TOTAL HVAC SOLUTION PROVIDER ENGINEERING PRODUCT DATA BOOK



Test Condition of International Standard

CL	CLASSIFICATION		KSC	IS 51	_	AHRI	AHAM (Window	AS/NZS	SA 26	
			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	iiidooi	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
	Outdoor	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	ilidool	WB°C(°F)	15.0	15.0	15.0	15.6 (60)	15.6 (60)	15.0	15.0	15.0
Capacity	Outdoor	DB°C(°F)	7.0	7.0	7.0	8.3 (47)	8.3 (47)	7.0	7.0	7.0
	Outdoor	WB°C(°F)	6.0	6.0	6.0	6.1 (43)	6.1 (43)	6.0	6.0	6.0
	Indoor	DB°C(°F)	32.0	32.0	32.0	26.7 (80)	32.2 (90)	32.0	32.0	32.0
Maximum Cooling	ilidool	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
oporag	Outdoor	WB°C(°F)	26.0	26.0	31.0	23.9 (75)	25.6 (78)	26.0	26.0	31.0
	Indoor	DB°C(°F)	27.0	27.0	27.0	26.7 (80)	26.7 (80)	27.0	27.0	27.0
Maximum Heating	ilidool	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
oporag	Outdoor	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 /	ilidool	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	Outdoor	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)	21.0	21.0	21.0	19.4 (67)	21.1 (70)	21.0	21.0	21.0
Freeze-up / Low	iliuooi	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
	Outdool	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 - 50/60 Hz (R410A)

- 1. Models Line Up
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1. Models Line Up

1.1 Indoor Unit

Category	Picture	Chassis	Nominal Capacity (kBtu/h)	Model Name
Standard	-	SJ	9	VS092C7.NJ0 (S4NQ09JA3WE.EC2GCOL)
Standard	4-	SK	24	VS242C7.NK0 (S4NQ24K23WE.EC2GCOL)
Standard Plus		SK	18	VS182C7.NK0 (S4NQ18KL3WE.EC2GCOL)



1. Models Line Up

1.2 Outdoor Unit

Power Supply	Picture	Chassis	Nominal Capacity (kBtu/h)	Model Name
1 Ø , 220 V , 50/60 Hz	l.G	UA3	9	VS092C7.UJ0 (S4UQ09JA3WE.EC2GCOL)
1 Ø , 220 V , 50/60 Hz	LG -	U24A	24	VS242C7.UK0 (S4UQ24K23WE.EC2GCOL)
1 Ø , 220 V , 50/60 Hz	& LG	UL2	18	VS182C7.UK0 (S4UQ18KL3WE.EC2GCOL)

2. Nomenclature

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

Signification
Product Type S : Split
Refrigerant 2: R22 3: R32 4: R410A
Supply Type -: Set N: Indoor Unit U: Outdoor Unit A: C/SKD Indoor Unit B: C/SKD Outdoor Unit M: Mock-Up
Model Type C: Cooling Only H: Heat Pump Q: DC Inverter Cooling Only W: DC Inverter Heat Pump M: Single and Multi Compatible
Capacity Ex) 12 : 12,000 Btu/h
Indoor Unit Platform
2:S2 H:SH 3:S3 J:SJ 4:S4 K:SK 5:S5 M:SM A:SA V:SV E:SE W:SW
Outdoor Unit Platform
A: UA3 E: UE L: UL2 P: UE1+ 2: U24A D: UD 4: U4

No.					Signi	ficatio	า			
9	Look & Color									
	Platform	Loc	k & lor	Look Name			Description			
		F	?	Artcool			Mii	ror Black		
		_	ı	R Lo	ok		Wł	nite Panel (Tr	ansparent	
	SA SJ	2		Semi-R Look				nite Panel (Si	lver Deco)	
	SK	3		E Look				nite Panel		
		l	4		i-R Look			nite Panel (Re		
		5 M			i-R Look			nite Panel (G	old Deco)	
	SM				ing Panel			nite Panel		
				R Lo				nite Panel (Tr		
	SM	3		E Lo	i-R Look			nite Panel (Si nite Panel	iver Deco	
	SM+	V			rkiss R			nite Panel (W	hito Dogo	
	S2	Ľ			rkiss R			nite Panel (W		
		,			kiss R			nite i anei (Bi nite Panel (Si		
	SW		5	E Lo				nite Panel	1701 2000)	
	SH				i-R Look			nite Panel (Si	Iver Deco	
	I	2			Semi-R Look			White Panel (Silver Deco)		
	SV	3	3	E Look			White Panel White Panel			
		-	1							
	S3	V	٧		-			White Panel (Lighting)		
10	Function	<u> </u>								
10	runction									
				low	Wi-Fi	Additio Filte		Gen Mode	Functior Digit	
	None	•	2v	vay					Α	
					0	ļ			3 W	
						0		0	VVQ	
		-	Δv	/ay				0	В	
			70	ray	0				F	
						0			V	
	lonize	r	2v	/ay	0				4	
			4v	vay					R	
					0				Z	
						0			S	
					0	0			Р	
					0			0	J	
					0	0		0	T	
	Man		Z۷	vay		0			K E	
	Mosqui	ilo			0				7	
	Mosqui	ilo	44	/2V		1				
	Mosqui	ilo	4v	vay	0	0		'		
	Mosqui	ilo	4v	vay		0				
	Mosqui	ilo	4v	vay	0	0		0	2 5	
		•	4v	vay	0			0	2	
	Mosqui	•		vay vay	0 0 0	0		L 	2 5	
		•			0 0	0		L 	2 5 8 N Y	
		•			0 0 0	0		L 	2 5 8 N	

