Inverter Single Wall Mounted TOTAL HVAC SOLUTION PROVIDER ENGINEERING PRODUCT DATA BOOK



Test Condition of International Standard

CL	CLASSIFICATION		KSC	ISO 5151		AHRI	AHAM (Window	AS/NZS	SA 2663	
			9306	T1	Т3	210/240	AC)	3823.1	T1	Т3
	Indoor	DB°C(°F)	27.0	27.0	29.0	26.7 (80)	26.7 (80)	27.0	27.0	29.0
Cooling	indoor	WB°C(°F)	19.0	19.0	19.0	19.4 (67)	19.4 (67)	19.0	19.0	19.0
Capacity	Outdoor	DB°C(°F)	35.0	35.0	46.0	35.0 (95)	35.0 (95)	35.0	35.0	46.0
	Outdool	WB°C(°F)	24.0	24.0	24.0	23.9 (75)	23.9 (75)	24.0	24.0	24.0
	Indoor	DB°C(°F)	20.0	20.0	20.0	21.1 (70)	21.1 (70)	20.0	20.0	20.0
Heating	Indoor	WB°C(°F)	15.0	15.0	15.0	15.6 (60)	15.6 (60)	15.0	15.0	15.0
Capacity	Capacity Outdoor	DB°C(°F)	7.0	7.0	7.0	8.3 (47)	8.3 (47)	7.0	7.0	7.0
		WB°C(°F)	6.0	6.0	6.0	6.1 (43)	6.1 (43)	6.0	6.0	6.0
	Maximum Indoor	DB°C(°F)	32.0	32.0	32.0	26.7 (80)	32.2 (90)	32.0	32.0	32.0
Maximum Cooling	indoor	WB°C(°F)	23.0	23.0	13.0	19.4 (67)	22.8 (73)	23.0	23.0	13.0
Operating	Outdoor	DB°C(°F)	43.0	43.0	52.0	46.11 (115)	43.3 (110)	43.0	43.0	52.0
	Outdool	WB°C(°F)	26.0	26.0	31.0	23.9 (75)	25.6 (78)	26.0	26.0	31.0
Massimo	Indoor	DB°C(°F)	27.0	27.0	27.0	26.7 (80)	26.7 (80)	27.0	27.0	27.0
Maximum Heating	indoor	WB°C(°F)	15.0	-	-	-	22.8 (73)	-	-	-
Operating	Outdoor	DB°C(°F)	21.0	24.0	24.0	23.9 (75)	23.9 (75)	24.0	24.0	24.0
oporanig	Outdool	WB°C(°F)	15.0	18.0	18.0	18.3 (65)	18.3 (65)	18.0	18.0	18.0
Enclosure	Indoor	DB°C(°F)	27.0	27.0	27.0	26.7 (80)	26.7 (80)	27.0	27.0	27.0
Sweat /	Indoor	WB°C(°F)	24.0	24.0	24.0	23.9 (75)	23.9 (75)	24.0	24.0	24.0
Condensate	Outdoor	DB°C(°F)	27.0	27.0	27.0	26.7 (80)	26.7 (80)	27.0	27.0	27.0
Disposal	Outdool	WB°C(°F)	24.0	24.0	24.0	23.9 (75)	23.9 (75)	24.0	24.0	24.0
F (Indoor	DB°C(°F)	21.0	21.0	21.0	19.4 (67)	21.1 (70)	21.0	21.0	21.0
Freeze-up / Low	inuooi	WB°C(°F)	15.0	15.0	15.0	13.9 (57)	15.6 (60)	15.0	15.0	15.0
Temperature	Outdoor	DB°C(°F)	21.0	21.0	21.0	19.4 (67)	21.1 (70)	21.0	21.0	21.0
	Juluool	WB°C(°F)	15.0	-	-	13.9 (57)	15.6 (60)	-	-	-

KS : Korea Standard ISO : International Standard Organization AHRI : Air-Conditioning, Heating, and Refrigeration Institute AHAM : Association of Home Appliance Manufacturers AS/NZS : Australia and New Zealand Standard

SASO : Saudi Arabian Standards Organization

Inverter Single Wall Mounted - 50 Hz (R32)

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1. Models Line Up

1.1 Indoor Unit

Category	Picture	Chassis	Nominal Capacity (kBtu/h)	Model Name
Premium		S1	9	H09S1PA.NS1 (S3NM091L1CA.EC6GEEU)
Premium		S1	12	H12S1PA.NS1 (S3NM121L1CA.EC6GEEU)
Deluxe		S1	12	H09S1DA.NS1 (S3NM091A1DA.EC6GEEU)
Deluxe		S1	12	H12S1DA.NS1 (S3NM121A1DA.EC6GEEU)
Deluxe		S1	18	H18S1DA.NS1 (S3NM181L1DA.EC6GEEU)
Deluxe		S1	24	H24S1DA.NS1 (S3NM24121DA.EC6GEEU)

1. Models Line Up

1.2 Outdoor Unit

Power Supply	Picture	Chassis	Nominal Capacity (kBtu/h)	Model Name
1 Ø , 220 ~ 240 V , 50 Hz	LG	U18A	9	H09S1PA.U18 (S3UM091L1CA.EC6GEEU)
1 Ø , 220 ~ 240 V , 50 Hz	LG	U18A	12	H12S1PA.U18 (S3UM121L1CA.EC6GEEU)
1 Ø , 220 ~ 240 V , 50 Hz		U12A	12	H09S1DA.U12 (S3UM091A1DA.EC6GEEU)
1 Ø , 220 ~ 240 V , 50 Hz		U12A	12	H12S1DA.U12 (S3UM121A1DA.EC6GEEU)
1 Ø , 220 ~ 240 V , 50 Hz	LG	U18A	18	H18S1DA.U18 (S3UM181L1DA.EC6GEEU)

1 Ø , 220 ~ 240 V , 50 Hz	U24A	24	H24S1DA.U24 (S3UM24121DA.EC6GEEU)
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2. Nomenclature

Model Name	s	4	-	W	1	2	J	L	1	Y	1
No.	1	2	3	4	5	6	7	8	9	10	11

No.	Signification	No.				Signi	fication				
1	Product Type	9	Look &	Color							
	S : Split		Platform	Look & Color		Look Nam	ne	Descri	otion		
2	Refrigerant 2 : R22 3 : R32 4 : R410A		SA SJ SK	R 1 2 3	E Lo	ok i-R Look ok		/lirror Black Vhite Panel (T Vhite Panel (S Vhite Panel	ilver Deco)		
3	Supply Type - : Set N : Indoor Unit		SM	4 5 Q P M	Semi E Lo E Lo			White Panel (F White Panel (G White Panel (2 White Panel (2 White Panel	Gold Deco) LED)		
	U : Outdoor Unit A : C/SKD Indoor Unit B : C/SKD Outdoor Unit M : Mock-Up		SM SM+ S2	1 2 3 W	R Lo Semi E Lo Blow	ok i-R Look ok kiss R		Vhite Panel (T Vhite Panel (S Vhite Panel Vhite Panel (V	ilver Deco) Vhite Deco)		
4	Model Type C : Cooling Only H : Heat Pump Q : DC Inverter Cooling Only W : DC Inverter Heat Pump M : Single and Multi Compatible		C : Cooling Only H : Heat Pump Q : DC Inverter Cooling Only W : DC Inverter Heat Pump		SW SH	B V 5 Q P	Blow E Loo Semi E Loo E Loo	i-R Look ok ok		Vhite Panel (E Vhite Panel (S Vhite Panel Vhite Panel (S Vhite Panel (2 Vhite Panel (2	ilver Deco) ilver Deco) LED) LED, Matt)
5, 6	Capacity Ex) 12 : 12,000 Btu/h		SV 	2 3 1 W	Semi E Lo	-R Look ok -	\ \ \	White Panel (Silver Deco) White Panel White Panel White Panel (Lighting)			
7	Indoor Unit Platform	10	Functio		1	-		vnite Panel (L	ignung)		
	2 : S2 H : SH 3 : S3 J : SJ		Modu	le Ai	rflow	Wi-Fi	Addition Filter	al Gen Mode	Function Digit		
	4 : S4 K : SK 5 : S5 M : SM A : SA V : SV E : SE W : SW		None		way way	0	0	0	A 3 W Q B		
8	Outdoor Unit Platform		lonize		way	0	0		F V 4		
	A : UA3 E : UE L : UL2 P : UE1+ 2 : U24A D : UD 4 : U4		IUNZE		way	0 0 0 0	0 0	0	R Z S P J T		
			Mosqu	ito 2	way	0	0		K E		
				4	way	0 0 0 0	0 0 0	0 0	7 6 2 5 8		
			Air Purif	ying 4	way	0	0		N Y C		
		11	Standar	d Mod	el No	•					

4

Buyer Model				H09S1PA.SS	61 (H09S1PA.NS1 / H	09S1PA.U18)		
Factory Model	Set	(Indoor / Outdoor)	Unit	S3-M091L1CA.E S3	C6GEEU (S3NM091 UM091L1CA.EC6GE	L1CA.EC6GEEU / EU)		
			kW	0.890	2.500	4.000		
	Cooling	Min ~ Rated ~ Max	Btu/h	3,038	8,536	13,657		
			kJ/h	-	-	-		
_	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-		
Capacity	555g (1.5)		Btu/h	-	-	-		
			kW	0.650	3.200	5.500		
	Heating	Min ~ Rated ~ Max	Btu/h	2,219	10,926	18,779		
			kJ/h	-	-	-		
	Heating -7°C	Max	kW	100	3.600	4 400		
	Cooling	Min ~ Rated ~ Max	W	160	510	1,400		
Power Input	Cooling (T3)	Min ~ Rated ~ Max	W	-	-	-		
	Heating	Min ~ Rated ~ Max	W	160	640	1,600		
	Cooling	Min ~ Rated ~ Max	A	1.30	3.10	6.00		
Running Current		Min ~ Rated ~ Max	A	-	-	-		
	Heating	Min ~ Rated ~ Max	A	1.30	3.20	7.00		
			WW		4.90			
EER	ER		(Btu/h)/W		16.74			
			(kJ/h)/W		-			
EER (T3)			WW (Btu/h)/W		-			
. ,					-			
SEER					9.7			
			WW		5.00			
COP		(Btu/h)/W		17.07				
			(kJ/h)/W		-			
SCOP			-		5.1			
P design C / P de			kW		2.5/2.8			
Energy Label Gra		Cooling / Heating	-		A+++ / A+++			
Annual Energy C	Consumption	Cooling / Heating	kWh/year		90 / 769			
Weighted EER			(Btu/h)/W		-			
			WW		-			
Power Supply			Ø, V, Hz		1, 220 ~ 240, 50			
Available Voltag	je Range		V		187 ~ 276			
Power Factor		Cooling / Heating	%		97.0/97.0			
Moisture Remova	al	·	l/h		1.15			
	Air Flow Rate	Cooling, SH/H/M/L	m³/min		13.6 / 10.5 / 8.1 / 5.7	7		
	All Flow Rate	Heating, SH/H/M/L	m³/min		14.2 / 10.5 / 8.1 / 5.7	7		
	Sound Pressure Level	Cooling, SH/H/M/L/SL	dB(A)		47 / 40 / 35 / 27 / 19)		
	Sound Pressure Level	Heating, SH/H/M/L	dB(A)		48/40/35/27			
la de es	Sound Power Level		dB(A)		60			
Indoor		Net	mm	895 x 307 x 235				
	Dimensions (W × H × D)	Shipping	mm	967 x 383 x 296				
		Net	kg		12.6			
	Weight	Shipping	kq	15.5				
	Exterior Color Code	empping	-	Mur	sell 7.5P 9/2 (RAL 9	003)		
	Air Flow Rate	Max	m³/min		35.0	,		
		Cooling, Min ~ Max	rpm	1	200~840			
	Fan Motor Speed	Heating, Min ~ Max	rpm		400 ~ 800			
		Cooling, Rated	dB(A)		400 000			
	Sound Pressure Level	Heating, Rated	dB(A)	51				
	Sound Power Level	. Journy, natod	dB(A)		65			
		Net	mm		770 x 545 x 288			
Outdoor	Dimensions (W × H × D)	Shipping	mm		919 x 599 x 392			
Catalooi	· /			l				
				29.9				
	Weight	Net	kg ka					
	•	Shipping	kĝ		32			
	Max. Fuse Size			Muncell	32 15	AL 9001)		
	•	Shipping	kĝ A -	Munsell	32 15 9.54Y 8.34/1.31 (R4	AL 9001)		
	Max. Fuse Size Exterior Color Code	Shipping Cooling	kg A - *C DB	Munsell	32 15 9.54Y 8.34/1.31 (R⁄ -15 ~ 48	AL 9001)		
	Max. Fuse Size	Shipping Cooling Heating	kg A - ℃DB ℃DB	Munæll	32 15 9.54Y 8.34/1.31 (R4 -15 ~ 48 -15 ~ 24	AL 9001)		
Qimuit Breaker	Max. Fuse Size Exterior Color Code	Shipping Cooling	kg A · CDB ·CDB ·CDB ·CVB	Munsell	32 15 9.54Y 8.34/1.31 (R⁄ -15~48 -15~24 -15~18	AL 9001)		
	Max. Fuse Size Exterior Color Code Operation Range	Shipping Cooling Heating	kg A - ℃DB ℃DB	Munsell	32 15 9.54Y 8.34/1.31 (R/ -15 ~ 48 -15 ~ 24 -15 ~ 18 15	AL 9001)		
Power Supply to	Max. Fuse Size Exterior Color Code Operation Range Unit	Shipping Cooling Heating	kg A CDB CDB CDB CWB A -	Munæll	32 15 9.54Y 8.34/1.31 (R ² -15 ~ 48 -15 ~ 24 -15 ~ 18 15 Outdoor	AL 9001)		
Power Supply to	Max. Fuse Size Exterior Color Code Operation Range Unit nunication Cable	Shipping Cooling Heating Heating	kg A °CDB °CDB °CWB A A - No. × mm²	Munsell	32 15 9.54Y 8.34/1.31 (R/ -15 ~ 48 -15 ~ 24 -15 ~ 18 15 Outdoor 4 x 1	AL 9001)		
Power Supply to Power and Comn	Max. Fuse Size Exterior Color Code Operation Range Unit	Shipping Cooling Heating Heating Liquid	kg A CDB CDB CDB CDB CWB A A - No. × mm ² mm	Munœll	32 15 9.54Y 8.34/1.31 (R⁄ -15 ~ 48 -15 ~ 24 -15 ~ 18 15 Outdoor 4 x 1 \$\$6.35\$	AL 9001)		
Power Supply to Power and Comn	Max. Fuse Size Exterior Color Code Operation Range Unit nunication Cable Size	Shipping Cooling Heating Heating Liquid Gas	kg A ℃DB ℃DB ℃DB ℃WB A A · · · · · · · · · · · · · · · · ·	Munæll	32 15 9.54Y 8.34/1.31 (R ² -15 ~ 48 -15 ~ 24 -15 ~ 18 15 Outdoor 4 x 1 \$\$ 0.35 \$	AL 9001)		
Power Supply to Power and Comn Piping	Max. Fuse Size Exterior Color Code Operation Range Unit nunication Cable	Shipping Cooling Heating Heating Liquid Gas Indoor / Outdoor	kg A CDB CDB CDB CWB A A - No. × mm ² mm mm	Munsell	32 15 9.54Y 8.34/1.31 (R/ -15 ~ 48 -15 ~ 24 -15 ~ 18 15 Outdoor 4 x 1 \$\overline{0.35}\$ \$0.	NL 9001)		
Power and Comn Piping	Max. Fuse Size Exterior Color Code Operation Range Unit nunication Cable Size Connections Method	Shipping Cooling Heating Heating Liquid Gas Indoor / Outdoor O.D, I.D	kg A CDB CDB CDB CWB A A - No. × mm ² mm mm - mm	Munsell	32 15 9.54Y 8.34/1.31 (R/ -15~48 -15~24 -15~18 0utdoor 4 x 1 \$ 0.6.35 \$ 9.52 Flared / Flared 21.5,16	AL 9001)		
Power Supply to Power and Comm Piping Drain Hose Size	Max. Fuse Size Exterior Color Code Operation Range Unit nunication Cable Size	Shipping Cooling Heating Heating Liquid Gas Indoor / Outdoor O.D, I.D Min / Standard / Max	kg A CDB CDB CDB CDB CDB CWB A - No. × mm ² mm mm - mm mm mm mm	Munœll	32 15 9.54Y 8.34/1.31 (R ² -15 ~ 48 -15 ~ 24 -15 ~ 18 15 Outdoor 4 x 1 \$\overline 6.35 \$\overline 9.52\$ Flared / Flared 21.5,16 3 / 7.5 / 20	AL 9001)		
Power Supply to	Max. Fuse Size Exterior Color Code Operation Range Unit nunication Cable Size Connections Method	Shipping Cooling Heating Heating Liquid Gas Indoor / Outdoor O.D, I.D Min / Standard / Max No Charge	kg A CDB CDB CDB CWB A A - No. × mm ² mm mm - mm	Munsell	32 15 9.54Y 8.34/1.31 (R/ -15~48 -15~24 -15~18 0utdoor 4 x 1 \$ 0.6.35 \$ 9.52 Flared / Flared 21.5,16	AL 9001)		

Note • - : No Relation

All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
Exterior color code is approximate value.
It is difficult to measure air flow rate of sleep because of small values.

• This product contains fluorinated greenhouse gases. Some specifications may be changed without notifications due to our policy

of innovation Test conditions are based on EN 14511 and EN 14825.

It is difficult to measure an nownate of seep because of shall values
Maximum heating capacity is for heating operation without any frost.
Fan motor speed could vary ±20 pm according to the operating conditions.
It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.

Buyer Model				H09S1PA.SS1 (H09S1PA.NS1 / H09S1PA.U18)
Factory Model		Set (Indoor / Outdoor)	Unit	S3-M091L1CA.EC6GEEU (S3NM091L1CA.EC6GEEU / S3UM091L1CA.EC6GEEU)
	Туре		-	R32
	Pre Charge		kg	0.900
Refrigerant	Additional Ch	arge	g/m	20
Reingelan	Control		-	Electronic Expansion Valve
	Global Warmi	ng Potential	-	675
	t-CO₂ eq		-	0.608
Defrost Method			-	Reverse Cycle
Tool Code (Chass	is)	Indoor / Outdoor	-	S1/U18A
	Туре		-	Twin Rotary
Compressor	Model		-	DST128MCA
	Motor Type		-	BLDC
	Oil Type / Ma	ker	-	PVE (FW68D) / IDEMITSU
	Oil Charge		CC	330
	O.L.P. Name		-	-
	Manufacturer	/ Country of Origin	-	LG Electronics / China
Fan (Indoor)	Туре		-	Cross Flow Fan
r an (muoor)	Motor Output		W	30
	Туре	<i>r</i> pe		Propeller Fan
	Motor Type		-	BLDC
Fan (Outdoor)	Motor Output		W	43
	Motor Insulati		-	Class E
	Motor Enclos	re / Ingress Protection	-	TEAO / IPX4
		Material, Tube / Fin	-	Cu / Al
		(ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 3 x 16 x 21 x 686.6) x 1
		(ø x Row x Column x FPI x L) x Qty.	#2	-
	Evaporator	(ø x Row x Column x FPI x L) x Qty.	#3	-
		(ø x Row x Column x FPI x L) x Qty.	#4	-
Heat Exchanger		Corrosion Protection	-	PCM
i leat Lituriariyer		Fin Type	-	Slit
		Material, Tube / Fin	-	Cu / Al
		(ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 2 x 24 x 18 x 814) x 1
	Condenser	(ø x Row x Column x FPI x L) x Qty.	#2	-
		Corrosion Protection	-	Gold
	Fin Type		-	Corrugate

Note
- : No Relation
All power supply and communication cables and circuit breaker must comply with applicable local and national codes.

· Exterior color code is approximate value.

Extenor color code is approximate value.
It is difficult to measure air flow rate of sleep because of small values.
Maximum heating capacity is for heating operation without any frost.
Fan motor speed could vary ±20 rpm according to the operating conditions.
It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.

 This product contains fluorinated greenhouse gases
 Some specifications may be changed without notifications due to our policy of innovation.

• Test conditions are based on EN 14511 and EN 14825.

Buyer Model				H12S1PA.SS	61 (H12S1PA.NS1 / H	12S1PA.U18)			
Factory Model	Set	(Indoor / Outdoor)	Unit	S3-M121L1CA.E S3	C6GEEU (S3NM121 UM121L1CA.EC6GE	L1CA.EC6GEEU / EU)			
			kW	0.890	3.500	4.350			
	Cooling	Min ~ Rated ~ Max	Btu/h	3,038	11,950	14,852			
			kJ/h	-	-	-			
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-			
Capacity	cooning (13)	WITT - Naleu - Wax	Btu/h	-	-	-			
			kW	0.650	4.000	6.000			
	Heating	Min ~ Rated ~ Max	Btu/h	2,219	13,657	20,486			
	5		kJ/h	-	-	-			
	Heating -7°C	Max	kW		4.000				
	Cooling	Min ~ Rated ~ Max	Ŵ	160	815	1,500			
Power Input	Cooling (T3)	Min ~ Rated ~ Max	Ŵ	-	-	-			
owerinput	Heating	Min ~ Rated ~ Max	Ŵ	160	850	1,750			
	Cooling	Min ~ Rated ~ Max	A	1.30	3.75	6.50			
Running Current			A	-	-	-			
	Cooling (T3)	Min ~ Rated ~ Max							
	Heating	Min ~ Rated ~ Max	A	1.30	4.00	7.50			
			WW		4.29				
ER			(Btu/h)/W		14.66				
			(kJ/h)/W		-				
EER (T3)			WW		-				
			(Btu/h)/W		-				
SEER			-		9.5				
			WW		4.71				
COP			(Btu/h)/W		16.07				
			(kJ/h)/W		-				
SCOP			(NJ/11)/ VV		5.1				
			- KW						
P design C / P des		Cooling / Losting		l	3.5/2.8				
Energy Label Gra		Cooling / Heating	-		A+++ / A+++				
Annual Energy Co	onsumption	Cooling / Heating	kWh/year		129 / 769				
Neighted EER			(Btu/h)/W		-				
			WW		-				
Power Supply			Ø, V, Hz		1, 220 ~ 240, 50				
Available Voltage Range			V		187~276				
Power Factor		Cooling / Heating	%		97.0/97.0				
Moisture Removal		cooling / heating	l/h		1.30				
NOISULE LIETTOVA		Cooling, SH/H/M/L	m³/min		13.6 / 10.5 / 8.1 / 5.7	,			
	Air Flow Rate	Lipsting SI/I/I/M/L		14.2 / 10.5 / 8.1 / 5.7					
		Heating, SH/H/M/L Cooling, SH/H/M/L/SL	m³/min						
	Sound Pressure Level	Cooling, SH/H/M/L/SL	dB(A)		47 / 40 / 35 / 27 / 19				
		Heating, SH/H/M/L	dB(A)	48 / 40 / 35 / 27					
Indoor	Sound Power Level		dB(A)		60				
indoor	Dimensions (W×H×D)	Net	mm		895 x 307 x 235				
	(W×H×D)	Shipping	mm	967 x 383 x 296					
	14/-:	Net	kg		12.6				
	Weight	Shipping	kg		15.5				
	Exterior Color Code	emphilig	-	Mur	sell 7.5P 9/2 (RAL 9	003)			
	Air Flow Rate	Max	m³/min	TVICI	35.0	000 /			
		Cooling, Min ~ Max	rpm	l	200 ~ 840				
	Fan Motor Speed								
	· ·	Heating, Min ~ Max	rpm	400 ~ 800					
	Sound Pressure Level	Cooling, Rated	dB(A)	49					
		Heating, Rated	dB(A)	51					
	Sound Power Level		dB(A)		65				
	Dimensions (W × H × D)	Net	mm		770 x 545 x 288				
Outdoor	$(VV \times H \times D)$	Shipping	mm		919 x 599 x 392				
	Maight	Net	kg		29.9				
	Weight	Shipping	kq		32				
	Max. Fuse Size	1 · · · · · · · · · · · · · · · · · · ·	Ă	1	15				
	Exterior Color Code		-	Muncell	9.54Y 8.34/1.31 (RA	9001)			
		Cooling	°C DB	The foot	-15~48	/			
	Operation Range	Heating	°C DB		-15~24				
	operation range								
Sumult Dra-lass	1	Heating	°CWB		-15~18				
Circuit Breaker			A		15				
Power Supply to l			-		Outdoor				
Power and Comm	nunication Cable		No. × mm²		4 x 1				
	Sizo	Liquid	mm		ø 6.35				
Piping	Size	Gas	mm		ø 9.52				
	Connections Method	Indoor / Outdoor	-		Flared / Flared				
Drain Hose Size	connociono motino	0.D, 1.D	mm		21.5,16				
	Piping Length	Min / Standard / Max	m		3/7.5/20				
Between Indoor & Outdoor		No Charge	m		12.5				
	Max. Elevation Difference Piping Connection Heat		m		10 oth liquid and gas pip				
			-						

Note • - : No Relation

All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
Exterior color code is approximate value.
It is difficult to measure air flow rate of sleep because of small values.

