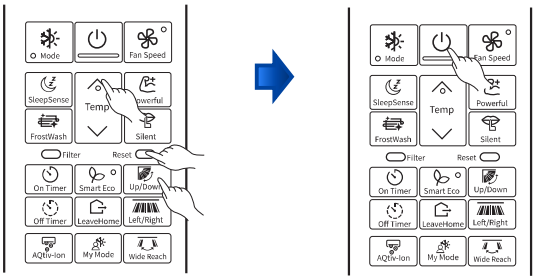
After “Short 2times x 2 beep“, ”2 times beep” will be repeated.

10.6. OTHER SETTING

- **ID SELECTION**

1. Press “Up/Down swing button” and “set. Temp. up button” and “reset button”, and release “reset button”.
2. Select from A or B by pressing “set.temp. button”.
3. Press “On/Off button” toward IDU.

(EEPROM in HHRC will keep the A or B information.)

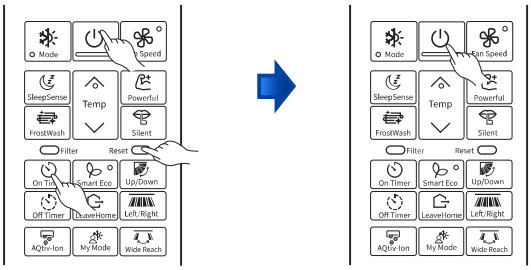


- **DISPLAY MODE**

For operating indoor unit independently (without outdoor unit connection), remote controller has to be set according to below procedures before send the signal to the indoor unit. New communication format between indoor and outdoor is required to communicate with outdoor unit.

1. Press and holding “On Times button” and “On/Off button”, press “reset button” on the same time.
2. Release “reset button” only and make sure thar the FAN speed icon on LCD display.
3. Press”On/Off button” toward IDU.

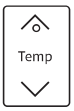
Then, the indoor unit will starts to operate independently according the selected operation mode.



10.7. ERROR CODE INFORMATION

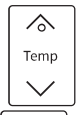
10.7.1. HOW TO DISPLAY ERROR CODE

1.Press three key ([On Timer] + [Fan Speed] + [Reset]) button on the remote control for 5 seconds to avoid access by User.

2. Press " 

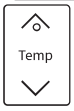
" (Temperature) button of the remote control and select the "7J" option.

3. Press " 

" (Fan Speed) button of the remote control, then Press " 

" (Temperature) button select the "t0" option.

4. Press " 

" (Fan Speed) button of the remote control, then Press " 

" (Temperature) button select the "01" option.

5. Press "  " (On/Off) button of the remote control, the fault information will be seen.

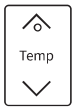
Function Name	Value	Layer1	Layer2	Layer3
		Category	Function	Value
Display self-diagnosis memory(※)	Display History 1 (Latest(newest) of last Five)	7J	t0	01
	Display History 2			02
	Display History 3			03
	Display History 4			04
	Display History 5			05

The specific information of error code is shown in the table below:

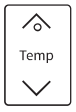
	TIMER LAMP BLINKING	LD301 BLINKING	CODE	MEANING
INDOOR	-	-	000 00	Normal
	1 time		001 00	Refrigerant cycle fault
	2 times	-	-	Outdoor unit is under forced operation
	3 times	9 times	003 00	Communication error (indoor)
	9 times	-	009 00	Indoor thermistor defective
	10 times	-	010 00	Abnormal rotating numbers of DC fan motor
	12 times	9 times	012 00	Communication error (outdoor)
	13 times	-	013 00	EEPROM data reading error
	20 times	-	020 00	Human sensor defective
	21 times	-	021 00	Interface defective (other machine cause)
	25 times	-	025 00	CN7A/B connection defective

	OPERATION LAMP BLINKING	CODE	MEANING (THE FOLLOW DEFECTIVES IN OUTDOOR UNIT)
INDOOR	2 times	002 01	Peak current cut
	3 times	003 01	Compressor abnormal low speed rotation
	4 times	004 01	Compressor switching failure
	5 times	005 01	Overload lower limit cut
	6 times	006 01	OH thermistor temperature rise
	7 times	007 01	Abnormal outdoor thermistor
	9 times	009 01	Communication error
	10 times	010 01	Abnormal power source
	11 times	011 01	Fan stop for strong wind
	12 times	012 01	Fan motor fault
	13 times	013 01	EEPROM reading error
	14 times	014 01	DC Voltage abnormal
	15 times	015 01	Abnormal PWB circuit
	16 times	016 01	High load stop

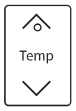
9.7.2. HOW TO REMOVE ERROR CODE

1. Press three key ([On Timer] + [Fan Speed] + [Reset]) button on the remote control for 5 seconds to avoid access by User.
2. Press “ 

” (Temperature) button of the remote control and select the “7J” option.
3. Press “ 

” (Fan Speed) button of the remote control, then Press “ 

” (Temperature) button select the “t2” option.
4. Press “ 

” (Fan Speed) button of the remote control, then Press “ 

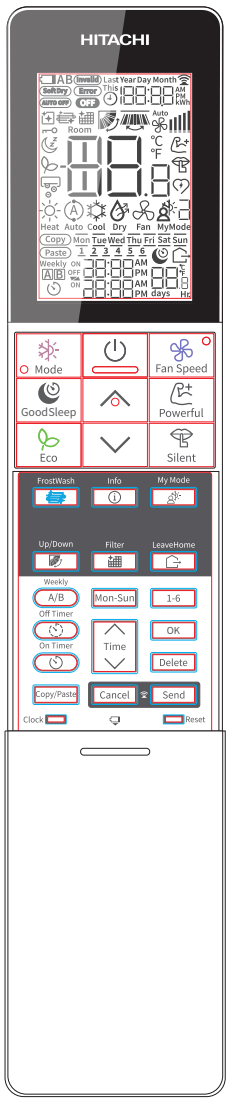
” (Temperature) button select the “01” option.
5. Press “ 
” (On/Off) button of the remote control, and the error code will be removed.

11 CONTROL AND FUNCTION

CONTENTS

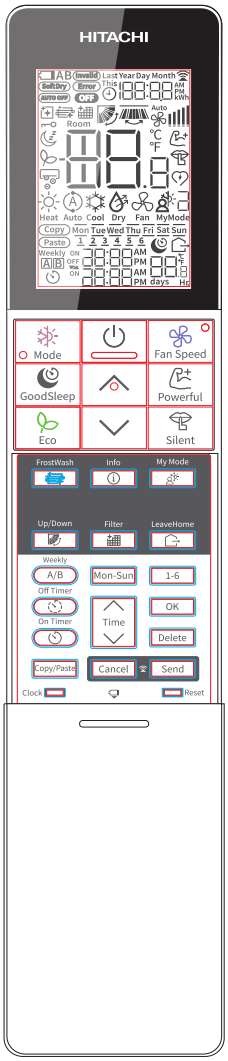
11 CONTROL AND FUNCTION

11.1. WIRELESS REMOTE CONTROL FUNCTION



RC-BGH1FB0N

BUTTONS	FUNCTION
Mode	**Mode Selector Button** Use this button to select the operation mode. Every time you press this button the mode will change from Heat (Heat) → Auto (Auto) → Cool (Cool) → Dry (Dry) → Fan (Fan) cyclically.
GoodSleep	**GoodSleep Button** the unit shifts the room temperature and reduces the fan speed.
Eco	**Eco Button** Use this button to set the Eco mode.
	On/Off Button Press this button to start operation. Press it again to stop operation.
	Temperature Button Room temperature setting.Valuewillchangequickerwhen keep pressing.
Fan Speed	**Fan Speed Button** Select the fan speed.
Powerful	**Powerful Button** The air conditioner performs at maximum power.
Silent	**Silent Button** The fan speed changes to the silent fan speed
FrostWash	**FrostWash Button (Not Applicable)** The dust and dirt adhering to indoor heat exchanger which is the cause of the smell.
Up/Down	**Up/Down Button** Control the angle of the horizontalair deflector.
AQtiv-Ion	**AQtiv-Ion Button (Not Applicable)**
Info	**Info Button**
Filter	**Filter Sign Reset Button (Not Applicable)**
My Mode	**My Mode Button** Use this mode for personalized comfor table settings. The My Mode can be set by using the remote controller. Up to 3 programs can be set.
LeaveHome	**LeaveHome Button** Prevent the room temperature from falling too much by setting temperature 50°F~60°F when no one is at home.



RC-BGH1FB0N

WEEKLY TIMER Buttons	FUNCTION
On Timer	**On Timer Button** Select the turn ON time.
Off Timer	**Off Timer Button** Select the turn OFF time.
Time	**Time Button** Press the button to set starting time of the program.
OK	**OK Button** Press the button to save the program. The button shall be pressed everytime after finishing a program setting.
Delete	**DELETE Button** 1) Press the button to delete the selected program. 2) Press the button for about 10 seconds by directing the remote controller towards the indoor unit while Mode A or B display blinks, programs for Mode A or B will be deleted both from the indoor unit and the remote controllerafter the beep sound from the indoor unit.The program setting remains in the remote controller.
Mon-Sun	**DAY Button** Select the desired day of the week.
1-6	**PROGRAM NO. Button** Press this button to select a program number.
Cancel	**CANCEL Button** 1) Press the button to cancel the current setting process on the screen. 2) Press the button by directing the remote controller towards the indoor unit, then weekly timer setting will be canceled from indoor unit after the beep sound from the indoor unit. The program setting remains in the remote controller.
Send	**SEND Button** Press the button for about 3 seconds by directing the remote controller towards the indoor unit after finishing the program setting. Timer lamp on the indoor unit will blink rapidly and after the beep sound from indoor unit, TIMER lamp will light up.
Clock	**CLOCK Button** Press the button to set calendar and clock.
A/B	**WEEKLY TIMER MODE Button** 1) Select Mode A or Mode B. 2 modes can be set and stored as a weekly timer. 2) By pressing thebutton longer than 3 seconds, program setting screen will appear.

For more information, please refer to the operation manual.

11.2. SELF-DIAGNOSIS MEMORY FUNCTION

SELF-DIAGNOSIS MEMORY FUNCTION

Failure modes are stored in the nonvolatile memory of indoor unit and shall be redisplayed by remote controller.
This function is useful in checking the failure modes either during switching OFF the power or restarting the device with checking the number of indication lamp blinking. Remote controller can redisplay up to last 5 failure modes from the memory. However, failure modes which are rarely to occur are also stored in the memory which caused the numbers of failure more than 5. Thus, for some failure modes which are unable to retrive because of remote controller limit to redisplay only 5 failure modes, it can be found by clearing up the memory first then recheck the memory content again during the visit at the customer place.

ERROR CODE INFORMATION

<HOW TO DISPLAY ERROR CODE>

1.Press three key ([On Timer] + [Fan Speed] + [Reset]) button on the remote control for 5 seconds to avoid access by User.

2. Press "  " (Temperature) button of the remote control and select the "7J" option.

3. Press "  " (Fan Speed) button of the remote control, then Press "  " (Temperature) button select the "t0" option.

4. Press "  " (Fan Speed) button of the remote control, then Press "  " (Temperature) button select the "01" option.

5. Press "  " (On/Off) button of the remote control, the fault information will be seen.

Function Name	Value	Layer1	Layer2	Layer3
		Category	Function	Value
Display self-diagnosis memory(※)	Display History 1 (Latest(newest) of last Five)	7J	t0	01
	Display History 2			02
	Display History 3			03
	Display History 4			04
	Display History 5			05

There is no special symbol on HHRC LCD screen.

<HOW TO REMOVE ERROR CODE>

1. Press three key ([On Timer] + [Fan Speed] + [Reset]) button on the remote control for 5 seconds to avoid access by User.

2. Press "  " (Temperature) button of the remote control and select the "7J" option.

3. Press "  " (Fan Speed) button of the remote control, then Press "  " (Temperature) button select the "t2" option.

4. Press "  " (Fan Speed) button of the remote control, then Press "  " (Temperature) button select the "01" option.

5. Press "  " (On/Off) button of the remote control, and the error code will be removed.

	TIMER LAMP BLINKING	LD301 BLINKING	CODE	MEANING
INDOOR	-	-	000 00	Normal
	1 time		001 00	Refrigerant cycle fault
	2 times	-	-	Outdoor unit is under forced operation
	3 times	9 times	003 00	Communication error (indoor)
	4 times	-	004 00	Outdoor unit defective
	8 times	-	008 00	Gas sensor interface defective
	9 times	-	009 00	Indoor thermistor defective
	10 times	-	010 00	Abnormal rotating numbers of DC fan motor
	12 times	9 times	012 00	Communication error (outdoor)
	13 times	-	013 00	EEPROM data reading error
	21 times	-	021 00	Interface defective (other machine cause)
	25 times	-	025 00	CN7A/B connection defective

< Cautions >

This function is effective only once immediately after the power is turned on. It will not work if you have performed another remote control operation beforehand. Note also that it may not function in response to a procedure other than the above. (If it does not work, turn off the power, turn it back on and repeat the procedure.)

If the memory stores nothing, performing a redisplay operation will not blink the lamp.

For a normal operation, turn off the power and turn it back on. After the above operation, the product will not receive a remote control signal normally.

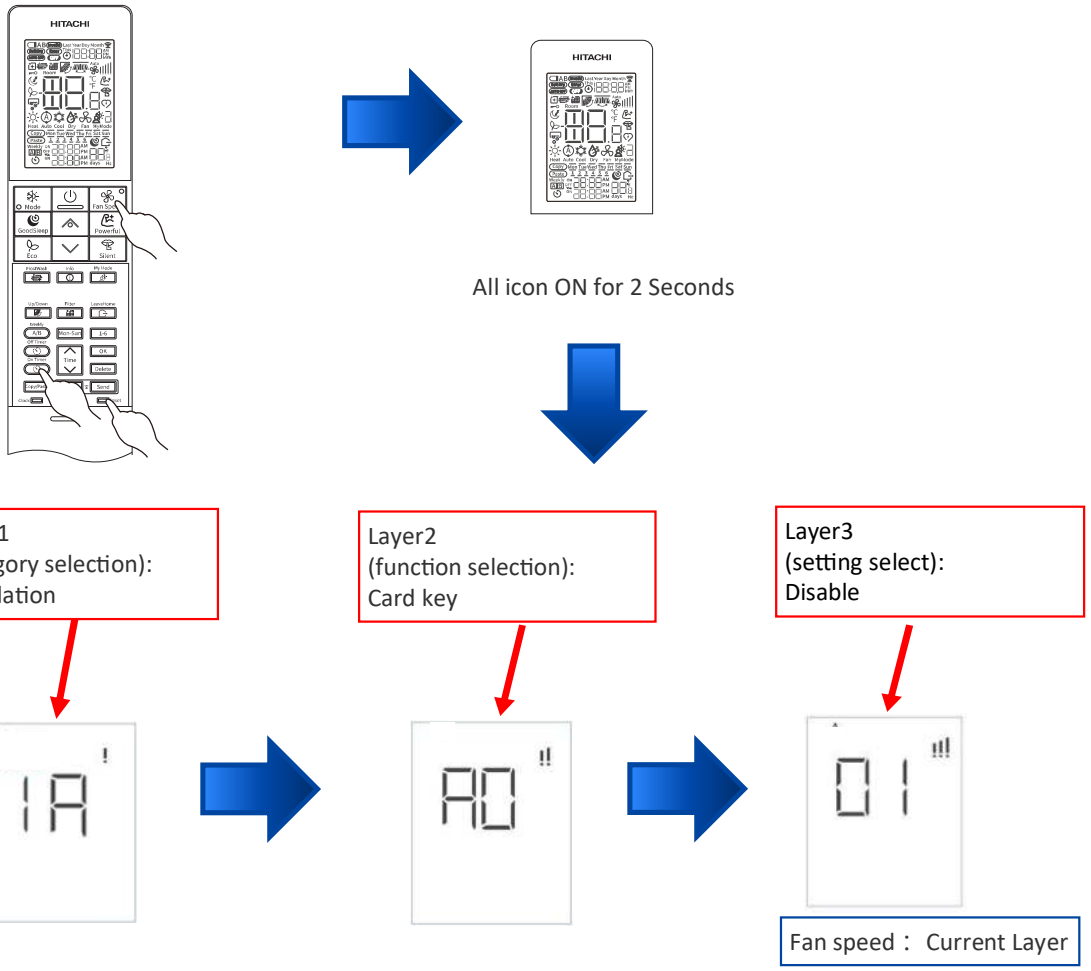
After clearing the troubleshooting data, turn off the power. (If you do not turn off the power, the product will become unresponsive to remote control signals.)

11.3 How to set up from Service setting mode

The Service function, which was set by DIP-SW setting or double pressing of the HHRC in the current model. it will be done by HHRC in GRAC as shown as below.

「On timer」 + 「Fan speed」 + 「Reset」

(Press three Key for 5 seconds to avoid access by User)

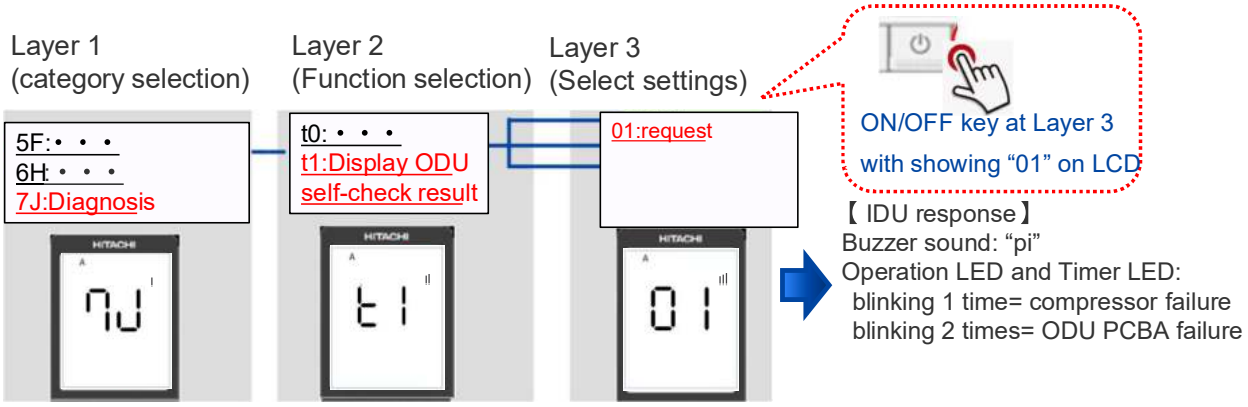


※ If you don't do anything for 30 seconds, you will be out of the service setting mode.