Buyer Model	Set	(Indoor / Outdoor)	Unit	VS092C7.SJ0 (VS092C7.NJ0 / VS092C7.UJ0) S4-Q09JA3WE.EC2GCOL (S4NQ09JA3WE.EC2GCOL / S4UQ09JA3WE.EC2GCOL)			
Factory Model	Oct (indoor / Guidoor)		S4-QU9JASVVE.E S4	UQ09JA3WE.EC2GC	OL)	
	Cooling	Min ~ Rated ~ Max	kW Dtu/b	0.879	2.638	3.311	
	Cooling	IVIIII ~ Rated ~ IVIAX	Btu/h kJ/h	3,000	9,000	11,297	
			kW	-			
Capacity	Cooling (T3)	Min ~ Rated ~ Max	Btu/h	_	-	_	
Supusity			kW	-	-	-	
	Heating	Min ~ Rated ~ Max	Btu/h	-	-	-	
			kJ/h	=	-	-	
	Heating -7°C	Max	kW		-		
	Cooling	Min ~ Rated ~ Max	W	140	790	1,270	
Power Input	Cooling (T3)	Min ~ Rated ~ Max	W	-	-	-	
	Heating	Min ~ Rated ~ Max	W	-	- 4.00	- 7.00	
Dunning Current	Cooling (T2)	Min ~ Rated ~ Max Min ~ Rated ~ Max	A	0.80	4.20	7.20	
Running Current	Cooling (T3) Heating	Min ~ Rated ~ Max	A	-	-	-	
	Heating	IVIIII ~ Rateu ~ IVIAX	WW	-	3.34	_	
EER			(Btu/h)/W		11.39		
LLIX			(kJ/h)/W		-		
FFD (T2)			WW		-		
EER (T3)			(Btu/h)/W		-		
SEER			- WW		-		
COP					<u> </u>		
WP .			(Btu/h)/W (kJ/h)/W		-		
SCOP			(N/II)/VV				
P design C / P de	sian H		kW		-/-		
Energy Label Gra		Cooling / Heating	-		Ċ		
Monthly Energy C		Cooling / Heating	kWh/month		105		
		J J	(Btu/h)/W		-		
Weighted EER			` W/W		-		
Power Supply			Ø, V, Hz		1, 220, 50/60		
Available Voltage	e Range		V		187 ~ 276		
Power Factor		Cooling / Heating	%		76.1		
Moisture Remova	<u> </u>		I/h		0.60		
	Air Flow Rate	Cooling, SH/H/M/L	m³/min		12.5 / 9.3 / 7.2 / 5.3		
		Heating, SH / H / M / L Cooling, SH / H / M / L / SL	m³/min dB(A)		45 / 42 / 36 / 28 / 21		
	Sound Pressure Level	Heating, SH/H/M/L	dB(A)				
	Sound Power Level	riedding, Ori7 F17 W/7 L	dB(A)				
Indoor		Net	mm		837 x 308 x 189		
	Dimensions (W×H×D)	Shipping	mm	909 x 383 x 256			
	Mai abt	Net	kg				
	Weight	Shipping	kg		9.7		
	Exterior Color Code		-	Muns	ell 7.5BG 10/2 (RAL	9016)	
	Air Flow Rate	Max	m³/min		27.0		
	Fan Motor Speed	Cooling, Min ~ Max	rpm		-		
	Tarriviolor opeca	Heating, Min ~ Max	rpm		-		
	Sound Pressure Level	Cooling, Rated	dB(A)		53		
	Sound Power Level	Heating, Rated	dB(A) dB(A)		-		
		Net	MM		717 x 495 x 230		
Outdoor	Dimensions (W×H×D)	Shipping	mm		837 x 536 x 332		
		Net	kg		22.8		
	Weight	Shipping	kg		26		
	Max. Fuse Size		Ă		15		
	Exterior Color Code		-	Munæll	9.54Y 8.34/1.31 (RA	AL 9001)	
		Cooling	°C DB		18 ~ 48		
	Operation Range	Heating	°C DB		-~-		
Circuit Des-1		Heating	°CWB		-~- 4E		
Circuit Breaker Power Supply to I	Libit		A		15 Outdoor		
Power Supply to I			- No. × mm²		Outdoor 4 x 0.75		
i owei ailu Willi		Liquid	mm		ø 6.35		
Piping	Size	Gas	mm		ø 9.52		
פיייםי י	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 / 15		
Detunen Indeer	Piping Length	No Charge	m		7.5		
perweel moon							
Between Indoor & Outdoor	Max. Elevation Difference Piping Connection Heat I		m				

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 Exterior color code is approximate value.
 It is difficult to measure air flow rate of sleep because of small values.

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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.
 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.
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- Test conditions are based on ISO 5151.

Buyer Model				VS092C7.SJ0 (VS092C7.NJ0 / VS092C7.UJ0)		
Factory Model		Set (Indoor / Outdoor)	Unit	S4-Q09JA3WE.EC2GCOL (S4NQ09JA3WE.EC2GCOL / S4UQ09JA3WE.EC2GCOL)		
	Type		-	R410A		
	Pre Charge		kg	0.600		
Refrigerant	Additional Ch	arge	g/m	20		
Nemgerani	Control		-	Capillary		
	Global Wamii	ng Potential	-	2087.5		
	t-CO₂ eq		-	1.253		
Defrost Method			-	-		
Tool Code (Chassi		Indoor / Outdoor	-	SJ/UA3		
	Type		-	Twin Rotary		
	Model		-	GST102MAA		
	Motor Type		-	BLDC		
Compressor	Oil Type / Ma	ker	-	POE (RB68A) / Sun Oil or Jx Nippon, PVE (FVC68D) / IDEMITSU		
	Oil Charge		œ	280		
	O.L.P. Name		-	-		
	Manufacturer	/ Country of Origin	-	LG Electronics / China		
Fan (Indoor)	Type		-	Cross Flow Fan		
r air (iriuoor)	Motor Output		W	30		
	Type		-	Propeller Fan		
	Motor Type		-	AC		
Fan (Outdoor)	Motor Output		W	28		
	Motor Insulati		-	ClassE		
	Motor Enclose	re / 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 15 x 21 x 616.8) 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	<u> </u>		
Heat Exchanger		Corrosion Protection	-	PCM		
		Fin Type	-	Slit		
	1	Material, Tube / Fin	-	Qu / Al		
		(ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 1 x 22 x 21 x 667) x 1		
	Condenser	(ø x Row x Column x FPI x L) x Qty.	#2	-		
		Corrosion Protection	-	Gold		
		Fin Type	-	Louver		

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.