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of innovation Test conditions are based on EN 14511 and EN 14825.

It is difficult to measure an nownate of seep because of shall values
Maximum heating capacity is for heating operation without any frost.
Fan motor speed could vary ±20 pm according to the operating conditions.
It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.

Buyer Model				H12S1PA.SS1 (H12S1PA.NS1 / H12S1PA.U18)
Factory Model		Set (Indoor / Outdoor)	Unit	S3-M121L1CA.EC6GEEU (S3NM121L1CA.EC6GEEU / S3UM121L1CA.EC6GEEU)
	Туре		-	R32
	Pre Charge		kg	0.900
Refrigerant	Additional Ch	arge	g/m	20
Reingelan	Control		-	Electronic Expansion Valve
	Global Warmi	ng Potential	-	675
	t-CO₂ eq		-	0.608
Defrost Method			-	Reverse Cycle
Tool Code (Chass	is)	Indoor / Outdoor	-	S1/U18A
	Туре		-	Twin Rotary
Compressor	Model		-	DST128MCA
	Motor Type		-	BLDC
	Oil Type / Ma	ker	-	PVE (FW68D) / IDEMITSU
	Oil Charge		CC	330
	O.L.P. Name		-	-
	Manufacturer	/ Country of Origin	-	LG Electronics / China
Fan (Indoor)	Туре		-	Cross Flow Fan
r an (muoor)	Motor Output		W	30
	Туре		-	Propeller Fan
	Motor Type		-	BLDC
Fan (Outdoor)	Motor Output		W	43
	Motor Insulati		-	Class E
	Motor Enclos	re / Ingress Protection	-	TEAO / IPX4
		Material, Tube / Fin	-	Cu / Al
		(ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 3 x 16 x 21 x 686.6) x 1
		(ø x Row x Column x FPI x L) x Qty.	#2	-
	Evaporator	(ø x Row x Column x FPI x L) x Qty.	#3	-
		(ø x Row x Column x FPI x L) x Qty.	#4	-
Heat Exchanger		Corrosion Protection	-	PCM
i leat Lituriariyer		Fin Type	-	Slit
		Material, Tube / Fin	-	Cu / Al
		(ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 2 x 24 x 18 x 814) x 1
	Condenser	(ø x Row x Column x FPI x L) x Qty.	#2	-
		Corrosion Protection	-	Gold
	Fin Type		-	Corrugate

Note
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All power supply and communication cables and circuit breaker must comply with applicable local and national codes.

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Extenor color code is approximate value.
It is difficult to measure air flow rate of sleep because of small values.
Maximum heating capacity is for heating operation without any frost.
Fan motor speed could vary ±20 rpm according to the operating conditions.
It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.

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• Test conditions are based on EN 14511 and EN 14825.

Buyer Model				H09S1DA.SS1 (H09S1DA.NS1 / H09S1DA.U12)				
Factory Model	Set	(Indoor / Outdoor)	Unit	S3-M091A1DA.E S3	C6GEEU (S3NM091A UM091A1DA.EC6GE	A1DA.EC6GEEU EU)		
			kW	0.890	2.500	3.800		
	Cooling	Min ~ Rated ~ Max	Btu/h	3,038	8,536	12,974		
			kJ/h	-	-	-		
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-		
apacity	cooling (13)	WITT ~ Naleu ~ Wax	Btu/h	-	-	3.800 12,974 - - 4.900 16,730 - 1,260 - 1,450 5.50 - 6.30 - - -		
			kW	0.650	3.200	4.900		
	Heating	Min ~ Rated ~ Max	Btu/h	2,219	10,926	16.730		
	5		kJ/h	-	-	,		
	Heating -7°C	Max	kW		3.300			
	Cooling	Min ~ Rated ~ Max	Ŵ	180	555	1 260		
ower Input	Cooling (T3)	Min ~ Rated ~ Max	Ŵ	-	-	,		
ower input	Heating	Min ~ Rated ~ Max	Ŵ	180	700			
	Cooling	Min ~ Rated ~ Max	A	1.50	2.60			
unning Current		Min ~ Rated ~ Max	A	-	-			
	Heating	Min ~ Rated ~ Max	A	1.50	3.20	6.30		
			WW		4.50			
ER			(Btu/h)/W		15.38			
			(kJ/h)/W		-			
			WW		-			
ER(T3)			(Btu/h)/W	1	-			
EER			-		8.7			
			ŴŴ		4.57			
COP								
			(Btu/h)/W		15.61			
000			(kJ/h)/W		-			
COP			-		4.6			
° design C / P de			kW		2.5 / 2.8			
nergy Label Gra	ade	Cooling / Heating	-		A+++ / A++			
Annual Energy C	Consumption	Cooling / Heating	kWh/year		101 / 852			
07			(Btu/h)/W		-			
Veighted EER			WW		-			
Power Supply			Ø, V, Hz		1, 220 ~ 240, 50			
	o Dengo							
Available Voltage Range			V		187~276			
Power Factor		Cooling / Heating	%		97.0/97.0			
Moisture Remova			l/h		1.15	-		
	Air Flow Rate	Cooling, SH/H/M/L	m³/min		13.6 / 10.5 / 8.1 / 5.7			
	AITTOWINAte	Heating, SH / H / M / L	m³/min		14.2 / 10.5 / 8.1 / 5.7	,		
		Cooling, SH/H/M/L/SL	dB(A)		47 / 40 / 35 / 27 / 19			
	Sound Pressure Level	Heating, SH/H/M/L	dB(A)		48/40/35/27			
	Sound Power Level	rioating, en rivin E	dB(A)		60			
ndoor		Net	mm		895 x 307 x 235			
	Dimensions Net (W × H × D) Shipping		mm	967 x 383 x 296				
	(((((((((((((((((((((((((((((((((((((((
	Weight	Net	kg		11			
	•	Shipping	kg		13.5			
	Exterior Color Code		-	Mun	sell 7.5P 9/2 (RAL 9	003)		
	Air Flow Rate	Max	m³/min		27.0			
	Ean Motor Speed	Cooling, Min ~ Max	rpm		200 ~ 1000			
	Fan Motor Speed	Heating, Min ~ Max	rpm		500~1000			
	On and Data data	Cooling, Rated	dB(A)		49			
	Sound Pressure Level	Heating, Rated	dB(A)	51				
	Sound Power Level	. Journy, Facod	dB(A)		65			
		Net			717 x 495 x 230			
). utolo o u	Dimensions (W × H × D)		mm					
Dutdoor		Shipping	mm		836 x 540 x 321			
	Weight	Net	kg		25.1			
	Ŭ.	Shipping	kg		27.2			
	Max. Fuse Size		A		15			
	Exterior Color Code		-	Munæll	9.54Y 8.34/1.31 (RA	L 9001)		
		Cooling	°C DB		-15 ~ 48			
	Operation Range	Heating	°C DB		-15 ~ 24			
	· ř	Heating	°CWB		-15 ~ 18			
ircuit Breaker			A	1	15			
Power Supply to	Unit		-		Outdoor			
	nunication Cable		No. × mm ²		4 x 1			
		Liquid						
N	Size	Liquid	mm		ø 6.35			
Piping		Gas	mm		ø 9.52			
	Connections Method	Indoor / Outdoor	-		Flared / Flared			
Drain Hose Size		O.D, I.D	mm		21.5,16			
	Dining Longth	Min / Standard / Max	m		3 / 7.5 / 20			
	Piping Length	No Charge	m		12.5			
setween indoor								
Between Indoor	Max. Elevation Difference	2	m		10			

Note • - : No Relation

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Buyer Model				H09S1DA.SS1 (H09S1DA.NS1 / H09S1DA.U12)		
Factory Model		Set (Indoor / Outdoor)	Unit	S3-M091A1DA.EC6GEEU (S3NM091A1DA.EC6GEEU / S3UM091A1DA.EC6GEEU)		
	Туре		-	R32		
	Pre Charge		kg	0.800		
Refrigerant	Additional Ch	arge	g/m	20		
	Control		-	Electronic Expansion Valve		
	Global Warmi	ing Potential	-	675		
	t-CO₂ eq		-	0.540		
Defrost Method			-	Reverse Cycle		
Tool Code (Chass	is)	Indoor / Outdoor	-	S1/U12A		
	Туре		-	Twin Rotary		
Compressor	Model		-	DST128MCA		
	Motor Type		-	BLDC		
	Oil Type / Ma	ker	-	PVE (FW68D) / IDEMITSU		
	Oil Charge		CC	330		
	O.L.P. Name		-	-		
	Manufacturer	/ Country of Origin	-	LG Electronics/ China		
Fan (Indoor)	Type		-	Cross Flow Fan		
Fan (indoor)	Motor Output		W	30		
	Туре		-	Propeller Fan		
	Motor Type		-	BLDC		
Fan (Outdoor)	Motor Output		W	43		
. ,	Motor Insulati		-	ClassE		
	Motor Enclos	ure / Ingress Protection	-	TEAO / IPX4		
		Material, Tube / Fin	-	Cu / Al		
		(ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 2 x 16 x 21 x 686.6) x 1		
		(ø x Row x Column x FPI x L) x Qty. (ø x Row x Column x FPI x L) x Qty.	#2	-		
	Evaporator	(ø x Row x Column x FPI x L) x Qty.	#3	-		
		(ø x Row x Column x FPI x L) x Qty.	#4	-		
Heat Exchanger		Corrosion Protection	-	PCM		
neal Exchanger		Fin Type	-	Slit		
		Material, Tube / Fin	-	Cu / Al		
		(ø x Row x Column x FPI x L) x Qty. (ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 2 x 22 x 18 x 667) x 1		
	Condenser	(ø x Row x Column x FPI x L) x Qty.	#2			
		Corrosion Protection	-	Gold		
		Fin Type	-	Corrugate		

Note
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All power supply and communication cables and circuit breaker must comply with applicable local and national codes.

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• Test conditions are based on EN 14511 and EN 14825.

Buyer Model				H12S1DA.SS	61 (H12S1DA.NS1 / H	12S1DA.U12)
Factory Model	Set	(Indoor / Outdoor)	Unit	S3-M121A1DA.E S3	C6GEEU (S3NM121A UM121A1DA.EC6GE	A1DA.EC6GEEU / EU)
			kW	0.890	3.500	4.200
	Cooling	Min ~ Rated ~ Max	Btu/h	3,038	11,950	14,340
			kJ/h	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-
Capacity	Cooling (13)	WITT - Maleu - Widx	Btu/h	-	-	-
			kW	0.650	4.000	5.400
	Heating	Min ~ Rated ~ Max	Btu/h	2,219	13,657	18,437
	0		kJ/h	-	-	-
	Heating -7°C	Max	kW		3.600	
	Cooling	Min ~ Rated ~ Max	Ŵ	180	890	1.400
Power Input	Cooling (T3)	Min ~ Rated ~ Max	Ŵ	-	-	-
onor input	Heating	Min ~ Rated ~ Max	Ŵ	180	920	1,600
	Cooling	Min ~ Rated ~ Max	Ă	1.50	4.10	6.10
Running Current	Cooling (T3)	Min ~ Rated ~ Max	A	-	-	-
winning current	Heating	Min ~ Rated ~ Max	Â	1.50	4.25	7.00
	Tieating	WITT - Haleu - Widx	ŴŴ	1.50	3.93	1.00
EER			(Btu/h)/W		13.43	
			(kJ/h)/W		-	
EER (T3)			WW		-	
. ,			(Btu/h)/W		-	
SEER			-		8.5	
			WW		4.35	
COP			(Btu/h)/W		14.85	
			(kJ/h)/W		-	
SCOP			-		4.6	
P design C / P de	sian H		kW		3.5 / 2.8	
Energy Label Gra		Cooling / Heating	-		A+++ / A++	
Annual Energy Co		Cooling / Heating	kWh/year		144 / 852	
	ondamption	cooling / ribding	(Btu/h)/W		-	
Weighted EER			WW		-	
Power Supply			Ø, V, Hz	1, 220 ~ 240, 50		
	Danaa		V, V, NZ	187~276		
Available Voltage	e range	Cooling / Leating		97.0/97.0		
Power Factor	1	Cooling / Heating	%			
Moisture Remova			l/h		1.30	
	Air Flow Rate	Cooling, SH/H/M/L	m³/min		13.6 / 10.5 / 8.1 / 5.7	
		Heating, SH/H/M/L Cooling, SH/H/M/L/SL	m³/min		14.2/10.5/8.1/5.7	
	Sound Pressure Level	Cooling, SH/H/M/L/SL	dB(A)		47 / 40 / 35 / 27 / 19	
		Heating, SH/H/M/L	dB(A)		48 / 40 / 35 / 27	
Indoor	Sound Power Level		dB(A)		60	
indooi	Dimensions (W × H × D)	Net	mm		895 x 307 x 235	
	(W×H×D)	Shipping	mm		967 x 383 x 296	
	144:	Net	kg		11	
	Weight	Shipping	kg		13.5	
	Exterior Color Code		-	Mur	sell 7.5P 9/2 (RAL 90	003)
	Air Flow Rate	Max	m³/min		27.0	,
		Cooling, Min ~ Max	rpm		200 ~ 1000	
	Fan Motor Speed	Heating, Min ~ Max	rpm		500 ~ 1000	
		Cooling, Rated	dB(A)	ł	49	
	Sound Pressure Level					
	Sound Dourse Lough	Heating, Rated	dB(A)		51	
	Sound Power Level	Net	dB(A)		65 717 x 405 x 220	
0.44	Dimensions (W × H × D)	Net	mm		717 x 495 x 230	
Outdoor		Shipping	mm		836 x 540 x 321	
	Weight	Net	kg		25.1	
		Shipping	kg	27.2		
	Max. Fuse Size		A		15	
	Exterior Color Code		-	Munsell	9.54Y 8.34/1.31 (RA	L 9001)
		Cooling	°C DB		-15 ~ 48	
	Operation Range	Heating	°C DB		-15 ~ 24	
		Heating	°CWB		-15 ~ 18	
Circuit Breaker	•	. v	A		15	
Power Supply to I	Unit		-	1	Outdoor	
Power and Comm			No. × mm²		4 x 1	
		Liquid	mm		ø 6.35	
Piping	Size	Gas			ø 9.52	
inhing	Connections Method		mm			
Drain Llar- O'-	Connections Method	Indoor / Outdoor	-		Flared / Flared	
Drain Hose Size	•	0.D, I.D	mm		21.5,16	
	Piping Length	Min / Standard / Max	m		3 / 7.5 / 20	
Between Indoor & Outdoor		No Charge	m		12.5	
& Uutdoor	Max. Elevation Difference Piping Connection Heat		m		10	
			-		oth liquid and gas pip	

Note • - : No Relation

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Test conditions are based on EN 14511 and EN 14825.

Buyer Model				H12S1DA.SS1 (H12S1DA.NS1 / H12S1DA.U12)
Factory Model		Set (Indoor / Outdoor)	Unit	S3-M121A1DA.EC6GEEU (S3NM121A1DA.EC6GEEU / S3UM121A1DA.EC6GEEU)
	Туре		-	R32
	Pre Charge		kg	0.800
Refrigerant	Additional Ch	arge	g/m	20
Reingelan	Control		-	Electronic Expansion Valve
	Global Warmi	ng Potential	-	675
	t-CO₂ eq		-	0.540
Defrost Method			-	Reverse Cycle
Tool Code (Chassi	s)	Indoor / Outdoor	-	S1/U12A
	Туре		-	Twin Rotary
	Model		-	DST128MCA
	Motor Type		-	BLDC
Compressor	Oil Type / Ma	ker	-	PVE (FW68D) / IDEMITSU
-	Oil Charge		00	330
	O.L.P. Name		-	-
	Manufacturer	/ Country of Origin	-	LG Electronics / China
Fan (Indoor)	Type		-	Cross Flow Fan
Fan (indoor)	Motor Output		W	30
	Туре		-	Propeller Fan
	Motor Type		-	BLDC
Fan (Outdoor)	Motor Output		W	43
	Motor Insulation		-	Class E
	Motor Enclosure / Ingress Protection		-	TEAO / IPX4
		Material, Tube / Fin	-	Cu / Al
		(ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 2 x 16 x 21 x 686.6) x 1
		(ø x Row x Column x FPI x L) x Qty.	#2	-
	Evaporator	(ø x Row x Column x FPI x L) x Qty.	#3	-
		(ø x Row x Column x FPI x L) x Qty.	#4	-
Heat Exchanger		Corrosion Protection	-	PCM
neal Exchanger		Fin Type	-	Slit
		Material, Tube / Fin	-	Cu / Al
		(ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 2 x 22 x 18 x 667) x 1
	Condenser	(ø x Row x Column x FPI x L) x Qty.	#2	-
		Corrosion Protection	-	Gold
		Fin Type	-	Corrugate
Noto		Fin Type	-	Corrugate

Note
- : No Relation
All power supply and communication cables and circuit breaker must comply with applicable local and national codes.

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Extenor color code is approximate value.
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Maximum heating capacity is for heating operation without any frost.
Fan motor speed could vary ±20 rpm according to the operating conditions.
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• Test conditions are based on EN 14511 and EN 14825.

Buyer Model				H18S1DA SS	1 (H18S1DA.NS1 / H	18S1DA.U18)
Factory Model	Set	(Indoor / Outdoor)	Unit	S3-M181L1DA.E S3	C6GEEU (S3NM181L UM181L1DA.EC6GE	
			kW	0.900	5.000	5.500
	Cooling	Min ~ Rated ~ Max	Btu/h	3,072	17,072	18,779
	_		kJ/h	-	-	-
	Cooling (T2)	Min ~ Rated ~ Max	kW	-	-	-
Capacity	Cooling (T3)	Will ~ Raleu ~ Wax	Btu/h	-	-	-
			kW	0.900	5.800	6.400
	Heating	Min ~ Rated ~ Max	Btu/h	3,072	19,803	21,852
	5		kJ/h	-	-	-
	Heating -7°C	Max	kW		4.650	
	Cooling	Min ~ Rated ~ Max	Ŵ	210	1,545	1,940
Power Input	Cooling (T3)	Min ~ Rated ~ Max	Ŵ	-	-	-
i onoi input	Heating	Min ~ Rated ~ Max	Ŵ	210	1,560	2.000
	Cooling	Min ~ Rated ~ Max	A	1.60	6.90	9.00
Running Current		Min ~ Rated ~ Max	Â	1.00	-	3.00
Running Guneric	Heating	Min ~ Rated ~ Max	A	1.60	7.00	9.50
	neaung	IVIIII ~ Raleu ~ Iviax	ŴŴ	1.00		9.00
					3.24	
EER			(Btu/h)/W		11.05	
			(kJ/h)/W		-	
EER (T3)			WW		-	
			(Btu/h)/W		-	
SEER			-		7	
			WW		3.72	
COP			(Btu/h)/W		12.70	
			(kJ/h)/W		-	
SCOP			-		4.3	
P design C / P d	esign H		kW		5/3.9	
Energy Label Gr		Cooling / Heating	-		A++ / A+	
Annual Energy (Cooling / Heating	kWh/year		250 / 1270	
		econing / noaning	(Btu/h)/W		-	
Weighted EER			WW		-	
Power Supply			Ø, V, Hz	1, 220 ~ 240, 50		
Available Voltac	no Pango		V V		187~276	
Power Factor	gervange	Cooling / Heating	%	97.0 / 97.0		
		Country / neating	l/h		1.80	
Moisture Remov	a	Cooling CLI/LI/M/I				
	Air Flow Rate	Cooling, SH/H/M/L	m³/min		13.6/11.7/9.9/8.1	
		Heating, SH/H/M/L	m³/min		14.2/11.7/9.9/8.1	
	Sound Pressure Level	Cooling, SH/H/M/L/SL	dB(A)		49/44/39/34/29	
		Heating, SH/H/M/L	dB(A)		50 / 44 / 39 / 34	
Indoor	Sound Power Level		dB(A)		60	
	Dimensions (W × H × D)	Net	mm		895 x 307 x 235	
	(VV × H × D)	Shipping	mm		967 x 383 x 296	
	Weight	Net	kg		12.8	
	weight	Shipping	kg		15.2	
	Exterior Color Code		-	Mur	sell 7.5P 9/2 (RAL 9	003)
	Air Flow Rate	Max	m³/min		35.0	,
		Cooling, Min ~ Max	rpm		200~950	
	Fan Motor Speed	Heating, Min ~ Max	rpm		400 ~ 900	
		Cooling, Rated	dB(A)		53	
	Sound Pressure Level	Heating, Rated	dB(A)		55	
	Sound Power Level	r.ouring, recou	dB(A)		65	
		Net	mm		770 x 545 x 288	
Outdoor	Dimensions (W × H × D)	Shipping	mm		919 x 599 x 392	
JULUUUI	· · · ·	Net			<u>34.4</u>	
	Weight		kg			
		Shipping	kg	-	37	
	Max. Fuse Size		A	M	20	0001
	Exterior Color Code	Or alize a	-	Iviunsell	9.54Y 8.34/1.31 (RA	v⊑ 9001)
		Cooling	°C DB		-15~48	
	Operation Range	Heating	°C DB		-15 ~ 24	
		Heating	°CWB		-15~18	
Circuit Breaker			A		20	
Power Supply to			-		Outdoor	
	munication Cable		No. × mm²		4 x 1	
Power and Com	Size	Liquid	mm		ø 6.35	
Power and Com		Gas	mm		ø 12.7	
	Size					
Power and Com			-		Hared / Hared	
Piping	Connections Method	Indoor / Outdoor			Flared / Flared	
	Connections Method	Indoor / Outdoor O.D, I.D	mm		21.5,16	
Piping Drain Hose Size	Connections Method	Indoor / Outdoor O.D, I.D Min / Standard / Max	mm m		21.5,16 3 / 7.5 / 20	
Piping	Connections Method	Indoor / Outdoor O.D, I.D Min / Standard / Max No Charge	mm		21.5,16	

Note • - : No Relation

13

All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
Exterior color code is approximate value.
It is difficult to measure air flow rate of sleep because of small values.

• This product contains fluorinated greenhouse gases. Some specifications may be changed without notifications due to our policy

of innovation Test conditions are based on EN 14511 and EN 14825.

It is difficult to measure an nownate of seep because of shall values
Maximum heating capacity is for heating operation without any frost.
Fan motor speed could vary ±20 pm according to the operating conditions.
It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.

Buyer Model				H18S1DA.SS1 (H18S1DA.NS1 / H18S1DA.U18)
Factory Model		Set (Indoor / Outdoor)	Unit	S3-M181L1DA.EC6GEEU (S3NM181L1DA.EC6GEEU / S3UM181L1DA.EC6GEEU)
	Туре		-	R32
	Pre Charge		kg	1.130
Refrigerant	Additional Ch	arge	g/m	20
neingelan	Control		-	Electronic Expansion Valve
	Global Warmi	ng Potential	-	675
	t-CO₂ eq		-	0.763
Defrost Method			-	Reverse Cycle
Tool Code (Chass	is)	Indoor / Outdoor	-	S1/U18A
	Туре		-	Twin Rotary
	Model		-	DKT156MCA
	Motor Type		-	BLDC
Compressor	Oil Type / Ma	ker	-	PVE (FW68D) / IDEMITSU
	Oil Charge		00	400
	O.L.P. Name		-	-
	Manufacturer	/ Country of Origin	-	LG Electronics / China
Fan (Indoor)	Туре		- W	Cross Flow Fan
r an (inuour)	Motor Output	Motor Output		30
	Туре		-	Propeller Fan
	Motor Type		-	BLDC
Fan (Outdoor)	Motor Output		W	43
	Motor Insulation		-	ClassE
	Motor Enclosure / Ingress Protection		-	TEAO / IPX4
		Material, Tube / Fin	-	Cu / Al
		(ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 3 x 16 x 21 x 686.6) x 1
		(ø x Row x Column x FPI x L) x Qty.	#2	-
	Evaporator	(ø x Row x Column x FPI x L) x Qty.	#3	-
	-	(ø x Row x Column x FPI x L) x Qty.	#4	-
Heat Exchanger		Corrosion Protection	-	PCM
i leat Lituriariyer		Fin Type	-	Slit
		Material, Tube / Fin	-	Cu / Al
		(ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 2 x 24 x 18 x 814) x 1
	Condenser	(ø x Row x Column x FPI x L) x Qty.	#2	-
		Corrosion Protection	-	Gold
		Fin Type		Corrugate

Note
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All power supply and communication cables and circuit breaker must comply with applicable local and national codes.

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Extenor color code is approximate value.
It is difficult to measure air flow rate of sleep because of small values.
Maximum heating capacity is for heating operation without any frost.
Fan motor speed could vary ±20 rpm according to the operating conditions.
It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.

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• Test conditions are based on EN 14511 and EN 14825.