11.4. How to operate the HHRC method

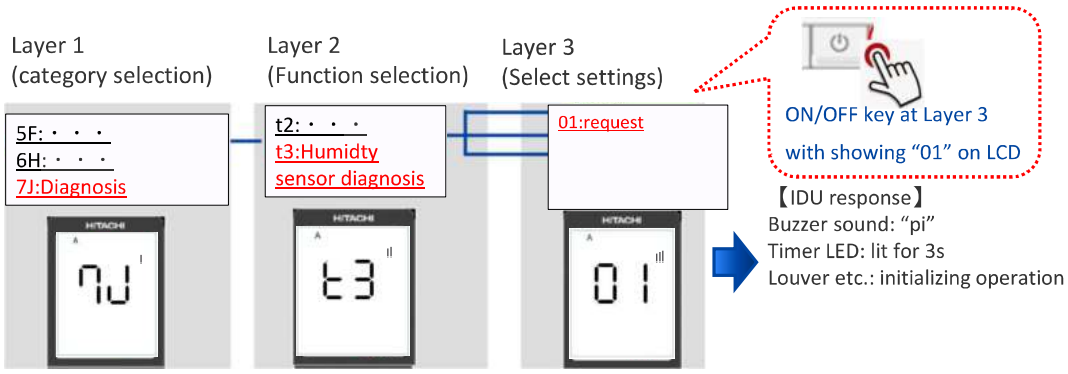
At ODU PCBA error or compressor error.
This function can be done after power supply off, and on.

Category	Function Name	Value	HHRC LCD display Layer1 Category	Layer2 Function	Layer3 Value
Diagnosis	Display ODU Self-check resulrt	request	7J	t1	01
		eserve			02-99

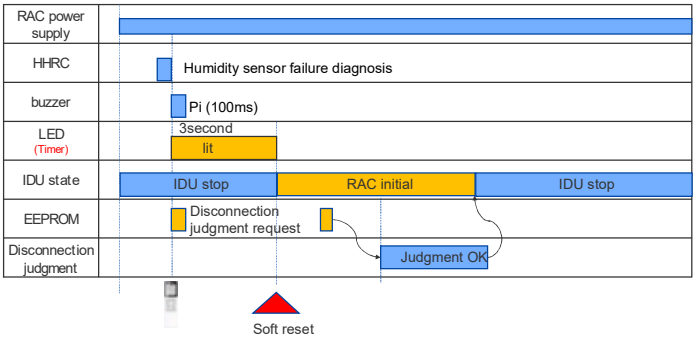


detailed diagnosis(humidity sensor diagnosis)

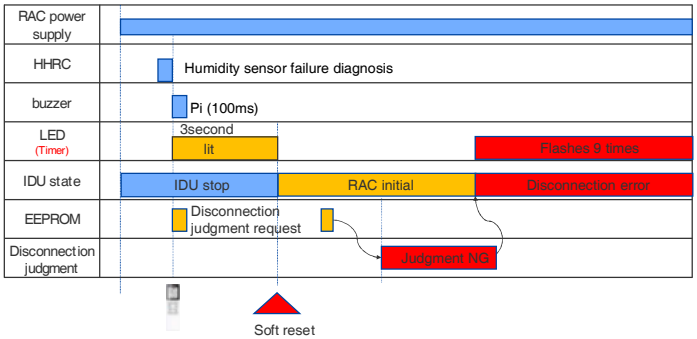
Category	Function Name	Value	HHRC LCD display Layer1 Category	Layer2 Function	Layer3 Value
Diagnosis	Humidity sensor diagnosis	request	7J	t3	01
		reserve			02-99



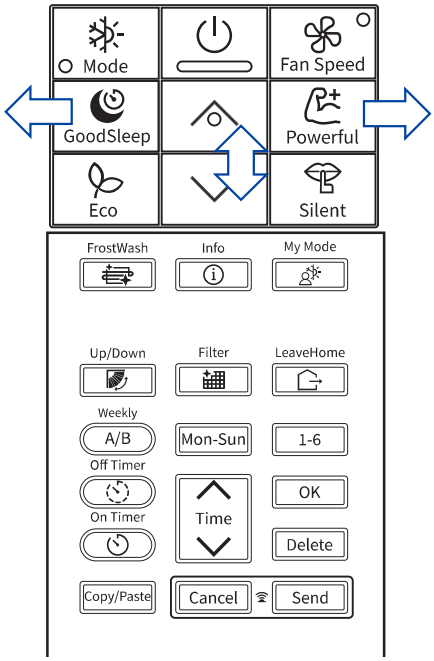
Humidity sensor: no defect case



Humidity sensor: defect case



How to operate the HHRC method

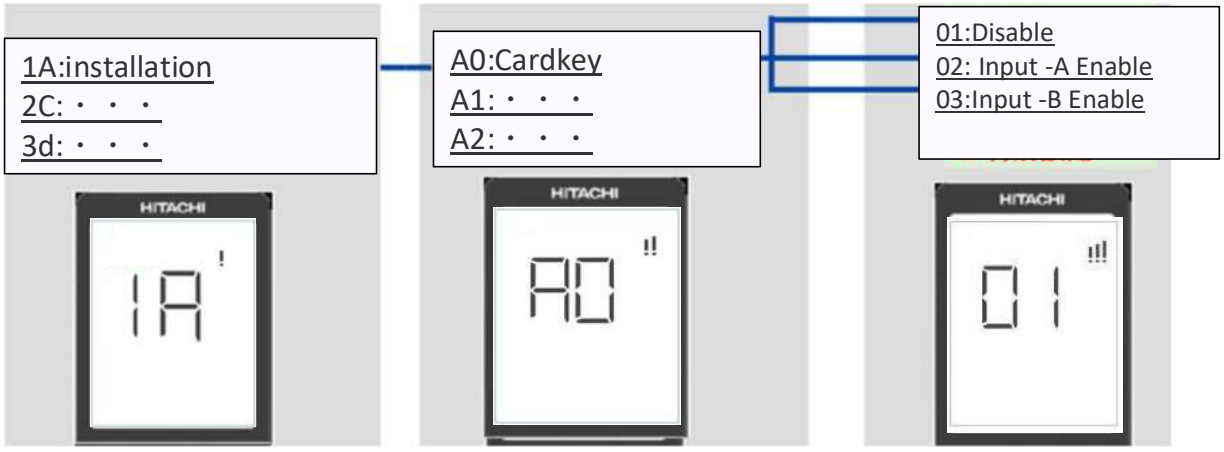


Temp△▽ : Selection (in the same layer)
Mode : move to previous layer
Fan Speed : Move to next layer
ON/OFF : Decision/Send (at layer 3)
: Current setting check(at layer 2)
Filter: category initialization(at layer 1)
Filter + ON/OFF: all category initialization(at layer 1)
※ To exit from this setting mode, you need to either not operate the HHRC panel for 30 seconds or press and hold the UP/Down key for 5 seconds.

Layer 1
(category selection)

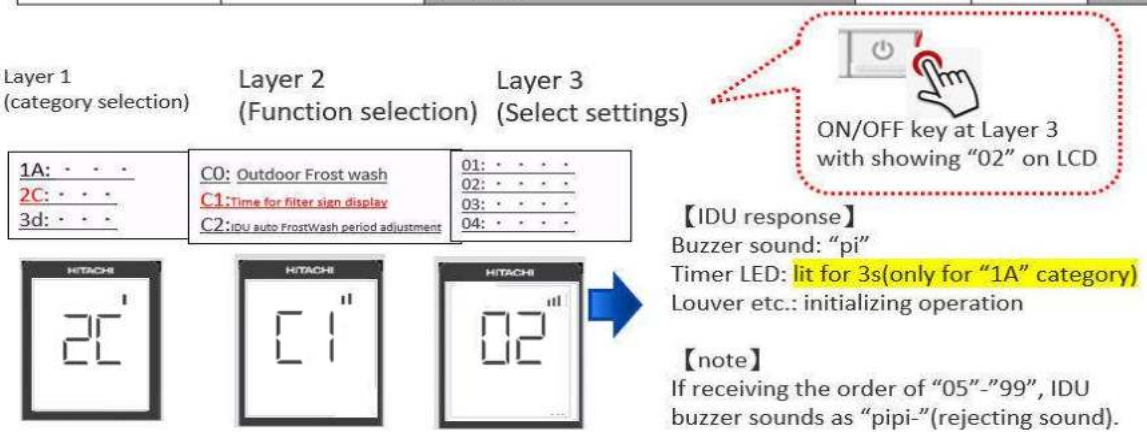
Layer 2
(Function selection)

Layer 3
(Setting select)



The Adjust filter sign Time can be changed by the remote controller.
(This procedure shall be implemented strictly by service personnel only.)
It is possible to return it to the default setting.

Category	Function Name	Value	HHRC LCD display Layer1 Category	Layer2 Function	Layer3 Value
Clean	Time for filter sign display	filter lamp lighting time:Adjustment -1(100h)	2C	C1	01
		filter lamp lighting time:Adjustment ±0(200h)			02
		filter lamp lighting time:Adjustment ±1(300h)			03
		filter lamp lighting time:Adjustment ±2(400h)			04
		reserve			05-99



【IDU response】
Buzzer sound: "pi"
Timer LED: lit for 3s(only for "1A" category)
Louver etc.: initializing operation

【note】
If receiving the order of "05"-"99", IDU buzzer sounds as "pipi-"(rejecting sound).

11.5. Service setting item used for HHRC (Wireless remote model : RC-BGH1FB0N)

Category	Function	Display on LCD Temperature 7 segment Layer Wise			
		1	2	3	Value setting meaning at Layer-3
Installation	Card Key	1A	A0	01	1 - Card Key Input - Disable
				02	2 – Contact A Enable
				03	3 – Contact B Enable
				04-99	4~99 : Reserved
	Heating/Cooling only mode select - (Operation Mode Lock)	1A	A1	01	1 - Normal Mode
				02	2 -Cooling Lock (Cool,Dry,A.circulator,Fan mode available)
				03	3 - Heating Lock (Heat and Fan mode available)
				04-99	4~99 : Reserved
	Auto restart switchover(Standard)	1A	A2	01	auto restart changeover disable
				02	auto restart by previous mode
				03-99	3~99 : Reserved
	Connecting of gas sensor	1A	A8	01	Normal
				02	Test
				03-99	Reserved
	Gas leak determination time	1A	A9	01	20Sec(initial value)
				02	40Sec
				03-99	Reserved
	Gas leak detection reset	1A	AA	01	Gas leak detection reset
				02-99	Reserved
Cycle Operation	Defrost selection Function	3d	E0	01	01 - Standard Region
				02	02- Cold Region
				03-99	Reserved
	Set temperature shift adjustment (Cooling)	3d	E1	01	Setting Temperature Shift Adjustment (-5°C/-10°F)
				02	Setting Temperature Shift Adjustment (-4°C/-8°F)
				03	Setting Temperature Shift Adjustment (-3°C/-6°F)
				04	Setting Temperature Shift Adjustment (-2°C/-4°F)
				05	Setting Temperature Shift Adjustment (-1°C/-2°F)
				06	Setting Temperature Shift Adjustment (±0°C/±0°F)
				07	Setting Temperature Shift Adjustment (+1°C/2°F)
				08	Setting Temperature Shift Adjustment (+2°C/4°F)
				09	Setting Temperature Shift Adjustment (+3°C/6°F)
				10	Setting Temperature Shift Adjustment (+4°C/8°F)
				11	Setting Temperature Shift Adjustment (+5°C/10°F)
				12-99	Reserved
	Set temperature shift adjustment (Heating)	3d	E2	01	Setting Temperature Shift Adjustment (-5°C/-10°F
				02	Setting Temperature Shift Adjustment (-4°C/-8°F)
				03	Setting Temperature Shift Adjustment (-3°C/-6°F)
				04	Setting Temperature Shift Adjustment (-2°C/-4°F)
				05	Setting Temperature Shift Adjustment (-1°C/-2°F)
				06	Setting Temperature Shift Adjustment (±0°C/±0°F)
				07	Setting Temperature Shift Adjustment (+1°C/2°F)
				08	Setting Temperature Shift Adjustment (+2°C/4°F)
				09	Setting Temperature Shift Adjustment (+3°C/6°F)
				10	Setting Temperature Shift Adjustment (+4°C/8°F)
				11	Setting Temperature Shift Adjustment (+5°C/10°F)
				12-99	Reserved
	Indoor fan air speed when cooling thermostat is off	3d	E3	01	01 : standard
				02	02 : Cold Region
				03-99	Reserved
	Selection of indoor fan control during heating thermo-off	3d	E4	01	01 : Fan Control at the Time of Heating Thermo- Off "Pattern 1"
				02	02 : Fan Control at the Time of Heating Thermo- Off "Pattern 2"
				03	03 : Fan Control at the Time of Heating Thermo- Off "Pattern 3"
				04-99	Reserved

Service setting item used for HHRC（Wireless remote model：RC-BGH1FB0N）

HHRC	Temperature Resolution change - 0.5°C–> 1°C	6H	P0	01	1 -0.5 °C Resolution
					2-1 °C Resolution
	Fan Speed key sequence (Weaker to stronger , stronger to Weaker)	6H	P1	01	1 - Default (Auto-Silent-Low-Med-Hi-H2)
					2- Reverse (Hi2-Hi-Med-Lo-Silent-Auto)
	Operation Mode : Auto	6H	P2	2	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Operation Mode : Cool	6H	P3	02	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Operation Mode : Dry	6H	P4	02	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Operation Mode : Fan	6H	P5	02	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Operation Mode : Heat	6H	P6	02	1-Disable Selection on HHRC by Mode key
					2 - Enable Selection on HHRC by Mode Key
	Auto Fan speed : Enable / Disable	6H	P8	02	1 -Disable Selection on HHRC by Fan key
					2 - Enable Selection on HHRC by Fan Key
	Fan Speed tapping control	6H	P9	01	1- Normal (Auto,Silent, Low,Med,Hi,H2) Selection on HHRC by Fan key
					2- (Auto,Silent,Lo,Med,Hi) Selection on HHRC by Fan key
	RTC and Timer setting Format change: 12 Hr Format / 24 HR Format (Only for RTC based models)	6H	PA	02	1 - 12 Hr Format with AM/PM for RTC and Timer ON, Timer OFF
					2 - 24 Hr Format for RTC and Timer ON , Timer OFF
	Cooling Lower limit setting	6H	PC	16	(Lower set temp. start from 60 °F)
				17	(Lower set temp. start from 63°F)
				18	(Lower set temp. start from 64°F)
				19	(Lower set temp. start from 66°F)
				20	(Lower set temp. start from 68°F)
				21	(Lower set temp. start from 70°F)
				22	(Lower set temp. start from 72°F)
				23	(Lower set temp. start from 73°F)
				24	(Lower set temp. start from 76°F)
				25	(Lower set temp. start from 77°F)
				26	(Lower set temp. start from 79°F)
				27	(Lower set temp. start from 80°F)
				28	(Lower set temp. start from 83 °F)
				29	(Lower set temp. start from 84 °F)
				30	(Lower set temp. start from 86 °F)
				31	(Lower set temp. start from 88 °F)
				32	(Lower set temp. start from 90 °F)
	Heating Upper limit setting	6H	Pd	32	(Upper set temp. start from 90 °F)
				31	(Upper set temp. start from 88 °F)
				30	(Upper set temp. start from 86 °F)
				29	(Upper set temp. start from 84 °F)
				28	(Upper set temp. start from 83 °F)
				27	(Upper set temp. start from 80 °F)
				26	(Upper set temp. start from 79 °F)
				25	(Upper set temp. start from 77 °F)
				24	(Upper set temp. start from 76 °F)
				23	(Upper set temp. start from 73 °F)
				22	(Upper set temp. start from 72 °F)
				21	(Upper set temp. start from 70 °F)
				20	(Upper set temp. start from 68 °F)
				19	(Upper set temp. start from 66 °F)
				18	(Upper set temp. start from 64 °F)
				17	(Upper set temp. start from 63 °F)
				16	(Upper set temp. start from 60 °F)
Diagnosis	Failure Indication(latest to last 5 times)	7J	t0	01	1: Failure Display History 1 (Latest of last Five)
				02	2: Failure Display History 2
				03	3: Failure Display History 3
				04	4: Failure Display History 4
				05	5: Failure Display History 5 (5 th Error)
				06-99	Reserved
	Display ODU self cheak (failure diagnosis start)	7J	t1	01	1 : Failure Diagnosis Start
				02-99	Reserved
	Failure Memory Erase	7J	t2	01	1:Failure Memory Erase
				02-99	Reserved
	Humidity Sensor failure diagnosis	7J	t3	01	1:Humidity ensor failure diagnosis request
				02-99	Reserved

Check of current service setting
(shift value adjustment of setting temperature(Cool Mode)example)

press on/off button toward IDU,
with showing “E1” at Layer 2
(IDU buzzer: “Pi”)

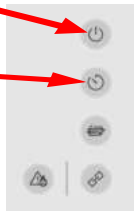
Layer 2
(Function selection)

E0:・・・
E1:shift value adjustment of set temp. (Cool)
E2:・・・

ON/OFF key at Layer 2
with showing “E1” on LCD

IDU LED will show current setting by blinking.
(to show Layer 3 setting contents by blinking times)

1’s digit
10’s digit



<note>
- to show by 2digits with operation LED and timer LED
  operation LED(10’s digit), timer LED(1’s digit)
- to be repeated 3 times
- during checking, this control has higher priority
  than the operation from other devices.
- On airCloud Home application,
  “during maintenance” is shown.