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 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 ISO 5151.

Buyer Model Factory Model	Set	(Indoor / Outdoor)	Unit	VS242C7.SK0 (VS242C7.NK0 / VS242C7.UK0) S4-Q24K23WE.EC2GCOL (S4NQ24K23WE.EC2GCOL / S4UQ24K23WE.EC2GCOL)			
, ,	+		kW	1.026	6.448	7.180	
	Cooling	Min ~ Rated ~ Max	Btu/h	3,500	22,000	24,500	
	3		kJ/h	-	-	-	
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-	
Capacity	Cooling (13)	Will - Nated - Wax	Btu/h	-	=		
			kW	-	-		
	Heating	Min ~ Rated ~ Max	Btu/h	-	-		
			kJ/h	-	-	-	
	Heating -7°C	Max	kW		-		
	Cooling	Min ~ Rated ~ Max	W	240	1,980	2,400	
Power Input	Cooling (T3)	Min ~ Rated ~ Max	W	-	-	1	
	Heating	Min ~ Rated ~ Max	W			-	
	Cooling	Min ~ Rated ~ Max	A	1.40	8.20	10.50	
Running Current	Cooling (T3)	Min ~ Rated ~ Max	A	-	-		
	Heating	Min ~ Rated ~ Max	A	-	-	-	
			WW.		3.26		
EER			(Btu/h)/W		11.11		
			(kJ/h)/W		-		
EER (T3)			WW (Dt./b\/A/		-		
. ,			(Btu/h)/W		-		
SEER			- WW		-		
COP			(Btu/h)/W				
. ✓ Γ			(kJ/h)/W		-		
SCOP			(10/11)/ ۷۷				
Scop P design C / P de	agian H		kW		-/-		
Energy Label Gra		Cooling / Heating	KVV		C		
Monthly Energy C		Cooling / Heating	kWh/month		262		
	Sorisamption	Cooling / Heating	(Btu/h)/W		-		
Neighted EER			WW		-		
Power Supply			Ø, V, Hz		1, 220, 50/60		
Available Voltage	e Range		V		187 ~ 276		
Power Factor	crange	Cooling / Heating	%		98.1		
Moisture Remova	al .	econing / ricating	I/h		1.90		
. Morada o Francisco		Cooling, SH/H/M/L	m³/min		20.0 / 15.0 / 13.5 / 10.	5	
	Air Flow Rate	Heating, SH / H / M / L	m³/min	•	-		
	C	Cooling, SH/H/M/L/SL	dB(A)	52 / 47 / 42 / 38 / 31			
	Sound Pressure Level	Heating, SH/H/M/L	dB(A)				
ladaa.	Sound Power Level	<i>y</i> ,	dB(A)		-		
Indoor	Dimensions	Net	mm	998 x 345 x 210 1063 x 420 x 271			
	Dimensions (W×H×D)	Shipping	mm				
	Moight	Net	kg		11.7		
	Weight	Shipping	kg		13.3		
	Exterior Color Code		-	Muns	ell 7.5BG 10/2 (RAL	9016)	
	Air Flow Rate	Max	m³/min		49.0	•	
		Cooling, Min ~ Max	rpm		550 ~ 850		
	Fan Motor Speed	Heating, Min ~ Max	rpm		-		
	Sound Pressure Level	Cooling, Rated	dB(A)		55		
		Heating, Rated	dB(A)		-		
	Sound Power Level		dB(A)		-		
	Dimensions (W×H×D)	Net	mm		870 x 650 x 330		
Outdoor	(vv × H × D)	Shipping	mm		1041 x 703 x 456		
	Weight	Net	kg		41.5		
	•	Shipping	kg		47		
	Max. Fuse Size		A		20		
	Exterior Color Code		-	Munsell	9.54Y 8.34/1.31 (RA	L 9001)	
		Cooling	°C DB		18 ~ 48		
	Operation Range	Heating	°C DB		-~-		
~		Heating	°C WB		-~-		
Circuit Breaker			A		20		
Power Supply to I			-		Outdoor		
	nunication Cable	I Constat	No. × mm²		4 x 0.75		
Power and Comm	Size	Liquid	mm		ø 6.35		
	Size		mm	Ī	ø 15.88		
		Gas		Flared / Flared			
Piping	Connections Method	Indoor / Outdoor	-		Flared / Flared		
Power and Comm Piping Drain Hose Size		Indoor / Outdoor O.D, I.D	- mm		Flared / Flared 21.5,16		
Piping Drain Hose Size		Indoor / Outdoor O.D, I.D Min / Standard / Max	- mm m		Flared / Flared 21.5,16 3 / 7.5 / 20		
Piping	Connections Method	Indoor / Outdoor O.D, I.D Min / Standard / Max No Charge	- mm		Flared / Flared 21.5,16		

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 Exterior color code is approximate value.
 It is difficult to measure air flow rate of sleep because of small values.

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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.
 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.
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- Test conditions are based on ISO 5151.