Buyer Model				H24S1DA.SS	61 (H24S1DA.NS1 / H	24S1DA.U24)
Factory Model	Set	(Indoor / Outdoor)	Unit	S3-M24121DA.E S3	EC6GEEU (S3NM2412 SUM24121DA.EC6GE	21DA.EC6GEEU / EU)
			kW	0.900	6.600	7.420
	Cooling	Min ~ Rated ~ Max	Btu/h	3,072	22,535	25,335
			kJ/h	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-
Capacity	cooling (10)	WITT HOLEG WAX	Btu/h	-	-	-
			kW	0.900	7.500	8.640
	Heating	Min ~ Rated ~ Max	Btu/h	3,072	25,608	29,500
	5		kJ/h	-	-	-
	Heating -7°C	Max	kW		6.000	
	Cooling	Min ~ Rated ~ Max	Ŵ	210	2,164	2,500
Power Input	Cooling (T3)	Min ~ Rated ~ Max	Ŵ	-	-	_,000
onormput	Heating	Min ~ Rated ~ Max	Ŵ	210	2,238	2,750
	Cooling	Min ~ Rated ~ Max	Ă	1.60	9.80	14.00
Running Current	Cooling (T3)	Min ~ Rated ~ Max	A	-	-	-
	Heating	Min ~ Rated ~ Max	A	1.60	10.00	14.00
	Healing	IVIIII ~ Raleu ~ IVIAX		1.00		14.00
			WW (Dtu/b)AA		3.05	
EER			(Btu/h)/W		10.41	
			(kJ/h)/W		-	
EER (T3)			WW		-	
. ,			(Btu/h)/W		-	
SEER			-		6.9	
			WW		3.35	
COP			(Btu/h)/W		11.44	
•			(kJ/h)/W	-	-	
SCOP			-		4.3	
P design C / P de	dan H		kW		6.6/5	
Energy Label Gra		Cooling / Hosting				
		Cooling / Heating	-		A++ / A+	
Annual Energy Co	onsumption	Cooling / Heating	kWh/year		335 / 1626	
Neighted EER			(Btu/h)/W		-	
8			WW		-	
Power Supply			Ø, V, Hz	1, 220 ~ 240, 50		
Available Voltage	e Range		V	187 ~ 276		
Power Factor		Cooling / Heating	%	97.0 / 97.0		
Moisture Remova			l/h		2.50	
		Cooling, SH/H/M/L	m³/min		14.6 / 12.3 / 10.1 / 7.3	3
	Air Flow Rate	Heating SH/H/M/I	m³/min		14.6 / 12.3 / 10.1 / 7.	
		Heating, SH/H/M/L Cooling, SH/H/M/L/SL	dB(A)		51 / 47 / 42 / 34 / 31	
	Sound Pressure Level	Heating, SH/H/M/L	dB(A)		51/47/42/34	
	Coursed Desurer Louis	nealing, Sn/ n/ Wi/ L			65	
Indoor	Sound Power Level	NI-4	dB(A)			
	Dimensions (W × H × D)	Net	mm		895 x 307 x 235	
	(W ^ 11 ^ D)	Shipping	mm		967 x 383 x 296	
	Weight	Net	kg		12.8	
		Shipping	kg		15.2	
	Exterior Color Code		-	Mur	nsell 7.5P 9/2 (RAL 9	003)
	Air Flow Rate	Max	m³/min		49.0	
	Fon Motor Spood	Cooling, Min ~ Max	rpm		190 ~ 900	
	Fan Motor Speed	Heating, Min ~ Max	rpm		190 ~ 850	
	On and Dec.	Cooling, Rated	dB(A)		54	
	Sound Pressure Level Heating, Rated		dB(A)		57	
	Sound Power Level		dB(A)		70	
		Net			870 x 650 x 330	
Outdoor	Dimensions (W × H × D)		mm			
JULUUUI		Shipping	mm		1026 x 683 x 446	
	Weight	Net	kg		44	
		Shipping	kg		47	
	Max. Fuse Size		A		20	
	Exterior Color Code		-	Munsell	9.54Y 8.34/1.31 (R4	AL 9001)
		Cooling	°C DB		-15 ~ 48	
	Operation Range	Heating	°C DB		-15 ~ 24	
	-	Heating	°CWB		-15 ~ 18	
Circuit Breaker	-	· · · · ·	A		25	
Power Supply to I	Unit		-		Outdoor	
Power and Comm			No. × mm²		4 x 1	
		Liquid	mm		ø 6.35	
Piping	Size	Gas	mm		ø 15.88	
iping	Connections Mothed					
Desire Lie - O'	Connections Method	Indoor / Outdoor	-	L	Flared / Flared	
Drain Hose Size	-	0.D, 1.D	mm		21.5,16	
	Piping Length	Min / Standard / Max	m		3 / 7.5 / 30	
Between Indoor & Outdoor		No Charge	m		7.5	
& Outdoor	Max. Elevation Difference		m		15	
	Piping Connection Heat		-	_	oth liquid and gas pip	

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Test conditions are based on EN 14511 and EN 14825.

Buyer Model				H24S1DA.SS1 (H24S1DA.NS1 / H24S1DA.U24)
Factory Model		Set (Indoor / Outdoor)	Unit	S3-M24121DA.EC6GEEU (S3NM24121DA.EC6GEEU / S3UM24121DA.EC6GEEU)
	Туре		-	R32
	Pre Charge		kg	1.150
Refrigerant	Additional Ch	harge	g/m	20
neingelan	Control		-	Electronic Expansion Valve
	Global Warmi	ing Potential	-	675
	t-CO₂ eq		-	0.776
Defrost Method			-	Reverse Cycle
Tool Code (Chass	is)	Indoor / Outdoor	-	S1/ U24A
	Туре		-	Twin Rotary
	Model		-	DKT176MAJ
	Motor Type		-	BLDC
Compressor	Oil Type / Ma	aker	-	PVE (FW68D) / IDEMITSU
		Oil Charge		470
	O.L.P. Name		-	-
	Manufacturer / Country of Origin		-	LG Electronics/ China
Fan (Indoor)	Type		-	Cross Flow Fan
Fan (muuur)	Motor Output		W	30
	Туре		-	Propeller Fan
	Motor Type		-	BLDC
Fan (Outdoor)	Motor Output		W	85
		Motor Insulation		ClassE
	Motor Enclosure / Ingress Protection		-	TEAO / IPX4
		Material, Tube / Fin	-	Cu / Al
		(ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 3 x 16 x 21 x 686.6) x 1
		(ø x Row x Column x FPI x L) x Qty.	#2	-
	Evaporator	(ø x Row x Column x FPI x L) x Qty.	#3	-
		(ø x Row x Column x FPI x L) x Qty.	#4	-
Heat Exchanger		Corrosion Protection	-	PCM
		Fin Type	-	Slit
		Material, Tube / Fin	-	Cu / Al
		(ø x Row x Column x FPI x L) x Qty. (ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 2 x 28 x 18 x 938) x 1
	Condenser	(ø x Row x Column x FPI x L) x Qty.	#2	-
		Corrosion Protection	-	Gold
		Fin Type	-	Corrugate

Note
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Category	Function	Description
	Air Supply Outlet	The number of air outlet from the indoor unit
	Airflow Direction Control (Left & Right)	Controlling a left-right direction of the indoor air flow
	Airflow Direction Control (Up & Down)	Controlling a up-down direction of the indoor air flow
	Auto Swing (Left & Right)	Auto swing air flow right and left for quick-cooling & Heating
	Auto Swing (Up & Down)	Auto swing air flow up and down for quick-cooling & Heating
Air Flow	Fan Speed Steps (Fan / Cool / Heat)	Step adjustable wind strength at each mode
AITTIOW		
	Natural Wind (Auto Wind)	Wind strength changes at regular intervals automatically
	Jet Cool / Jet Heat (Power Wind)	Wind strength is set to the maximum for 30 minutes
	Comfort Air	Set the vane to a preset position in order to make an indirect wind
	Soft Air	Stay comfortably cool with no chilly drafts.
	Vane Type	Type of vane that changes the direction of the airflow up and down
	Prefilter (Washable)	Capture dust particles over 10µm in size(Basic Filter)
	Fine Dust Filter(Micro Dust Filter)	Capture dust particles over 0.3µm in size(Optional Filter)
	Ultra Fine Dust Filter(Ion Diffuser)	Capture dust particles over 1.0µm in size(Optional Filter+Ion Diffuser)
Air Purifying		Capture all allergy-causing substances such as house dust and mites floating
, , ,	Allergy Filter	in the air
	Plasmaster Ionizer	Reduce harmful microscopic particles and odor
Installation		Water drain pump for indoor unit
motarration	Hot Start	In the heating mode, the hot wind from the beginning
Reliability	Self Diagnosis	Self-diagnostic for product protection
Renability	De-ice Control (Defrost)	In the heating mode, de-icing of the outdoor heat exchanger automatically
	Dry (Dehumidification) Operation	Prevent the growth of mold by removing excess moisture from an area with
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	high humidify
	Auto Changeover	Change the operation mode(cooling & heating) automatically to maintain the set temperature
1	•	The fan and setting temperature adjust automatically, base on room
1	Auto Operation (Artificial Intelligence)	temperature
1	Auto Cleaning (Coil Dry)	Prevent the formation of bacteria and mold on the heat exchanger
	Auto Restart Operation	If power is resupplied after blackout, product restart automatically
	Child Lock 1	Only for wired-remote controller. Lock the buttons to prevent children control
	Forced Operation	Use the forced switch of the indoor unit to operate the air conditioner when the remote control is unavailable
		Only for wired-remote controller. Control multiple indoor units at the same
	Group Control ¹	time
	Ola an Mada	Set the off timer and fan speed is decreasing to make quiet environment for
	Sleep Mode	comfort sleep
	Timer 24hr (On/Off) / 7hr (Off)	Set the on/off timer
	Timer (Weekly) 1	Only for wired-remote controller. Set the on/off timer
		If there is a temperature difference between room temperature and desired
	Two Thermistor Control ¹	If there is a temperature difference between room temperature and desired temperature, you can use this function in other to prevent insufficient cooling and insufficient heating
· ·		cooling and insufficient heating
Convenience	Low Ambient Operation	The cooling operation is possible even in conditions of extreme cold
	Overheating Protection	If there is a temperature difference between room temperature and desired
	overheating i lotection	temperature, you can use this function in other to prevent over-heating
	Low Heating	Using less energy helps keep the room warm when going out
	Voice Control	Customer can control the aircon by voice without wireless remote controller
	Outdoor Silent Mode	The overall sound level of the outdoor unit drops by up to 3dB
		An ultrasonic sound that mosquitoes detest is emitted to drives away
	Mosquito Away	mosquitoes
		Check the your AC's operational information for quick convice and calf
1	Smart Diagnosis	check the your AC's operational information for quick-service and sen-
	Smart Diagnosis	Check the your AC's operational information for quick-service and self- diagnosis by sound from indoor unit
	Indoor Unit Display Type	-
		- Set the brightness of the display on the indoor unit
	Indoor Unit Display Type	Set the brightness of the display on the indoor unit
	Indoor Unit Display Type Indoor Unit Display Light Energy Display	Set the brightness of the display on the indoor unit
	Indoor Unit Display Type Indoor Unit Display Light	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver
	Indoor Unit Display Type Indoor Unit Display Light Energy Display	Set the brightness of the display on the indoor unit
	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings.
	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants.
	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically.
	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy
	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save
_	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy
	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy
Energy	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving Energy Control	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy In areas where electricity is limited, customer can continue to use household appliances with the air-conditioner by reducing power consumption
Energy Saving	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving Energy Control Gen Mode	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy In areas where electricity is limited, customer can continue to use household appliances with the air conditioner by reducing power consumption kW Manager' is a function that limits the operation of the air conditioner according to
Energy Saving	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving Energy Control	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy In areas where electricity is limited, customer can continue to use household appliances with the air-conditioner by reducing power consumption
Energy Saving	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving Energy Control Gen Mode kW Manager	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy In areas where electricity is limited, customer can continue to use household appliances with the air conditioner by reducing power consumption kW Manager' is a function that limits the operation of the air conditioner according to
Energy Saving	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving Energy Saving Energy Control Gen Mode kW Manager Wired Remote Controller ²	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy In areas where electricity is limited, customer can continue to use household appliances with the air conditioner by reducing power consumption kW Manager' is a function that limits the operation of the air conditioner according to the target amount of electricity for a certain period of time set by the customer.
Energy Saving	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving Energy Control Gen Mode kW Manager Wired Remote Controller ² Handheld Wireless Controller	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy In areas where electricity is limited, customer can continue to use household appliances with the air-conditioner by reducing power consumption kW Manager' is a function that limits the operation of the air conditioner according to the target amount of electricity for a certain period of time set by the customer.
Energy Saving Individual Control	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving Energy Saving Energy Control Gen Mode kW Manager Wired Remote Controller ² Handheld Wireless Controller General Central Controller (Non LGAP)	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy. In areas where electricity is limited, customer can continue to use household appliances with the air-conditioner by reducing power consumption 'kW Manager' is a function that limits the operation of the air conditioner according to the target amount of electricity for a certain period of time set by the customer.
Energy Saving Individual Control	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving Energy Saving Energy Control Gen Mode kW Manager Wired Remote Controller ² Handheld Wireless Controller General Central Controller General Central Controller (Non LGAP) Network Solution (LGAP)	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy In areas where electricity is limited, customer can continue to use household appliances with the air-conditioner by reducing power consumption KW Manager' is a function that limits the operation of the air conditioner according to the target amount of electricity for a certain period of time set by the customer.
Energy Saving Individual Control CAC Network	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving Energy Control Gen Mode kW Manager Wired Remote Controller ² Handheld Wireless Controller General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact ²	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy In areas where electricity is limited, customer can continue to use household appliances with the air-conditioner by reducing power consumption KW Manager' is a function that limits the operation of the air conditioner according to the target amount of electricity for a certain period of time set by the customer. - - - - - - - - - - - - -
Energy Saving Individual Control CAC Network Function	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving Energy Control Gen Mode kW Manager Wired Remote Controller ² Handheld Wireless Controller General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact ² PDI (Power Distribution Indicator) ²	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy In areas where electricity is limited, customer can continue to use household appliances with the air-conditioner by reducing power consumption KW Manager' is a function that limits the operation of the air conditioner according to the target amount of electricity for a certain period of time set by the customer. - -
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Energy Saving Individual Control CAC Network Function	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving Energy Control Gen Mode kW Manager Wired Remote Controller ² Handheld Wireless Controller General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact ² PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² Wi-Fi ² Water Level Sensor Connection ² Wind Baffle Kit ² Sump Heater Sheath Heater ² Crank Case Heater	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy In areas where electricity is limited, customer can continue to use household appliances with the air-conditioner by reducing power consumption KW Manager' is a function that limits the operation of the air conditioner according to the target amount of electricity for a certain period of time set by the customer. - Easily access and control an air conditioner's functions from anywhere Detect the water level in drain pan With wind baffle installed, the minimum temperature will be -18 °C (0 F)D.B. In cooling Prevent the accumulation of freezing on the outdoor-heat-exchanger during winter (Hexible Type) Pre-heating the compressor during winter
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Energy Saving Individual Control CAC Network Function	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving Energy Control Gen Mode kW Manager Wired Remote Controller ² Handheld Wireless Controller General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact ² PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² Wi-Fi ² Wafe Level Sensor Connection ² Wind Baffle Kit ² Sump Heater Sheath Heater ² Crank Case Heater Smart Inverter Monitoring System (SIMs) ² Mode Lock	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy In areas where electricity is limited, customer can continue to use household appliances with the air-conditioner by reducing power consumption KW Manager' is a function that limits the operation of the air conditioner according to the target amount of electricity for a certain period of time set by the customer. - - Easily access and control an air conditioner's functions from anywhere Detect the water level in drain pan With wind baffle installed, the minimum temperature will be -18 °C (0 °F)D.B. in cooling Prevent the accumulation of freezing on the outdoor-heat-exchanger during winter (Hexible Type) Prevent the accumulation of freezing on the outdoor-heat-exchanger during winter (Hexi Type) Pre-heating the compressor during winter Help you to easily monitor, diagnose the air conditioner and get a quick
Energy Saving Individual Control CAC Network Function Special Function Kit	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving Energy Control Gen Mode kW Manager Wired Remote Controller ² Handheld Wireless Controller General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact ² PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² Wi-Fi ² Water Level Sensor Connection ² Wind Baffle Kit ² Sump Heater Sheath Heater ² Crank Case Heater Smart Inverter Monitoring System (SIMs) ²	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy. In areas where electricity is limited, customer can continue to use household appliances with the air-conditioner by reducing power consumption kW Manager' is a function that limits the operation of the air conditioner according to the target amount of electricity for a certain period of time set by the customer. - - - - Easily access and control an air conditioner's functions from anywhere Detect the water level in drain pan With wind baffle installed, the minimum temperature will be -18 °C (0 'F)D.B. in cooling Prevent the accumulation of freezing on the outdoor-heat-exchanger during winter (Flexible Type) Prevent the accumulation of freezing on the outdoor-heat-exchanger during winter (Hard Type) Prevent the accumulation of freezing on the outdoor-heat-exchanger during winter (Hard Type) Prevent the accumulation of freezing on the outdoor-heat-exchanger during winter (Hard Type) Prevent the accumulation of freezing on the outdoor-heat-exchanger during winter (Hard Type) Prevent the accumulation of freezing on the outdoor-heat-exchanger during winter (Hard Type) Prevent the accumulation of freezing on the autoor-heat-exchanger during winter (Hard Type) Prevent the accumulation of freezing on the autoor-heat-exchanger during winter (Hard Type) Prevent the unit available to use only cooling or heating mode in the heat
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Energy Saving Individual Control CAC Network Function Special Function Kit	Indoor Unit Display Type Indoor Unit Display Light Energy Display Air Quality Indicator (Dust Sensor) Human Detecting Sensor Freeze Cleaning Window Open Detecting Energy Saving Energy Control Gen Mode kW Manager Wired Remote Controller ² Handheld Wireless Controller General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact ² PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² Wi-Fi ² Wafe Level Sensor Connection ² Wind Baffle Kit ² Sump Heater Sheath Heater ² Crank Case Heater Smart Inverter Monitoring System (SIMs) ² Mode Lock	Set the brightness of the display on the indoor unit Show the power consumption Sense microscopic dusts in the room and let the air purifying system work without additional maneuver By detecting human provides comfy airflow control and auto power-savings. Freeze and thaw the heat exchanger to wash away contaminants. When a window opening is detected, Energy saving mode starts automatically. Control the optimal desired temperature to save energy The customer can control the power consumption or current directly to save energy. In areas where electricity is limited, customer can continue to use household appliances with the air-conditioner by reducing power consumption kW Manager' is a function that limits the operation of the air conditioner according to the target amount of electricity for a certain period of time set by the customer.
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Note
These functions must be applied according to the model. Please refer to the following function list for each model.
1: This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.
2: Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.
The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)
Some specifications may be changed without notifications due to our policy of innovation.

Category	Function	H09S1PA.SS1
	Air Supply Outlet	S3-M091L1CA.EC6GEEU
	Airflow Direction Control (Left & Right)	5 Steps
	Airflow Direction Control (Up & Down)	6 Steps
	Auto Swing (Left & Right)	0
A :	Auto Swing (Up & Down)	Õ
_Air Flow	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / 6
1101	Natural Wind (Auto Wind)	0
	Jet Cool / Jet Heat (Power Wind)	0 / 0
	Comfort Air	Х
	Soft Air	0
	Vane Type	Dual Vane
	Prefilter (Washable)	0
Air	Fine Dust Filter(Micro Dust Filter)	Х
Air Purifying	Ultra Fine Dust Filter / PM 1.0 Sensor	Х
	Allergy Filter	0
	Plasmaster Ionizer	0
Installation	Drain Pump	0
	Hot Start	0
Reliability	Self Diagnosis	0
	De-ice Control (Defrost)	0
	Dry (Dehumidification) Operation	0
	Auto Changeover Auto Operation (Artificial Intelligence)	0
	Auto Operation (Artificial Intelligence) Auto Cleaning (Coil Dry)	X0
	Auto Cleaning (Con Div) Auto Restart Operation	0
	Child Lock 1	0
	Forced Operation	0
	Group Control 1	X
	Sleep Mode	12hr
	Timer 24hr (On/Off) / 7hr (Off)	0 / X
	Timer (Weekly) ¹	0
	Two Thermistor Control ¹	ŏ
		Õ
Convenience	Low Ambient Operation Overheating Protection	0
	Low Heating	0
	Voice Control	Х
	Outdoor Silent Mode	0
	Mosquito Away	Х
	Smart Diagnosis	0
	Indoor Unit Display Type	Number Display
	Indoor Unit Display Light	On/Off
	Energy Display	O (ThinQ only)
	Air Quality Indicator (Dust Sensor) Human Detecting Sensor	<u> </u>
		X Q (ThinQ anly)
	Freeze Cleaning	O (ThinQ only)
	Window Open Detecting	O (ThinQ only)
_	Energy Saving	X Active Francescontrol
Energy Saving	Energy Control	Active Energy Control
Saving	Gen Mode	<u> </u>
	kW Manager	0
	Wired Remote Controller (Premium) ²	
	Wired Remote Controller (Standard) ²	PQRCVSL0(QW) / PREMTB(0/B)01
Individual	Wired Remote Controller (Simple with Mode Selection) ² Wired Remote Controller (Simple without Mode Selection) ²	PQRCVCL0Q(W) PQRCHCA0Q(W)
Control	(See Pomete Controller Selection)	AKB76044202
	Handheld Wireless (See Remote Controller Section) Controller Setting Temperature Range (Cooling)	18~30 °C (64~86 °F)
	Controller Setting Temperature Range (Cooling)	16~30 °C (60~86 °F)
	General Central Controller (Non LGAP)	X
CAC	Network Solution (LGAP)	<u> </u>
Network	Dry Contact ²	PDRYCB000, PDRYCB100, PDRYCB400, PDRYCB500
Network Function	PDI (Power Distribution Indicator) ²	0
	Outdoor Unit PI 485 ²	PMNFP14A1
	Wi-Fi ²	Embedded
	Water Level Sensor Connection ²	Х
Special	Wind Baffle Kit ²	Х
Special Function Kit	Sump Heater	Х
Kit	Sheath Heater ²	X
	Crank Case Heater	Х
	Smart Inverter Monitoring System (SIMs) ²	PSWMOZ3
Others	Mode Lock	Cooling Only or Heating Only
Others	Mode Lock DRED (Demand Response Enabling Device)	X
Others Hygiene	Mode Lock	

Note

O: Applied, X: Not applied
Filters are optional in some specific areas.
1: This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.
2: Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.
The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)
Some specifications may be changed without notifications due to our policy of innovation.