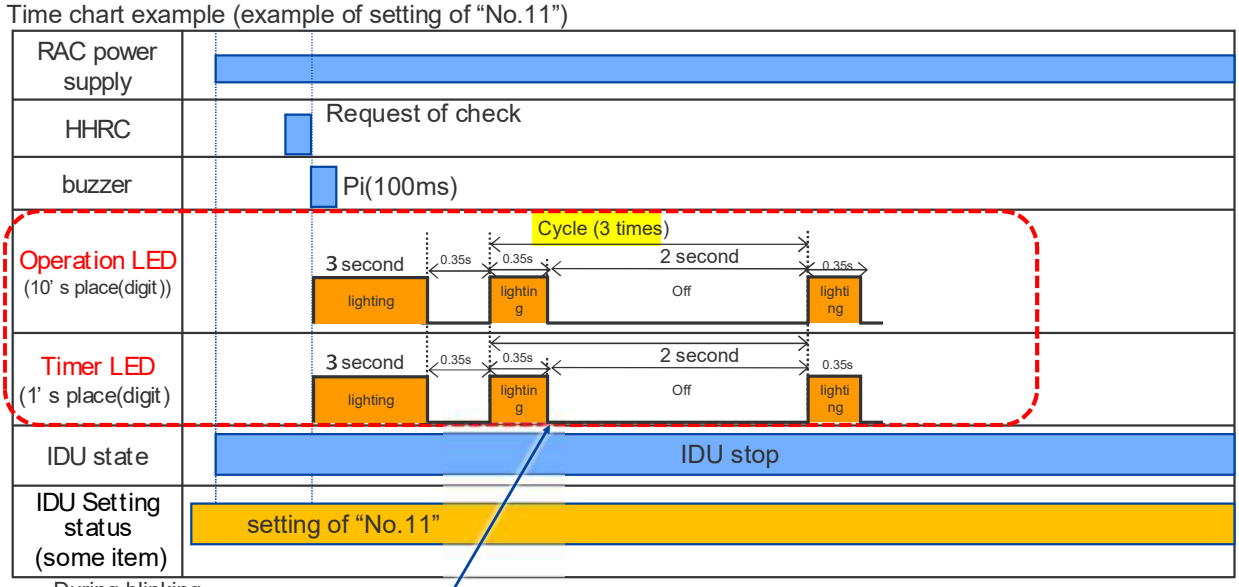
【Caution】
- At defect of IDU main or display PCBA, this function is not available. it is necessary to record the setting history on service record card. it will be packed with manuals.

SERVICE RECORD

Date	Setting Contents Layer 1	Layer 2	Layer 3	Serviced By	Note

To service engineers:
Explain the service contents, and write down it if necessary.
Ask a customer to keep this paper together with the instruction manual.

Time chart example (example of setting of “No.11”)



During blinking,
· check command of same service function -> stop the blinking
· check command of new service function -> blinking for showing the current setting for function

11.6 Buzzer sounding for showing error contents

【Purpose】

Reduction of “mis-communication about error contents" at contacting the service call center.

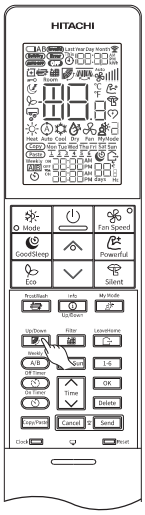
【Function】

Add buzzer sounding for showing error contents during error, in addition to IDU LED action .

【How to use】

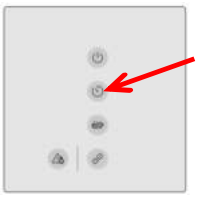
When IDU or ODU has failed, and the Timer lamp is blinking. Service engineer can know error contents from the buzzer through phone.

「Up/Down」
(Press this Key for 5 seconds)



In case of IDU failure

LED action



Buzzer action

【note】
・for stopping buzzer, stop by On/Off button.

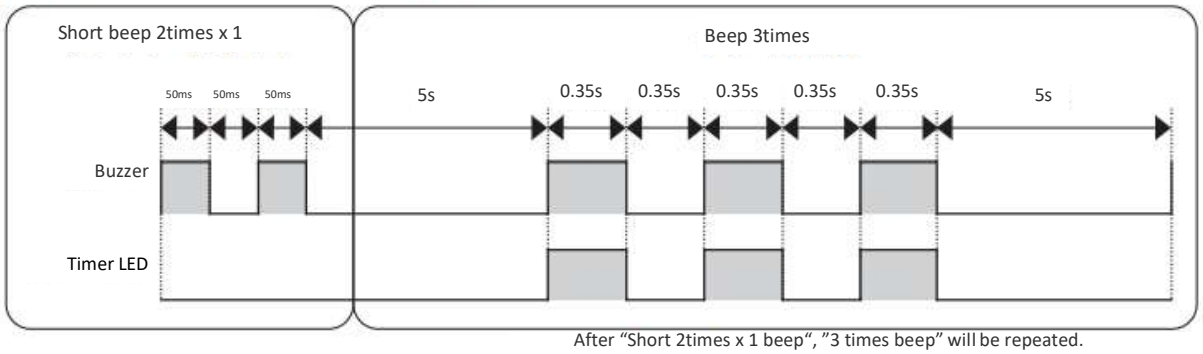
In case of ODU failure

LED action

Buzzer action

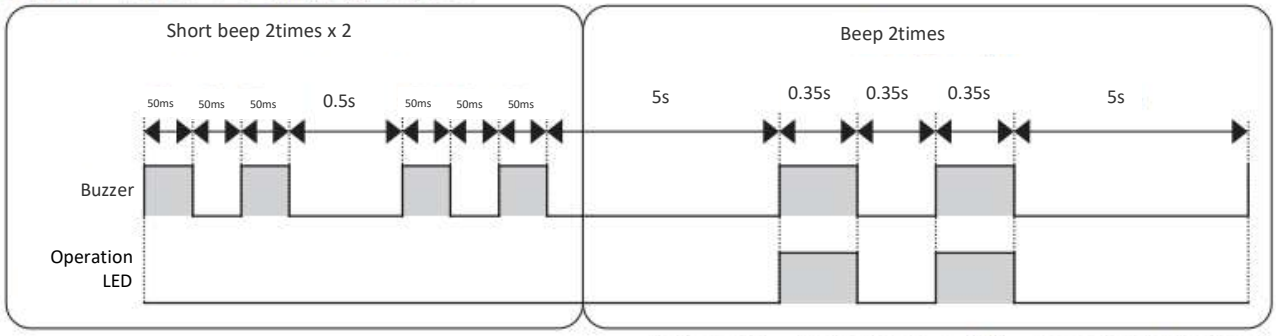
Sounding by same rhythm with LED

<IDU error example: timer LED will blink 3 times(interface defective(IDU) >



After “Short 2times x 1 beep“, ”3 times beep” will be repeated.

<ODU error example: operation LED will blink 2 times(peak current cut) >



After “Short 2times x 2 beep“, ”2 times beep” will be repeated.

11.7 OTHER SETTING

- **SETTING THE PREVENTION OF MUTUAL INTERFERENCE FOR REMOTE CONTROLLER**

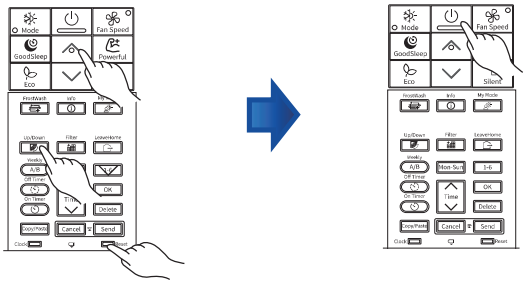
Case: 2 set of indoor units installed near to each other. If both indoor units can receive the remote controller signal, please set the remote controller as below. (This setting will change the signal address of each remote controller.)

1.The circuit breaker for the unit shall be OFF.

2.Press and holding “UP/Down swing button” and “set. Temp. up button” and “reset button”. Release “reset button” only and when the LCD display “A”.

3.Select from A or B by pressing “set. Temp. button”.

4.Press “On/Off button” toward IDU. (EEPROM in HHRC will keep the A or B information.)



- **DISPLAY OPERATION MODE SETTING**

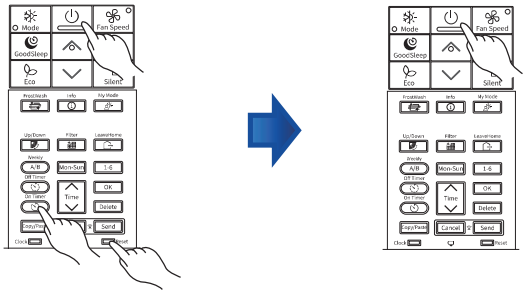
For operating indoor unit independently (without outdoor unit connection), remote controller has to be set according to below procedures before send the signal to the indoor unit. New communication format between indoor and outdoor is required to communicate with outdoor unit.

1.Press and holding “On Times button” and “On/Off button”, press “reset button” on the same time.

2.Release “reset button” only and make sure thar the FAN speed icon  on LCD display.

3.Press”On/Off button” toward IDU.

Then, the indoor unit will starts to operate independently according the selected operation mode.



【Purpose】

To help the installers(service engineer) to notice the abnormality at installation, we add the new control.

【new operation test mode】

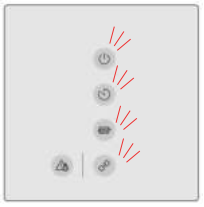
1. Operate with Cool Mode(in summer) or Heat Mode(in winter).
2. Set setting temperature to 16.0℃ for Cool Mode or 32.0℃ for Heat Mode.
   And set the desired fan speed to " " (High).
3. Operate RAC for 20 minutes at least, and make sure that the outlet air is cool or warm.
4. Press On/Off Button on HHRC and make sure that RAC stops the operation.

Buzzer will sound 3 times

・If the IDU LED would blink with sounding the buzzer during the operation test, perform a check. Before the check and the reoperation, reset the power supply.

・For connections multi，testing indoor unit will buzzer，other indoor unit will not buzzer.

IDU LED blinking mode	What to check
All IDU LED blinks 3 times repeatedly. （Only Operation/Timer LED blinks for Floor model）	Make sure that the spindles of both service valves are open



Operation/Timer/FrostWash /Wifi LED blinks 3 times

【caution】

・Don't operate for over 5 minutes with the situation that the spindle of the service valve is closed.

・Don't operate by Cool Mode with the door and windows opened for a long period.

・During test operation for connections multi, each unit must be operated separately and ensure normal operation.

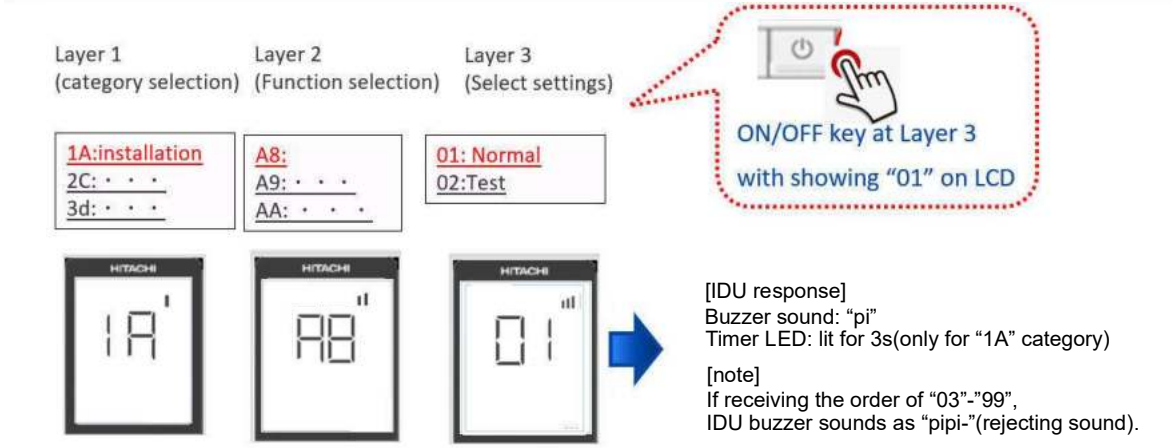
・For connections multi, If the indoor unit does not operate , check to see that the connections are correct.

⚠	Please confirm fixing sheet which don't put it into drain pan to avoid to drain water fall down.

4.Service setting for gas sensor(Turn on the circuit breaker first)

Enter service setting mode then follow the table path to complete the sensor connection.

Category	Function Name	Value	HHRC LCD display Layer1 Category	Layer2 Function	Layer3 Value
Installation	Connecting of gas sensor(floor)	Normal	1A	A8	01
		Test			02
		reserve			03-99



[IDU response]
Buzzer sound: "pi"
Timer LED: lit for 3s(only for "1A" category)

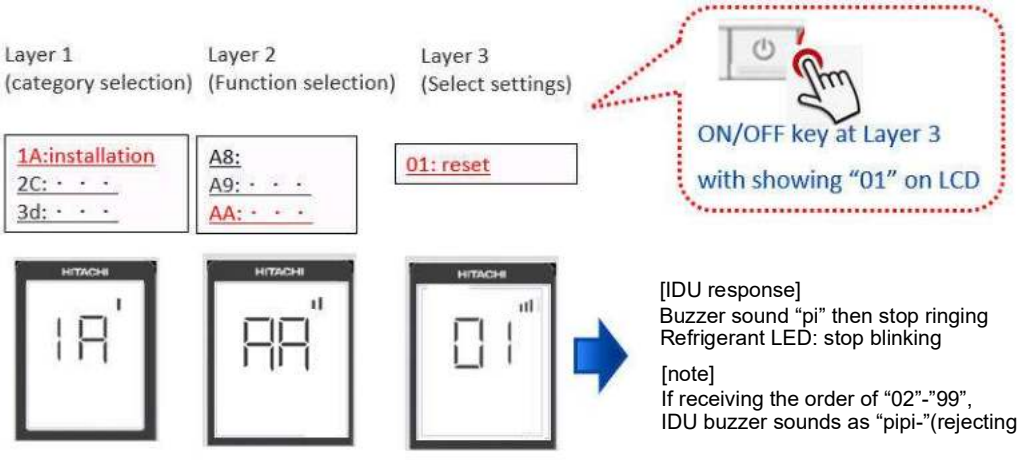
[note]
If receiving the order of "03"-"99",
IDU buzzer sounds as "pipi-"(rejecting sound).

5.Installation confirmation

The green led lights during connection was normal, If there are abnormal indications,
Please refer as follows.

6. If the refrigerant leaks, the refrigerant lamp blinks and the buzzer rings,use the HHRC to reset.

Category	Function Name	Value	HHRC LCD display Layer1 Category	Layer2 Function	Layer3 Value
Installation	Gas leak determination reset	reset	1A	AA	01
		reserve			02-99



[IDU response]
Buzzer sound "pi" then stop ringing
Refrigerant LED: stop blinking

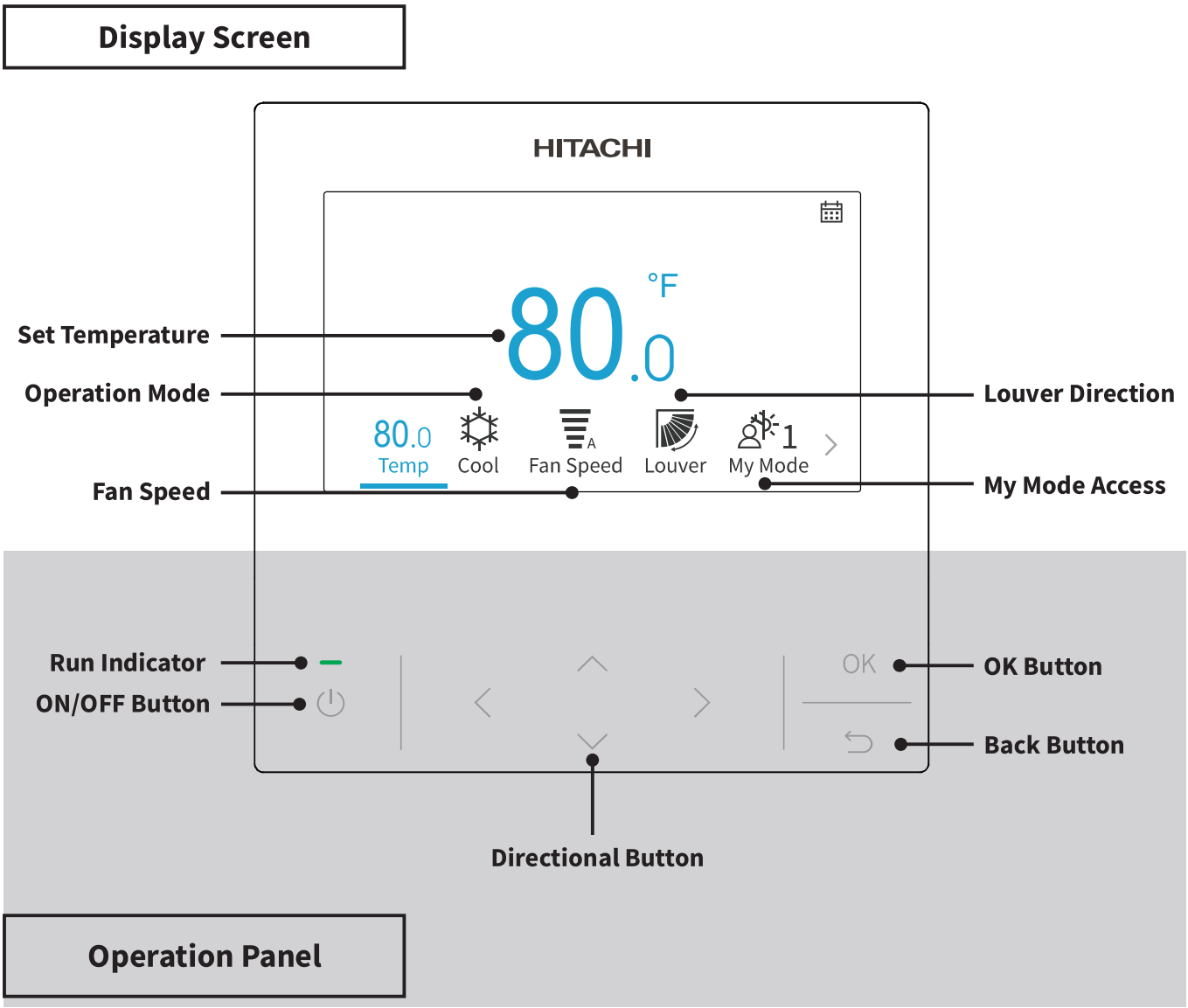
[note]
If receiving the order of "02"-"99",
IDU buzzer sounds as "pipi-"(rejecting sound).