Buyer Model				VS242C7.SK0 (VS242C7.NK0 / VS242C7.UK0)
Factory Model		Set (Indoor / Outdoor)	Unit	S4-Q24K23WE.EC2GCOL (S4NQ24K23WE.EC2GCOL / S4UQ24K23WE.EC2GCOL)
	Туре		-	R410A
	Pre Charge		kg	1.400
Refrigerant	Additional Ch	arge	g/m	20
Nemgerani	Control		-	Capillary
	Global Wamir	ng Potential	-	2087.5
	t-CO₂ eq		-	2.923
Defrost Method			-	-
Tool Code (Chassi		Indoor / Outdoor	-	SK / U24A
	Type		-	Twin Rotary
	Model		-	GAT156MAD
	Motor Type		-	BLDC
Compressor	Oil Type / Ma	ker	-	POE (RB68A) / Sun Oil or Jx Nippon, PVE (FVC68D) / IDEMITSU
	Oil Charge		œ	400
	O.L.P. Name		-	-
	Manufacturer .	/ Country of Origin	-	LG Electronics / China
Fan (Indoor)	Type		-	Cross Flow Fan
r arr (iridoor)	Motor Output		W	58
	Type		-	Propeller Fan
	Motor Type		-	BLDC
Fan (Outdoor)	Motor Output		W	85
	Motor Insulation		-	Class E
	Motor Enclosu	re / 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 20 x 744) 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
catoriarigor		Fin Type	-	Slit
	1	Material, Tube / Fin	-	Qu/Al
		(ø x Row x Column x FPI x L) x Qty.	#1	(ø7 x 2 x 28 x 18 x 940) x 1
	Condenser	(ø x Row x Column x FPI x L) x Qty.	#2	-
	1	Corrosion Protection	-	Gold
		Fin Type	-	Louver

Note

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 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 ISO 5151.

Buyer Model				VS182C7.SK0 (VS182C7.NK0 / VS182C7.UK0)			
Factory Model	Set (Indoor / Outdoor)	Unit	S4-Q18KL3WE.E	C2GCOL (S4NQ18KL UQ18KL3WE.EC2GC	3WE.EC2GCOL /	
,			kW	1.080	UQ18KL3WE.EC2GC 5.275	OL) 5.840	
	Cooling	Min ~ Rated ~ Max	Btu/h	3,685	18.000	19,925	
	555g	min raisa max	kJ/h	-	-	-	
	Cooling (T2)	Min ~ Rated ~ Max	kW	-	-	-	
Capacity	Cooling (T3)	IVIIII ~ Rateu ~ IVIAX	Btu/h	-	-	-	
			kW	-	-	-	
	Heating	Min ~ Rated ~ Max	Btu/h	-	-	-	
			kJ/h	-	-	-	
	Heating -7°C	Max	kW W	200	1 600	1 710	
Power Input	Cooling Cooling (T3)	Min ~ Rated ~ Max Min ~ Rated ~ Max	W	300	1,620	1,710	
rowei input	Heating	Min ~ Rated ~ Max	W	-	-	-	
	Cooling	Min ~ Rated ~ Max	Ä	1.10	7.00	8.10	
Running Current	Cooling (T3)	Min ~ Rated ~ Max	Ä	-	-	-	
raming canoni	Heating	Min ~ Rated ~ Max	Ä	-	_	_	
			W/W		3.26		
EER			(Btu/h)/W		11.11		
			(kJ/h)/W		=		
EER (T3)			W/W	_	-		
` '			(Btu/h)/W		-		
SEER			-		-		
			W/W		-		
COP			(Btu/h)/W	1	<u> </u>		
SCOP			(kJ/h)/W	 			
P design C / P de	agian H		- KW	 	-/-		
Energy Label Gra		Cooling / Heating	NV V		-/- -		
Annual Energy C		Cooling / Heating	kWh/year				
	опатрион	Config / Ficating	(Btu/h)/W		-		
Weighted EER			W/W		-		
Power Supply			Ø, V, Hz		1, 220, 50/60		
Available Voltage	e Range		V		187 ~ 253		
Power Factor		Cooling / Heating	%		96.0		
Moisture Remova	1		l/h		1.30		
	Air Flow Rate	Cooling, SH/H/M/L	m³/min		18.0 / 12.7 / 10.2 / 8.4	4	
	711110111410	Heating, SH / H / M / L	m³/min				
	Sound Pressure Level	Cooling, SH/H/M/L/SL	dB(A)		-/45/43/38/32		
		Heating, SH / H / M / L	dB(A)				
Indoor	Sound Power Level	I Not	dB(A)	998 x 345 x 210			
	Dimensions (W×H×D)	Net Shipping	mm mm		1080 x 422 x 281		
		Net	kg	11.5			
	Weight	Shipping	kg	13.4			
	Exterior Color Code	Спрринд	- '9	Muns	ell 7.5BG 10/2 (RAL	9016)	
	Air Flow Rate	Max	m³/min		38.0	00.07	
		Cooling, Min ~ Max	rpm		650 ~ 900		
	Fan Motor Speed	Heating, Min ~ Max	rpm		-		
	Sound Pressure Level	Cooling, Rated	dB(A)		54		
		Heating, Rated	dB(A)		-		
	Sound Power Level	TNI	dB(A)	ļ	-		
0.44	Dimensions (W×H×D)	Net	mm		770 x 545 x 288		
Outdoor	(44 ~ 11 ~ 0)	Shipping	mm	ļ	920 x 593 x 388		
	Weight	Net	kg ka	 	29.8 34.5		
	Max. Fuse Size	Shipping	kg A	 	34.5 15		
	Exterior Color Code		A -	Muncell	9.54Y 8.34/1.31 (RA	J 9001)	
	EXIONOL COLON COUR	Cooling	°C DB	IVIUI ISCII	18 ~ 48	L 5001 j	
	Operation Range	Heating	°C DB	1	-~-		
		Heating	°CWB		-~-		
Circuit Breaker	•	<u> </u>	A		20		
Power Supply to			-		Outdoor		
Power and Comn	nunication Cable		No. × mm²		4 x 0.75		
	Size	Liquid	mm		ø 6.35		
Piping		Gas	mm	<u> </u>	ø 12.7		
5 1 11	Connections Method	Indoor / Outdoor	-	ļ	Flared / Flared		
Drain Hose Size	1	O.D, I.D	mm		21.5,16		
	Piping Length	Min / Standard / Max	m		3 / 7.5 / 20		
Between Indoor & Outdoor	, , ,	No Charge	m	-	7.5		
	Max. Elevation Difference	9	m	10 Both liquid and gas pipes			
a outdoor	Piping Connection Heat I	1.6	-				

- -: 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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 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 ISO 5151.