Category	Function	H12S1PA.SS1 S3-M121L1CA.EC6GEEU
	Air Supply Outlet	2
	Airflow Direction Control (Left & Right)	5 Steps
	Airflow Direction Control (Up & Down)	6 Steps
	Auto Swing (Left & Right)	0
_Air Flow	Auto Swing (Up & Down) Fan Speed Steps (Fan / Cool / Heat)	6/6/6
FIOW	Natural Wind (Auto Wind)	0
	Jet Cool / Jet Heat (Power Wind)	0/0
	Comfort Air	Х
	Soft Air	0
	Vane Type	Dual Vane
	Prefilter (Washable)	0
Air	Fine Dust Filter(Micro Dust Filter) Ultra Fine Dust Filter / PM 1.0 Sensor	X X
Air Purifying	Allergy Filter	<u>0</u>
	Plasmaster Ionizer	ŏ
Installation	Drain Pump	x
	Hot Start	0
Reliability	Self Diagnosis	0
Ronabinty	De-ice Control (Defrost)	0
	Dry (Dehumidification) Operation Auto Changeover	0
		0
	Auto Operation (Artificial Intelligence) Auto Cleaning (Coil Dry)	0
	Auto Restart Operation	Ō
	Child Lock 1	0
	Forced Operation	0
	Group Control 1	X
	Sleep Mode Timer 24hr (On/Off) / 7hr (Off)	12hr O / X
	Timer (Weekly) 1	07.
	Two Thermistor Control ¹	ŏ
	Low Ambient Operation	0
Convenience	Overheating Protection	0
	Low Heating	0
	Voice Control Outdoor Silent Mode	X 0
	Mosquito Away	X
	Smart Diagnosis	0
	Indoor Unit Display Type	Number Display
	Indoor Unit Display Light	On/Off
	Energy Display	O (ThinQ only)
	Air Quality Indicator (Dust Sensor)	<u> </u>
	Human Detecting Sensor Freeze Cleaning	
	,	O (ThinQ only) O (ThinQ only)
	Window Open Detecting	
Enoray	Energy Saving Energy Control	Active Energy Control
Energy Saving	Gen Mode	X
Ū.	kW Manager	0
	Wired Remote Controller (Premium) ²	X
	Wired Remote Controller (Standard) ²	PQRCVSL0(QW) / PREMTB(0/B)01
Individual	Wired Remote Controller (Simple with Mode Selection) ²	PQRCVCL0Q(W)
Control	Wired Remote Controller (Simple without Mode Selection) ²	PQRCHCA0Q(W)
	Handheld Wireless Setting Temperature Range (Cooling)	AKB76044202 18~30 °C (64~86 °F)
	Controller Setting Temperature Range (Cooling) Setting Temperature Range (Heating)	16~30 °C (60~86 °F)
	General Central Controller (Non LGAP)	X
CAC	Network Solution (LGAP)	Ô
Network Function	Dry Contact 2	PDRYCB000, PDRYCB100, PDRYCB400, PDRYCB500
	PDI (Power Distribution Indicator) ²	X
Function		PMNFP14A1
Function	Outdoor Unit PI 485 ²	
Function	Outdoor Unit PI 485 ² Wi-Fi ²	Embedded
	Outdoor Unit PI 485 ² W-Fi ² Water Level Sensor Connection ²	Embedded X
	Outdoor Unit PI 485 ² Wi-Fi ²	Embedded X X
Function Special Function Kit	Outdoor Unit PI 485 ² W-Fi ² Water Level Sensor Connection ² Wnd Baffle Kit ² Sump Heater Sheath Heater ²	Embedded X
	Outdoor Unit PI 485 ² M-Fi ² Water Level Sensor Connection ² Mnd Baffle Kit ² Sump Heater Sheath Heater ² Crank Case Heater	Embedded X X X X X X X X
	Outdoor Unit PI 485 ² W-Fi ² Water Level Sensor Connection ² Wind Baffle Kit ² Sump Heater Sheath Heater ² Crank Case Heater Smart Inverter Monitoring System (SIMs) ²	Embedded X X X X X X PSWM0Z3
	Outdoor Unit PI 485 ² W-Fi ² Water Level Sensor Connection ² Wind Baffle Kit ² Sump Heater Sheath Heater ² Crank Case Heater Smart Inverter Monitoring System (SIMs) ² Mode Lock	Embedded X X X X X PSWMOZ3 Cooling Only or Heating Only
Special Function Kit	Outdoor Unit PI 485 ² W-Fi ² Water Level Sensor Connection ² Wind Baffle Kit ² Sump Heater Sheath Heater ² Crank Case Heater Smart Inverter Monitoring System (SIMs) ²	Embedded X X X X X X PSWM0Z3

Note
• O : Applied, X : Not applied
• Filters are optional in some specific areas.
• 1 : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the scheme table. ** This function can be operated only when the wind related controller to controller. It controller the approximation of the a

Category	Function	H09S1DA.SS1
	Air Supply Outlet	S3-M091A1DA.EC6GEEU
	Airflow Direction Control (Left & Right)	5 Steps
	Airflow Direction Control (Up & Down)	6 Steps
	Auto Swing (Left & Right)	0
Air	Auto Swing (Up & Down)	0
Air Flow	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / 6
	Natural Wind (Auto Wind)	0
	Jet Cool / Jet Heat (Power Wind)	0/0
	Comfort Air	<u> </u>
	Soft Air	0
	Vane Type	Dual Vane
	Prefilter (Washable)	0
Air	Fine Dust Filter(Micro Dust Filter)	X
Air Purifying	Ultra Fine Dust Filter / PM 1.0 Sensor Allergy Filter	X 0
	Plasmaster Ionizer	0
Installation	Drain Pump	X
motarration	Hot Start	0
Dell'e bilite	Self Diagnosis	Ö
Reliability	De-ice Control (Defrost)	0
	Dry (Dehumidification) Operation	0
	Auto Changeover	0
	Auto Operation (Artificial Intelligence)	X
	Auto Cleaning (Coil Dry)	0
	Auto Restart Operation	0
	Child Lock 1	0
	Forced Operation Group Control 1	0 X
	Sleep Mode	
	Timer 24hr (On/Off) / 7hr (Off)	0 / X
	Timer (Weekly) 1	0
	Two Thermistor Control ¹	<u>0</u>
	Low Ambient Operation	Ö
Convenience	Overheating Protection	0
	Low Heating	0
	Voice Control	Х
	Outdoor Silent Mode	0
	Mosquito Away	X
	Smart Diagnosis	0
	Indoor Unit Display Type	Number Display
	Indoor Unit Display Light Energy Display	On/Off O (ThinQ only)
	Air Quality Indicator (Dust Sensor)	X
	Human Detecting Sensor	V V
	Freeze Cleaning	O (ThinQ only)
		O (Thing only)
	Window Open Detecting	X
Energy	Energy Saving Energy Control	Active Energy Control
	Gen Mode	X
Saving	kW Manager	0
	Wired Remote Controller (Premium) ²	X
	Wired Remote Controller (Standard) ²	PQRCVSL0(QW) / PREMTB(0/B)01
	Wired Remote Controller (Standard) Wired Remote Controller (Simple with Mode Selection) ²	PQRCVCL0Q(W)
Individual	Wired Remote Controller (Simple with Wode Selection) ²	PQRCHCA0Q(W)
Control	(See Permete Controller Section)	AKB76044202
	Handheld Wireless Setting Temperature Range (Cooling)	18~30 °C (64~86 °F)
	Setting Temperature Range (Heating)	16~30 °C (60~86 °F)
	General Central Controller (Non LGAP)	X
CAC	Network Solution (LGAP)	0
CAC		PDRYCB000, PDRYCB100, PDRYCB400, PDRYCB500
CAC Network	Dry Contact ²	· · · · · · · · · · · · · · · · · · ·
CAC Network Function	PDI (Power Distribution Indicator) ²	X
CAC Network Function	PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ²	XXX
CAC Network Function	PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² Wi-Fi ²	X X Embedded
Network Function	PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² W-Fi ² Water Level Sensor Connection ²	X X Embedded X
Network Function	PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² W-Fi ² Water Level Sensor Connection ² Wnd Baffle Kit ²	X X Embedded X X
Network Function	PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² Wi-Fi ² Water Level Sensor Connection ² Wind Baffle Kit ² Sump Heater	X X Embedded X X X X
CAC Network Function Special Function Kit	PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² W-Fi ² Water Level Sensor Connection ² Wind Baffle Kit ² Sump Heater Sheath Heater ²	X X Embedded X X X X X
Network Function	PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² WaFi ² Water Level Sensor Connection ² Wind Baffle Kit ² Sump Heater Sheath Heater ² Crank Case Heater	X X Embedded X X X X X X X X X
Special Function Kit	PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² Wi-Fi ² Water Level Sensor Connection ² Wind Baffle Kit ² Sump Heater Sheath Heater ² Crank Case Heater Smart Inverter Monitoring System (SIMs) ²	X X Embedded X X X X X X X Y SWMOZ3
Network Function	PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² WaFi ² Water Level Sensor Connection ² Wind Baffle Kit ² Sump Heater Sheath Heater ² Crank Case Heater	X X Embedded X X X X X X X X X
Special Function Kit	PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² Wr-Fi ² Water Level Sensor Connection ² Wind Baffle Kit ² Sump Heater Sheath Heater ² Crank Case Heater Smart Inverter Monitoring System (SIMs) ² Mode Lock	X X Embedded X X X X X PSWMOZ3 Cooling Only or Heating Only

Note
O : Applied, X : Not applied
Filters are optional in some specific areas.
1 : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.
2 : Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.
The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)
Some specifications may be changed without notifications due to our policy of innovation.

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		H12S1DA.SS1
Category	Function	S3-M121A1DA.EC6GEEU
	Air Supply Outlet	2
	Airflow Direction Control (Left & Right) Airflow Direction Control (Up & Down)	5 Steps 6 Steps
	Auto Swing (Left & Right)	0 Steps
	Auto Swing (Up & Down)	0
Air Flow	Fan Speed Steps (Fan / Cool / Heat)	6/6/6
11000	Natural Wind (Auto Wind)	0
	Jet Cool / Jet Heat (Power Wind)	0/0
	Comfort Air	X
	Soft Air	0
	Vane Type	Dual Vane
	Prefilter (Washable)	0
Air Purifying	Fine Dust Filter(Micro Dust Filter) Ultra Fine Dust Filter / PM 1.0 Sensor	X X X
Purifying	Allergy Filter	<u>^</u>
	Plasmaster Ionizer	<u> </u>
Installation	Drain Pump	X
	Hot Start	0
Reliability	Self Diagnosis	0
. conconney	De-ice Control (Defrost)	0
	Dry (Dehumidification) Operation	0
	Auto Changeover Auto Operation (Artificial Intelligence)	<u>0</u>
	Auto Operation (Antificial Interrigence) Auto Cleaning (Coil Dry)	<u> </u>
	Auto Restart Operation	0
	Child Lock 1	0
	Forced Operation	0
	Group Control 1	Х
	Sleep Mode	12hr
	Timer 24hr (On/Off) / 7hr (Off)	0/X
	Timer (Weekly) 1 Two Thermistor Control 1	<u> </u>
Convenience		0
	Low Ambient Operation Overheating Protection	0
	Low Heating	Ö
	Voice Control	X
	Outdoor Silent Mode	0
	Mosquito Away	X
	Smart Diagnosis	0 Number Dieplou
	Indoor Unit Display Type Indoor Unit Display Light	Number Display On/Off
	Energy Display	O (ThinQ only)
	Air Quality Indicator (Dust Sensor)	X
	Human Detecting Sensor	Х
	Freeze Cleaning	O (ThinQ only)
	Window Open Detecting	O (ThinQ only)
	Energy Saving Energy Control	Х
Energy Saving	Energy Control	Active Energy Control
Saving	Gen Mode	<u>X</u>
	kW Manager	0
	Wred Remote Controller (Premium) ²	
	Wired Remote Controller (Standard) ² Wired Remote Controller (Simple with Mode Selection) ²	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W)
Individual	Wired Remote Controller (Simple with Mode Selection) ²	PQRCHCA0Q(W)
Control	(See Remote Controller Section)	AKB76044202
	Handheld Wireless (See Remote Controller Section) Controller Setting Temperature Range (Cooling)	18~30 °C (64~86 °F)
	Setting Temperature Range (Heating)	16~30 °C (60~86 °F)
	General Central Controller (Non LGAP)	X
	Network Solution (LGAP)	
Network Function	Dry Contact ²	PDRYCB000, PDRYCB100, PDRYCB400, PDRYCB500
	PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ²	X
	Wi-Fi ²	Embedded
	Water Level Sensor Connection ²	X
Special	Wind Baffle Kit ²	X
Special Function Kit	Sump Heater	Х
KIT	Sheath Heater ²	X
	Crank Case Heater	
	Smart Inverter Monitoring System (SIMs) ²	PSWMOZ3
Others	Mode Lock DRED (Demand Response Enabling Device)	Cooling Only or Heating Only X
	UV Nano	× X
Hygiene	Heat Exchanger Cleaning (Freeze Cleaning)	× X
1	Total Exchanger Oleaning (110026 Oleaning)	^

<sup>Note
O: Applied, X: Not applied
Filters are optional in some specific areas.
1: This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.
2: Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.
The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)
Some specifications may be changed without notifications due to our policy of innovation.</sup>

Category	Function	H18S1DA.SS1
catogory	Air Supply Outlet	S3-M181L1DA.EC6GEEU
	Airflow Direction Control (Left & Right)	5 Steps
	Airflow Direction Control (Up & Down)	6 Steps
	Auto Swing (Left & Right)	0
A : =	Auto Swing (Up & Down)	0
Air Flow	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / 6
	Natural Wind (Auto Wind)	0
	Jet Cool / Jet Heat (Power Wind)	0/0
	Comfort Air	<u>X</u> 0
	Soft Air Vane Type	Dual Vane
	Prefilter (Washable)	O
	Fine Dust Filter(Micro Dust Filter)	X
Air Purifying	Ultra Fine Dust Filter / PM 1.0 Sensor	X
Puntying	Allergy Filter	0
	Plasmaster Ionizer	0
Installation	Drain Pump	Х
	Hot Start	0
Reliability	Self Diagnosis	0
	De-ice Control (Defrost)	0
	Dry (Dehumidification) Operation	0
	Auto Changeover Auto Operation (Artificial Intelligence)	X
	Auto Cleaning (Coil Dry)	^ 0
	Auto Restart Operation	0
	Child Lock 1	õ
	Forced Operation	0
	Group Control 1	Х
	Sleep Mode	12hr
	Timer 24hr (On/Off) / 7hr (Off)	0 / X
	Timer (Weekly) ¹ Two Thermistor Control ¹	0
	Low Ambient Operation	0
Convenience	Overheating Protection	0
convenience	Low Heating	<u>0</u>
	Voice Control	X
	Outdoor Silent Mode	0
	Mosquito Away	Х
	Smart Diagnosis	0
	Indoor Unit Display Type	Number Display
	Indoor Unit Display Light Energy Display	On/Off O (ThinQ only)
	Air Quality Indicator (Dust Sensor)	X
	Human Detecting Sensor	X
	Freeze Cleaning	O (ThinQ only)
	Window Open Detecting	O (ThinQ only)
	Energy Saving	X
Enerav	Energy Control	Active Energy Control
Energy Saving	Gen Mode	Х
	kW Manager	0
	Wired Remote Controller (Premium) ²	
	Wired Remote Controller (Standard) ²	PQRCVSL0(QW) / PREMTB(0/B)01
Individual	Wired Remote Controller (Simple with Mode Selection) ² Wired Remote Controller (Simple without Mode Selection) ²	PQRCVCL0Q(W) PQRCHCA0Q(W)
Control	(See Permete Controller Section)	AKB76044206
	Handheld Wireless Controller Setting Temperature Range (Cooling)	18~30 °C (64~86 °F)
	Setting Temperature Range (Heating)	16~30 °C (60~86 °F)
	General Central Controller (Non LGAP)	X
CAC	Network Solution (LGAP)	0
Network	Dry Contact ²	PDRYCB000, PDRYCB100, PDRYCB400, PDRYCB500
Function	PDI (Power Distribution Indicator) ²	
	Outdoor Unit PI 485 ²	PMNFP14A1
	Wi-Fi ² Water Level Sensor Connection ²	Embedded X
Special	Wind Baffle Kit ²	X
Special Function Kit	Sump Heater	X
Kit	Sheath Heater ²	X
1	Crank Case Heater	Х
	Smart Inverter Monitoring System (SIMs) ²	PSWMOZ3
Others	Mode Lock	Cooling Only or Heating Only
Others	Mode Lock DRED (Demand Response Enabling Device)	Cooling Only or Heating Only X
Others Hygiene	Mode Lock	Cooling Only or Heating Only

Note
O : Applied, X : Not applied
Filters are optional in some specific areas.
1 : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the shown table the above table.
²: Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.
The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)
Some specifications may be changed without notifications due to our policy of innovation.

Category	Function	H24S1DA.SS1
	Air Supply Outlet	S3-M24121DA.EC6GEEU
	Air Supply Outlet Airflow Direction Control (Left & Right)	5 Steps
	Airflow Direction Control (Up & Down)	6 Steps
	Auto Swing (Left & Right)	0
	Auto Swing (Up & Down)	Ő
Air Flow	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / 6
	Natural Wind (Auto Wind)	0
	Jet Cool / Jet Heat (Power Wind)	0/0
	Comfort Air	X
	Soft Air	0
	Vane Type	Dual Vane
	Prefilter (Washable)	0
Air	Fine Dust Filter(Micro Dust Filter)	X
Air Purifying	Ultra Fine Dust Filter / PM 1.0 Sensor Allergy Filter	<u> </u>
	Plasmaster Ionizer	0
	Drain Pump	X
Reliability	Hot Start	0
	Self Diagnosis	Õ
	De-ice Control (Defrost)	0
	Dry (Dehumidification) Operation	0
	Auto Changeover	0
	Auto Operation (Artificial Intelligence)	X
	Auto Cleaning (Coil Dry)	0
	Auto Restart Operation	0
	Child Lock ¹ Forced Operation	0
	Group Control 1	X
	Sleep Mode	12hr
	Timer 24hr (On/Off) / 7hr (Off)	0 / X
	Timer (Weekly) 1	0
	Two Thermistor Control ¹	Õ
	Low Ambient Operation Overheating Protection	0
Convenience		0
	Low Heating	0
	Voice Control	X
	Outdoor Silent Mode	0
	Mosquito Away Smart Diagnosis	<u> </u>
	Indoor Unit Display Type	Number Display
	Indoor Unit Display Light	On/Off
	Energy Display	O (ThinQ only)
	Air Quality Indicator (Dust Sensor)	X
	Human Detecting Sensor	Х
	Freeze Cleaning	O (ThinQ only)
	Window Open Detecting	O (ThinQ only)
	Energy Saving	X
Energy Saving	Energy Control	Active Energy Control
	Gen Mode	X
	kW Manager	0
1	Wired Remote Controller (Premium) ²	Х
	Wired Remote Controller (Standard) ²	PQRCVSL0(QW) / PREMTB(0/B)01
Individual	Wired Remote Controller (Standard) ² Wired Remote Controller (Simple with Mode Selection) ²	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W)
Individual Control	Wired Remote Controller (Standard) ² Wired Remote Controller (Simple with Mode Selection) ² Wired Remote Controller (Simple without Mode Selection) ²	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCHCA0Q(W)
Control	Wired Remote Controller (Standard) ² Wired Remote Controller (Simple with Mode Selection) ² Wired Remote Controller (Simple without Mode Selection) ²	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCHCA0Q(W) AKB76044202
Control	Wired Remote Controller (Standard) ² Wired Remote Controller (Simple with Mode Selection) ² Wired Remote Controller (Simple without Mode Selection) ² Handheld Wireless Setting Temperature Range (Cooling)	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCHCA0Q(W) AKB76044202 18~30 °C (64~86 °F)
Control	Wired Remote Controller (Standard) ² Wired Remote Controller (Simple with Mode Selection) ² Wired Remote Controller (Simple without Mode Selection) ² Handheld Wireless Controller Setting Temperature Range (Cooling) Setting Temperature Range (Heating)	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCHCA0Q(W) AKB76044202 18~30 °C (64~86 °F) 16~30 °C (60~86 °F)
Control	Wired Remote Controller (Standard) * Wired Remote Controller (Simple with Mode Selection) * Wired Remote Controller (Simple without Mode Selection) * Handheld Wireless (See Remote Controller Section) Setting Temperature Range (Cooling) Setting Temperature Range (Heating) General Central Controller (Non LGAP)	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCHCA0Q(W) AKB76044202 18~30 °C (64~86 °F) 16~30 °C (60~86 °F) X
Control	Wired Remote Controller (Standard) ² Wired Remote Controller (Simple with Mode Selection) ² Wired Remote Controller (Simple without Mode Selection) ² Handheld Wireless (See Remote Controller Section) Setting Temperature Range (Cooling) Setting Temperature Range (Heating) General Central Controller (Non LGAP) Network Solution (LGAP)	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCHCA0Q(W) AKB76044202 18~30 °C (64~86 °F) 16~30 °C (60~86 °F) X O
Control CAC Network	Wired Remote Controller (Standard) ² Wired Remote Controller (Simple with Mode Selection) ² Wired Remote Controller (Simple without Mode Selection) ² Handheld Wireless Controller Setting Temperature Range (Cooling) Setting Temperature Range (Heating) General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact ²	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCHCA0Q(W) AKB76044202 18~30 °C (64~86 °F) 16~30 °C (60~86 °F) X
Control CAC Network	Wired Remote Controller (Standard) ² Wired Remote Controller (Simple with Mode Selection) ² Wired Remote Controller (Simple without Mode Selection) ² Handheld Wireless (See Remote Controller Section) Setting Temperature Range (Cooling) Setting Temperature Range (Heating) General Central Controller (Non LGAP) Network Solution (LGAP)	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCHCA0Q(W) AKB76044202 18~30 °C (64~86 °F) 16~30 °C (60~86 °F) X O PDRYCB000, PDRYCB100, PDRYCB500 X
Control CAC Network Function	Wired Remote Controller (Standard) ² Wired Remote Controller (Simple with Mode Selection) ² Wired Remote Controller (Simple without Mode Selection) ² Handheld Wireless Controller Setting Temperature Range (Cooling) Setting Temperature Range (Heating) General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact ² PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² Wi-Fi ²	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCHCA0Q(W) AKB76044202 18~30 °C (64~86 °F) 16~30 °C (60~86 °F) X O
Control CAC Network Function	Wired Remote Controller (Standard) * Wired Remote Controller (Simple with Mode Selection) * Wired Remote Controller (Simple without Mode Selection) * Handheld Wireless Controller Setting Temperature Range (Cooling) Setting Temperature Range (Heating) Setting Temperature Range (Heating) General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact * PDI (Power Distribution Indicator) * Outdoor Unit PI 485 * Water Level Sensor Connection *	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCHCA0Q(W) AKB76044202 18~30 °C (64~86 °F) 16~30 °C (66~86 °F) X PDRYCB000, PDRYCB100, PDRYCB400, PDRYCB500 X PMNFP14A1 Embedded X
Control CAC Network Function	Wired Remote Controller (Standard) * Wired Remote Controller (Simple with Mode Selection) * Wired Remote Controller (Simple without Mode Selection) * Handheld Wireless Setting Temperature Range (Cooling) Setting Temperature Range (Heating) General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact * PDI (Power Distribution Indicator) * Outdoor Unit PI 485 * Water Level Sensor Connection * Wand Baffle Kit *	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCHCA0Q(W) AKB76044202 18~30 °C (64~86 °F) 16~30 °C (60~86 °F) X PDRYCB000, PDRYCB100, PDRYCB500 X PMNFP14A1 Embedded X X
Control CAC Network Function	Wired Remote Controller (Standard) * Wired Remote Controller (Simple with Mode Selection) * Wired Remote Controller (Simple without Mode Selection) * Handheld Wireless Controller Setting Temperature Range (Cooling) Setting Temperature Range (Heating) General Central Controller (Non LGAP) Network Solution (LGAP) PDI (Power Distribution Indicator) * Outdoor Unit PI 485 * Water Level Sensor Connection * Wand Baffle Kit * Sump Heater	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCHCA0Q(W) AKB76044202 18~30 °C (64~86 °F) 16~30 °C (60~86 °F) X O PDRYCB000, PDRYCB100, PDRYCB400, PDRYCB500 X PMNFP14A1 Embedded X X X X X
Control CAC Network Function Special Function Kit	Wired Remote Controller (Standard) * Wired Remote Controller (Simple with Mode Selection) * Wired Remote Controller (Simple without Mode Selection) * Handheld Wireless Controller Setting Temperature Range (Cooling) Setting Temperature Range (Heating) Setting Temperature Range (Heating) General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact * PDI (Power Distribution Indicator) * Outdoor Unit PI 485 * Water Level Sensor Connection * Wind Baffle Kit * Sump Heater Sheath Heater *	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCHCA0Q(W) AKB76044202 18~30 °C (64~86 °F) 16~30 °C (60~86 °F) X PDRYCB000, PDRYCB100, PDRYCB400, PDRYCB500 X PMNFP14A1 Embedded X X X X X X X X
Control CAC Network Function Special Function Kit	Wired Remote Controller (Standard) * Wired Remote Controller (Simple with Mode Selection) * Wired Remote Controller (Simple without Mode Selection) * Handheld Wireless Controller Setting Temperature Range (Cooling) Setting Temperature Range (Heating) General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact * PDI (Power Distribution Indicator) * Water Level Sensor Connection * Water Level Sensor Connection * Sheath Heater * Crank Case Heater	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCVCL0Q(W) AKB76044202 18~30 °C (64~86 °F) 16~30 °C (66~86 °F) X O PDRYCB000, PDRYCB100, PDRYCB400, PDRYCB500 X PMNFP14A1 Embedded X X X X X X X X
Control CAC Network Function Special Function Kit	Wired Remote Controller (Standard) * Wired Remote Controller (Simple with Mode Selection) * Wired Remote Controller (Simple without Mode Selection) * Handheld Wireless Setting Temperature Range (Cooling) Setting Temperature Range (Heating) General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact * PDI (Power Distribution Indicator) * Water Level Sensor Connection * Wind Baffle Kit * Sump Heater Sheath Heater * Crank Case Heater Smart Inverter Monitoring System (SIMs) *	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCVCL0Q(W) AKB76044202 18~30 °C (64~86 °F) 16~30 °C (60~86 °F) X O PDRYCB000, PDRYCB100, PDRYCB500 X PMNFP14A1 Embedded X PMNFP14A1 Embedded X PMNFP14A1 Embedded X PMNFP14A1 Embedded X PMNFP14A1 Embedded X PMNFP14A1 Embedded X PMNFP14A1 Embedded X S PMNFP14A1 Embedded X S S S S S S S S S S S S S
Control CAC Network Function Special Function Kit	Wired Remote Controller (Standard) * Wired Remote Controller (Simple with Mode Selection) * Wired Remote Controller (Simple without Mode Selection) * Handheld Wireless (See Remote Controller Section) Setting Temperature Range (Cooling) Setting Temperature Range (Heating) General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact * PDI (Power Distribution Indicator) * Water Level Sensor Connection * Wind Baffle Kit * Sump Heater Sheath Heater * Crank Case Heater Smart Inverter Monitoring System (SIMs) *	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCVCL0Q(W) AKB76044202 18~30 °C (64~86 °F) 16~30 °C (60~86 °F) X O PDRYCB000, PDRYCB100, PDRYCB400, PDRYCB500 X O PDRYCB000, PDRYCB100, PDRYCB400, PDRYCB500 X O PDRYCB000, PDRYCB100, PDRYCB400, PDRYCB500 X O PDRYCB000, PDRYCB100, PDRYCB500 X O PDRYCB000, PDRYCB100, PDRYCB500 X PDRYCB000, PDRYCB100, PDRYCB500 X O PDRYCB000, PDRYCB100, PDRYCB500 X PDRYCB000, PDRYCB100, PDRYCB500 X PDRYCB000, PDRYCB100, PDRYCB500 X O PDRYCB000, PDRYCB100, PDRYCB500 X PDRYCB000, PDRYCB100, PDRYCB500 X PDRYCB000, PDRYCB100, PDRYCB500 X PDRYCB000, PDRYCB100, PDRYCB500 X PDRYCB000, PDRYCB100, PDRYCB10, PDRYCB100, PDRYCB10, PDRY
Control CAC Network Function Special Function Kit	Wired Remote Controller (Standard) * Wired Remote Controller (Simple with Mode Selection) * Wired Remote Controller (Simple without Mode Selection) * Handheld Wireless Setting Temperature Range (Cooling) Setting Temperature Range (Heating) General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact * PDI (Power Distribution Indicator) * Water Level Sensor Connection * Wind Baffle Kit * Sump Heater Sheath Heater * Crank Case Heater Smart Inverter Monitoring System (SIMs) *	PQRCVSL0(QW) / PREMTB(0/B)01 PQRCVCL0Q(W) PQRCVCL0Q(W) AKB76044202 18~30 °C (64~86 °F) 16~30 °C (60~86 °F) X O PDRYCB000, PDRYCB100, PDRYCB500 X PMNFP14A1 Embedded X PMNFP14A1 Embedded X PMNFP14A1 Embedded X PMNFP14A1 Embedded X PMNFP14A1 Embedded X PMNFP14A1 Embedded X PMNFP14A1 Embedded X S PMNFP14A1 Embedded X S S S S S S S S S S S S S

Note
O : Applied, X : Not applied
Filters are optional in some specific areas.
1 : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.
2 : Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.
The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)
Some specifications may be changed without notifications due to our policy of innovation.