12 OPTION LIST

CONTENTS

12.1 Wired remote control - SPX-URFG

The figure below shows all the functions for reference. The actual display during operation is different.



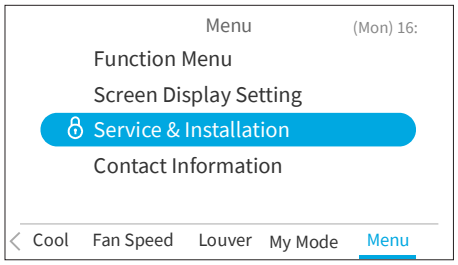
NOTES:

- If the screen is off or the backlight is dim, press any button to re-energise the screen.
- Make sure to press the buttons lightly with your fingertips.
- Do NOT press the buttons with any sharp objects as it may damage the button.

12.1.1. Service & Installation Screen

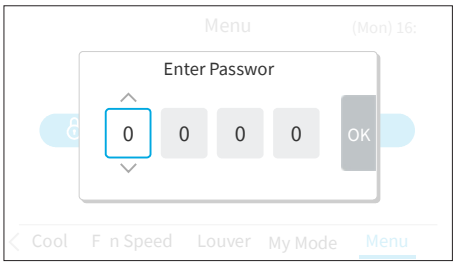
Service & Installation menu is protected by a password.

Step1. elect "Service & Installation" on "Menu" screen and press "OK".



Step2. Press "∧", "∨", "<", or ">" to input the password.

Press ">" to select "OK" and press "OK" to enter Service & Installation menu screen.

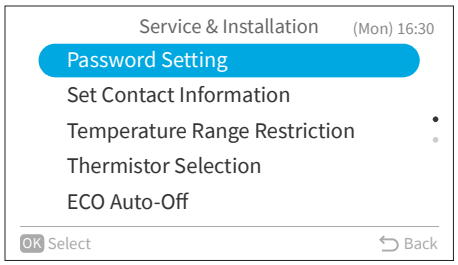


1. Password Setting

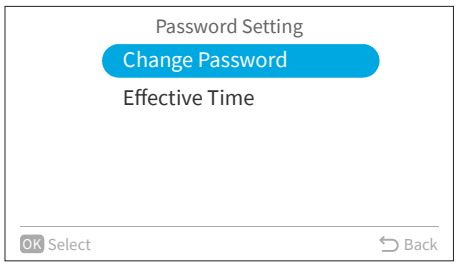
The default user password can be changed. If you forget the changed user password, a supervisor password can be used to reset the user password again. The supervisor password is "5567".
The password input effective time can be set also.
If the password input effective time has been set, then the password is required to be entered only once during the password effective time.

1. C nge Password

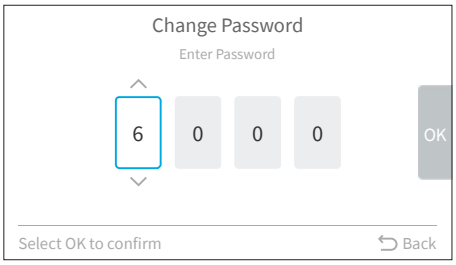
Step1. Select "Password Setting" on Service & Installation screen and press "OK"



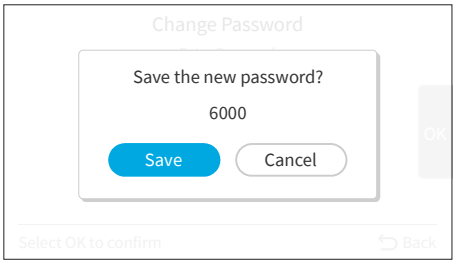
Step2. Select "Change Password" and press "OK".



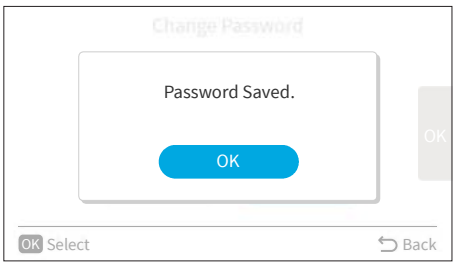
Step3. Press "∧", "∨", "<", or ">" to set the password, select "OK" and press "OK".



Step4. Press "<"or ">" to select "Save" and press "OK" to save password.



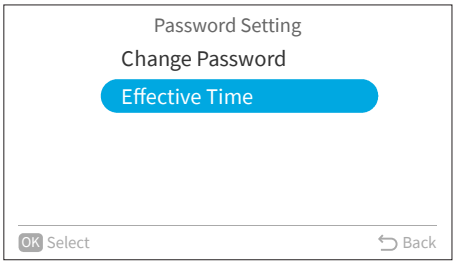
Press "OK", the new password is saved.



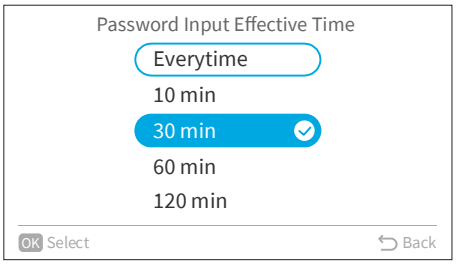
2. Set Password Input Effective Time

Step1. elect "Password Setting" on the Service & Installation screen and press "OK".

Step2. Select "Effective Time" and press "OK".



Step3. Press "∧" or "∨" to select the setting item and press "OK" to confirm the setting. The item changes as follows:
"Everytime" ↔ "10 min" ↔ "30 min" ↔ "60 min" ↔ "120 min".
Press "⮌" and it returns to Step3.



NOTES:

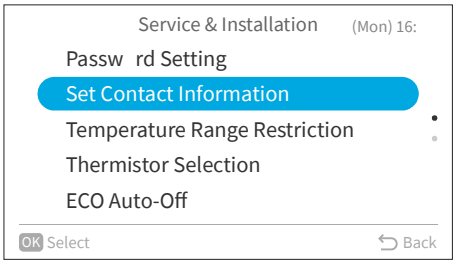
- In order to enhance the security protection, please be sure to change the default password.
- If you enter the wrong password more than 5 times, you will not be able to enter the password within 1 minute.
- The default password is "0000", and the supervisor code is "5567".
- If you forget the password, use the supervisor code to change the password.
- The supervisor code can't be changed.

2. Set Contact Information

Register a service contact (service address and service telephone number are recommended).

1. Register Contact Information

Step1. elect "Set Contact Information" on the Service & Installation screen and press "OK".



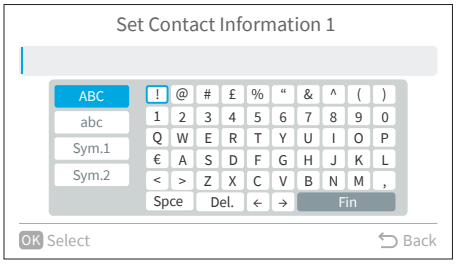
Step2. " Set Contact Information1" screen is displayed. Press "<" to move cursor to font type. Press "∧" or "∨" to select the font type.
*Each time you want to change the font type, press "<" to move the cursor back to font type.

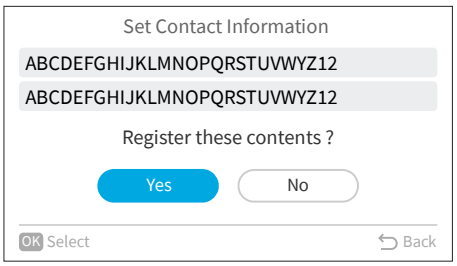
Step3. Press ">" to move cursor to the keypad. Press "∧", "∨", "<", or ">" to select the font and press "OK" to register it.(Up to 60 characters can be can be used for each contact information.)

Step4. After all the characters have been set, select " Fin " and press "OK".

Step5. "Set Contact Information2" screen is displayed, repeat Step2, Step3 and Step4.

Step6. Select "Yes" and press "OK" to confirm the setting and Step1 is displayed.
If "No" is selected , the screen returns to Step2.



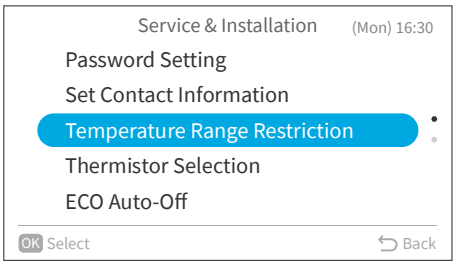


3. Temperature Range Restriction

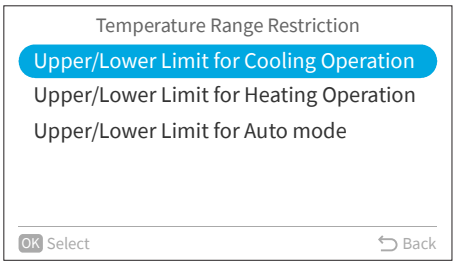
The temperature range can be set by the wired remote controller.

1. Set Temperature Range

Step1. Select "Temperature Range Restriction" on the Service & Installation screen and press "OK".

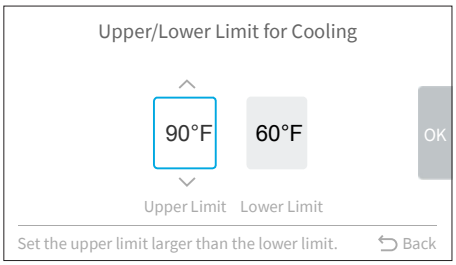


Step2. elect "Upper/Lower Limit for Cooling Operation"/"Upper/Lower Limit for Heating Operation"/ "Upper/Lower Limit for Auto mode" and press "OK".



Step3. Press "<", ">" to select the setting limit, then press "∧", "∨" to change the temperature value.

Step4. After value setting, select "OK" and press "OK". Press "⮌" to return to Step2.



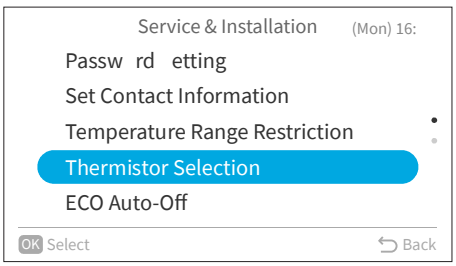
NOTE:

- Please make sure that the upper limit value is equal to or greater than the lower limit value.

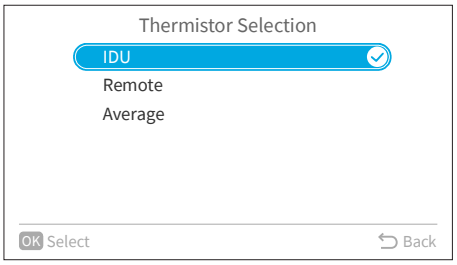
4. Thermistor Selection

This function is to select wired remote controller thermistor or indoor unit thermistor as the room temperature.

Step1. elect "Thermistor Selection" on the Service & Installation screen and press "OK".



Step2. Select the desired item and press "OK"



NOTE:

- If one of indoor unit or wired remote controller thermistor is broken, the other normal thermistor is selected automatically.

5. ECO Auto-Off

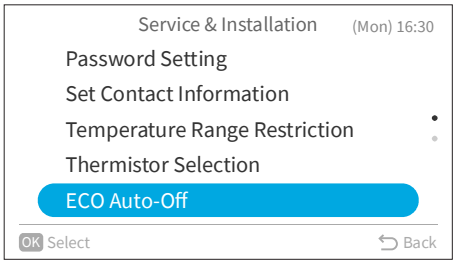
The default Auto-off time is set at 20min, it can be changed from 20min to 120min as described below. When the timer defined by "Auto-Off Timing" elapsed, wired remote controller will turn off indoor unit.

NOTE:

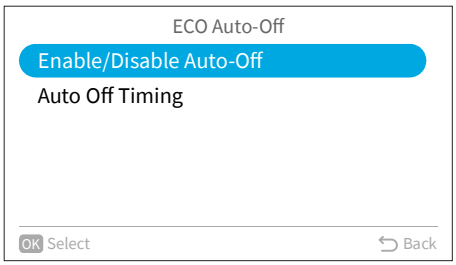
- "ECO Auto-Off" is hidden in Service & Installation screen when "ECO Mode with Auto-Off" is shown in Functions for ECO mode of Function Menu.

1. Enable/Disable Auto-Off

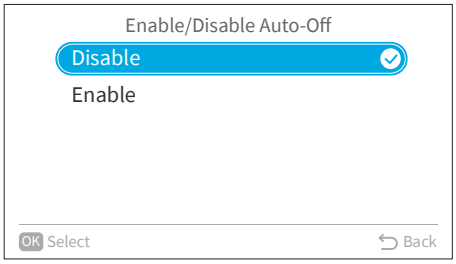
Step1. Select "ECO Auto-Off" on the Service & Installation screen and press "OK".



Step2. Select "Enable/Disable Auto-Off" and press "OK".

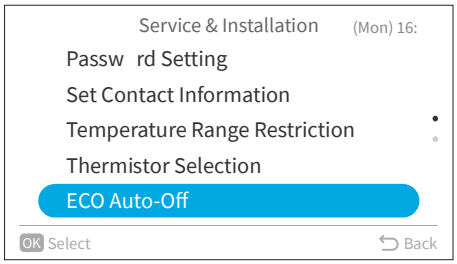


Step3. Press "∧" or "∨" to select "Disable"/"Enable" and press "OK" to enable/disable Auto-Off.

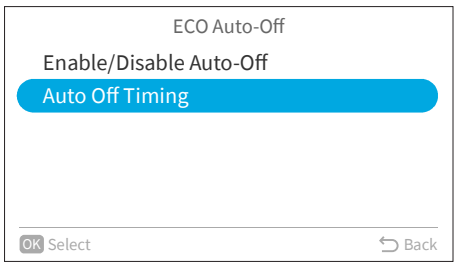


2. Set Auto-Off Timing

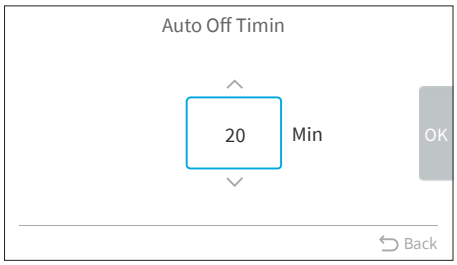
Step1. Select "ECO Auto-Off" on the Service & Installation screen and press "OK".



Step2. Press "﹀" to select "Auto-Off Timing" and press "OK".



Step3. ress "∧" or "﹀" to change the time from 20min to 120min, then press "›" to select "OK" and press "OK".

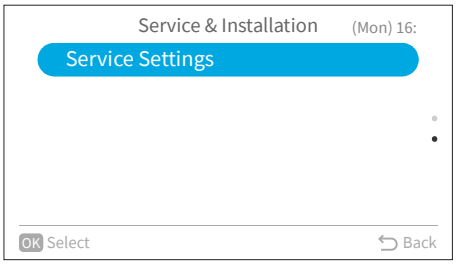


12.1.2 Service Settings

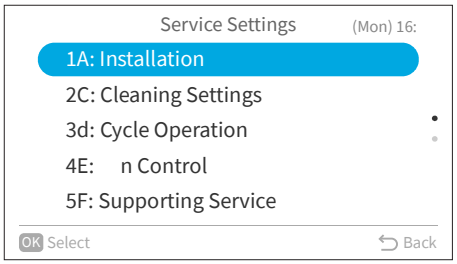
- The service setting items displayed in list depend on indoor unit model.
- When no operation for 2 hours on Service settings or sub settings screen, it returns to Home screen.
- When the air conditioner is turned on, service setting is disabled.
- For more information of service settings, please refer to service manual of the wired remote controller.

1. 1A: Installation

Step1. Select "Service Settings" on "Service & Installation" screen and press "OK".

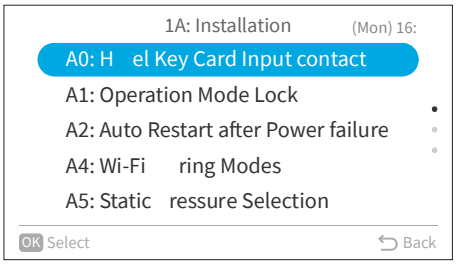


Step2. Select "1A: Installation" and press "OK".

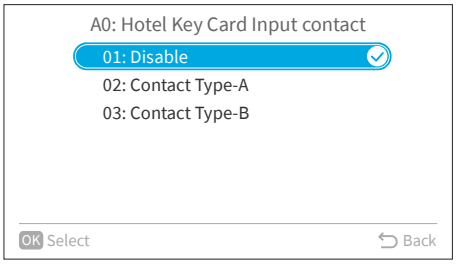


1.1 A0: Hotel Key Card Input contact

Step1. Select "A0: Hotel Key Card Input contact" and press "OK".

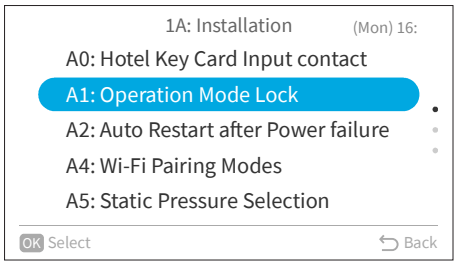


Step2. ress "∧" or "∨" to select the desired item and press "OK".

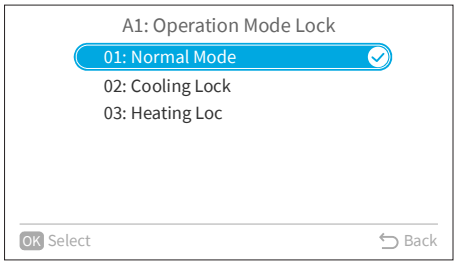


1.2 A1: Operation Mode Lock

Step1. Select "A1: Operation Mode Lock" and press "OK".



Step2. ress "∧" or "∨" to select the desired item and press "OK".