Buyer Model				VS182C7.SK0 (VS182C7.NK0 / VS182C7.UK0)
Factory Model		Set (Indoor / Outdoor)	Unit	S4-Q18KL3WE.EC2GCOL (S4NQ18KL3WE.EC2GCOL / S4UQ18KL3WE.EC2GCOL)
	Type		-	R410A
	Pre Charge		kg	0.800
Refrigerant	Additional Ch	arge	g/m	20
Nemgerani.	Control		-	Capillary
	Global Wamir	ng Potential	-	2087.5
	t-CO₂ eq		-	1.670
Defrost Method			-	-
Tool Code (Chassi		Indoor / Outdoor	-	SK / UL2
	Type		-	Twin Rotary
	Model		-	GAT156MAD
	Motor Type		-	BLDC
Compressor	Oil Type / Ma	ker	-	POE (RB68A) / Sun Oil or Jx Nippon
	Oil Charge		CC	400
	O.L.P. Name		-	-
		/ Country of Origin	-	LG Electronics / China
an (Indoor)	Type		-	Cross Flow Fan
arr (iridoor)	Motor Output		W	58
	Type		-	Propeller Fan
	Motor Type		-	BLDC
an (Outdoor)	Motor Output		W	43
	Motor Insulation		-	Class E
	Motor Enclosu	re / 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 20 x 744) 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	-
leat Exchanger		Corrosion Protection	-	PCM
eat Livianger		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	(ø5 x 2 x 25 x 21 x 823) x 1
	Condenser	(ø x Row x Column x FPI x L) x Qty.	#2	-
		Corrosion Protection	-	Gold
		Fin Type	-	Louver

- 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.
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- This product contains fluorinated greenhouse gases
 Some specifications may be changed without notifications due to our policy
- Test conditions are based on ISO 5151.

Catagorii	Eunotion	Description					
Category	Function Air Supply Outlet	Description The number of air outlet from the indoor unit					
1	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					
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					
	Fan Speed Steps (Fan / Cool / Heat)	Step adjustable wind strength at each mode					
	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 Prefilter (Washable)	Set the vane to a preset position in order to make an indirect wind Capture dust particles over 10µm in size					
	Deodorizing Filter	Deodorizing filter of the three techniques					
Air	Micro Dust Filter	Capture dust particles over 0.3µm in size					
Air Purifying	Allergy Filter	Capture all allergy-causing substances such as house dust and mites floating					
		in the air					
Installation	Plasma Air Purifier (Ionizer)	Reduce harmful microscopic particles and odor					
Installation	Hot Start	Water drain pump for indoor unit In the heating mode, the hot wind from the beginning					
	Self Diagnosis	Self-diagnostic for product protection					
Reliability	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 humidity					
	bry (Benamiameation) operation	high humidity					
	Auto Changeover	Change the operation mode(cooling & heating) automatically to maintain the set temperature					
1	Auto Operation (Artificial Intelligence)	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					
1	Child Lock 1	Only for wired-remote controller. Lock the buttons to prevent children control Use the forced switch of the indoor unit to operate the air conditioner when					
	Forced Operation	the remote control is unavailable					
	Group Control 1	Only for wired-remote controller. Control multiple indoor units at the same					
	Group Control	time					
	Sleep Mode	Set the off timer and fan speed is decreasing to make quiet environment for 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					
	Two Thermister 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					
Convenience	Two Thermistor Control ¹	Icooling and insufficient heating					
	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 temperature, you can use this function in other to prevent over-heating					
	Low Heating Voice Control	Using less energy helps keep the room warm when going out 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					
	Mosquito Away	An ultrasonic sound that mosquitoes detest is emitted to drives away					
	iwosquito Away	mosquitoes					
	Smart Diagnosis	Check the your AC's operational information for quick-service and self- diagnosis by sound from indoor unit					
	Indoor Unit Display Type	-					
	Indoor Unit Display Light	Set the brightness of the display on the indoor unit					
1	Energy Display	Show the power consumption					
1	Air Quality Indicator (Dust Sensor)	Sense microscopic dusts in the room and let the air purifying system work					
<u> </u>	Energy Saving	without additional maneuver Control the optimal desired temperature to save energy					
Encress		The customer can control the power consumption or current directly to save					
Energy Saving	Energy Control	lenergy					
I	Gen Mode	In areas where electricity is limited, customer can continue to use household appliances with the air-conditioner by reducing power consumption					
Individual	Wired Remote Controller ²	appirances with the an-conditioner by reducing power consumption					
Control	Handheld Wireless Controller	-					
	General Central Controller (Non LGAP)	-					
CAC	Network Solution (LGAP)	-					
<u>Network</u>	Dry Contact 2	-					
Function	PDI (Power Distribution Indicator) ²	•					
<u> </u>	Outdoor Unit PI 485 ²	Facily access and control on air conditioner's functions from anythers					
1	Wi-Fi ² Water Level Sensor Connection ²	Easily access and control an air conditioner's functions from anywhere Detect the water level in drain pan					
1	Wind Baffle Kit ²	With wind baffle installed, the minimum temperature will be -18 °C (0					
1 _	vviilu daille Kit -	l°F)D.B. in cooling					
Special	Sump Heater	Prevent the accumulation of freezing on the outdoor-heat-exchanger during winter (Flexible Type)					
Special Function Kit	· ·	Prevent the accumulation of freezing on the outdoor-heat-exchanger during					
1	Sheath Heater ²	Prevent the accumulation of freezing on the outdoor-heat-exchanger during winter (Hard Type)					
1	Crank Case Heater	Pre-heating the compressor during winter					
ĺ	Smart Inverter Monitoring System (SIMs) ²	Help you to easily monitor, diagnose the air conditioner and get a quick					
-		resolution Set up the unit available to use only cooling or heating mode in the heat					
Othora	Mode Lock	pump model					
Others	DRED (Demand Response Enabling Device)	-					
	UV Nano	This function reduces various bacteria inside the air conditioner					