5.1 Indoor Unit

H09S1PA.NS1 (S3NM091L1CA.EC6GEEU)



H12S1PA.NS1 (S3NM121L1CA.EC6GEEU)



H09S1DA.NS1 (S3NM091A1DA.EC6GEEU)



H12S1DA.NS1 (S3NM121A1DA.EC6GEEU)



H18S1DA.NS1 (S3NM181L1DA.EC6GEEU)



H24S1DA.NS1 (S3NM24121DA.EC6GEEU)



5.2 Outdoor Unit

H09S1PA.U18 (S3UM091L1CA.EC6GEEU)



H12S1PA.U18 (S3UM121L1CA.EC6GEEU)



H09S1DA.U12 (S3UM091A1DA.EC6GEEU)



H12S1DA.U12 (S3UM121A1DA.EC6GEEU)


5. Dimensional Drawings

H18S1DA.U18 (S3UM181L1DA.EC6GEEU)



5. Dimensional Drawings

H24S1DA.U24 (S3UM24121DA.EC6GEEU)



5. Dimensional Drawings

5.3 Corner Weight and Center of Gravity Dimension for Outdoor Unit



Model	Tool	Weigh	t(kg)	Center	of Gravi	ty (mm)	Leg	(mm)		Corner W	eight (kg)	
Woder	1001	Shipping	Net	а	b	с	d	е	Α	В	С	D
H09S1PA.U18	U18A	32.0	29.9	507	237	143	558	330	4.1	4.3	10.8	10.6
H12S1PA.U18	U18A	32.0	29.9	507	237	143	558	330	4.1	4.3	10.8	10.6
H09S1DA.U12	U12A	27.2	25.1	475	219	113	463	256	1.8	2.3	10.7	10.2
H12S1DA.U12	U12A	27.2	25.1	475	219	113	463	256	1.8	2.3	10.7	10.2
H18S1DA.U18	U18A	37.0	34.4	507	237	143	558	330	4.7	4.9	12.5	12.3
H24S1DA.U24	U24A	47.0	44.0	565	260	150	586	366	5.2	7.1	16.8	14.9

Model	Tool	Weigh	t (Ib.)	Cente	r of Gravi	ty (in.)	Leg	(in.)		Corner W	eight (ib.)	
Woder		Shipping	Net	а	b	с	d	е	Α	в	С	D
H09S1PA.U18	U18A	70.5	65.9	19-31/32	9-11/32	5-5/8	21-31/32	13	9.1	9.5	23.9	23.5
H12S1PA.U18	U18A	70.5	65.9	19-31/32	9-11/32	5-5/8	21-31/32	13	9.1	9.5	23.9	23.5
H09S1DA.U12	U12A	60.0	55.3	18-11/16	8-5/8	4-7/16	18-7/32	10-3/32	4.1	5.1	23.6	22.5
H12S1DA.U12	U12A	60.0	55.3	18-11/16	8-5/8	4-7/16	18-7/32	10-3/32	4.1	5.1	23.6	22.5
H18S1DA.U18	U18A	81.6	75.8	19-31/32	9-11/32	5-5/8	21-31/32	13	10.4	10.9	27.5	27.0
H24S1DA.U24	U24A	103.6	97.0	22-1/4	10-1/4	5-29/32	23-1/16	14-13/32	11.4	15.6	37.1	32.9

Note

• Design features and information of indoor and outdoor unit may be changed without notifications due to our policy of innovation.

• The center of gravity and corner weight may be different from the actual values because these are simulation results.

6.1 Indoor Unit

H09S1PA.NS1 (S3NM091L1CA.EC6GEEU)



H12S1PA.NS1 (S3NM121L1CA.EC6GEEU)



H09S1DA.NS1 (S3NM091A1DA.EC6GEEU)



H12S1DA.NS1 (S3NM121A1DA.EC6GEEU)



H18S1DA.NS1 (S3NM181L1DA.EC6GEEU)



H24S1DA.NS1 (S3NM24121DA.EC6GEEU)



6.2 Outdoor Unit

H09S1PA.U18 (S3UM091L1CA.EC6GEEU)



H12S1PA.U18 (S3UM121L1CA.EC6GEEU)



H09S1DA.U12 (S3UM091A1DA.EC6GEEU)



H12S1DA.U12 (S3UM121A1DA.EC6GEEU)



H18S1DA.U18 (S3UM181L1DA.EC6GEEU)



H24S1DA.U24 (S3UM24121DA.EC6GEEU)



H09S1PA.SS1 (S3-M091L1CA.EC6GEEU)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator inlet temperature	CN-TH1 (Indoor)
Th3	Thermistor for evaporator middle temperature	CN-TH3 (Indoor)
Th4	Thermistor for evaporator outlet temperature	CN-TH2 (Indoor)
Th5	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th6	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th7	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

Model	G	as	Liquid		Capillary Tube
Model	mm	inch	mm	inch	Capitaly Tube
H09S1PASS1	ø 9.52	ø 3/8	ø 6.35	ø 1/4	-

	Heat Exchanger	M Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
Appendix	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	——— Muffler	Strainer		

H12S1PA.SS1 (S3-M121L1CA.EC6GEEU)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator inlet temperature	CN-TH1 (Indoor)
Th3	Thermistor for evaporator middle temperature	CN-TH3 (Indoor)
Th4	Thermistor for evaporator outlet temperature	CN-TH2 (Indoor)
Th5	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th6	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th7	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

Model	G	as	Liquid		Capillary Tube	
Model	mm	inch	mm	inch	Capillary Tube	
H12S1PASS1	ø 9.52	ø 3/8	ø 6.35	ø 1/4	-	

	Heat Exchanger	M Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
Appendix	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint		Strainer		

H09S1DA.SS1 (S3-M091A1DA.EC6GEEU)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator inlet temperature	CN-TH1 (Indoor)
Th3	Thermistor for evaporator middle temperature	CN-TH3 (Indoor)
Th4	Thermistor for evaporator outlet temperature	CN-TH2 (Indoor)
Th5	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th6	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th7	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

Model	G	as	Liquid		Capillary Tube	
Model	mm	inch	mm	inch	Capillary Tube	
H09S1DASS1	ø 9.52	ø 3/8	ø 6.35	ø 1/4	-	

	Heat Exchanger	M Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
Appendix	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	——— Muffler	Strainer		

H12S1DA.SS1 (S3-M121A1DA.EC6GEEU)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator inlet temperature	CN-TH1 (Indoor)
Th3	Thermistor for evaporator middle temperature	CN-TH3 (Indoor)
Th4	Thermistor for evaporator outlet temperature	CN-TH2 (Indoor)
Th5	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th6	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th7	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

Model	G	as	Liq	uid	Capillary Tube
Model	mm	inch	mm	inch	Capitaly Tube
H12S1DA.SS1	ø 9.52	ø 3/8	ø 6.35	ø 1/4	-

	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
Appendix	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	——— Muffler	Strainer		

H18S1DA.SS1 (S3-M181L1DA.EC6GEEU)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator inlet temperature	CN-TH1 (Indoor)
Th3	Thermistor for evaporator middle temperature	CN-TH3 (Indoor)
Th4	Thermistor for evaporator outlet temperature	CN-TH2 (Indoor)
Th5	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th6	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th7	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

Model	G	as	Liq	uid	Capillary Tube
Model	mm	inch	mm	inch	Capitaly Tube
H18S1DA.SS1	ø 12.7	ø 1/2	ø 6.35	ø 1/4	-

	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
Appendix	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

H24S1DA.SS1 (S3-M24121DA.EC6GEEU)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator inlet temperature	CN-TH1 (Indoor)
Th3	Thermistor for evaporator middle temperature	CN-TH3 (Indoor)
Th4	Thermistor for evaporator outlet temperature	CN-TH2 (Indoor)
Th5	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th6	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th7	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

Model	Ga	as	Liq	uid	Capillary Tube
Model	mm	inch	mm	inch	Capitaly Tube
H24S1DA.SS1	ø 15.88	ø 5/8	ø 6.35	ø 1/4	-

	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
Appendix	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

8.1 Rated Cooling Capacity

H09S1PA.SS1 (S3-M091L1CA.EC6GEEU)

Outdoor Air								Indo	or Air	Temp	eratu	re:°(C DB /	°CW	В						
Temperature		18 / 1	2	:	20 / 1	4	:	22 / 10	6	2	25 / 18	3	:	27 / 19	9	2	29 / 19	9	;	32 / 23	3
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
-15	2.18	1.82	0.38	2.72	1.93	0.45	3.27	2.05	0.52	3.95	2.20	0.60	4.36	2.29	0.66	4.57	2.95	0.68	4.87	3.86	0.72
-10	2.25	1.89	0.40	2.81	2.01	0.47	3.37	2.14	0.54	4.07	2.29	0.63	4.50	2.38	0.69	4.71	3.07	0.71	5.02	4.02	0.75
-5	2.41	2.03	0.39	2.90	2.16	0.47	3.39	2.29	0.56	4.00	2.46	0.66	4.37	2.56	0.72	4.61	3.13	0.75	4.94	3.93	0.80
-1	2.54	2.14	0.43	3.00	2.26	0.51	3.45	2.38	0.58	4.02	2.53	0.67	4.35	2.61	0.73	4.59	3.15	0.76	4.92	3.88	0.81
0	2.58	2.17	0.44	3.02	2.29	0.52	3.47	2.40	0.59	4.02	2.55	0.68	4.35	2.63	0.73	4.59	3.15	0.76	4.92	3.87	0.81
4	2.73	2.30	0.49	3.13	2.40	0.55	3.53	2.50	0.61	4.03	2.62	0.69	4.33	2.70	0.74	4.57	3.16	0.77	4.90	3.81	0.82
10	2.92	2.46	0.55	3.27	2.54	0.60	3.62	2.62	0.65	4.05	2.72	0.71	4.31	2.78	0.75	4.55	3.18	0.78	4.88	3.74	0.83
16	3.11	2.62	0.61	3.41	2.68	0.65	3.70	2.74	0.68	4.07	2.82	0.73	4.29	2.86	0.76	4.53	3.20	0.79	4.85	3.66	0.84
18	3.08	2.60	0.64	3.36	2.67	0.68	3.64	2.74	0.71	3.99	2.84	0.76	4.20	2.89	0.79	4.44	3.21	0.82	4.76	3.65	0.86
20	3.07	2.58	0.66	3.34	2.66	0.69	3.61	2.74	0.73	3.95	2.85	0.77	4.15	2.91	0.80	4.38	3.21	0.83	4.71	3.64	0.88
25	2.72	2.36	0.59	2.94	2.45	0.62	3.16	2.55	0.65	3.44	2.67	0.68	3.60	2.74	0.70	3.81	3.00	0.73	4.10	3.35	0.77
30	2.36	2.14	0.53	2.53	2.25	0.55	2.71	2.36	0.57	2.92	2.50	0.59	3.05	2.58	0.61	3.24	2.79	0.63	3.49	3.08	0.66
35	1.99	1.94	0.45	2.11	2.06	0.47	2.24	2.18	0.48	2.40	2.33	0.50	2.50	2.41	0.51	2.66	2.58	0.53	2.88	2.81	0.55
41	2.27	2.05	0.74	2.43	2.19	0.76	2.59	2.33	0.78	2.79	2.51	0.81	2.92	2.62	0.83	3.09	2.79	0.85	3.34	3.02	0.89
46	2.41	2.04	0.98	2.59	2.20	1.01	2.77	2.36	1.05	3.00	2.55	1.09	3.14	2.67	1.11	3.32	2.83	1.14	3.59	3.05	1.19
48	2.34	1.99	0.99	2.52	2.15	1.02	2.70	2.30	1.05	2.92	2.49	1.09	3.06	2.60	1.12	3.24	2.76	1.15	3.50	2.98	1.20

Symbol DB : Dry Bulb Temperature WB : Wet Bulb Temperature

TC : Total Capacity SHC : Sensible Heating Capacity

PI: Power Input

(Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

[°C] [°C]

[kW]

kW j

[kW]

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1. All capacities are net, evaporator fan motor heat is deducted.

2. Direct interpolation is permissible. Do not extrapolate.

H12S1PA.SS1 (S3-M121L1CA.EC6GEEU)

Outdoor Air								Indo	or Air	Temp	eratu	re:°0	C DB /	°CW	В						
Temperature		18 / 1	2		20 / 1	4		22 / 1	6	2	25 / 18	3		27 / 19	9		29 / 19	9	;	32 / 23	3
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	Pl	TC	SHC	PI	TC	SHC	PI
-15	2.43	1.93	0.42	3.04	2.05	0.50	3.64	2.18	0.57	4.41	2.33	0.67	4.86	2.43	0.73	5.10	3.13	0.75	5.42	4.09	0.79
-10	2.50	2.01	0.44	3.13	2.14	0.52	3.76	2.27	0.60	4.54	2.43	0.70	5.01	2.53	0.76	5.26	3.26	0.79	5.59	4.26	0.83
-5	2.69	2.16	0.43	3.23	2.30	0.52	3.78	2.44	0.61	4.46	2.61	0.73	4.87	2.71	0.80	5.14	3.33	0.83	5.51	4.17	0.88
-1	2.84	2.28	0.48	3.34	2.40	0.56	3.84	2.53	0.64	4.48	2.68	0.74	4.85	2.78	0.80	5.12	3.34	0.84	5.49	4.12	0.89
0	2.88	2.31	0.49	3.37	2.43	0.57	3.86	2.55	0.65	4.48	2.70	0.75	4.85	2.79	0.81	5.12	3.34	0.84	5.48	4.10	0.89
4	3.05	2.44	0.54	3.49	2.55	0.61	3.94	2.65	0.68	4.50	2.78	0.77	4.83	2.86	0.82	5.10	3.36	0.85	5.46	4.04	0.90
10	3.26	2.61	0.61	3.65	2.70	0.66	4.03	2.78	0.72	4.52	2.89	0.79	4.81	2.95	0.83	5.07	3.38	0.87	5.43	3.97	0.92
16	3.47	2.78	0.67	3.80	2.85	0.72	4.13	2.91	0.76	4.54	2.99	0.81	4.78	3.04	0.84	5.05	3.40	0.88	5.41	3.89	0.93
18	3.44	2.76	0.71	3.75	2.84	0.75	4.06	2.91	0.79	4.45	3.01	0.84	4.69	3.07	0.87	4.95	3.41	0.91	5.31	3.87	0.96
20	3.42	2.74	0.73	3.72	2.83	0.77	4.02	2.91	0.81	4.40	3.02	0.86	4.63	3.09	0.89	4.89	3.41	0.92	5.25	3.86	0.97
25	3.21	2.65	0.73	3.47	2.76	0.76	3.73	2.86	0.80	4.06	3.00	0.84	4.25	3.08	0.86	4.50	3.37	0.89	4.84	3.77	0.94
30	3.00	2.56	0.73	3.22	2.69	0.75	3.44	2.82	0.78	3.71	2.98	0.82	3.88	3.08	0.84	4.11	3.33	0.87	4.44	3.67	0.91
35	2.78	2.47	0.72	2.96	2.62	0.75	3.14	2.77	0.77	3.36	2.96	0.80	3.50	3.07	0.81	3.72	3.29	0.84	4.03	3.58	0.88
41	2.76	2.35	0.91	2.96	2.52	0.94	3.16	2.68	0.97	3.41	2.89	1.01	3.56	3.02	1.03	3.77	3.21	1.06	4.07	3.47	1.10
46	2.61	2.14	1.07	2.81	2.31	1.10	3.01	2.47	1.13	3.26	2.67	1.18	3.40	2.79	1.20	3.61	2.96	1.24	3.89	3.19	1.29
48	2.55	2.09	1.07	2.74	2.25	1.11	2.93	2.41	1.14	3.18	2.61	1.18	3.32	2.73	1.21	3.52	2.89	1.25	3.80	3.12	1.30

Symbol DB : Dry Bulb Temperature WB : Wet Bulb Temperature TC : Total Capacity SHC : Sensible Heating Capacity

PI: Power Input

(Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

[°C] [°C] [kW]

kW]

[kW]

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1. All capacities are net, evaporator fan motor heat is deducted.

2. Direct interpolation is permissible. Do not extrapolate.

H09S1DA.SS1 (S3-M091A1DA.EC6GEEU)

Outdoor Air								Indo	or Air	Temp	eratu	re:°0	C DB /	°CW	В						
Temperature		18 / 1	2		20 / 1	4		22 / 1	6	1	25 / 18	3		27 / 1	9		29 / 1	9		32 / 23	3
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	Pl	TC	SHC	PI	TC	SHC	PI
-15	2.10	1.75	0.40	2.63	1.86	0.47	3.15	1.98	0.54	3.81	2.12	0.63	4.20	2.20	0.69	4.41	2.84	0.72	4.69	3.72	0.75
-10	2.17	1.82	0.42	2.71	1.94	0.49	3.25	2.06	0.57	3.93	2.21	0.66	4.33	2.30	0.72	4.54	2.96	0.75	4.84	3.87	0.79
-5	2.32	1.96	0.41	2.80	2.08	0.50	3.27	2.21	0.58	3.86	2.37	0.69	4.21	2.46	0.75	4.44	3.02	0.79	4.76	3.79	0.84
-1	2.45	2.07	0.45	2.89	2.18	0.53	3.32	2.29	0.61	3.87	2.43	0.71	4.20	2.52	0.76	4.43	3.03	0.80	4.75	3.74	0.85
0	2.49	2.10	0.47	2.91	2.21	0.54	3.34	2.32	0.62	3.87	2.45	0.71	4.19	2.54	0.77	4.42	3.04	0.80	4.74	3.73	0.85
4	2.63	2.22	0.52	3.02	2.31	0.58	3.41	2.41	0.65	3.89	2.53	0.73	4.18	2.60	0.78	4.41	3.05	0.81	4.72	3.67	0.86
10	2.82	2.37	0.58	3.15	2.45	0.63	3.49	2.53	0.68	3.91	2.62	0.75	4.16	2.68	0.79	4.39	3.07	0.82	4.70	3.60	0.87
16	3.00	2.53	0.64	3.28	2.58	0.68	3.57	2.64	0.72	3.92	2.72	0.77	4.14	2.76	0.80	4.36	3.08	0.83	4.68	3.53	0.88
18	2.97	2.50	0.67	3.24	2.57	0.71	3.51	2.64	0.75	3.85	2.73	0.80	4.05	2.79	0.82	4.28	3.09	0.86	4.59	3.52	0.91
20	2.96	2.49	0.69	3.22	2.57	0.73	3.48	2.65	0.77	3.80	2.74	0.81	4.00	2.80	0.84	4.23	3.10	0.87	4.54	3.51	0.92
25	2.65	2.30	0.63	2.86	2.39	0.66	3.07	2.48	0.69	3.34	2.60	0.72	3.50	2.67	0.75	3.71	2.92	0.77	3.99	3.27	0.81
30	2.32	2.11	0.56	2.49	2.22	0.59	2.66	2.33	0.61	2.87	2.46	0.63	3.00	2.54	0.65	3.18	2.75	0.67	3.44	3.03	0.70
35	1.99	1.94	0.49	2.11	2.06	0.51	2.24	2.18	0.52	2.40	2.33	0.54	2.50	2.41	0.56	2.66	2.58	0.57	2.88	2.81	0.60
41	2.21	2.00	0.78	2.37	2.14	0.81	2.53	2.28	0.83	2.73	2.46	0.86	2.84	2.56	0.88	3.02	2.72	0.91	3.26	2.95	0.94
46	2.30	1.96	1.03	2.48	2.11	1.07	2.65	2.26	1.10	2.87	2.44	1.14	3.00	2.55	1.16	3.18	2.71	1.20	3.43	2.92	1.25
48	2.24	1.91	1.04	2.41	2.05	1.07	2.59	2.20	1.11	2.80	2.38	1.15	2.93	2.49	1.17	3.10	2.64	1.21	3.35	2.85	1.26

Symbol DB : Dry Bulb Temperature WB : Wet Bulb Temperature TC : Total Capacity SHC : Sensible Heating Capacity

PI: Power Input

(Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

[°C] [°C] [kW]

kW]

[kW]

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1. All capacities are net, evaporator fan motor heat is deducted.

2. Direct interpolation is permissible. Do not extrapolate.

H12S1DA.SS1 (S3-M121A1DA.EC6GEEU)

Outdoor Air								Indo	or Air	Temp	eratu	re:°0	C DB /	°CW	В						
Temperature		18 / 1	2		20 / 1	4	:	22 / 10	6		25 / 18	3		27 / 1	9	:	29 / 19	9	;	32 / 23	3
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	Pl	TC	SHC	PI	TC	SHC	PI
-15	2.31	1.83	0.44	2.89	1.95	0.52	3.47	2.07	0.60	4.19	2.22	0.70	4.62	2.31	0.76	4.85	2.97	0.79	5.16	3.89	0.83
-10	2.38	1.91	0.46	2.98	2.03	0.55	3.57	2.16	0.63	4.32	2.31	0.74	4.77	2.41	0.80	5.00	3.10	0.83	5.32	4.05	0.87
-5	2.56	2.05	0.45	3.08	2.18	0.55	3.59	2.32	0.65	4.24	2.48	0.76	4.63	2.58	0.84	4.89	3.16	0.87	5.24	3.97	0.93
-1	2.70	2.16	0.50	3.18	2.28	0.59	3.66	2.40	0.67	4.26	2.55	0.78	4.62	2.64	0.85	4.87	3.18	0.88	5.22	3.92	0.94
0	2.74	2.20	0.52	3.21	2.31	0.60	3.68	2.43	0.68	4.26	2.57	0.79	4.61	2.66	0.85	4.87	3.18	0.89	5.22	3.90	0.94
4	2.90	2.32	0.57	3.32	2.42	0.64	3.75	2.52	0.71	4.28	2.65	0.80	4.60	2.72	0.86	4.85	3.19	0.90	5.20	3.85	0.95
10	3.10	2.49	0.64	3.47	2.57	0.70	3.84	2.65	0.76	4.30	2.75	0.83	4.57	2.81	0.87	4.82	3.21	0.91	5.17	3.77	0.96
16	3.30	2.65	0.71	3.61	2.71	0.75	3.93	2.77	0.80	4.32	2.84	0.85	4.55	2.89	0.89	4.80	3.23	0.92	5.14	3.70	0.98
18	3.27	2.62	0.74	3.57	2.70	0.79	3.86	2.77	0.83	4.23	2.86	0.88	4.46	2.92	0.91	4.71	3.24	0.95	5.05	3.69	1.00
20	3.25	2.61	0.76	3.54	2.69	0.81	3.83	2.77	0.85	4.18	2.87	0.90	4.40	2.93	0.93	4.65	3.25	0.97	4.99	3.68	1.02
25	3.10	2.56	0.78	3.35	2.67	0.81	3.60	2.77	0.85	3.91	2.90	0.89	4.10	2.98	0.92	4.34	3.26	0.95	4.67	3.64	1.00
30	2.94	2.52	0.78	3.16	2.64	0.81	3.37	2.77	0.84	3.64	2.93	0.88	3.80	3.03	0.90	4.03	3.27	0.93	4.35	3.61	0.98
35	2.78	2.47	0.79	2.96	2.62	0.81	3.14	2.77	0.84	3.36	2.96	0.87	3.50	3.07	0.89	3.72	3.29	0.92	4.03	3.58	0.96
41	2.69	2.29	0.97	2.88	2.45	1.00	3.07	2.61	1.03	3.31	2.82	1.07	3.46	2.94	1.09	3.67	3.12	1.12	3.96	3.38	1.17
46	2.47	2.03	1.11	2.66	2.18	1.14	2.85	2.34	1.18	3.08	2.53	1.22	3.23	2.65	1.25	3.42	2.81	1.29	3.69	3.02	1.34
48	2.41	1.98	1.11	2.60	2.13	1.15	2.78	2.28	1.19	3.01	2.47	1.23	3.15	2.58	1.26	3.34	2.74	1.30	3.60	2.95	1.35

Symbol DB : Dry Bulb Temperature WB : Wet Bulb Temperature TC : Total Capacity SHC : Sensible Heating Capacity

PI: Power Input

(Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

[°C] [°C] [kW]

kW]

[kW]

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1. All capacities are net, evaporator fan motor heat is deducted.