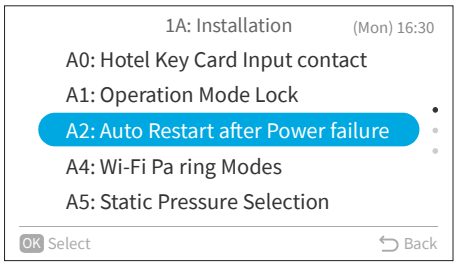


NOTE:

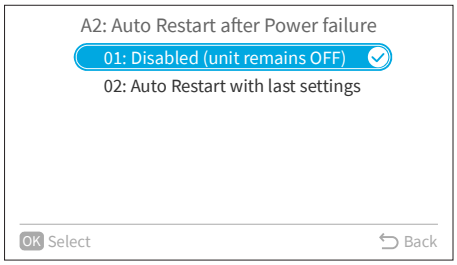
- The operation lock setting will remain unchanged after the unit is turned off.

1.3 A2: Auto Restart after Power failure

Step1. Select "A2: Auto Restart after Power failure" and press "OK".

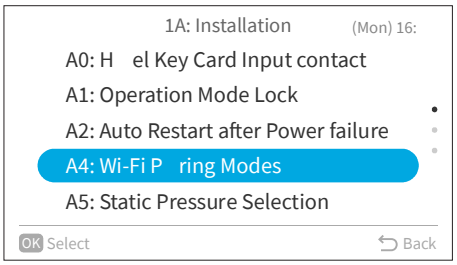


Step2. ress "∧" or "∨" to select the desired item and press "OK".

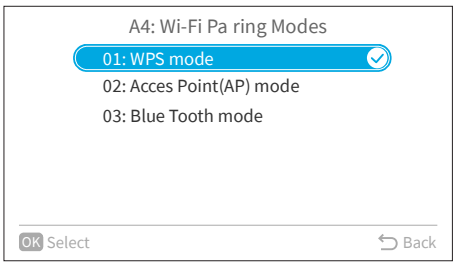


1.4 A4: Wi-Fi Pairing Mode

Step1. Select "A4: Wi-Fi Pairing Mode" and press "OK"

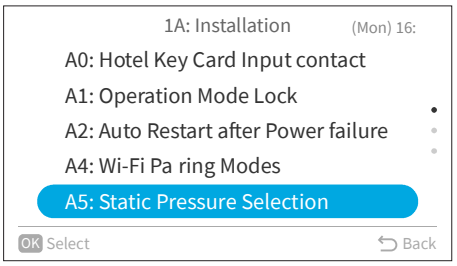


Step2. Press "∧" or "∨" to select the desired item and press "OK".

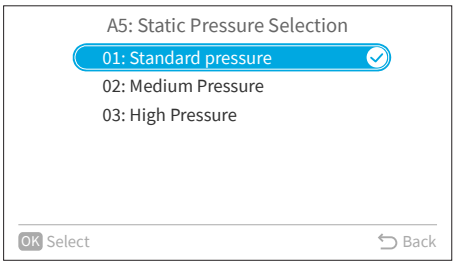


1.5 A5: Static Pressure Selection

Step1. Select "A5: Static Pressure Selection" and press "OK".



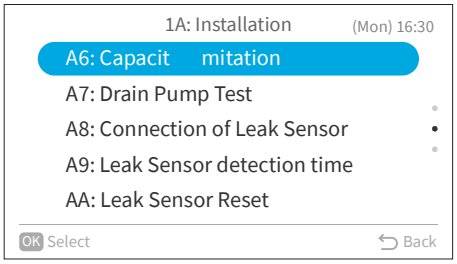
Step2. Press "∧" or "∨" to select the desired item and press "OK".



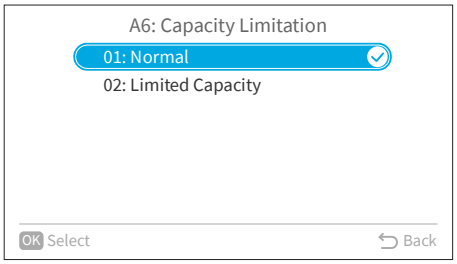
1.6 A6: Capacity Limitation

(For models: Not Applicable)

Step1. Select "A6: Capacity Limitation" and press "OK".

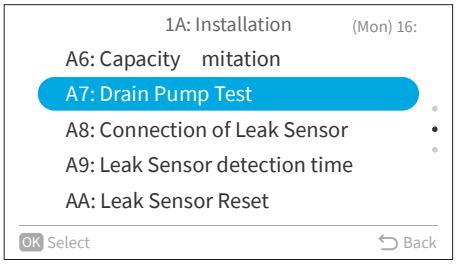


Step2. Press "∧" or "∨" to select the desired item and press "OK".

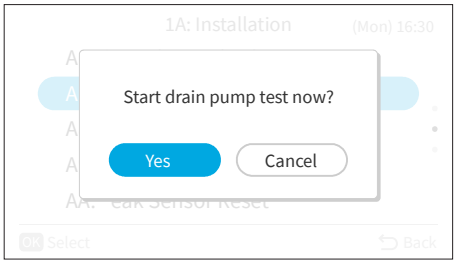


1.7 A7: Drain Pump Test

Step1. Select "A7: Drain Pump Test" and press "OK".

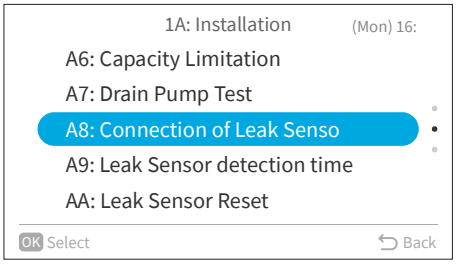


Step2. Select "Yes" and press "OK" to start drain pump test.

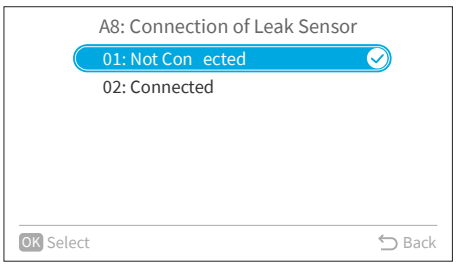


1.8 A8: Connection of Leak Sensor

Step1. Select "A8: Connection of Leak Sensor" and press "OK".

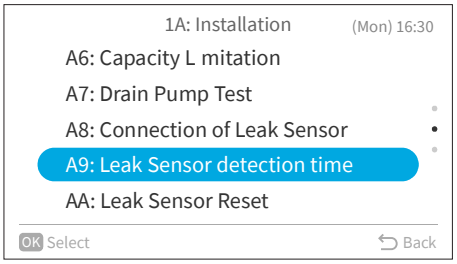


Step2. Press "∧" or "∨" to select the desired item and press "OK".

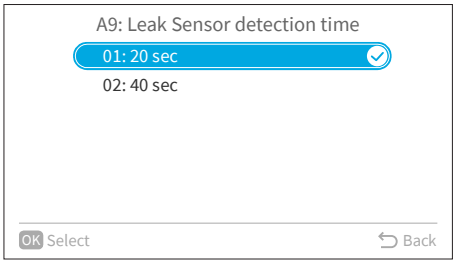


1.9 A9: Leak Sensor detection time

Step1. Select "A9: Leak Sensor detection time" and press "OK".

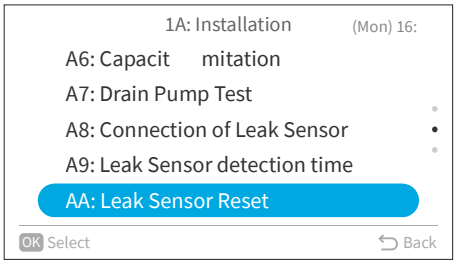


Step2. Press "∧" or "∨" to select the desired item and press "OK".

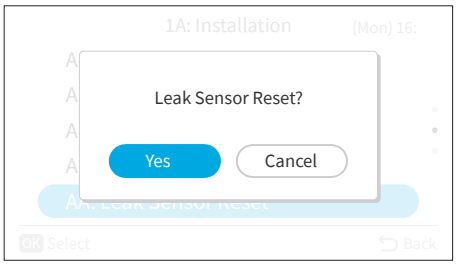


1.10 AA: Leak Sensor Reset

Step1. Select "AA: Leak Sensor Reset" and press "OK"

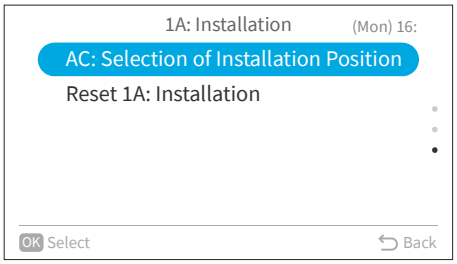


Step2. Select "Yes" and press "OK" to reset leak sensor.

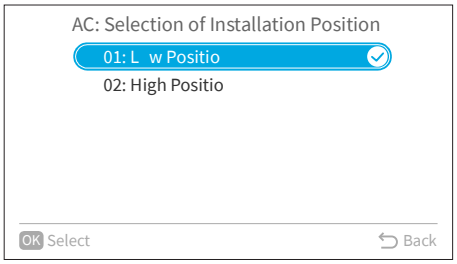


1.11 AC: Selection of Installation Position

Step1. Select "AC: Selection of Installation Position" and press "OK".

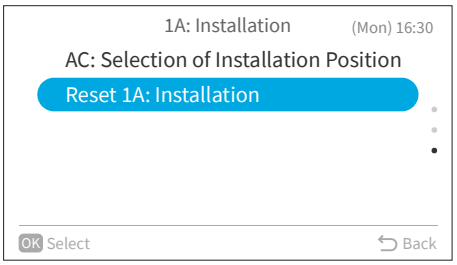


Step2. Press "∧" or "∨" to select the desired item and press "OK".

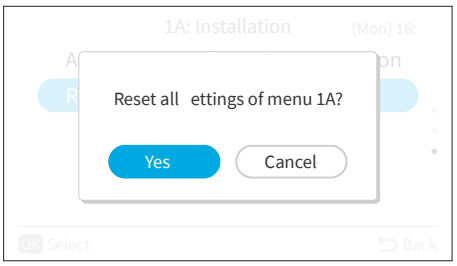


1.12 Reset 1A: Installation

Step1. Select "Reset 1A: Installation" and press "OK".

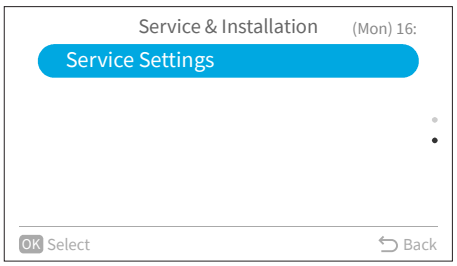


Step2. Select "Yes" and press "OK" to reset all settings of menu 1A.

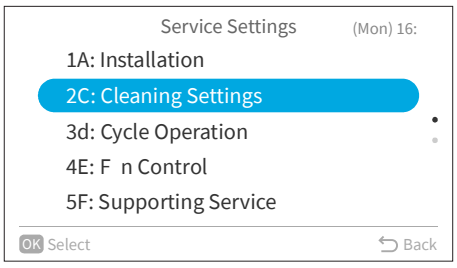


2 2C: Cleaning Settings

Step1. Select "Service Settings" on "Service & Installation" screen and press "OK".

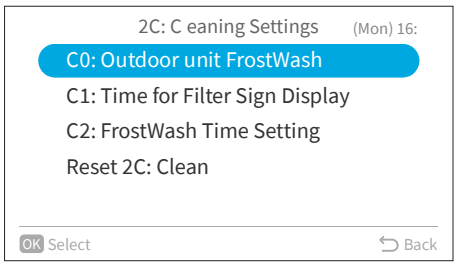


Step2. Select "2C: Cleaning Settings" and press "OK".

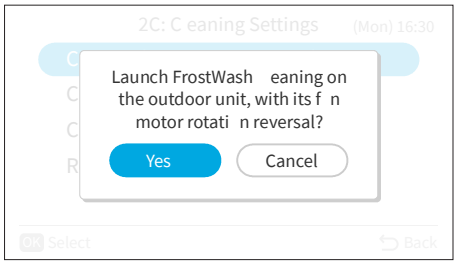


2.1 C0: Outdoor unit FrostWash

Step1. Select "C0: Outdoor unit FrostWash" and press "OK

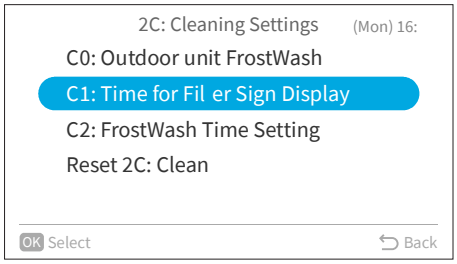


Step2. elect "Yes" and press "OK" to launch Frostwash cleaning.

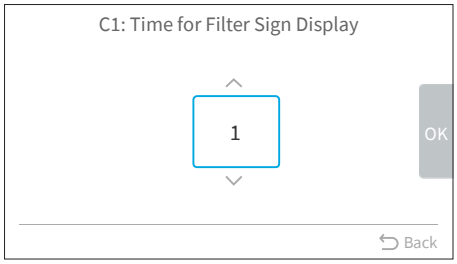


2.2 C1: Time for Filter Sign Display

Step1. elect "C1: Time for Filter Sign Display" and press "OK".

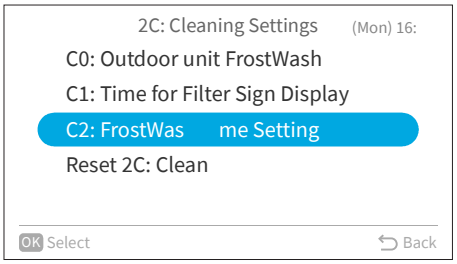


Step2. ress "∧" or "∨" to change the temperature, then press ">" to select "OK" and press "OK"

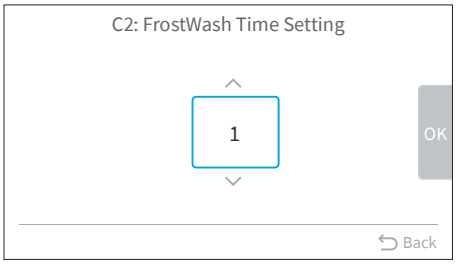


2.3 C2: FrostWash Time Setting

Step1. elect "C2: FrostWash Time Setting" and press "OK".

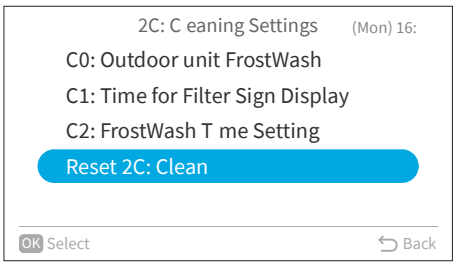


Step2. Press "∧" or "∨" to change the FrostWash time, then press ">" to select "OK" and press "OK"

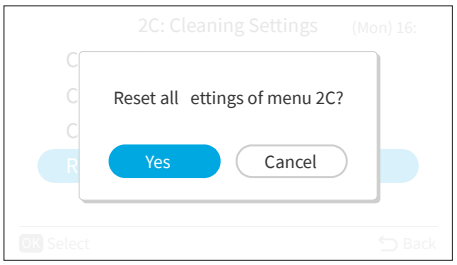


2.4 Reset 2C: Clean

Step1. Select "Reset 2C: Clean" and press "OK".

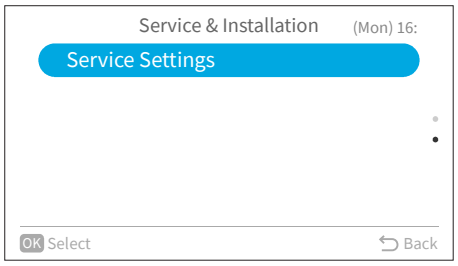


Step2. Select "Yes" and press "OK" to reset all settings of menu 2C.

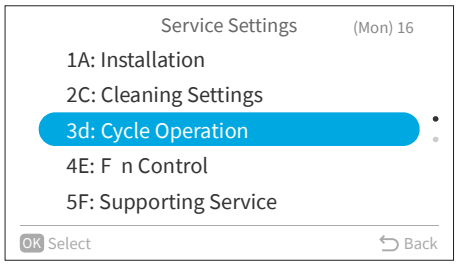


3. 3d: Cycle Operation

Step1. Select "Service Settings" on "Service & Installation" screen and press "OK".

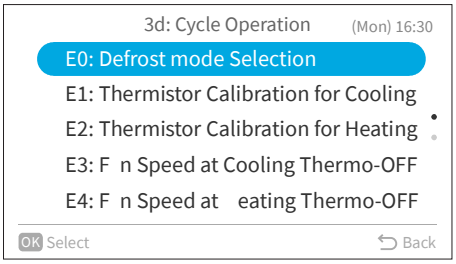


Step2. Select "3d: Cycle Operation" and press "OK"

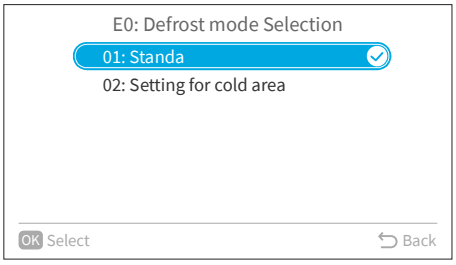


3.1 E0: Defrost Selection Function

Step1. Select "E0: Defrost Selection Function" and press "OK".

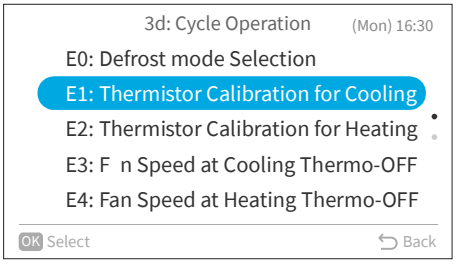


Step2. Press "∧" or "∨" to select the desired item and press "OK

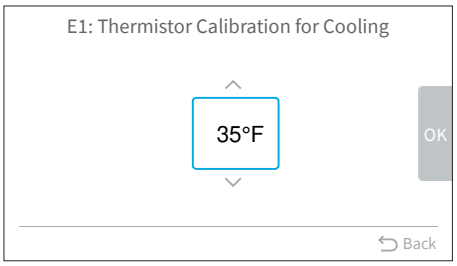


3.2 E1: Thermistor Calibration for Cooling

Step1. Select "E1: Thermistor Calibration for Cooling" and press "OK".