- **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	VS092C7.SJ0 S4-Q09JA3WE.EC2GCOL
	Air Supply Outlet	1
	Airflow Direction Control (Left & Right)	Manual
	Airflow Direction Control (Up & Down)	6 Steps
Δir	Auto Swing (Left & Right)	X
Air Flow	Auto Swing (Up & Down) Fan Speed Steps (Fan / Cool / Heat)	0
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / X
	Natural Wind (Auto Wind)	0
	Jet Cool / Jet Heat (Power Wind)	0 / X
	Comfort Air Prefilter (Washable)	X 0
	Deodorizing Filter	<u>U</u> X
Air Purifying	Micro Dust Filter	
Purifying	Allergy Filter	<u>^</u>
	Plasma Air Purifier (Ionizer)	X
Installation		X
	Hot Start	Χ
Poliobility	Self Diagnosis	0
Reliability	De-ice Control (Defrost)	X
	Dry (Dehumidification) Operation	0
	Auto Changeover	X
ĺ	Auto Operation (Artificial Intelligence)	0
	Auto Cleaning (Coil Dry)	0
	Auto Restart Operation	0
	Child Lock 1	X
	Forced Operation	0
	Group Control ¹ Sleep Mode	Comfort Sleep (7hr)
	Timer 24hr (On/Off) / 7hr (Off)	O / X
	Timer (Weekly) 1	X
	Time The manifet on Occasion 1	X
Convenience	Low Ambient Operation	X
	Overheating Protection	X
	Low Heating	X
	Voice Control	Х
	Outdoor Silent Mode	X
	Mosquito Away	Χ
	Smart Diagnosis	0
	Indoor Unit Display Type	Number Display
	Indoor Unit Display Light	On/Off
	Energy Display	0
	Air Quality Indicator (Dust Sensor) Energy Saving	X 0
Energy Saving	Energy Control	X
Saving	Gen Mode	X
	Wired Remote Controller (Premium) ²	X
	Wired Remote Controller (Standard) ²	X
	Wired Remote Controller (Simple with Mode Selection) ²	Χ
Individual Control	Wired Remote Controller (Simple without Mode Selection) ²	Х
	Handhald Wireless (See Remote Controller Section)	AKB75215401
	Handheld Wireless Controller Setting Temperature Range (Cooling)	18~30 °C (64~86 °F)
	Setting Temperature Range (Heating)	X
	General Central Controller (Non LGAP)	X
,,ÇAC	Network Solution (LGAP)	X
Network Function	Dry Contact ²	X
	PDI (Power Distribution Indicator) ²	X
	Outdoor Unit PI 485 ² Wi-Fi ²	X X
	Water Level Sensor Connection ²	X X
Cnasiai	Wind Baffle Kit 2	X
Special Function Kit	Sump Heater	X
Kit	Sheath Heater ²	X
	Crank Case Heater	X
	Smart Inverter Monitoring System (SIMs) ²	X
	Mode Lock	X
Others	DRED (Demand Response Enabling Device)	X
2010	UV Nano	Х
	- · · · · · · · · ·	~

- Note
 O: Applied, X: Not applied
 Filters are optional in some specific areas.
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 1: This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the chose table This function can be operated only most and the above table.
 Page 1. 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		C7.SK0
J.,	Air Supply Outlet	S4-Q24K23V	VE.EC2GCOL
	Airflow Direction Control (Left & Right)	Mai	nual
	Airflow Direction Control (Up & Down)		teps
	Auto Swing (Left & Right)		X
Air Flow	Auto Swing (Up & Down)		Ö
FIOW	Fan Speed Steps (Fan / Cool / Heat)		6 / X
	Natural Wind (Auto Wind)	(0
	Jet Cool / Jet Heat (Power Wind)	0	/ X
	Comfort Air		X
	Prefilter (Washable)		0
۸۱۰	Deodorizing Filter		X
Air Purifying	Micro Dust Filter		X
,	Allergy Filter		0
	Plasma Air Purifier (Ionizer)		X
Installation	Drain Pump		X
	Hot Start		X
Reliability	Self Diagnosis		0
Reliability	De-ice Control (Defrost)		X
	Dry (Dehumidification) Operation		0
	Auto Changeover		X
	Auto Operation (Artificial Intelligence)		X
	Auto Cleaning (Coil Dry)		0
	Auto Restart Operation Child Lock 1) X
	Forced Operation		<u>^</u>
	Group Control 1		<u> </u>
	Sleep Mode	Comfort	A Bleep (7hr)
	Timer 24hr (On/Off) / 7hr (Off)		/ X
	Timer (Weekly) 1		X
	Time The ameliation Occation 1		X
Convenience	Low Ambient Operation		X
Convenience	Overheating Protection		X
	Low Heating		X
	Voice Control		X
	Outdoor Silent Mode		X
	Mosquito Away		X
	Smart Diagnosis	(0
	Indoor Unit Display Type	Number	Display
	lIndoor Unit Display Light	On	/Off
	Energy Display		0
	Air Quality Indicator (Dust Sensor)		X
Energy	Energy Saving		0
Energy Saving	Energy Control		X
	Gen Mode		X
	Wired Remote Controller (Premium) ²		X
	Wired Remote Controller (Standard) 2		X
Individual	Wired Remote Controller (Simple with Mode Selection) 2		X
Control	Wired Remote Controller (Simple without Mode Selection) 2	ALCOZE	X 245404
	Handheld Wireless (See Remote Controller Section) Setting Temperature Range (Cooling)		215401
	Controller Setting Temperature Range (Cooling)		(64~86 °F)
	Setting Temperature Range (Heating)		X X
	General Central Controller (Non LGAP) Network Solution (LGAP)		X X
CAC	Dry Contact 2		^ X
CAC Network Function	DDI /Power Distribution Indicator\ 2		^ ·
	PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ²		X
	W-Fi ²		^ X
	Water Level Sensor Connection ²		^ X
0 1	Wind Baffle Kit ²		^ X
Special Function Kit	Sump Heater		^ X
Kit	Sheath Heater ²		^ X
	Crank Case Heater		^ X
	Smart Inverter Monitoring System (SIMs) ²		^ X
	Mode Lock		X
Others	DRED (Demand Response Enabling Device)		x X
Others	UV Nano		^ X