2. Direct interpolation is permissible. Do not extrapolate.

H18S1DA.SS1 (S3-M181L1DA.EC6GEEU)

Outdoor Air								Indo	or Air	Temp	eratu	re:°0	C DB /	°CW	В						
Temperature		18 / 1	2		20 / 1	4		22 / 1	6	2	25 / 18	3		27 / 1	9		29 / 19	9	;	32 / 23	3
°C DB	TC	SHC	Pl	TC	SHC	Pl	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	Pl	TC	SHC	PI
-15	2.89	2.41	0.54	3.61	2.56	0.64	4.33	2.72	0.74	5.24	2.91	0.87	5.78	3.03	0.94	6.06	3.90	0.98	6.45	5.11	1.03
-10	2.98	2.51	0.57	3.72	2.67	0.67	4.47	2.83	0.78	5.40	3.03	0.91	5.96	3.16	0.99	6.25	4.06	1.03	6.65	5.32	1.08
-5	3.20	2.69	0.56	3.84	2.86	0.68	4.49	3.04	0.80	5.30	3.26	0.95	5.79	3.39	1.03	6.11	4.15	1.08	6.55	5.21	1.15
-1	3.37	2.84	0.62	3.97	2.99	0.73	4.57	3.15	0.83	5.32	3.35	0.97	5.77	3.46	1.05	6.09	4.17	1.09	6.53	5.14	1.16
0	3.42	2.88	0.64	4.01	3.03	0.74	4.59	3.18	0.84	5.33	3.37	0.97	5.77	3.49	1.05	6.08	4.17	1.10	6.52	5.12	1.16
4	3.62	3.05	0.71	4.15	3.18	0.79	4.68	3.31	0.88	5.35	3.47	0.99	5.74	3.57	1.06	6.06	4.19	1.11	6.49	5.04	1.18
10	3.87	3.26	0.79	4.33	3.37	0.86	4.79	3.47	0.93	5.37	3.60	1.02	5.72	3.68	1.08	6.03	4.21	1.13	6.46	4.95	1.19
16	4.12	3.47	0.87	4.52	3.55	0.93	4.91	3.63	0.98	5.40	3.73	1.05	5.69	3.79	1.09	6.00	4.24	1.14	6.43	4.85	1.21
18	4.09	3.44	0.92	4.46	3.54	0.97	4.83	3.63	1.02	5.29	3.76	1.09	5.57	3.83	1.13	5.88	4.25	1.18	6.31	4.83	1.24
20	4.06	3.42	0.95	4.42	3.53	1.00	4.78	3.64	1.05	5.23	3.77	1.11	5.50	3.85	1.15	5.81	4.26	1.20	6.24	4.82	1.26
25	4.03	3.28	1.08	4.36	3.41	1.13	4.68	3.55	1.18	5.09	3.72	1.24	5.33	3.82	1.28	5.65	4.17	1.33	6.08	4.66	1.39
30	4.00	3.14	1.23	4.29	3.30	1.27	4.58	3.46	1.32	4.95	3.66	1.38	5.17	3.78	1.41	5.48	4.09	1.46	5.92	4.51	1.53
35	3.97	3.01	1.37	4.23	3.20	1.41	4.49	3.38	1.46	4.81	3.61	1.51	5.00	3.75	1.54	5.32	4.01	1.59	5.76	4.37	1.66
41	3.60	2.68	1.50	3.86	2.87	1.55	4.12	3.06	1.60	4.44	3.29	1.66	4.63	3.43	1.70	4.92	3.65	1.75	5.31	3.95	1.82
46	3.09	2.26	1.59	3.33	2.43	1.64	3.56	2.60	1.69	3.86	2.82	1.75	4.03	2.95	1.79	4.27	3.12	1.85	4.61	3.37	1.92
48	3.01	2.20	1.60	3.24	2.37	1.65	3.47	2.54	1.70	3.76	2.75	1.77	3.93	2.88	1.80	4.17	3.05	1.86	4.50	3.29	1.94

Symbol DB : Dry Bulb Temperature WB : Wet Bulb Temperature TC : Total Capacity SHC : Sensible Heating Capacity

PI: Power Input

(Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

[°C] [°C] [kW]

kW]

[kW] [kW]

1. All capacities are net, evaporator fan motor heat is deducted.

2. Direct interpolation is permissible. Do not extrapolate.

H24S1DA.SS1 (S3-M24121DA.EC6GEEU)

Outdoor Air								Indo	or Air	Temp	eratu	re:°C	C DB /	°CW	В						
Temperature		18 / 1	2		20 / 1	4		22 / 10	6		25 / 18	3		27 / 19	9		29 / 19	9	:	32 / 23	3
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
-15	4.10	3.27	0.80	5.12	3.48	0.95	6.15	3.69	1.09	7.43	3.95	1.28	8.20	4.11	1.38	8.59	5.30	1.44	9.15	6.93	1.51
-10	4.22	3.40	0.84	5.28	3.62	0.99	6.34	3.84	1.14	7.66	4.12	1.34	8.45	4.28	1.45	8.86	5.52	1.51	9.43	7.22	1.59
-5	4.53	3.65	0.83	5.45	3.89	1.00	6.37	4.12	1.17	7.52	4.42	1.39	8.21	4.60	1.52	8.66	5.63	1.59	9.29	7.07	1.69
-1	4.78	3.85	0.91	5.63	4.07	1.07	6.48	4.28	1.22	7.55	4.54	1.42	8.18	4.70	1.54	8.63	5.66	1.61	9.26	6.98	1.70
0	4.85	3.91	0.94	5.68	4.12	1.09	6.51	4.32	1.24	7.55	4.58	1.43	8.18	4.73	1.54	8.63	5.66	1.61	9.25	6.95	1.71
4	5.14	4.14	1.04	5.89	4.32	1.17	6.64	4.49	1.30	7.58	4.72	1.46	8.15	4.85	1.56	8.59	5.69	1.63	9.21	6.85	1.73
10	5.49	4.43	1.16	6.15	4.57	1.27	6.80	4.71	1.37	7.62	4.89	1.50	8.11	5.00	1.58	8.55	5.72	1.65	9.16	6.72	1.75
16	5.85	4.71	1.28	6.40	4.82	1.37	6.96	4.93	1.45	7.65	5.07	1.55	8.07	5.15	1.61	8.51	5.75	1.68	9.12	6.59	1.78
18	5.80	4.67	1.35	6.32	4.80	1.43	6.85	4.93	1.50	7.51	5.10	1.60	7.90	5.20	1.66	8.34	5.77	1.73	8.95	6.56	1.82
20	5.76	4.65	1.39	6.27	4.79	1.46	6.78	4.94	1.54	7.42	5.12	1.63	7.80	5.23	1.69	8.24	5.78	1.76	8.85	6.55	1.85
25	5.59	4.37	1.56	6.04	4.55	1.63	6.50	4.73	1.71	7.06	4.96	1.79	7.40	5.09	1.85	7.83	5.57	1.92	8.43	6.22	2.01
30	5.42	4.12	1.74	5.81	4.33	1.81	6.21	4.54	1.87	6.70	4.80	1.96	7.00	4.95	2.01	7.43	5.36	2.07	8.02	5.91	2.17
35	5.24	3.87	1.92	5.58	4.11	1.98	5.92	4.34	2.04	6.35	4.64	2.12	6.60	4.82	2.16	7.02	5.15	2.23	7.60	5.61	2.32
41	4.75	3.42	2.16	5.09	3.66	2.23	5.43	3.90	2.30	5.86	4.20	2.39	6.12	4.38	2.44	6.49	4.66	2.52	7.00	5.04	2.62
46	4.08	2.86	2.34	4.39	3.08	2.41	4.70	3.29	2.48	5.09	3.57	2.58	5.32	3.73	2.63	5.64	3.95	2.71	6.08	4.26	2.83
48	3.98	2.79	2.35	4.28	3.00	2.43	4.58	3.21	2.50	4.96	3.48	2.60	5.19	3.64	2.65	5.51	3.86	2.73	5.94	4.16	2.85

Symbol DB : Dry Bulb Temperature WB : Wet Bulb Temperature TC : Total Capacity SHC : Sensible Heating Capacity

PI: Power Input

(Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

[°C] [°C] [kW]

kW]

[kW]

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1. All capacities are net, evaporator fan motor heat is deducted.

2. Direct interpolation is permissible. Do not extrapolate.

8.2 Rated Heating Capacity

H09S1PA.SS1 (S3-M091L1CA.EC6GEEU)

Outdo	oor Air						Indoor	Air Temp	perature	: °C DB					
Tempe	erature	1	6	1	8	2	20	2	1	2	2	2	4	3	0
°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
-14	-15	3.39	1.35	3.28	1.33	3.25	1.33	3.22	1.32	3.19	1.32	3.13	1.31	3.06	1.31
-9	-10	3.65	1.41	3.54	1.39	3.50	1.39	3.47	1.38	3.44	1.38	3.37	1.36	3.29	1.36
-4	-5	3.82	1.36	3.71	1.35	3.67	1.35	3.63	1.34	3.61	1.34	3.53	1.32	3.45	1.32
1	0	3.98	1.17	3.86	1.16	3.82	1.16	3.78	1.15	3.76	1.15	3.68	1.14	3.59	1.14
2	1	4.01	1.14	3.89	1.13	3.85	1.13	3.81	1.11	3.78	1.11	3.71	1.10	3.62	1.10
7	6	3.33	0.65	3.23	0.64	3.20	0.64	3.17	0.63	3.14	0.63	3.08	0.63	3.01	0.63
12	11	5.42	1.47	5.25	1.45	5.20	1.45	5.15	1.44	5.11	1.44	5.01	1.42	4.89	1.42
18	14	5.65	1.51	5.47	1.49	5.42	1.49	5.37	1.48	5.32	1.48	5.22	1.46	5.09	1.46
24	18	5.83	1.55	5.66	1.54	5.60	1.54	5.54	1.52	5.50	1.52	5.39	1.51	5.26	1.51

°C] °C]

[kW]

[kW]

Symbol

- DB : Dry Bulb Temperature WB : Wet Bulb Temperature TC : Total Capacity

PI: Power Input

(Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

- 2. Direct interpolation is permissible. Do not extrapolate.
- 3. Capacities are based on the following conditions. Interconnecting Piping Length 7.5 m (24.6 ft.)
 Level Difference of Zero.

H12S1PA.SS1 (S3-M121L1CA.EC6GEEU)

Outdo	or Air						Indoor	Air Temp	erature	: °C DB					
Tempe	erature	1	6	1	8	2	20	2	1	2	2	2	4	3	0
°C DB	°C WB	TC	Pl	TC	Pl	TC	PI	TC	Pl	TC	Pl	TC	PI	TC	PI
-14	-15	3.76	1.50	3.65	1.48	3.61	1.48	3.58	1.47	3.55	1.47	3.48	1.45	3.39	1.45
-9	-10	4.05	1.56	3.93	1.55	3.89	1.55	3.85	1.53	3.82	1.53	3.75	1.52	3.66	1.52
-4	-5	4.26	1.51	4.13	1.50	4.09	1.50	4.04	1.49	4.01	1.49	3.93	1.47	3.84	1.47
1	0	4.45	1.30	4.31	1.29	4.27	1.29	4.22	1.28	4.19	1.28	4.11	1.26	4.01	1.26
2	1	4.48	1.26	4.34	1.25	4.30	1.25	4.26	1.24	4.22	1.24	4.14	1.23	4.04	1.23
7	6	4.17	0.86	4.04	0.85	4.00	0.85	3.96	0.84	3.93	0.84	3.85	0.83	3.76	0.83
12	11	6.06	1.63	5.87	1.61	5.81	1.61	5.76	1.60	5.71	1.60	5.60	1.58	5.46	1.58
18	14	6.31	1.68	6.12	1.66	6.06	1.66	6.00	1.64	5.95	1.64	5.83	1.63	5.69	1.63
24	18	6.52	1.72	6.32	1.71	6.26	1.71	6.20	1.69	6.15	1.69	6.03	1.67	5.88	1.67

°C] °C] [kW]

[kW]

Symbol DB : Dry Bulb Temperature WB : Wet Bulb Temperature TC : Total Capacity PI : Pow er Input

(Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

- 2. Direct interpolation is permissible. Do not extrapolate.
- 3. Capacities are based on the following conditions. Interconnecting Piping Length 7.5 m (24.6 ft.)
 Level Difference of Zero.

H09S1DA.SS1 (S3-M091A1DA.EC6GEEU)

Outdo	or Air						Indoor	Air Temp	erature	: °C DB					
Tempe	erature	1	6	1	8	2	0	2	1	2	2	2	4	3	0
°C DB	°C WB	TC	Pl	TC	Pl	TC	PI	TC	PI	TC	Pl	TC	PI	TC	PI
-14	-15	3.10	1.41	3.01	1.40	2.98	1.40	2.95	1.39	2.93	1.39	2.87	1.37	2.80	1.37
-9	-10	3.34	1.47	3.24	1.46	3.21	1.46	3.18	1.45	3.15	1.45	3.09	1.43	3.02	1.43
-4	-5	3.56	1.43	3.45	1.42	3.41	1.42	3.38	1.40	3.35	1.40	3.29	1.39	3.21	1.39
1	0	3.81	1.23	3.69	1.22	3.66	1.22	3.62	1.20	3.59	1.20	3.52	1.19	3.44	1.19
2	1	3.85	1.19	3.74	1.18	3.70	1.18	3.66	1.17	3.64	1.17	3.56	1.16	3.48	1.16
7	6	3.33	0.71	3.23	0.70	3.20	0.70	3.17	0.69	3.14	0.69	3.08	0.69	3.01	0.69
12	11	5.11	1.54	4.95	1.52	4.90	1.52	4.85	1.50	4.81	1.50	4.72	1.49	4.61	1.49
18	14	5.32	1.58	5.16	1.56	5.11	1.56	5.06	1.55	5.02	1.55	4.92	1.53	4.80	1.53
24	18	5.50	1.62	5.33	1.61	5.28	1.61	5.22	1.59	5.18	1.59	5.08	1.58	4.96	1.58

°C] °C] [kW]

[kW]

Symbol DB : Dry Bulb Temperature WB : Wet Bulb Temperature TC : Total Capacity PI : Pow er Input

(Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

- 2. Direct interpolation is permissible. Do not extrapolate.
- 3. Capacities are based on the following conditions. Interconnecting Piping Length 7.5 m (24.6 ft.)
 Level Difference of Zero.

H12S1DA.SS1 (S3-M121A1DA.EC6GEEU)

Outdo	or Air						Indoor	Air Temp	perature	: °C DB					
Tempe	erature	1	6	1	8	2	20	2	:1	2	2	2	4	3	0
°C DB	°C WB	TC	Pl	TC	Pl	TC	PI	TC	Pl	TC	Pl	TC	PI	TC	PI
-14	-15	3.39	1.52	3.28	1.50	3.25	1.50	3.22	1.49	3.19	1.49	3.13	1.47	3.06	1.47
-9	-10	3.65	1.58	3.54	1.57	3.50	1.57	3.47	1.55	3.44	1.55	3.37	1.54	3.29	1.54
-4	-5	3.89	1.54	3.78	1.53	3.74	1.53	3.70	1.51	3.67	1.51	3.60	1.50	3.51	1.50
1	0	4.20	1.35	4.07	1.34	4.03	1.34	3.99	1.32	3.96	1.32	3.88	1.31	3.79	1.31
2	1	4.26	1.31	4.13	1.30	4.08	1.30	4.04	1.29	4.01	1.29	3.93	1.27	3.84	1.27
7	6	4.17	0.93	4.04	0.92	4.00	0.92	3.96	0.91	3.93	0.91	3.85	0.90	3.76	0.90
12	11	5.73	1.67	5.56	1.65	5.50	1.65	5.45	1.63	5.40	1.63	5.30	1.62	5.17	1.62
18	14	5.97	1.71	5.79	1.70	5.73	1.70	5.68	1.68	5.63	1.68	5.52	1.66	5.39	1.66
24	18	6.17	1.76	5.98	1.75	5.92	1.75	5.86	1.73	5.82	1.73	5.70	1.71	5.57	1.71

°C] °C] [kW]

[kW]

Symbol DB : Dry Bulb Temperature WB : Wet Bulb Temperature TC : Total Capacity PI : Pow er Input

(Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

- 2. Direct interpolation is permissible. Do not extrapolate.
- 3. Capacities are based on the following conditions. Interconnecting Piping Length 7.5 m (24.6 ft.)
 Level Difference of Zero.

H18S1DA.SS1 (S3-M181L1DA.EC6GEEU)

Outdo	or Air						Indoor	Air Temp	erature	: °C DB					
Tempe	erature	1	6	1	8	2	0	2	1	2	2	2	4	3	0
°C DB	°C WB	TC	Pl	TC	Pl	TC	PI	TC	Pl	TC	Pl	TC	PI	TC	PI
-14	-15	4.37	1.83	4.24	1.81	4.20	1.81	4.16	1.79	4.13	1.79	4.04	1.77	3.95	1.77
-9	-10	4.71	1.90	4.57	1.89	4.52	1.89	4.48	1.87	4.44	1.87	4.35	1.85	4.25	1.85
-4	-5	4.93	1.94	4.78	1.92	4.74	1.92	4.69	1.90	4.65	1.90	4.56	1.88	4.45	1.88
1	0	5.12	1.88	4.97	1.86	4.92	1.86	4.87	1.84	4.83	1.84	4.73	1.82	4.62	1.82
2	1	5.16	1.87	5.00	1.85	4.95	1.85	4.90	1.83	4.86	1.83	4.77	1.81	4.65	1.81
7	6	6.04	1.58	5.86	1.56	5.80	1.56	5.74	1.54	5.70	1.54	5.58	1.53	5.45	1.53
12	11	6.46	1.72	6.26	1.70	6.20	1.70	6.14	1.68	6.09	1.68	5.97	1.67	5.83	1.67
18	14	6.73	1.77	6.53	1.75	6.46	1.75	6.40	1.73	6.35	1.73	6.22	1.71	6.07	1.71
24	18	6.96	1.82	6.74	1.80	6.68	1.80	6.61	1.78	6.56	1.78	6.43	1.76	6.27	1.76

°C] °C] [kW]

[kW]

- Symbol DB : Dry Bulb Temperature WB : Wet Bulb Temperature TC : Total Capacity PI : Pow er Input

- (Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

- 2. Direct interpolation is permissible. Do not extrapolate.
- 3. Capacities are based on the following conditions. Interconnecting Piping Length 7.5 m (24.6 ft.)
 Level Difference of Zero.

H24S1DA.SS1 (S3-M24121DA.EC6GEEU)

Outdo	oor Air						Indoor	Air Temp	erature	: °C DB					
Tempe	erature	1	6	1	8	2	0	2	1	2	2	2	4	3	0
°C DB	°C WB	TC	Pl	TC	Pl	TC	PI	TC	Pl	TC	Pl	TC	PI	TC	PI
-14	-15	5.64	2.26	5.47	2.23	5.42	2.23	5.36	2.21	5.32	2.21	5.22	2.19	5.09	2.19
-9	-10	6.08	2.35	5.89	2.33	5.83	2.33	5.78	2.31	5.73	2.31	5.62	2.28	5.48	2.28
-4	-5	6.20	2.43	6.01	2.40	5.95	2.40	5.89	2.38	5.84	2.38	5.73	2.35	5.59	2.35
1	0	6.08	2.41	5.90	2.38	5.84	2.38	5.78	2.36	5.74	2.36	5.62	2.34	5.49	2.34
2	1	6.06	2.40	5.88	2.38	5.82	2.38	5.76	2.36	5.72	2.36	5.60	2.33	5.47	2.33
7	6	7.81	2.26	7.58	2.24	7.50	2.24	7.43	2.22	7.37	2.22	7.22	2.19	7.05	2.19
12	11	9.04	2.91	8.77	2.88	8.68	2.88	8.59	2.85	8.53	2.85	8.36	2.82	8.16	2.82
18	14	9.42	2.99	9.14	2.96	9.05	2.96	8.96	2.93	8.89	2.93	8.71	2.90	8.50	2.90
24	18	9.74	3.08	9.44	3.05	9.35	3.05	9.25	3.02	9.18	3.02	9.00	2.99	8.78	2.99

°C] °C] [kW]

[kW]

- Symbol DB : Dry Bulb Temperature WB : Wet Bulb Temperature TC : Total Capacity PI : Pow er Input

(Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

- 2. Direct interpolation is permissible. Do not extrapolate.
- 3. Capacities are based on the following conditions. Interconnecting Piping Length 7.5 m (24.6 ft.)
 Level Difference of Zero.

9. Capacity Coefficient Factor

9.1 Capacity Change Rate (%)

					Refrig	jerant l	Pipe Le	ngth				
Model	m	5	7.5	10	15	20	25	30	35	40	45	50
	ft	16.4	24.6	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0
H09S1PA.SS1	Cooling	100	100	-	-	-	-	-	-	-	-	-
(S3-M091L1CA.EC6GEEU)	Heating	100	100	-	-	-	-	-	-	-	-	-
H12S1PA.SS1	Cooling	100	100	-	-	-	-	-	-	-	-	-
(S3-M121L1CA.EC6GEEU)	Heating	100	100	-	-	-	-	-	-	-	-	-
H09S1DA.SS1	Cooling	100	100	-	-	-	-	-	-	-	-	-
(S3-M091A1DA.EC6GEEU)	Heating	100	100	-	-	-	-	-	-	-	-	-
H12S1DA.SS1	Cooling	100	100	-	-	-	-	-	-	-	-	-
(S3-M121A1DA.EC6GEEU)	Heating	100	100	-	-	-	-	-	-	-	-	-
H18S1DA.SS1	Cooling	100	100	-	-	-	-	-	-	-	-	-
(S3-M181L1DA.EC6GEEU)	Heating	100	100	-	-	-	-	-	-	-	-	-
H24S1DA.SS1	Cooling	100	100	-	-	-	-	-	-	-	-	-
(S3-M24121DA.EC6GEEU)	Heating	100	100	-	-	-	-	-	-	-	-	-

9. Capacity Coefficient Factor

9.2 Pipe Size, Length and Elevation

		Pipe	Size		Standard	Min. / Max.	Max.	Additional	No Charge
Model	Ga	as	Liq	uid	•	Pipe Length		•	
	mm	inch	mm	inch	[m (ft.)]	A [m (ft.)]	B [m (ft.)]	[g/m (oz./ft.)]	[m (ft.)]
H09S1PA.SS1	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5	3 / 20	10	20	12.5
(S3-M091L1CA.EC6GEEU)	Ø 9.5Z	0 5/0	0.55	Ø 1/4	(24.6)	(9.8 / 65.6)	(32.8)	(0.22)	(41)
H12S1PA.SS1	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5	3 / 20	10	20	12.5
(S3-M121L1CA.EC6GEEU)	Ø 9.5Z	0 3/0	00.35	Ø 1/4	(24.6)	(9.8 / 65.6)	(32.8)	(0.22)	(41)
H09S1DA.SS1	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5	3 / 20	10	20	12.5
(S3-M091A1DA.EC6GEEU)	Ø 9.5Z	0 3/0	00.35	Ø 1/4	(24.6)	(9.8 / 65.6)	(32.8)	(0.22)	(41)
H12S1DA.SS1	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5	3 / 20	10	20	12.5
(S3-M121A1DA.EC6GEEU)	Ø 9.5Z	0 3/0	00.35	Ø 1/4	(24.6)	(9.8 / 65.6)	(32.8)	(0.22)	(41)
H18S1DA.SS1	ø 12.7	ø 1/2	ø 6.35	ø 1/4	7.5	3 / 20	10	20	7.5
(S3-M181L1DA.EC6GEEU)	Ø 12.7	Ø 1/Z	00.35	Ø 1/4	(24.6)	(9.8 / 65.6)	(32.8)	(0.22)	(24.6)
H24S1DA.SS1	Ø	a 5/9	ø 6.35	a 1/4	7.5	3 / 30	15	20	7.5
(S3-M24121DA.EC6GEEU)	15.88	ø 5/8	0.35	ø 1/4	(24.6)	(9.8 / 98.4)	(49.2)	(0.22)	(24.6)

Indoor unit			Outdoor unit
			₹ <u>L</u>
	Outdoor unit	Indoor unit	
B			B
	≌IJ		

WARNING

• It may cause reliability, performance, noise, and vibration problem, if piping limitations are not met. Keep minimum piping length by making loops, although indoor unit and outdoor unit are close.