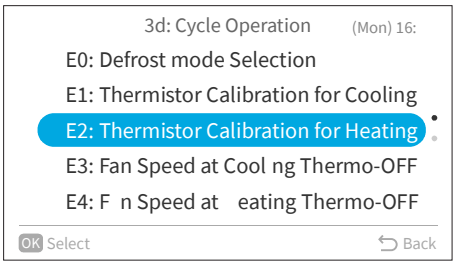


Step2. ress "∧" or "∨" to change the temperature, then press ">" to select "OK" and press "OK".

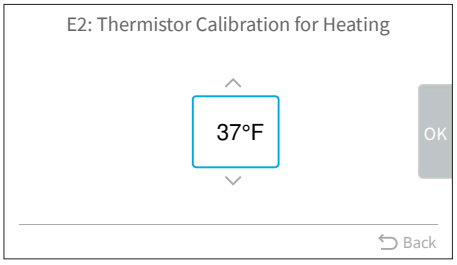


3.3 E2: Thermistor Calibration for Heating

Step1. Select "E2: Thermistor Calibration for Heating" and press "OK".

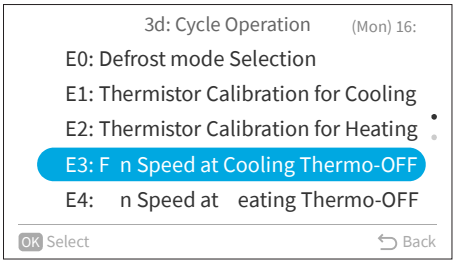


Step2. ress "∧" or "∨" to change the temperature, then press ">" to select "OK" and press "OK".

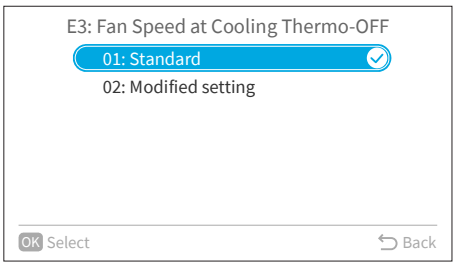


3.4 E3: Fan Speed at Cooling Thermo-OFF

Step1. Select "E3: Fan Speed at Cooling Thermo-OFF" and press "OK".

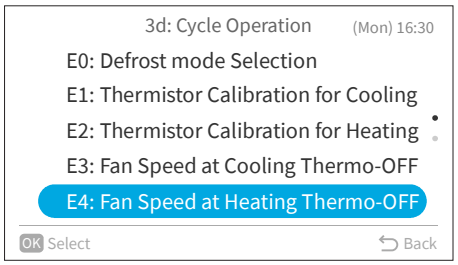


Step2. Press "∧" or "∨" to select the desired item and press "OK"

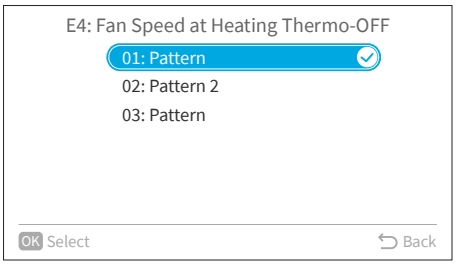


3.5 E4: Fan Speed at Heating Thermo-OFF

Step1. Select "E4: Fan Speed at Heating Thermo-OFF" and press "OK".

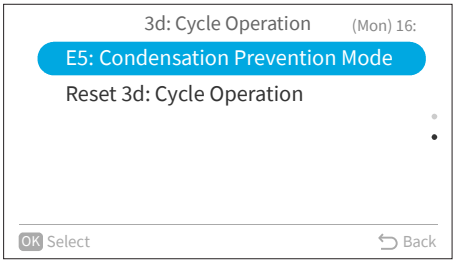


Step2. Press "∧" or "∨" to select the desired item and press "OK".

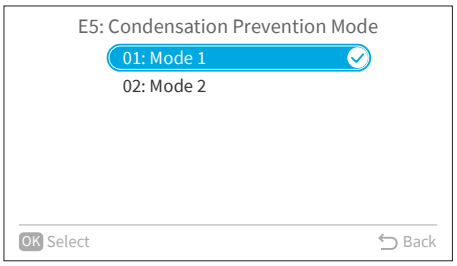


3.6 E5: Condensation Prevention Mode

Step1. Select "E5: Condensation Prevention Mode" and press "OK".

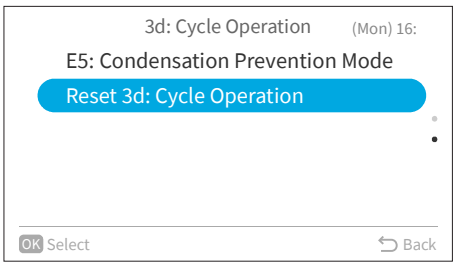


Step2. Press "∧" or "∨" to select the desired item and press "OK"

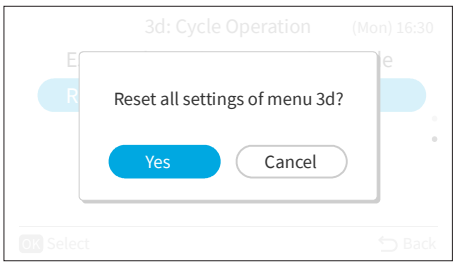


3.7 Reset 3d: Cycle Operation

Step1. elect "Reset 3d: Cycle Operation" and press "OK".

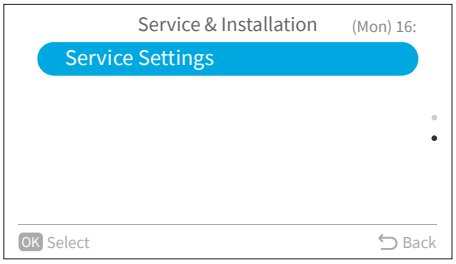


Step2. elect "Yes" and press "OK" to reset all settings of menu 3d.

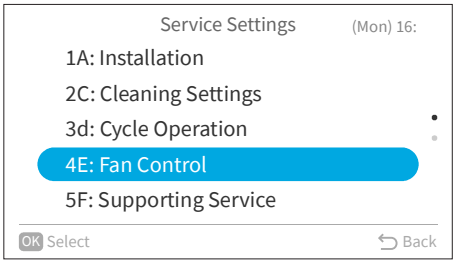


4. 4E: Fan Control

Step1. Select "Service Settings" on "Service & Installation" screen and press "OK".

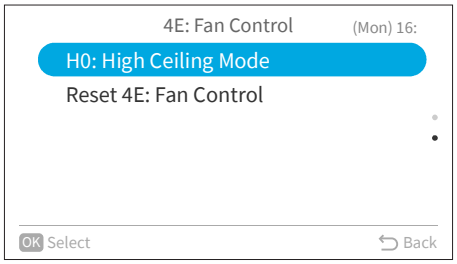


Step2. elect "4E: Fan Control" and press "OK".

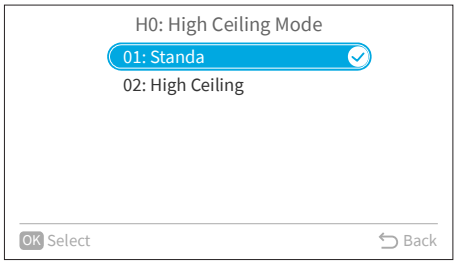


4.1 H0: High Ceiling Mode

Step1. Select "H0: High Ceiling Mode" and press "OK".

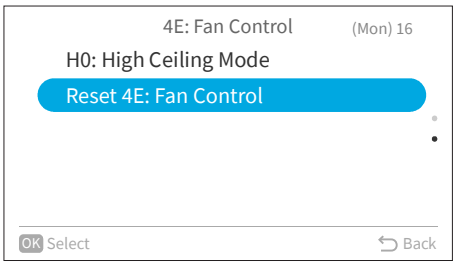


Step2. Press "∧" or "∨" to select the desired item and press "OK".

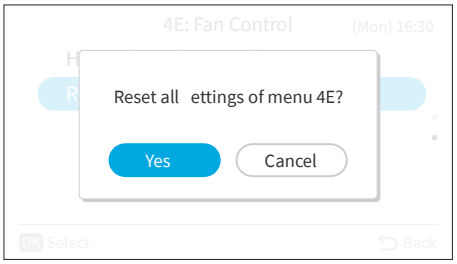


4.2 Reset 4E: Fan Control

Step1. Select "Reset 4E: Fan Control" and press "OK"

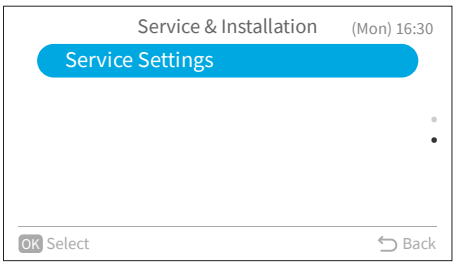


Step2. Select "Yes" and press "OK" to reset all settings of menu 4E.

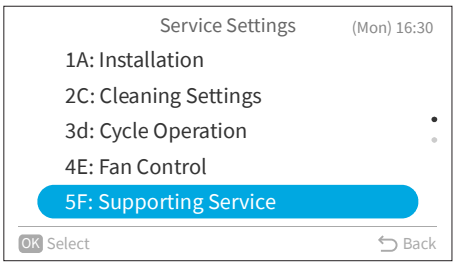


5. 5F: Supporting Service

Step1. elect "Service Settings" on "Service & Installation" screen and press "OK".

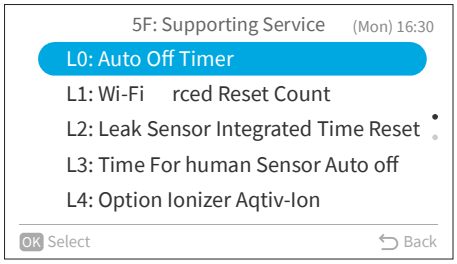


Step2. Select "5F: Supporting Service" and press "OK".

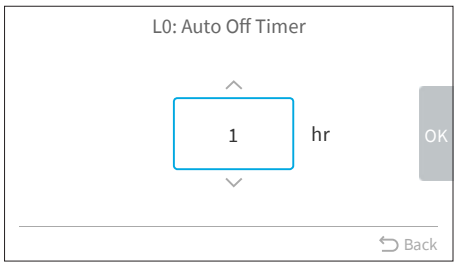


5.1 L0: Auto Off Timer

Step1. Select "L0: Auto Off Timer" and press "OK".

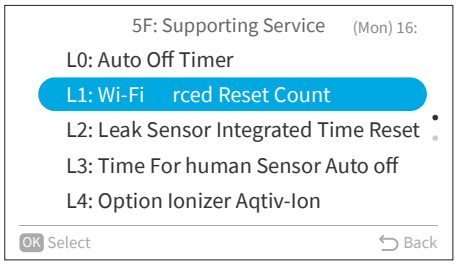


Step2. Press "∧" or "∨" to change the timer, then press ">" to select "OK" and press "OK"

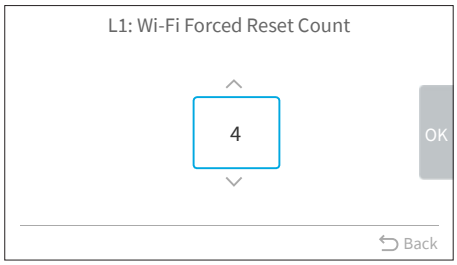


5.2 L1: Wi-Fi Forced Reset Count

Step1. elect "L1: Wi-Fi Forced Reset Count" and press "OK".

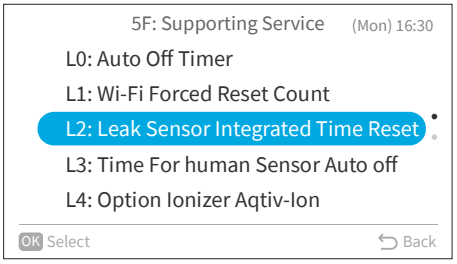


Step2. ress "∧" or "∨" to change the reset count, then press ">" to select "OK" and press "OK".

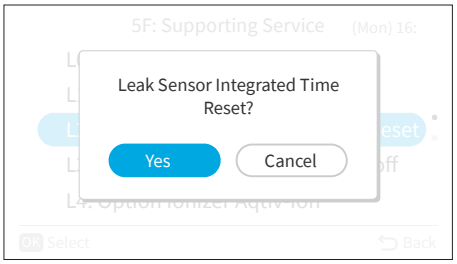


5.3 L2: Leak Sensor Integrated Time Reset

Step1. elect "L2: Leak Sensor Integrated Time Reset" and press "OK"

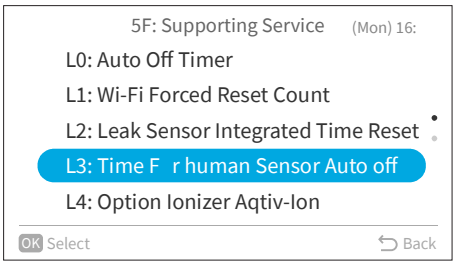


Step2. Select "Yes" and press "OK" to reset leak sensor integrated time.

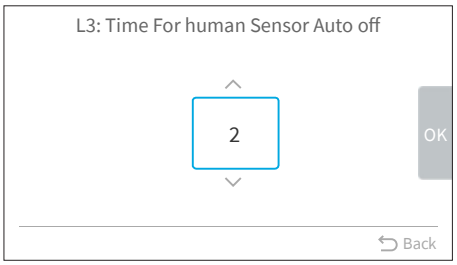


5.4 L3: Time For human Sensor Auto off

Step1. Select "L3: Time For human Sensor Auto off" and press "OK".

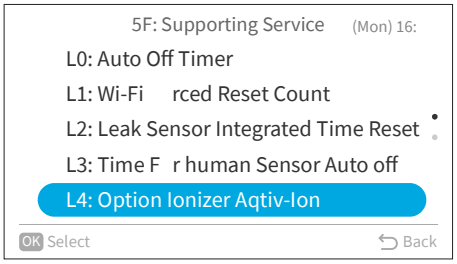


Step2. Press "∧" or "∨" to change the time, then press ">" to select "OK" and press "OK

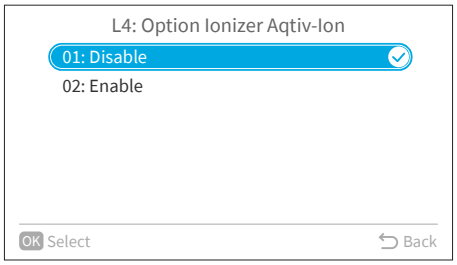


5.5 L4: Option Ionizer Aqtiv-Ion

Step1. Select "L4: Option Ionizer Aqtiv-Ion" and press "OK"

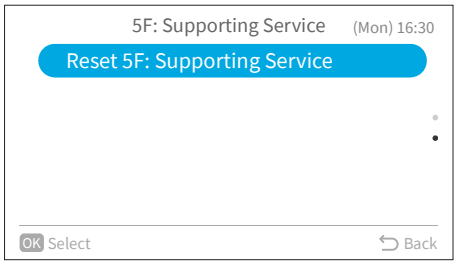


Step2. Press "∧" or "∨" to disable/enable option Ionizer Aqtiv-Ion and press "OK"

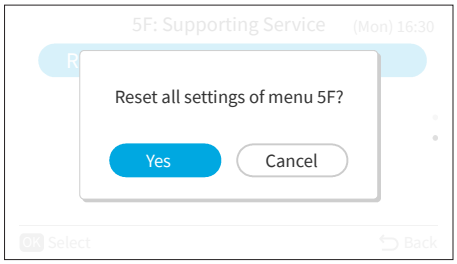


5.6 Reset 5F: Supporting Service

Step1. elect "Reset 5F: Supporting Service" and press "OK".

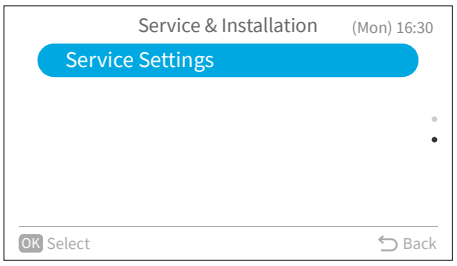


Step2. Select "Yes" and press "OK" to reset all settings of menu 5F.

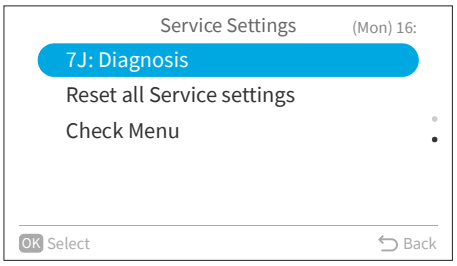


6. 7J: Diagnosis

Step1. elect "Service Settings" on "Service & Installation" screen and press "OK".

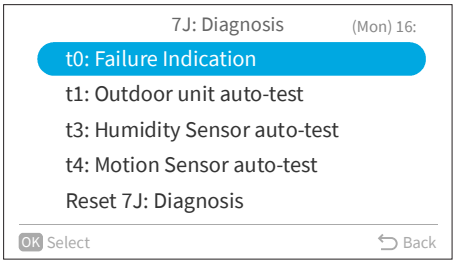


Step2. elect "7J: Diagnosis" and press "OK".

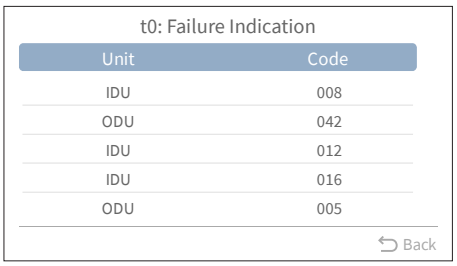


6.1t0: Failure Indication

Step1. Select "t0: Failure Indication" and press "OK".

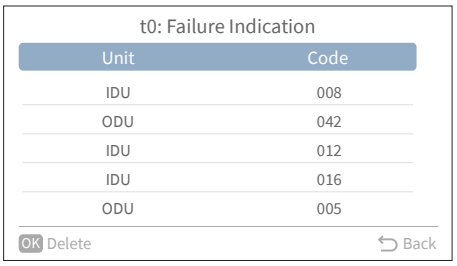


Step2. T e failure indication screen is shown.