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 1 : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the chose table. Institution can be operated only when the whed relibte controller is connected. The applicability of each full 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	VS182C7.SK0
	Air Supply Outlet	S4-Q18KL3WE.EC2GCOL
	Airflow Direction Control (Left & Right)	Manual
	Airflow Direction Control (Up & Down)	6 Steps
	Auto Swing (Left & Right)	X
Air Flow	Auto Swing (Up & Down) Fan Speed Steps (Fan / Cool / Heat) Natural Wind (Auto Wind)	0
1100	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / X
	Natural Wind (Auto Wind)	0
	Jet Cool / Jet Heat (Power Wind)	0 / X
	Comfort Air	X
	Prefilter (Washable)	0
Air Purifying	Deodorizing Filter Micro Dust Filter	X
Purifying	Allergy Filter	^ 0
	Plasma Air Purifier (Ionizer)	<u>V</u>
Installation	Drain Pump	X
	Hot Start	X
Doliobility	Self Diagnosis	0
Reliability	De-ice Control (Defrost)	X
	Dry (Dehumidification) Operation	0
	Auto Changeover	X
	Auto Operation (Artificial Intelligence)	0
	Auto Cleaning (Coil Dry)	0
	Auto Restart Operation Child Lock 1	0 X
	Forced Operation	0
	Group Control 1	X
	Sleep Mode	Comfort Sleep (7hr)
	Timer 24hr (On/Off) / 7hr (Off)	0 / X
	Timer (Weekly) 1	X
Convenience	Two Thermistor Control ¹	X
	Low Ambient Operation Overheating Protection	X
	Overheating Protection	X
	Low Heating	X
	Voice Control	X
	Outdoor Silent Mode Mosquito Away	X
	Smart Diagnosis	0
	Indoor Unit Display Type	Number Display
	Indoor Unit Display Light	On/Off
	Energy Display	0
	Air Quality Indicator (Dust Sensor)	X
Enorgy	Energy Saving	0
Energy Saving	Energy Control	X
	Gen Mode	X
	Wired Remote Controller (Premium) 2	X
	Wired Remote Controller (Standard) ² Wired Remote Controller (Simple with Mode Selection) ²	X X
Individual	Wired Remote Controller (Simple with Mode Selection) ²	Y Y
Control	(See Remote Controller Section)	AKB75215401
	Handheld Wireless (See Remote Controller Section) Controller Setting Temperature Range (Cooling)	18~30 °C (64~86 °F)
	Setting Temperature Range (Cooling) Setting Temperature Range (Heating)	X
	General Central Controller (Non LGAP)	X
CAC	General Central Controller (Non LGAP) Network Solution (LGAP)	X
Network	General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact ²	X X
CAC Network Function	General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact ² PDI (Power Distribution Indicator) ²	X X X
Network	General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact ² PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ²	X X X X
Network	General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact ² PDI (Power Distribution Indicator) ² Outdoor Unit PI 485 ² Wi-Fi ²	X X X X X
Network Function	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	X X X X
Network Function	General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact 2 PDI (Power Distribution Indicator) 2 Outdoor Unit PI 485 2 WFi 2 Water Level Sensor Connection 2 Wind Baffle Kit 2	X X X X X X
Network	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	X X X X X X X
Network Function	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	X X X X X X
Network Function	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	X X X X X X X X
Network Function	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	X X X X X X X X X
Network Function	General Central Controller (Non LGAP) Network Solution (LGAP) Dry Contact 2 PDI (Power Distribution Indicator) 2 Outdoor Unit PI 485 2 WFi 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 X X X X X X X X

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• 1 : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the chose table. the above table.

• 2 : Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.