9. Capacity Coefficient Factor

9.3 Additional Refrigerant Charge

					Ref	irigerar	nt Pipe	Length					
Model	m	5	7.5	10	12.5	15	20	25	30	35	40	45	50
	ft	16.4	24.6	32.8	41.0	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0
H09S1PA.SS1		0	0	0	0	50	150						
(S3-M091L1CA.EC6GEEU)		0	0	0	0	(1.8)	(5.4)	-	-	-	-	-	-
H12S1PA.SS1		0	0	0	0	50	150						
(S3-M121L1CA.EC6GEEU)		0	0	0	0	(1.8)	(5.4)	-	-	-	-	-	-
H09S1DA.SS1	A alaliti a a al	0	0	0	0	50	150						
(S3-M091A1DA.EC6GEEU)	Additional Charge	0	0	0	0	(1.8)	(5.4)	-	-	-	-	-	-
H12S1DA.SS1	[g (oz.)]	0	0	0	0	50	150						
(S3-M121A1DA.EC6GEEU)	[g (02.)]	0	0	0	0	(1.8)	(5.4)	-	-	-	-	-	-
H18S1DA.SS1		0	0	50	100	150	250						
(S3-M181L1DA.EC6GEEU)		0	0	(1.8)	(3.6)	(5.4)	(9.0)	-	-	-	-	-	-
H24S1DA.SS1		0	0	50	100	150	250	350	450				
(S3-M24121DA.EC6GEEU)		0	0	(1.8)	(3.6)	(5.4)	(9.0)	(12.6)	(16.2)	-	-	-	-

Note

- Capacity is based on standard length and maximum allowance length is on the basis of reliability.
- Equivalent Pipe Length = Actual Pipe Length + Number of Bends x 0.3
 Calculation : X g (oz.) = [(Refrigerant Pipe Length) (No Charge Pipe Length)] × (Additional Refrigerant)
 There is no need to charge refrigerant till no charge pipe length based on reliability
H09S1PA.SS1 (S3-M091L1CA.EC6GEEU)



H12S1PA.SS1 (S3-M121L1CA.EC6GEEU)



H09S1DA.SS1 (S3-M091A1DA.EC6GEEU)



H12S1DA.SS1 (S3-M121A1DA.EC6GEEU)



H18S1DA.SS1 (S3-M181L1DA.EC6GEEU)



H24S1DA.SS1 (S3-M24121DA.EC6GEEU)



H09S1PA.SS1 (S3-M091L1CA.EC6GEEU)

Cooling



Side View

Discharge Angle : 45° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power



Top View

Discharge Angle : 45° (From the floor $\overline{\checkmark}$) Vertical Louver : Center Fan Speed : Power Air Speed 0.3 m/s (1 ft./s) Range : 12 m (39.4 ft.)



Top View

Discharge Angle : 45° (From the floor 🖵) Vertical Louver : Left & Right Fan Speed : Power

Heating



Side View

Discharge Angle : 55° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power



Top View

Discharge Angle : 55° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power Air Speed 0.3 m/s (1 ft./s) Range : 12.5 m (41 ft.)



Top View

Discharge Angle : 55° (From the floor 🤛) Vertical Louver : Left & Right Fan Speed : Power

H12S1PA.SS1 (S3-M121L1CA.EC6GEEU)

Cooling



Side View

Discharge Angle : 45° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power



Top View

Discharge Angle : 45° (From the floor $\overline{\checkmark}$) Vertical Louver : Center Fan Speed : Power Air Speed 0.3 m/s (1 ft./s) Range : 12 m (39.4 ft.)



Top View

Discharge Angle : 45° (From the floor 🖵) Vertical Louver : Left & Right Fan Speed : Power

Heating



Side View

Discharge Angle : 55° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power



Top View

Discharge Angle : 55° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power Air Speed 0.3 m/s (1 ft./s) Range : 12.5 m (41 ft.)



Top View

Discharge Angle : 55° (From the floor 🤛) Vertical Louver : Left & Right Fan Speed : Power

H09S1DA.SS1 (S3-M091A1DA.EC6GEEU)

Cooling



Side View

Discharge Angle : 45° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power



Top View

Discharge Angle : 45° (From the floor $\overline{\checkmark}$) Vertical Louver : Center Fan Speed : Power Air Speed 0.3 m/s (1 ft./s) Range : 12 m (39.4 ft.)



Top View

Discharge Angle : 45° (From the floor 🖵) Vertical Louver : Left & Right Fan Speed : Power

Heating



Side View

Discharge Angle : 55° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power



Top View

Discharge Angle : 55° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power Air Speed 0.3 m/s (1 ft./s) Range : 12.5 m (41 ft.)



Top View

Discharge Angle : 55° (From the floor 🤛) Vertical Louver : Left & Right Fan Speed : Power

H12S1DA.SS1 (S3-M121A1DA.EC6GEEU)

Cooling



Side View

Discharge Angle : 45° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power



Top View

Discharge Angle : 45° (From the floor $\overline{\checkmark}$) Vertical Louver : Center Fan Speed : Power Air Speed 0.3 m/s (1 ft./s) Range : 12 m (39.4 ft.)



Top View

Discharge Angle : 45° (From the floor 🔽) Vertical Louver : Left & Right Fan Speed : Power

Heating



Side View

Discharge Angle : 55° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power



Top View

Discharge Angle : 55° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power Air Speed 0.3 m/s (1 ft./s) Range : 12.5 m (41 ft.)



Top View

Discharge Angle : 55° (From the floor 🤛) Vertical Louver : Left & Right Fan Speed : Power

H18S1DA.SS1 (S3-M181L1DA.EC6GEEU)

Cooling



Side View

Discharge Angle : 45° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power



Top View

Discharge Angle : 45° (From the floor $\overline{\checkmark}$) Vertical Louver : Center Fan Speed : Power Air Speed 0.3 m/s (1 ft./s) Range : 12 m (39.4 ft.)



Top View

Discharge Angle : 45° (From the floor 🔽) Vertical Louver : Left & Right Fan Speed : Power

Heating



Side View

Discharge Angle : 55° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power



Top View

Discharge Angle : 55° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power Air Speed 0.3 m/s (1 ft./s) Range : 12.5 m (41 ft.)



Top View

Discharge Angle : 55° (From the floor 🤛) Vertical Louver : Left & Right Fan Speed : Power

H24S1DA.SS1 (S3-M24121DA.EC6GEEU)

Cooling



Side View

Discharge Angle : 45° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power



Top View

Discharge Angle : 45° (From the floor $\overline{\checkmark}$) Vertical Louver : Center Fan Speed : Power Air Speed 0.3 m/s (1 ft./s) Range : 12 m (39.4 ft.)



Top View

Discharge Angle : 45° (From the floor 🖵) Vertical Louver : Left & Right Fan Speed : Power

Heating



Side View

Discharge Angle : 55° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power



Top View

Discharge Angle : 55° (From the floor \checkmark) Vertical Louver : Center Fan Speed : Power Air Speed 0.3 m/s (1 ft./s) Range : 12.5 m (41 ft.)



Top View

Discharge Angle : 55° (From the floor 🤛) Vertical Louver : Left & Right Fan Speed : Power

12.1 Sound Pressure Level (Indoor Unit)



Note

- Sound measured at 1 m (3.3 ft.) away from the unit.
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Reference acoustic pressure 0 dB=20 µPa.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
- The operating conditions are assumed to be standard.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
- Sound level is measured in an anechoic room and may be different according to the test condition or equipment.

		Sound Levels [dB (A)]				
Model	Cooling			Heating		
	н	М	L	н	м	L
H09S1PA.NS1 (S3NM091L1CA.EC6GEEU)	40	35	27	40	35	27
H12S1PA.NS1 (S3NM121L1CA.EC6GEEU)	40	35	27	40	35	27
H09S1DA.NS1 (S3NM091A1DA.EC6GEEU)	40	35	27	40	35	27
H12S1DA.NS1 (S3NM121A1DA.EC6GEEU)	40	35	27	40	35	27
H18S1DA.NS1 (S3NM181L1DA.EC6GEEU)	44	39	34	44	39	34
H24S1DA.NS1 (S3NM24121DA.EC6GEEU)	47	42	34	47	42	34

H09S1PA.NS1 (S3NM091L1CA.EC6GEEU)

Cooling





H12S1PA.NS1 (S3NM121L1CA.EC6GEEU)







H09S1DA.NS1 (S3NM091A1DA.EC6GEEU)



H12S1DA.NS1 (S3NM121A1DA.EC6GEEU)





H18S1DA.NS1 (S3NM181L1DA.EC6GEEU)











12.2 Sound Pressure Level (Outdoor Unit)



Note

- Sound measured at 1 m (3.3 ft.) away from the unit.
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Reference acoustic pressure 0 dB=20 $\mu Pa.$
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
- The operating conditions are assumed to be standard.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
- Sound level is measured in an anechoic room and may be different according to the test condition or equipment.

	Sound Levels [dB (A)]			
Model	Cooling	Heating		
	н	н		
H09S1PA.U18 (S3UM091L1CA.EC6GEEU)	49	51		
H12S1PA.U18 (S3UM121L1CA.EC6GEEU)	49	51		
H09S1DA.U12 (S3UM091A1DA.EC6GEEU)	49	51		
H12S1DA.U12 (S3UM121A1DA.EC6GEEU)	49	51		
H18S1DA.U18 (S3UM181L1DA.EC6GEEU)	53	55		
H24S1DA.U24 (S3UM24121DA.EC6GEEU)	54	57		

H09S1PA.U18 (S3UM091L1CA.EC6GEEU)



Heating



H12S1PA.U18 (S3UM121L1CA.EC6GEEU)



Cooling





H09S1DA.U12 (S3UM091A1DA.EC6GEEU)

Cooling





H12S1DA.U12 (S3UM121A1DA.EC6GEEU)







H18S1DA.U18 (S3UM181L1DA.EC6GEEU) Cooling 80 Front Back 70 NC-65 Octave Band Pressure Level (0 dB = 20 µPa) 60 NC-60 NC-55 50 NC-50 NC-45 40 NC-35 30 NC-30 NC-25 20 NC-20 ring <u>shold</u> NC-15 10 63 125 250 500 1000 2000 4000 8000 Octave Band Center Frequency (Hz)



H24S1DA.U24 (S3UM24121DA.EC6GEEU)





12.3 Sound Power Level (Indoor Unit)

Note

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Sound level can be increased in static pressure mode or used air guide.
- Sound power level is measured on the rated condition in the reverberation rooms.
- Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment in installed.
- Reference acoustic intensity 0dB = $10E-6\mu W/m^2$
- Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.

Model	Sound Levels [dB (A)]
H09S1PA.NS1 (S3NM091L1CA.EC6GEEU)	60
H12S1PA.NS1 (S3NM121L1CA.EC6GEEU)	60
H09S1DA.NS1 (S3NM091A1DA.EC6GEEU)	60
H12S1DA.NS1 (S3NM121A1DA.EC6GEEU)	60
H18S1DA.NS1 (S3NM181L1DA.EC6GEEU)	60
H24S1DA.NS1 (S3NM24121DA.EC6GEEU)	65

H09S1PA.NS1 (S3NM091L1CA.EC6GEEU)



 ■ High
 ▲ Middle
 ● Low 70 NR-70 ND 6 Level (0 dB = 10E-6 6 5 NR-50 Power L NR-45 A pund B IR-35 ND 3 20 NR-25 NR-2 125 250 50 500 1000 2000 4000 Octave Band Center Frequency (Hz) 8000

H12S1PA.NS1 (S3NM121L1CA.EC6GEEU)

Cooling

Cooling



Heating



H09S1DA.NS1 (S3NM091A1DA.EC6GEEU)



 ■ High
 ▲ Middle
 ● Low 70 NR-70 ND 6 ower Level (0 dB = 10E-6 8 8 NR-50 NR-45 A pund B IR-35 ND 3 20 NR-25 NR-2 125 250 50 500 1000 2000 4000 Octave Band Center Frequency (Hz) 8000

H12S1DA.NS1 (S3NM121A1DA.EC6GEEU)

Cooling

Cooling



Heating





H18S1DA.NS1 (S3NM181L1DA.EC6GEEU)



H24S1DA.NS1 (S3NM24121DA.EC6GEEU)



Heating

80



12.4 Sound Power Level (Outdoor Unit)

Note

- Data is valid at diffuse field condition.
- Data is valid at nominal operating condition.
- Sound level can be increased in static pressure mode or used air guide.
- Sound power level is measured on the rated condition in the reverberation rooms.
- Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment in installed.
- Reference acoustic intensity 0dB = 10E-6µW/m²
- Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.

Model	Sound Levels [dB (A)]
H09S1PA.U18 (S3UM091L1CA.EC6GEEU)	65
H12S1PA.U18 (S3UM121L1CA.EC6GEEU)	65
H09S1DA.U12 (S3UM091A1DA.EC6GEEU)	65
H12S1DA.U12 (S3UM121A1DA.EC6GEEU)	65
H18S1DA.U18 (S3UM181L1DA.EC6GEEU)	65
H24S1DA.U24 (S3UM24121DA.EC6GEEU)	70

H09S1PA.U18 (S3UM091L1CA.EC6GEEU)







H12S1PA.U18 (S3UM121L1CA.EC6GEEU)

Cooling







H09S1DA.U12 (S3UM091A1DA.EC6GEEU)



▲ Front ● Back 70 NR-70 60 NR-65 uW//m²) NR-6 10E-6| ower Level (0 dB NR-50 40 ID-4P f pung 30 NR-40 NR-35 NR-30 NR-25 NR-20 Threst 500 e Band C 1000 enter Fi 2000 4000 equency (Hz) 8000

H12S1DA.U12 (S3UM121A1DA.EC6GEEU)

Cooling

Cooling









H18S1DA.U18 (S3UM181L1DA.EC6GEEU)



H24S1DA.U24 (S3UM24121DA.EC6GEEU)





13. Remote Controller

Wireless Remote Controller

P/No	Applied Model
AKB76044202, AKB76044206	H09S1D.NS1 (S3NM091A1D0.EC6GEEU)

AKB76044206



13. Remote Controller

Power Turns the appliance on or off. Connecting to LG ThinQ Press and hold the Power button for about 3 seconds to prepare the statue for connecting appliance and Wi-Fi. Wood Selects the desired operation mode. • Each press changes the modes in this order: Cooling → Auto → Dehumidification → Heating → Fan Air Purify Press and hold the Mode button for about 3 seconds to supply clean, fresh air using ion particles and the filter. Soft Air Keep you cool without feeling a draft. Jet Mode Press and hold the Soft Air button for about 3 seconds to change the room temperature quickly. Temperature A, V Adjusts the desired room temperature. Image: the desired the mode button for about 3 seconds to detect people and set either a direct or indirect airflow direction up and down. Direct/Indirect Press and hold the % button for about 3 seconds to detect people and set either a direct or indirect airflow based on your preferences. Cleaning Mode Mile the remote control and appliance are turned off, press and hold the % button for about 3 seconds to automatically change to power saving operation when no one is present. Mile Her Previous setting. Aigust the airflow direction left and right. Mode Press and hold the %-button for about 3 seconds to automatically change to power saving operation when no one is present. Mile Here revious setting. Aigust the airflow direction le	Image	Description
Connecting to L6 ThinQ Press and hold the Power button for about 3 seconds to prepare the statue for connecting appliance and Wi-Fi. Mode Selects the desired operation mode. • Each press changes the modes in this order: Cooling → Auto → Defundification → Heating → Fan Air Purity Press and hold the Mode button for about 3 seconds to supply clean, fresh air using ion particles and the filter. Soft Soft Air Keep you cool without feeling a draft. Jet Mode Press and hold the Soft Air button for about 3 seconds to change the room temperature quickly. Image: Term Part and the filter. Soft Air Keep you cool without feeling a draft. Jet Mode Press and hold the Soft Air button for about 3 seconds to change the room temperature quickly. Adjusts the desired room temperature. Image: Term Part and the filter. Adjusts the desired norm temperature. Image: Term Part and the filter and the filter. Adjusts the distribut feeling a draft. Image: Term Part and the filter and the filter. Adjusts the desired norm temperature. Image: Term Part and the filter and the filter. Adjust the fan speed. Image: Term Part and the filter and the filter and the filter and the filter and the falter and th		
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Connecting appliance and Wi-Fi. Mode Selects the desired operation mode. • Each press changes the modes in this order: Cooling → Auto → Dehumidification → Heating → Fan Air Purify Press and hold the Mode button for about 3 seconds to supply clean, fresh air using ion particles and the filter. Soft Air *brektow Soft Air *brektow Soft Air *brektow Fam Speed +, Adjust the desired room temperature. Adjusts the desired room temperature. Image: Speed Adjusts the airflow direction up and down. Direct/Indirect Press and hold the % button for about 3 seconds to detect people and set either a direct or Indirect airflow based on your preferences. Cleaning Mode While the remote control and appliance are turned off, press and hold the % button for about 5 seconds to fix the vane for cleaning the vane easily. Adjusts the airflow direction left and right. Absence Detection Press and hold the Abutton for about 3 seconds to automatically change to power saving operation when no one is present. Adjusts the airflow direction left and right. Absence Detection Press and hold the Abutton for about 3 seconds to automatically change to power saving operation when no one is present. After (Left-Right Swing) Adjusts the airflow direction left and right. Absence Detection Press and hold the Abutton for about 3 seconds to automatically change to power saving operation when no one is present. <th>U</th> <td></td>	U	
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Yet Purify Each press changes the modes in this order: Cooling → Auto → Dehumidification → Heating → Fan Air Purify Press and hold the Mode button for about 3 seconds to supply clean, fresh air using ion particles and the filter. Soft Air Keep you cool without feeling a draft. Jet Mode Press and hold the Soft Air button for about 3 seconds to change the room temperature quickly. Fan Speed +, - Adjusts the desired room temperature. Fan Speed +, - Adjusts the airflow direction up and down. Direct/Indirect Press and hold the % button for about 3 seconds to detect people and set either a direct or Indirect airflow based on your preferences. Cleaning Mode		
Multiplication → Heating → Fan Air Purify Press and hold the Mode button for about 3 seconds to supply clean, fresh air using ion particles and the filter. Soft Air Keep you cool without feeling a draft. Jet Mode Press and hold the Soft Air button for about 3 seconds to change the room temperature quickly. Temp. Ran Speed +, - Adjusts the desired room temperature. Adjusts the desired room temperature. Image: the fan speed. Seconds to detect people and set either a direct or Indirect airflow based on your preferences. Image: the remote control and appliance are turned off, press and hold the % button for about 3 seconds to automatically change to power saving operation when no one is present. Image: the fair speed +, - Adjusts the airflow direction up and down. Direct/Indirect Press and hold the % button for about 3 seconds to detect people and set either a direct or Indirect airflow based on your preferences. Cleaning Mode While the remote control and appliance are turned off, press and hold the % button for about 3 seconds to automatically change to power saving operation when no one is present. Image: the power input. You can control energy consumption. Exit Image: the power input. You can control energy consumption. Exit Image: the power input. You can control energy consumption. Exit Image: the desired function.	(Mode)	
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Jet Mode Press and hold the Soft Air button for about 3 seconds to change the room temperature quickly. Image: Speed Temperature A, V Adjusts the desired room temperature. Adjusts the desired room temperature. Image: Speed Fan Speed +, - Adjust the fan speed. Adjust the fan speed. Image: Speed M(Up-Down Swing) Adjust the airflow direction up and down. Direct/Indirect Press and hold the % button for about 3 seconds to detect people and set either a direct or Indirect airflow based on your preferences. Cleaning Mode While the remote control and appliance are turned off, press and hold the % button for about 3 seconds to automatically change to power saving operation when no one is present. Adjusts the airflow direction left and right. Absence Detection Press and hold the Am-button for about 3 seconds to automatically change to power saving operation when no one is present. Ai (Energy Control) Decrease the power input. You can control energy consumption. Exit When entering the settings, press and hold the Ai button for about 3 seconds to return the previous setting. Exit When entering the settings, press and hold the Ai button for about 3 seconds to return the previous setting. Exit When entering the settings, press and hold the Ai button for about 3 seconds to return the previous setting. Cispic (Sieep)	Soft	
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Adjusts the desired room temperature. Image: Speed H,		
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Fan Adjust the fan speed. Speed M(Up-Down Swing) Adjusts the airflow direction up and down. Direct/Indirect Press and hold the M button for about 3 seconds to detect people and set either a direct or Indirect airflow based on your preferences. Cleaning Mode While the remote control and appliance are turned off, press and hold the M button for about 5 seconds to fix the vane for cleaning the vane easily. Adjusts the airflow direction left and right. Absence Detection Adjusts the airflow direction left and right. Absence Detection Yeress and hold the A button for about 3 seconds to automatically change to power saving operation when no one is present. Image: Adjust Seconds to automatically change to power saving operation when no one is present. Image: Adjust Seconds to Press and hold the Image: Adjust Seconds to automatically change to power saving operation when no one is present. Image: Adjust Seconds to automatically change to power saving operation when no one is present. Image: Adjust Seconds to Press and hold the Image: Adjust Seconds to automatically change to power saving operation when no one is present. Image: Adjust Seconds to Press and hold the Image: Adjust Seconds to return the previous setting. Image: Adjust Seconds Secon		Fan Speed 🕂, —
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Press and hold the $arnothing$ button for about 3 seconds to set the light off function.	>	
		Press and hold the ${\mathcal B}$ button for about 3 seconds to set the light off function.
13. Remote Controller

AKB76044202





13. Remote Controller

Image	Description
Mode	 Mode Selects the desired operation mode. Each press changes the modes in this order: Cooling → Auto → Dehumidification → Heating → Fan
Soft	Soft Air Keep you cool without feeling a draft.
Temp.	Temperature Λ , V Adjusts the desired room temperature.
Fan Speed	Fan Speed 十, — Adjust the fan speed.
	勠 (Up-Down Swing) Adjusts the airflow direction up and down.
	Cleaning Mode While the remote control and appliance are turned off, press and hold the 3 button for about 5 seconds to fix the vane for cleaning the vane easily.
Jet Mode	Jet Mode Changes the room temperature quickly.
(⁷)	려 (Energy Control) Decrease the power input. You can control energy consumption.
Exit (3 s)	Exit (3 s) When entering the settings, press and hold the $\frac{2}{7}$ button for about 3 seconds to return the previous setting.
©/0К	Function Selects the desired function.
<u>∫</u> <u>↓</u>	牮 (Air Purify) Supplies clean, fresh air using ion particles and the filter.
Indoor Temp (3 s)	Indoor Temp (3 s) Press and hold the 추 button for about 3 seconds to displays the room temperature.
	Reset Resets the wireless remote control setting.

14.1 Important Safety Instructions

The following safety guidelines are intended to prevent unforeseen risks or damage from unsafe or incorrect operation of the appliance. The guidelines are separated into 'WARNING' and 'CAUTION' as described below.







This symbol is displayed to indicate matters and operations that can cause risk. Read the part with this symbol carefully and follow the instructions in order to avoid risk.

This indicates that the failure to follow the instructions can cause serious injury or death.

This indicates that the failure to follow the instructions can cause the minor injury or damage to the product.

WARNING

To reduce the risk of explosion, fire, death, electric shock, injury or scalding to persons when using this product, follow basic precautions, including the following :

- The information contained in the manual is intended for use by a qualified service technician who is familiar with the safety procedures and equipped with the proper tools and test instruments.
- The appliance shall be installed in accordance with local and national wiring regulations.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agents or similarly qualified person in order to avoid a hazard.
- Appliance shall be disconnected from its power source during service and when replacing parts.
- Failure to read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.
- Check that the appliance's voltage level is 90 % or higher than the rated voltage. To check it, refer to the label attached to the side of the appliance.
- Do not install the appliance on an unstable surface or in a place where there is danger of it falling.
- This appliance must be grounded. In the event of malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current.
- Improper connection of the equipment-grounding conductor can result in risk of electric shock. Check with a qualified electrician or service personnel if you are in doubt as to whether the appliance is properly grounded.
- If the power supply cable is damaged or the cable connection is loose, do not use the power supply cable and contact an authorized service center.
- Do not connect the ground wire to a gas pipe, a lightning rod, or a telephone ground wire.