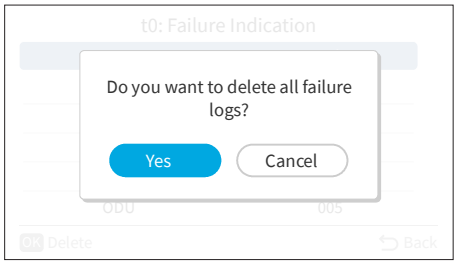


NOTE:

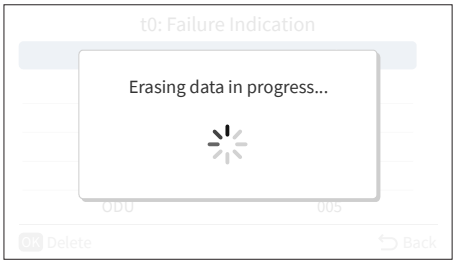
- Second time to go to t0 after indoor unit and wired remote controller is powered on: Failure indication screen with a "Delete".



Step3. ress "OK" and a reminder shows up. Select "Yes" and press "OK" to delete all failure logs.

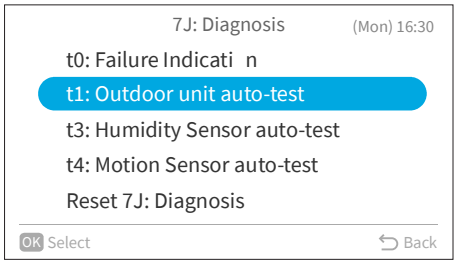


Step4. After completing erasing, it turns to home screen.

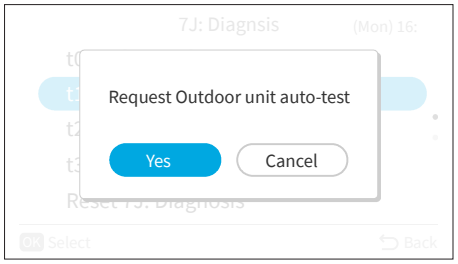


6.2t1: Outdoor unit auto-test

Step1. elect "t1: Outdoor unit auto-test" and press "OK"

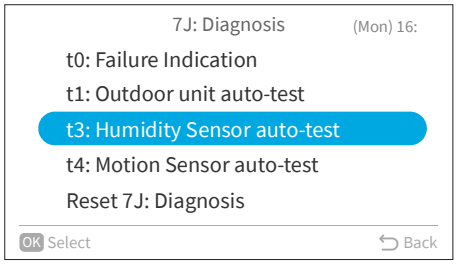


Step2. Select "Yes" and press "OK" to request outdoor unit auto-test.

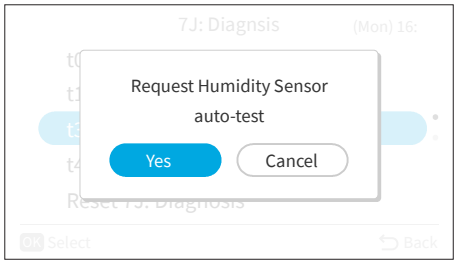


6.3t3: Humidity Sensor auto-test

Step1. elect "t3: Humidity Sensor auto-test" and press "OK".

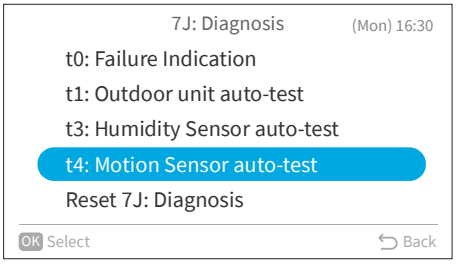


Step2. Select "Yes" and press "OK" to request humidity sensor auto-test.

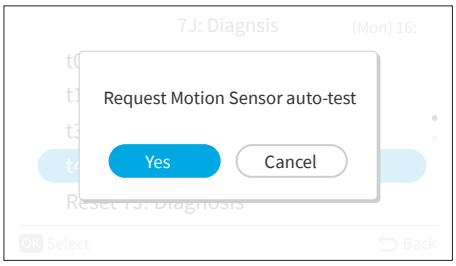


6.4 t4: Motion Sensor auto-test

Step1. elect "t4: Motion Sensor auto-test" and press "OK".

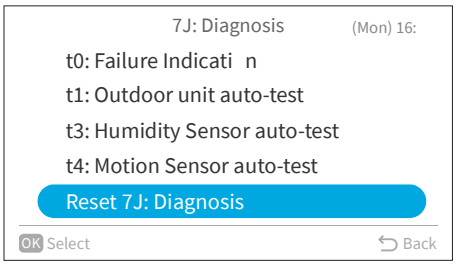


Step2. Select "Yes" and press "OK" to request motion sensor auto-test.

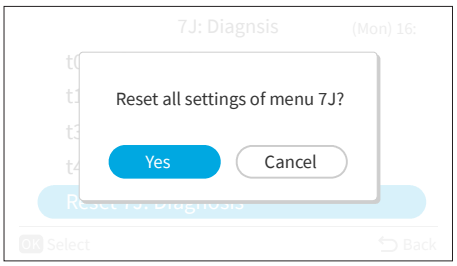


6.5 Reset 7J: Diagnosis

Step1. Select "Reset 7J: Diagnosis" and press "OK".

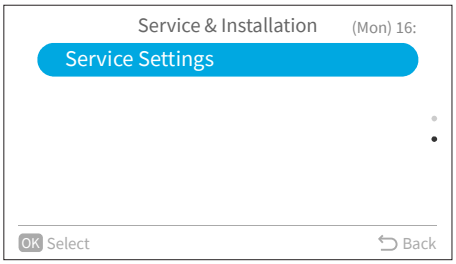


Step2. Select "Yes" and press "OK" to reset all settings of menu 7J.

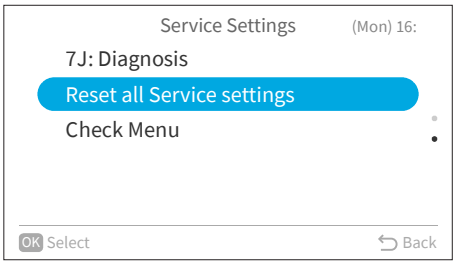


7. Reset All Service Settings

Step1. elect "Service Settings" on "Service & Installation" screen and press "OK".



Step2. Select "Reset all Service settings" and press "OK"

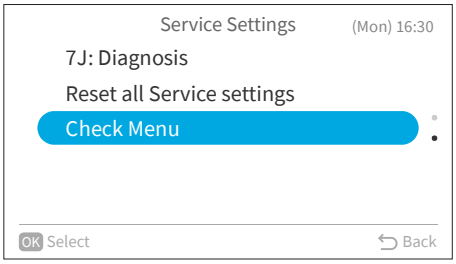


8. Check Menu

This menu displays various statuses of the air conditioner.

1. Enter Check Menu

Step1. Select "Check Menu" on the "Service Settings" screen and press "OK".



Each "Check Menu" item and its function is explained in the following table.

Item	Function
Remote controller auto-test	The wired remote controller checkout process begins and various settings initialize.
Alarm History Display *	Previous alarm history data including date, time, indoor unit number, and alarm code is displayed. (30 Max) The alarm history can be deleted.*

* Press "OK" while the alarm history is displayed, the confirmation screen for deleting the alarm history is displayed. Select "Yes" and press "OK" to delete the alarm history.

12.2 H-LINK Board (SPX-RAMHLK) Installation Manual

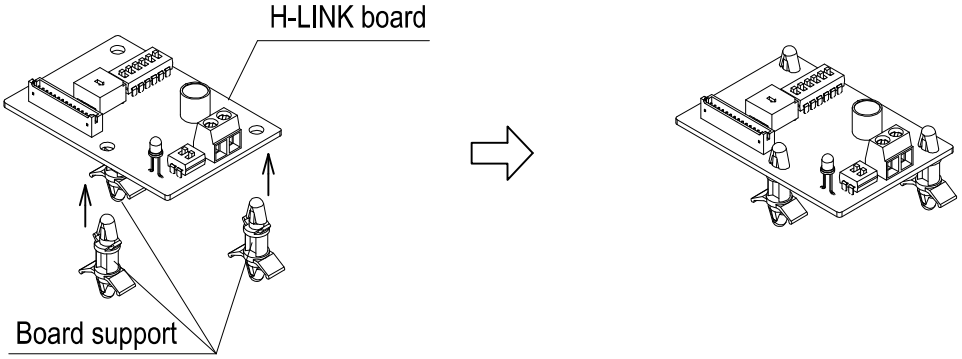
1.1 Check through H-LINK board accessories.

Table 1

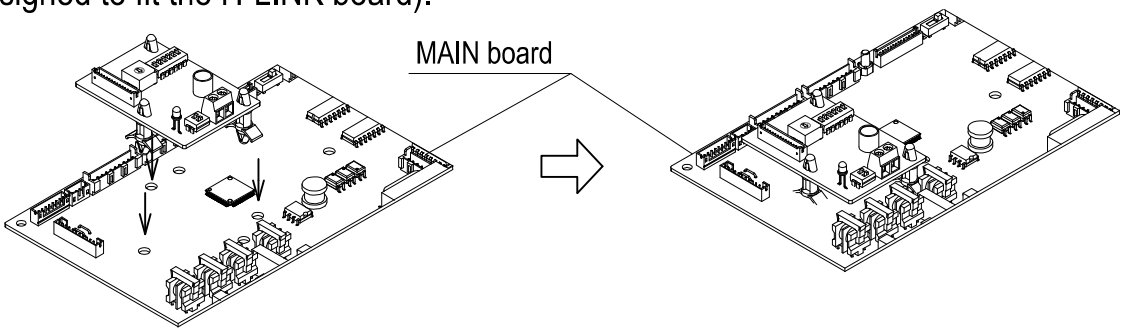
No	Part Name	Quantity
①	H-LINK board	1
②	Board support	3
③	14 pin cord	1
④	Installation manual	1

1.2 H-LINK board installation

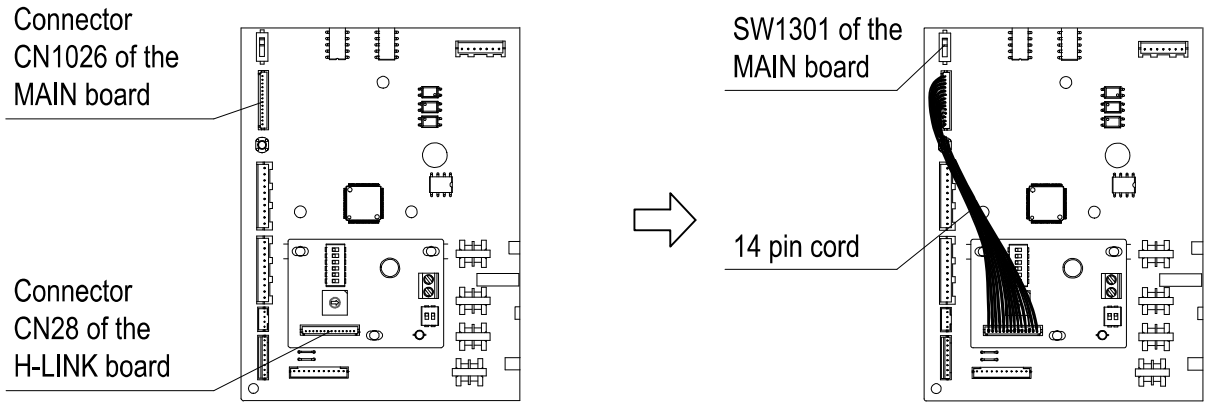
i. Assemble board support (3 pcs) to H-LINK board holes as following picture.



ii. Insert the H-LINK board into the MAIN board (please use 3 holes on MAIN board that designed to fit the H-LINK board).

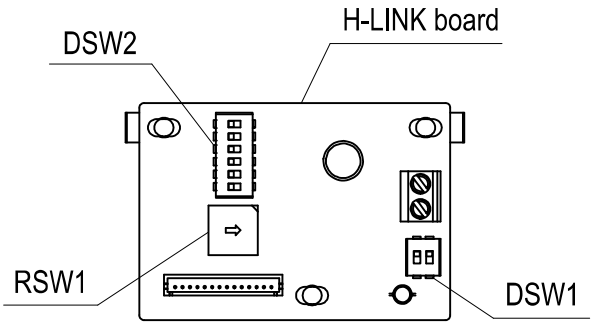


iii. Insert the 14 pin cord to the CN28 of the H-LINK board and CN1026 of the MAIN board.



iv. Set the SW1301 of the MAIN board to ON condition before start the H-LINK operation (default position from factory is OFF condition).

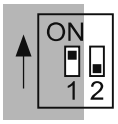
1.3 DIP switch setting.



i. DSW1 setting (terminal resistance setting).

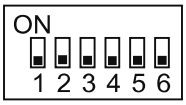
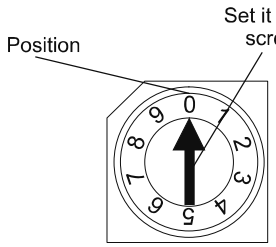
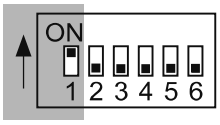
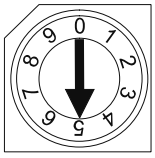
Terminal resistance setting set by pin number 1 of DSW1.
(Default setting from factory is pin number 1 of DSW1 set to OFF condition).

Terminal resistance should be ON in only one position in whole H-LINK. After checking terminal resistance setting of whole H-LINK, pin number 1 of DSW1 should be set properly.

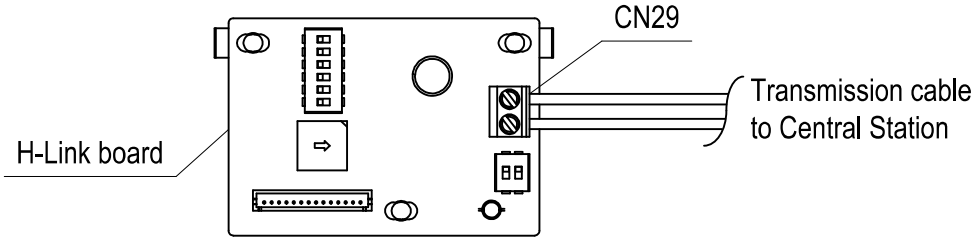
Example: If set pin number 1 to ON condition
DSW1


ii. DSW2 and RSW1 setting.

Refrigerant cycle number is set by DSW2 and RSW1.

DSW2 (tens digit)	RSW1 (ones digit)	Example: Setting cycle number to 15	
		DSW2	RSW1
			
Default setting from factory for DSW2 and RSW1 are set to OFF and 0 respectively.		Pin number 1 is ON	The set position is 5

1.4 Connect the H-LINK board to the Central Station by fixing the transmision cable at CN29.



The transmission cable used shall be as below.

i. 2 cores cable (0.75mm^2 to 1.25mm^2). Model : VCTF, VCT, CVV, MVVS, CVVS VVR, VVF.

ii. 2 cores twist pair cable. Model : KPEV, KPEV-S.

Total length of the transmission cable shall be below than 1000m.

2 Error code during H-LINK operation.

- If the is any abnomallity to the unit, error code will be display at Central Control Station.
- Error code displayed, its self-diagnosis and it suspected cause of the error shall refer to below table.

Centralized device Alarm display code	RAC (IDU) Alarm display code	Self Diagnosis Display name	Internal and external classification	Display contents (Main cause)	Remarks
1A	0010	Air supply fan failure	IDU	Ventilation fan failure	Reserved ※2
1B	0011	Dirt sensor error	IDU	Ventilation fan failure	Reserved ※2
1C	0012	Cleaning error	IDU	Cleaning error	Reserved ※2
1D	0013	Peltier error	IDU	Peltier error	Reserved ※2
1E	0014	Human sensor error	IDU	-	Reserved ※2
1F	0015	Communication error by other products.	IDU	Communication error by other products.	
71	0001	Four-way valve operation failure	IDU	Four-way valve operation failure	
-※1	0002	Forced cooling in operation	IDU	Forced cooling in operation	Be not a failure
73	0003	IDU communication circuit error	IDU	IDU communication circuit error	
75	0005	Power relay Contact Welding	IDU	Power relay Contact Welding	
76	0006	Error water level	IDU	Error water level	
-※1	0007	Drain-pump test run	IDU	Drain-pump test run	Be not a failure
79	0009	Thermistor failure	IDU	Thermistor failure	
7A	000A	IDU fan failure	IDU	IDU fan failure	
7B	000B	Ionizer generator error	IDU	Ionizer generator error	Reserved ※2
7C	000C	ODU communication circuit error	IDU	ODU communication circuit error	
7D	000D	EEPROM read error	IDU	EEPROM read error	
7E	000E	HEX thermistor wire break short circuit	IDU	HEX thermistor wire break short circuit	Reserved ※2
7F	000F	Indoor temp. thermistor wire break short circuit	IDU	Indoor temp. thermistor wire break short circuit	Reserved ※2
82	0102	Stopping Ip cutting	ODU	Ip Cutting input Signaling detection	
83	0103	Abnormal low speed	ODU	Step-out by axial error condition to detection	Normal operation condition
84	0104	Switching failure	ODU	Step-out by axial error condition to detection	Synchronization, acceleration operation condition
85	0105	Over load shutdown	ODU	Less than min. revolution at over load	
86	0106	OH Stop	ODU	OH has reached the dead temperature.	
87	0107	Thermistor error	ODU	Thermistor burnout/short circuit	
88	0108	Communication between INV	ODU	Communication error between MCU	
89	0109	Incorrect connection	ODU	Connect RAC communication format IDU	Connect single IDU
8A	010A	Power supply VoltageError	ODU	DC voltage is out of limits	
8B	010B	Fan failure detection 1	ODU	Fan OVL stopped	
8C	010C	Fan failure detection 2	ODU	Ip cutting, step-out by axial error, etc.	
8D	010D	EEPROM error	ODU	Read error (ACK, checksum)	
8E	010E	Overvoltage error	ODU	DC voltage is out of limits	Starting
8F	010F	Circuit error	ODU	ACT circuitry, Is/Vs error, etc.	
A0	0128	Valve error	ODU	Yutampo multi valves error	
A1	0029	Leakage of gas (generated IDU)	IDU	Gas-leak Fix	
A2	002A	Gas sensor failure (IDU generated)	IDU	Communication error with gas sensor, etc.	
A4	0129	Gas leak (notification receiving equipment)	ODU	When an A1～A2 occurs, returned to except of the leak generating unit by notifying the ODU.	
A5	012A	Gas sensor failure (notification receiving equipment)	ODU		

・For more information on alarms, see IDU/ODU self diagnosis.