- Do not share the power supply for this unit with other with other products or devices, it must be a dedicated power source for this this appliance.
- · Do not modify or extend the power cable.
- Ensure the power cable is secure so that it does not come out while the appliance is operating.
- Do not touch the power cable or the appliance controls with wet hands.
- Cut the power during a severe thunderstorm or lightening or when not in use for a long period of time.
- Do not grab the power cable when removing the plug, but rather hold the power plug tightly.
- Do not bend the power cable excessively or place a heavy object on it.
- Do not turn on the circuit breaker or power when covers are removed or opened.
- Make sure that the pipe and the power cable connecting the indoor and outdoor units are not pulled too tight when installing the appliance.
- · Install dedicated electric outlet and circuit breaker for the appliance.
- Make sure to close the cover of the control box after connecting the wiring to the appliance.
- · Loose connections may cause electrical sparks, injury, and death.
- Do not install the appliance in a place where flammable liquids or gases such as gasoline, propane, paint thinner, etc., are stored.
- Only use the refrigerant designated on the label, do not put any foreign substances into the appliance.
- Use non-flammable gas (nitrogen) to check for leak and to purge air.
- Inert gas (oxygen free nitrogen) should be used when you checking for leaks, cleaning or repairs of pipes etc. If you are using combustible gases including oxygen, appliance may have the risk of fires and explosions.
- Do not use copper pipes which are deformed. Otherwise, the expansion valve or capillary tube may become blocked with contaminants.
- When installing or relocating the appliance, consult with a qualified technician to set up the appliance. The appliance should not be installed by someone without proper qualifications.
- Operating the appliance while it is disconnected to the pipe could result in explosion and damage. Use the appliance after connecting it to the pipe once the appliance has been relocated and the refrigerant circuit repaired.
- Do not place a heater or other heating appliances near the power cable.
- Keep any required ventilation openings clear of obstruction.
- Use only refrigerant grade pipe specific for R32 refrigerant. Do not use R22 products, which have lower pressure ratings and can result in excessive pressure, explosion and injury.
- Compliance with national gas regulations shall be observed.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- The installation of pipe-work shall be kept to a minimum.
- Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority regard of flammable refrigerants, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.
- Refrigerant tubing shall be protected or enclosed to avoid damage.

- Flexible refrigerant connectors (such as connecting lines between the indoor and outdoor unit) that may be displaced during normal operations shall be protected against mechanical damage
- Ducts connected to an appliance shall not contain an ignition source.
- A brazed, welded, or mechanical connection shall be made before opening the valves to permit refrigerant to flow between the refrigerating system parts.
- When mechanical connectors are reused indoors, sealing parts shall be renewed.
- · When flared joints are reused indoors, the flare part shall be re-fabricated.
- Mechanical connections (mechanical connectors or flared joints) shall be accessible for maintenance purposes.
- The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.)
- The appliance shall be stored so as to prevent mechanical damage from occurring.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- Do not pierce or burn.
- · Be aware that refrigerants may not contain an odour.
- Pipe-work shall be protected from physical damage.

To reduce the risk of minor injury to persons, malfunction, or damage to the product or property when using this product, follow basic precautions, including the following :

- Install at places where it can endure the weight and vibration/noise of the outdoor unit.
- Install the appliance in a place where the noise from the outdoor unit or the exhaust air will not inconvenience the neighbors. Failure to do so may result in conflict with the neighbors.
- Ensure the appliance is installed level. Otherwise, it may cause vibration or water leakage.
- Install the drain hose properly for the smooth drainage of water condensation.
- Do not touch the leaking refrigerant during installation or repair.
- Always check for gas (refrigerant) leakage after installation or repair of appliance.
- Be cautious not to get injured by the sharp edges while installing the appliance or taking it out of its packaging.
- Ensure that you carry by the chassis when you lift the unit.
- This appliance should only be transported by two or more people holding the appliance securely.
- Safely dispose of packing materials such as screws, nails or batteries using proper packaging after installation or repair.
- To avoid nitrogen entering the refrigerant system in a liquid state, the top of the cylinder must be higher than its bottom when you pressurize the system.
- Do not use the appliance for special purposes, such as preserving foods, works of art, and etc. It is an appliance for consumer purposes, not a precision refrigeration system. There is risk of damage or loss of property.

- Do not discharge the refrigerant into the atmosphere.
- If refrigerant leaks, ventilate the room.
- The tubing shall be protected to the extent that it will not be handled or used for carrying during moving of the product.
- Ventilation system have to be installed in the space when appliance with R32 is using for cooling of electric equipment.
- The handling of the refrigerant must comply with national regulations.

Precaution for using R32 refrigerant

- The basic installation work procedures are the same as conventional refrigerant (R410A, R22) models. However, pay careful attention to the following points:
- · Please refer to installation and service manual of each appliance for detail.

WARNING

1. Since the working pressure is higher than that of refrigerant R22 models, some of the piping and installation and service tools are special.

Especially, when replacing a refrigerant R22 model with a new refrigerant R32 model, always replace the conventional piping and flare nuts with the R32 and R410A piping and flare nuts on the outdoor unit side.

- 2. Models that use refrigerant R32 and R410A have a different charging port thread diameter to prevent erroneous charging with refrigerant R22 and for safety.
- 3. Be more careful than R22 so that foreign matter (oil, water, etc.) does not enter the piping. Also, when storing the piping, securely seal the opening by pinching, taping, etc.

1. Installation (Space)

- The installation of pipe-work shall be kept to a minimum. Avoid use dented pipe and do not allow acute bending.
- Pipe-work shall be protected from physical damage.
- Must comply with national gas regulations, state municipal rules and legislation. Notify relevant authorities in accordance with all applicable regulations.
- Must ensure mechanical connections be accessible for maintenance purposes.
- In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction.
- When disposal of the product, do follow to the precautions in #12 and comply with national regulations.
 - Always contact to local municipal offices for proper handling.
- Interconnecting refrigerant pipework, i.e. pipework external to the unitary components, should be marked with a Class label every two metres where the pipework is visible. This includes pipework located in a ceiling space or any void which a person may access for maintenance or repair work within that space.
- 2. Servicing
 - 2-1. Service personnel
 - Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.
 - Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
 - Servicing shall be performed only as recommended by the manufacturer.

2-2. Work

- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised.
 For repair to the refrigerating system, the precautions in #2-2 to #2-8 must be followed before conducting work on the system.
- Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapour being present while the work is being performed.
- All maintenance staff and others working in the local area shall be instructed and supervised on the nature of work being carried out.
- Avoid working in confined spaces.
- Wear appropriate protective equipment, including respiratory protection, as conditions warrant.
- Ensure that the conditions within the area have been made safe by limit of use of any flammable material. Keep all sources of ignition and hot metal surfaces away.
- 2-3. Checking for presence of refrigerant
- The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres.
- Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non sparking, adequately sealed or intrinsically safe.
- In case of leakage/spillage happened, immediately ventilate area and stay upwind and away from spill/release.
- In case of leakage/spillage happened, do notify persons downwind of the leaking/spill, isolate immediate hazard area and keep unauthorized personnel out.

2-4. Presence of fire extinguisher

- If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available at hand.
- Have a dry powder or CO₂ fire extinguisher adjacent to the charging area.

2-5. No ignition sources

- No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. Youmust not be smoking when carrying out such work.
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space.
- Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.
- "No Smoking" signs shall be displayed.

2-6. Ventilated area

- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work.
- A degree of ventilation shall continue during the period that the work is carried out.
- The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.
- 2-7. Checks to the refrigeration equipment

- Where electrical components are being changed, they shall be fit for the purpose and to the correct specification.
- At all times the manufacturer's maintenance and service guidelines shall be followed.
- If in doubt consult the manufacturer's technical department for assistance.
- The following checks shall be applied to installations using flammable refrigerants
 - The actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed.
 - The ventilation machinery and outlets are operating adequately and are not obstructed.
 - If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant.
 - Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
 - Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are properly protected against being so corroded.
- 2-8. Checks to electrical devices
- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures.
- · Initial safety checks shall include but not limit to
 - That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking.
 - That there is no live electrical components and wiring are exposed while charging, recovering or purging the system.
 - That there is continuity of earth bonding.
- At all times the manufacturer's maintenance and service guidelines shall be followed.
- If in doubt consult the manufacturer's technical department for assistance.
- If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.
- If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used.
- The owner of the equipment must be informed or reported so all parties are advised thereinafter.

Repairs to sealed components

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- · Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer's specifications.

Note

The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment.

Intrinsically safe components do not have to be isolated prior to working on them.

- 4. Repair to intrinsically safe components
 - Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
 - Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
 - The test apparatus shall be at the correct rating.
 - Replace components only with parts specified by the manufacturer. Unspecified parts by manufacturer may result ignition of refrigerant in the atmosphere from a leak.
- 5. Cabling
 - Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects.
 - The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.
- 6. Detection of flammable refrigerants
 - Under no circumstances shall potential sources of ignition be used in the searching or detection of refrigerant leaks.
 - A halide torch (or any other detector using a naked flame) shall not be used.
- 7. Leak detection methods
 - Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need recalibration. (Detection equipment shall be calibrated in a refrigerant-free area.)
 - Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.
 - Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25 % maximum) is confirmed.
 - Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.
 - If a leak is suspected, all naked flames shall be removed/extinguished.
 - If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.
- 8. Removal and evacuation
 - When breaking into the refrigerant circuit to make repairs or for any other purpose conventional procedures shall be used. However, it is important that best practice is followed since flammability is a consideration.

The following procedure shall be adhered to :

- − remove refrigerant → purge the circuit with inert gas → evacuate → purge again with inert gas → open the circuit by cutting or brazing
- The refrigerant charge shall be recovered into the correct recovery cylinders.
- The system shall be "flushed" with OFN to render the unit safe.
- This process may need to be repeated several times.
- · Compressed air or oxygen shall not be used for this task.
- Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
- This process shall be repeated until no refrigerant is within the system.
- When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
- This operation is absolutely vital if brazing operations on the pipe work are to take place.
- Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.
- 9. Charging procedures
 - In addition to conventional charging procedures, the following requirements shall be followed.
 - Ensure that contamination of different refrigerants does not occur when using charging equipment.
 - Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
 - Cylinders shall be kept upright.
 - Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
 - Label the system when charging is complete (if not already).
 - Extreme care shall be taken not to over fill the refrigeration system.
 - Prior to recharging the system it shall be pressure tested with OFN (refer to #7).
 - The system shall be leak tested on completion of charging but prior to commissioning.
 - A follow up leak test shall be carried out prior to leaving the site.
 - Electrostatic charge may accumulate and create a hazardous condition when charging and discharging the refrigerant. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.

10.Decommissioning

- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details.
- It is recommended good practice that all refrigerants are recovered safely.
- Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant.

- It is essential that electrical power is available before the task is commenced.
 - a. Become familiar with the equipment and its operation.
 - b. Isolate system electrically.
 - c. Before attempting the procedure ensure that :
 - mechanical handling equipment is available, if required, for handling refrigerant cylinders
 - all personal protective equipment is available and being used correctly
 - the recovery process is supervised at all times by a competent person
 - recovery equipment and cylinders conform to the appropriate standards
 - d. Pump down refrigerant system, if possible.
 - e. If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
 - f. Make sure that cylinder is situated on the scales before recovery takes place.
 - g. Start the recovery machine and operate in accordance with manufacturer's instructions.
 - h. Do not over fill cylinders. (No more than 80 % volume liquid charge).
 - i. Do not exceed the maximum working pressure of the cylinder, even temporarily.
 - j. When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
 - k. Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.
- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.

11.Labelling

- Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant.
- The label shall be dated and signed.
- Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

12.Recovery

- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
- Ensure that the correct number of cylinders for holding the total system charge are available.
- All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).
- Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order.
- Recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants.
- In addition, a set of calibrated weighing scales shall be available and in good working order.
- Hoses shall be complete with leak-free disconnect couplings and in good condition.
- Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release.Consult manufacturer if in doubt.
- The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged.
- Do not mix refrigerants in recovery units and especially not in cylinders.
- If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.
- The evacuation process shall be carried out prior to returning the compressor to the suppliers.
- Only electric heating to the compressor body shall be employed to accelerate this process.
- When oil is drained from a system, it shall be carried out safely.

14.2 Product Overview



Parts

1	Installation Plate	7	Drain Hose
2	Air Filter	8	Power Supply Cable
3	Air Guide	9	Gas Service Valve
4	Decor	10	Liquid Service Valve
5	Gas Pipe (Larger Pipe)	11	(Gas/Liquid) Service Valve Cap
6	Liquid Pipe (Smaller Pipe)		

Local Purchases

It is highly recommended that you install the following parts.

A	Sleeve
В	Sealant
С	Clamp

Note

- This feature could be different depending on models.
- If needed, additional pipes, drain hoses, and power cables must be purchased separately.



The minimum installation floor area for wall mounted products using R32

The outdoor unit should be installed in a well-ventilated area or outside.

Determine the case applicable based on the relationship of the refrigerant charge (M) and m_1 , m_2 , m_3 , defined as follows :

Case	Refrigerant Charge Amount	Requirements		
1	$M \le m_1$	No limit for floor area to install an appliance		
2	$m_1 < M \le m_2$	Need a minimum floor area to install an appliance in accordance with a formula		
3	$m_2 < M \le m_3$	Need a minimum floor area to install an appliance in accordance with a formula Need an additional equipment (Ventilation, shut-off valve, alarm etc.)		

 $m_1 = (4 \text{ m}^3) \times \text{LFL} = 4 \text{ m}^3 \times 0.306 \text{ kg/m}^3 = 1.244 \text{ kg}$

m₂ = (26 m³) × LFL = 26 m³× 0.306 kg/m³ = 7.956 kg

m₃ = (130 m³) × LFL = 130 m³× 0.306 kg/m³ = 39.78 kg

The maximum charge (m_{max} kg) in a room

 $m_{max} = 2.5 \times LFL^{5/4} \times h_0 \times A^{1/2} = 2.5 \times 0.306^{5/4} \times 1.8 \times A^{1/2}$

The required minimum floor area (A_{min} m²) to install an appliance with refrigerant charge (M kg)

 $A_{min} = (M / (2.5 \times LFL^{5/4} \times h_0))^2 = (M / (2.5 \times 0.306^{5/4} \times 1.8))^2$

Symbol

M : The refrigerant charge amount in appliance (kg), The sum of a pre-charge and an additional charge regard of a pipe length m_{max} : The allowable maximum charge in a room (kg), The sum of a pre-charge and an additional charge regard of a pipe length **A** : The room area (m²)

Amin : The required minimum room area (m²)

 h_0 : The installation height of the appliance (m), h_0 is **1.8 m** for wall mounted

LFL : The lower flammable limit (kg/m³), LFL of R32 is 0.306 kg/m³

Installation Tools for the products using R32



Note

- Leakage detector which is confirmed rated for use with R32, should be used when you are checking for leaks.
- Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.
- Ventilation Equipment: For AC system using R32 (A2L gases) a ventilation equipment with "Ex" mark only should be used when a system design exceeds the Lower flammable limit if the gas was to escape from a system.

14.3 Installation Place

Indoor Unit

- Install the indoor unit on a strong and hard wall.
- Install the indoor unit in a spot with good drainage and good accessibility to the pipe connected to the outdoor unit.
- Maintain a clearance of at least ${\rm (I)}$ from the right and left sides of the indoor unit.
- Maintain a clearance of at least 2 between the top of the indoor unit and the ceiling.
- Maintain a clearance of at least 2.5 m(8.2ft.) from the floor for adequate clearance.
- Do not install the indoor unit near heaters or heating apparatuses.
- Do not install the indoor unit near an obstacle that hinders airflow.
- Do not install the indoor unit near an exit.
- Do not install the indoor unit where it can be exposed to direct sunlight.

Unit: mm (inch)

	_ [−] ① More thar	120 (5)
2More t	han 🗼	More than
100 (4)		

Outdoor Unit

- Install the outdoor unit in a location where the floor is firm and even.
- When placing the outdoor unit under an overhang, awning, sunroof or other "roof-like structure", ensures that heat radiation from the condenser is not restricted around the unit.
- Do not place the unit where animals and/or plants will be in the path of the warm air, or where the warm air and/or noise will disturb neighbors.
- Sunroof is recommended for installations that are exposed to direct sunlight and for installations in cold climates with heavy snow which can accumulate on top of outdoor unit.
- Take the weight of the air conditioner into account and select a place where noise and vibration are minimum.
- · Install the outdoor unit somewhere the technician can easily access it for repairs or maintenance.
- Do not install the outdoor unit in a location exposed to saline conditions, such as coastal areas, or sulfuric steam, such as near a hot spring.
- Do not install the outdoor unit in a location exposed to high winds.
- Observe the below clearance requirements.

Note

- Normal clearances are recommended for service and cleaning access.
- If you do not meet the minimum clearances for installation, the unit does not guarantee the reliability of the unit.
- If the outdoor unit is installed between normal and minimum clearances, capacity can be decreased about 10%.

Outdoor unit service access and allowable clearances

Case 1 Case 2 Case 3 500 mm (19-11/16 in.) or less 500 mm (19-11/16 in.) or less G G D Ď C Ć Case 5 Case 4 21 D F B Ē B D

Unit	: mm	A	В	С	D	E	F	G
Case1	Normal	300	600	-	300	-	-	-
Caser	Minimum	100	250	-	100	-	-	1000
Case2	Normal	-	-	500	-	-	-	-
Casez	Minimum	-	-	350	-	-	-	1000
Case3	Normal	-	-	500	300	-	-	-
Cases	Minimum	-	-	350	100	-	-	-
Case4	Normal	-	-	-	300	600	-	-
Case4	Minimum	-	-	-	100	200	2000	-
Case5	Normal	-	600	-	300	-	-	-
Caseo	Minimum	-	250	-	100	-	-	-
Unit	: inch	A	В	С	D	E	F	G
Case1	Normal	11-13/16	23-19/32	-	11-13/16	-	-	-
Caser	Minimum	3-15/16	9-27/32	-	3-15/16	-	-	39-3/8
Case2	Normal	-	-	19-11/16	-	-	-	-
Casez	Minimum	-	-	13-25/32	-	-	-	39-3/8
Case3	Normal	-	-	19-11/16	11-13/16	-	-	-
Case3	Minimum	-	-	13-25/32	3-15/16	-	-	-
Casad	Normal	-	-	-	11-13/16	23-19/32	-	-
Case4		-			11-13/16 3-15/16	23-19/32 7-7/8	- 78-3/4	-
Case4 Case5	Normal		- - 23-19/32				- 78-3/4 -	- - -

Precautions about installation in regions with extreme snowfall and cold temperatures

To ensure the outdoor unit operates properly, certain measures are required in locations where there is a possibility of heavy snowfall or severe wind chill or cold :

- Prepare for severe winter wind chills and heavy snowfall, even in areas of the country where these are unusual phenomena.
- Position the outdoor unit so that its airflow fans are not buried by direct, heavy snowfall. If snow piles up and blocks the airflow, the system may malfunction.
- Remove any snow that has accumulated 100 mm (4 in.) or more on the top of the outdoor unit.
- Place the outdoor unit on a raised platform at least 500 mm (20 inches) higher than the average annual snowfall for the area. If the frame width is wider than the outdoor unit, snow may accumulate.
- Install a snow protection hood.
- To prevent snow and heavy rain from entering the outdoor unit, install the suction and discharge ducts facing away from direct winds.
- Additionally, the following conditions should be taken into consideration when the unit operates in defrost mode :
 If the outdoor unit is installed in a highly humid environment (near an ocean, lake, etc.), ensure that the site is
 well ventilated and has a lot of natural light. (Example : Install on a rooftop.)

14.4 Installing the Outdoor Unit

Fixing the Outdoor Unit with Bolt Construction Work

Fix the outdoor unit firmly to prevent it from falling and dropping.



Note

- If you install the outdoor unit on a wall, roof, or rooftop, make sure it's mounted on a suitable frame.
- If the outdoor unit vibrates excessively, secure it using anti-vibration rubber between the unit's feet and the mounting frame.

Foundation

For good drain of outdoor unit, keep the bottom height from icing upward.



Unit : mm		Foundation	Leg			
Model	Tool	Α	В	С	Material	Thickness
H09S1PAU18	U18A	558	100	370	SAZCC	1.6
H12S1PA.U18	U18A	558	100	370	SAZCC	1.6
H09S1DA.U12	U12A	463	100	280	SAZCC	1.6
H12S1DAU12	U12A	463	100	280	SAZCC	1.6
H18S1DA.U18	U18A	558	100	370	SAZCC	1.6
H24S1DA.U24	U24A	586	100	400	SAZCC	1.6

Unit : inch	Foundation			Leg		
Model	Tool	Α	В	С	Material	Thickness
H09S1PA.U18	U18A	21-31/32	3-15/16	14-9/16	SAZCC	3/32
H12S1PA.U18	U18A	21-31/32	3-15/16	14-9/16	SAZCC	3/32
H09S1DA.U12	U12A	18-7/32	3-15/16	11-1/32	SAZCC	3/32
H12S1DA.U12	U12A	18-7/32	3-15/16	11-1/32	SAZCC	3/32
H18S1DAU18	U18A	21-31/32	3-15/16	14-9/16	SAZCC	3/32
H24S1DA.U24	U24A	23-1/16	3-15/16	15-3/4	SAZCC	3/32

Connecting the Drain Plug

If you need to install a drain hose onto an outdoor unit, connect the drain hose after inserting the drain plug with drain washer through the drain hole on the bottom of the outdoor unit.



A : Drain Plug





C : Drain Washer

Note

- If the hole is not in use, block it with the drain cap.
- The quantity and position of the drain cap could be different depending on models.
- In cold areas, do not use the drain hose on the outdoor unit because the water drained out from the drain hose can freeze, which may cause malfunctioning by damaging the heat exchanger.



14.5 Checking the Drainage

 Remove the filter. Pull the filter up and out towards you. Do not touch the metal part of the appliance when removing the filter. 	
2. Pour a cup of water into the back of the evaporator.	
3. Check the drainage condition.	(
 Check whether there is any leakage from either the drain hose joint or the extended hose joint. Check the water is flowing out through the drain hose. If there is no leakage, but no water is flowing, pour a proper amount of water again. 	
4. Insert the filter again.	

Example of Correct Drain Hose Installation



Example of Incorrect Drain Hose Installation



Note

- If the drain hose is not installed properly, water can leak indoors.
 - If the drain hose is installed at a higher position than the indoor unit
 - If the drain hose is entangled or kinked
 - If the end of the drain hose is dipped in water
 - If the gap between the end of the drain hose and the bottom is lower than 50 mm

14.6 Check List and Installer Code

Check test item after installation

No.	Test Items	Check
1	Indoor unit is hooked to the installation plate properly.	
2	The gas and liquid service valves are fully opened.	
3	There is no refrigerant gas leakage.	
4	System is properly grounded. (No electrical leakage)	
5	The connection cable is clamped firmly.	
6	Indoor unit receives remote control commands and operates properly.	
7	Cooling/Heating operation is normal.	
8	There is no abnormal sound.	
9	There is no water leakage.	

How to set the installer code

1	Supply the power to the appliance which is turned off.	-
2	(Method) Insert a battery with pressing (A) button. (Method) Press "Reset" with pressing (A) button.	U Reset Image: All the section of the
3	Release (A) button. Then, a display of remote controller change to "00".	
4	You can set the code by pressing the "Temp" and "Fan Speed" button.	10 digits Temp.
5	Press " ON/OFF " button to set a code to the appliance. Check buzzer beep.	
6	(Method) Take out a battery and insert it again. (Method) Press " Reset " to return to a user mode.	-
7	Cut the power to the appliance. Turn back on the power to the appliance after 30 seconds.	-

14.7 Outdoor Unit Cabin

Outdoor cabin louver requirement

- 1.Outdoor cabin type : Manual door open type
- 2.Louver angle : Less than 15° on the horizontal base
- 3.Louver interval: Over 100 mm (3-15/16 inch) (Recommend)
- 4.Louver shape : Wing type or plane type

- Opening rate and suction should be considered for louvered outdoor room.
- Do not use 'S' type louver.

Note

The problem in case the louver opening rate is small.

- Noise can occur due to the increased velocity of the air passing through louver blade.
- · Noise can occur due to the louver blade vibrations.
- Drop in outdoor fan performance (Excess static pressure damage can cause drop in the performance as well as outdoor heat exchange efficiency).
- In case the louver opening rate is small or there is insufficient air flow exchange, it might stop the air conditioner.







Noise can occur due to the backward flow of the air passing through the louver blade

Opening rate by louver radian



14.8 Outdoor Unit Max External Static Pressure

Model	Tool	Air Flo	w Rate	Static P	ressure
Model	1001	CMM	CFM	N / m²	inWG
H09S1PAU18	U18A	35	1236	9.2296	0.0371
H12S1PAU18	U18A	35	1236	9.2296	0.0371
H09S1DAU12	U12A	27	954	9.2296	0.0371
H12S1DAU12	U12A	27	954	9.2296	0.0371
H18S1DAU18	U18A	35	1236	9.2296	0.0371
H24S1DAU24	U24A	49	1730	9.2296	0.0371



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