・When an alarm is sent from RAC IDU, the alarm is cleared by RAC IDU.

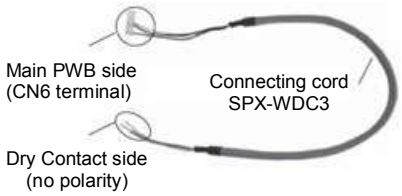
The alarm cannot be cleared from the central device. (Fit to the operating specs of IDU ≠ RAC adapter)

※1:An alarm code is sent from IDU, but it is not notified to the central device. (Fit to the operating specs of IDU ≠ RAC adapter)

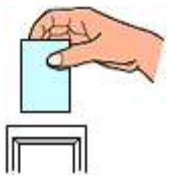
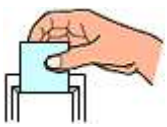
※2:It is not sent from IDU.

12.3. DRY CONTACT (SPX-WDC3) APPLICATION

The dry contact system enables the operation of the air conditioner indoor unit to be controlled by using external dry contacts (with non voltage) such as card-key controller or window for facilities such as hotels.

Optional Connecting cord Accessory SPX-WDC3		Model	DIP SW Label	CN#
	SPX WDC3	RAK-DJ07QHAA RAK-DJ(09-24)RHAA RAK-GJ(07-24)QHAA RAF-FJ(07-18)QHAA RAI-GJ(07-24)QHAA RAD-GJ(07-24)QHAA - - -	DSW1	CN6

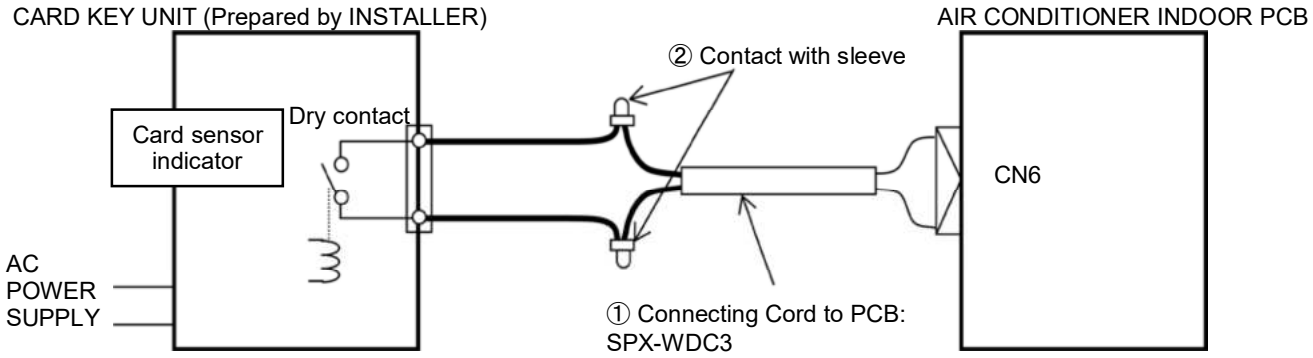
[1] CHECK DRY CONTACT OF CARD KEY UNIT

	AIR CONDITIONER Standby	**AIR CONDITIONER Operating**
CARD KEY (Door Switch)	REMOVE 	INSERT 
Contact type A	OPEN 	CLOSE 
Contact type B	CLOSE 	OPEN 

After all connection has been done as below diagram, ON the breaker and push ON button of wireless remote controller or wired remote controller to operate the air conditioner unit.

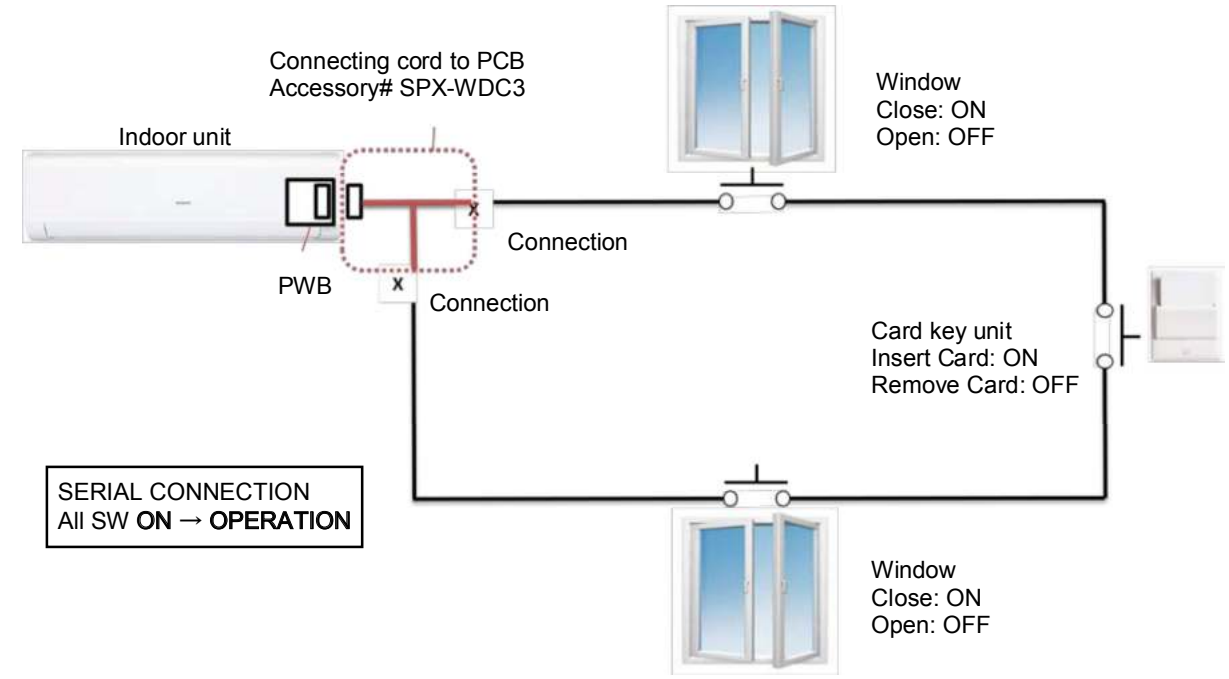
- When the CARD KEY is in insert condition, the air conditioner operation is allowable by remote controller.
- When the dry contact switch on the Card Key Unit is open (refer to diagram below for contact type a), the unit stops to operate (it takes 10 seconds to stop the unit operation after the dry contact switch on the card key turns off) and vice versa.
- When the card key is removed from the Card Key Unit, the wireless remote controller cannot be used.
- When the card key is removed from the Card Key Unit, the wired remote controller LCD display is activated; however it has no control over the unit.
- The suitable accessory Connecting Cord (accessory code#: SPX-WDC3) need to be used to connect the Card Key Unit's dry contact switch to the connector on the control board of the indoor unit. Please refer to Table 1 to select suitable accessory code# for the concerning indoor model.

Example of wiring connection to Card Key Unit will be as below (reference only)

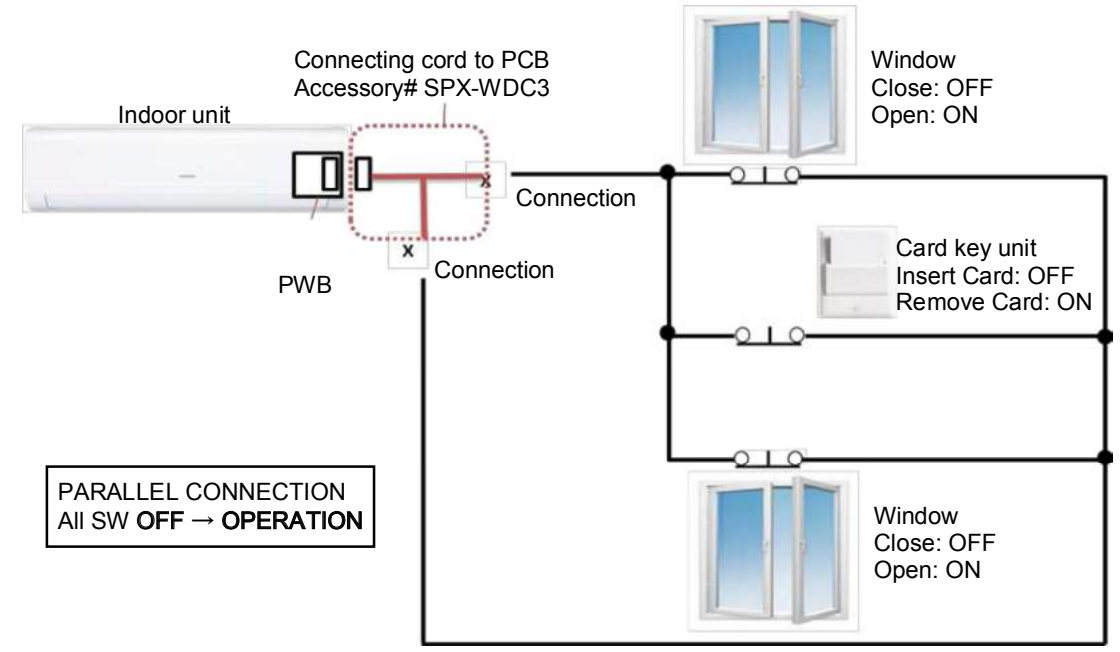


- CONNECTION EXAMPLE

i. HHRC for Dry Contact Type A



ii. HHRC for Dry Contact Type B



Please refer to the actual manual supplied with the optional connecting cords SPX-WDC3 for more details.

12.4 REMOTE SENSOR - SPX-RTH1

This remote sensor is applicable to Duct type indoor unit for Hitachi split system air conditioner.

12.4.1 SELECTION OF INSTALLATION POSITION

The thermistor for detecting room temperature is installed inside the remote sensor
The installation position of the remote sensor should be determined in consideration with the following conditions.

- Where the average room temperature can be detected.
- Where is not exposed to the sun
- Where the heat source is not located near the remote sensor.
- Where the discharge air from the air conditioner does not blow directly.
- Where is not affected by the outdoor air when opening / closing the door, etc

12.4.2 INSTALLATION PROCEDURE

- **In case of mounting onto the wall (Fig.1)**
  - Make the wiring on the sensor box, and let the wires for sensor through the box slot.
  - Fix the sensor box onto the wall with 2 screws (B)
  - In case that the sensor box can not be fixed onto the wall with screws, fix it onto the wall by using the double sided adhesive tapes, etc.
- **In case of mounting onto Electrical Switch box (Fig. 2 and 3)**
  - Make the holes for fixing sensor box on the Switch Box Cover (A) (field-supplied) as shown on the Fig. 3 and fix the sensor box to the plate with screws (B)
  - Pay attention that the hole for air intake on the sensor box (C) may not be shut.

Fig. 1

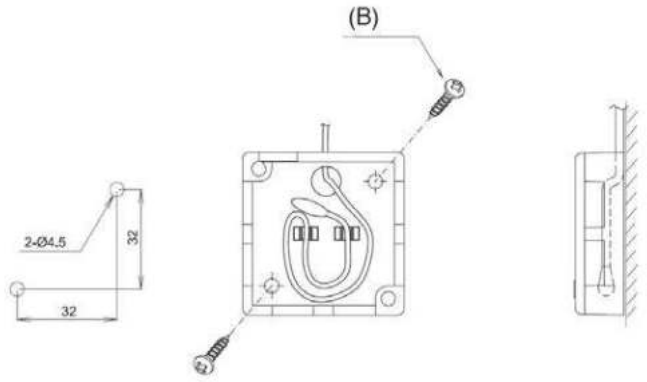


Fig. 2

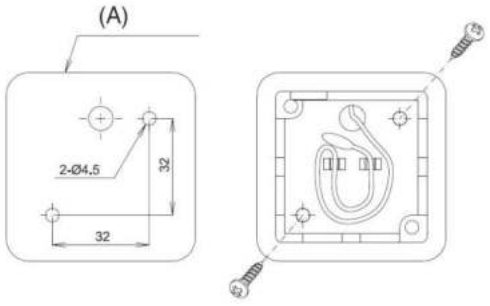
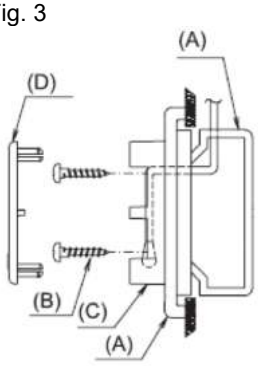


Fig. 3



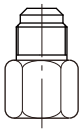
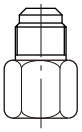
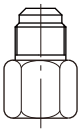
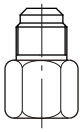
12.4.3 WIRING PROCEDURES

- Remove the original room thermistor from CN1 at the indoor printed circuit board.
- Connect the cord (15m) of the remote sensor to CN1 (Black) of the indoor printed circuit board.

Please refer to the actual manual supplied with the SPX- RTH1 for more details.

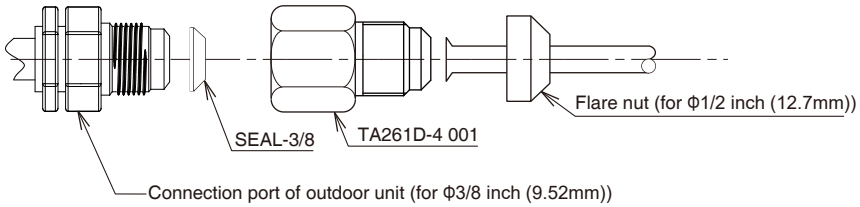
13.1. Instruction of adaptors

• Please find provided adaptors from the list below:-
Size and quantity provided may vary according to model of unit use.

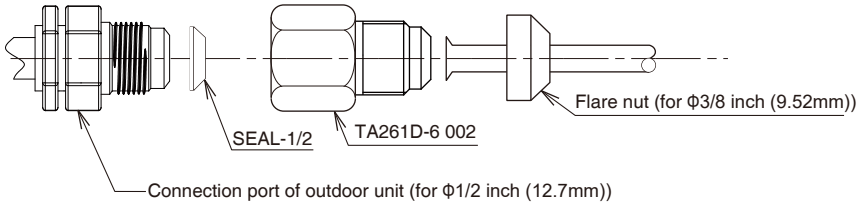
TA261D-4-001	TA261D-6-002	TA261D-7-003	ADAPTOR3-5	SEAL-3/8	SEAL-1/2
Adaptor	Adaptor	Adaptor	Adaptor	Seal	Seal
3/8 to 1/2	1/2 to 3/8	1/2 to 5/8	3/8 to 5/8	3/8	1/2
					

• Use the adaptors supplied with the unit as described below.

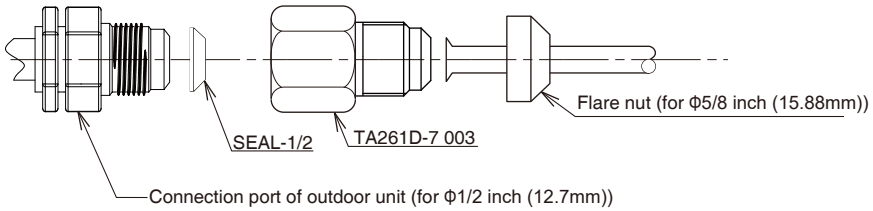
(1) When connecting a pipe of Φ1/2 inch (12.7mm) to a gas pipe connection port for Φ3/8 inch (9.52mm), using part TA261D-4-001 and SEAL-3/8 to connect the connection port and flare nut as shown below.



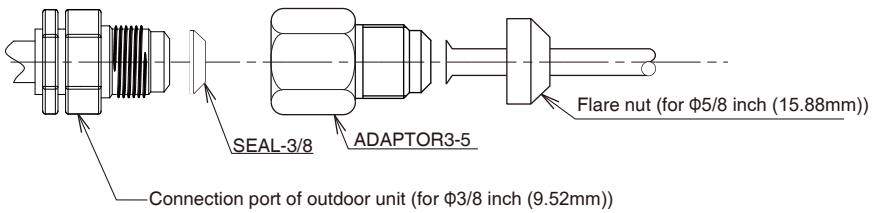
(2) When connecting a pipe of Φ3/8 inch (9.52mm) to a gas pipe connection port for Φ1/2 inch (12.7mm), using part TA261D-6-002 and SEAL-1/2 to connect the connection port and flare nut as shown below.



(3) When connecting a pipe of Φ5/8 inch (15.88mm) to a gas pipe connection port for Φ1/2 inch (12.7mm), using part TA261D-7-003 and SEAL-1/2 to connect the connection port and flare nut as shown below.



(4) When connecting a pipe of Φ5/8 inch (15.88mm) to a gas pipe connection port for Φ3/8 inch (9.52mm), using part ADAPTOR3-5 and SEAL-3/8 to connect the connection port and flare nut as shown below.



⚠ CAUTION

- Make sure to attach the seal when using the adaptors.
- Apply a coat of refrigeration oil to the threaded connection port of the outdoor unit where the flare nut comes in.

Piping size	Flare nut tightening torque
O.D. Φ 3/8 inch (9.52mm)	24-31ft • lbf (33-42N•m)
O.D. Φ 1/2 inch (12.7mm)	37-46ft • lbf (50-62N•m)
O.D. Φ 5/8 inch (15.88mm)	46-57ft • lbf (62-77N•m)

Adaptors	Tightening torque
TA261D-4-001 & ADAPTOR3-5	22-30ft • lbf (30-40N•m)
TA261D-6-002	30-37ft • lbf (40-50N•m)
TA261D-7-003	30-37ft • lbf (40-50N•m)

HITACHI

TC_NA-MULTI-R32(2024)-00