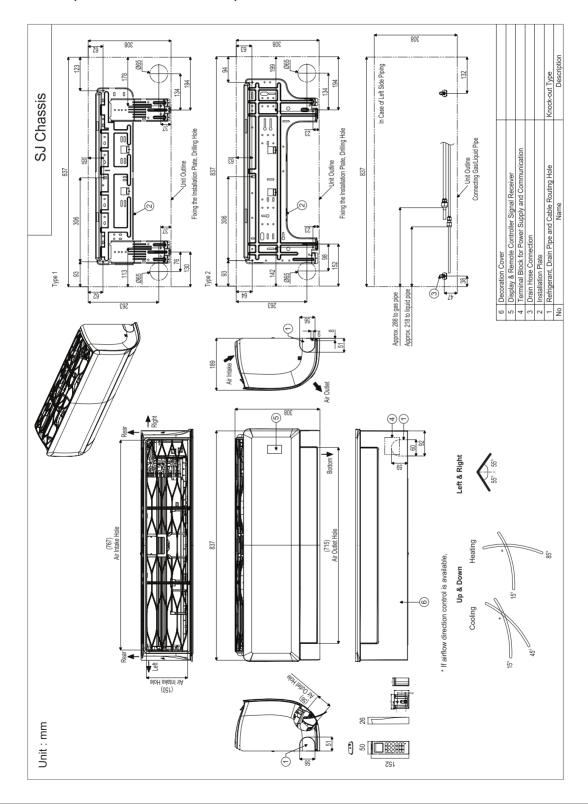
• The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)

• Some specifications may be changed without notifications due to our policy of innovation.

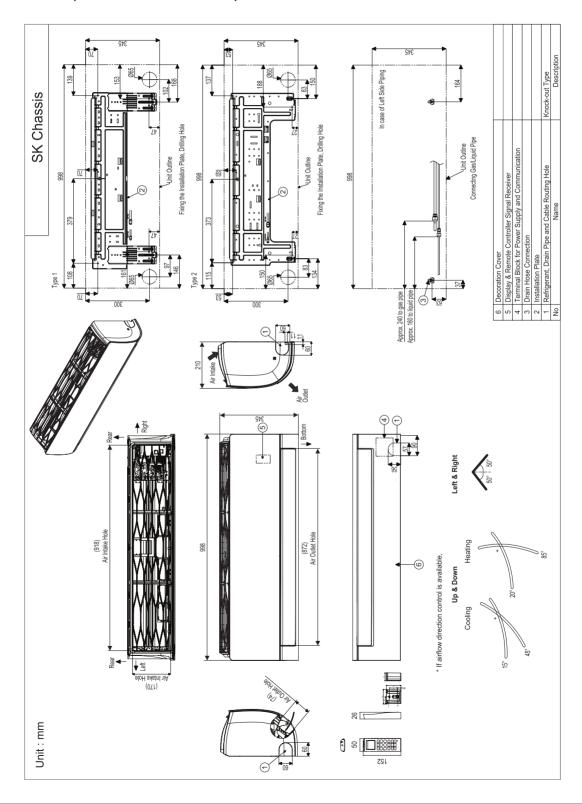


5.1 Indoor Unit

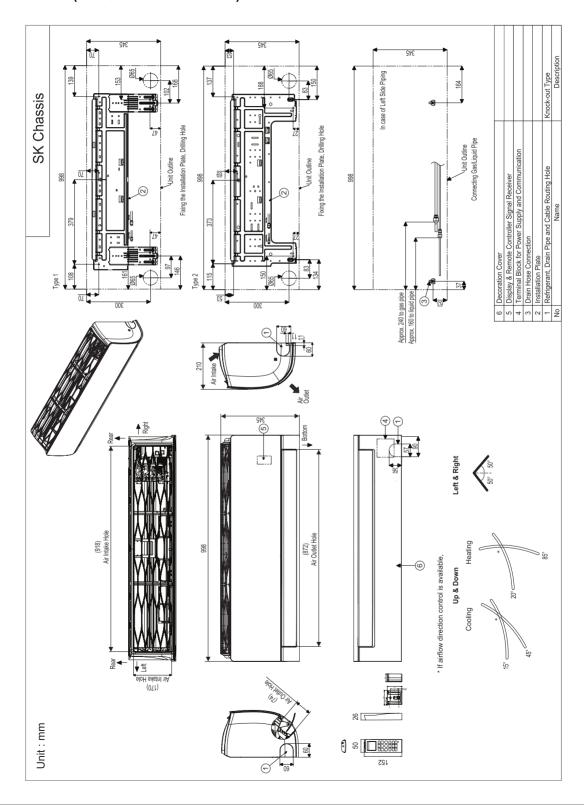
VS092C7.NJ0 (S4NQ09JA3WE.EC2GCOL)



VS242C7.NK0 (S4NQ24K23WE.EC2GCOL)



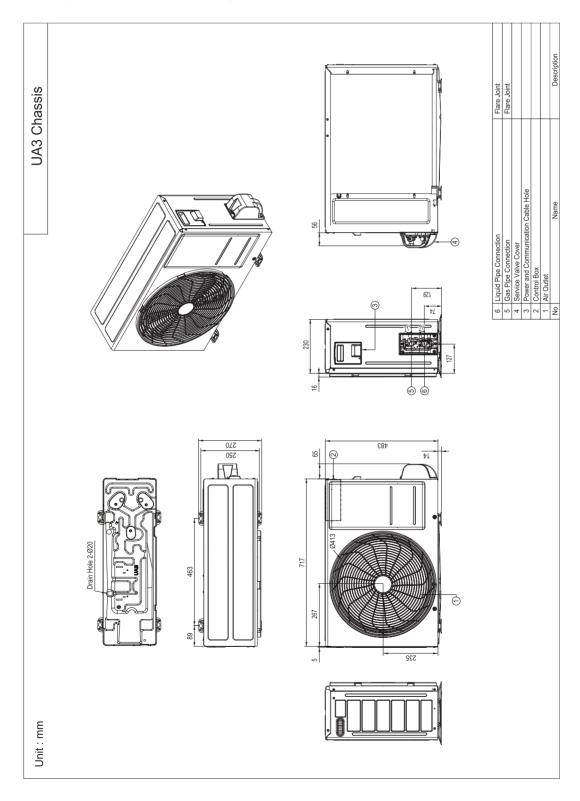
VS182C7.NK0 (S4NQ18KL3WE.EC2GCOL)





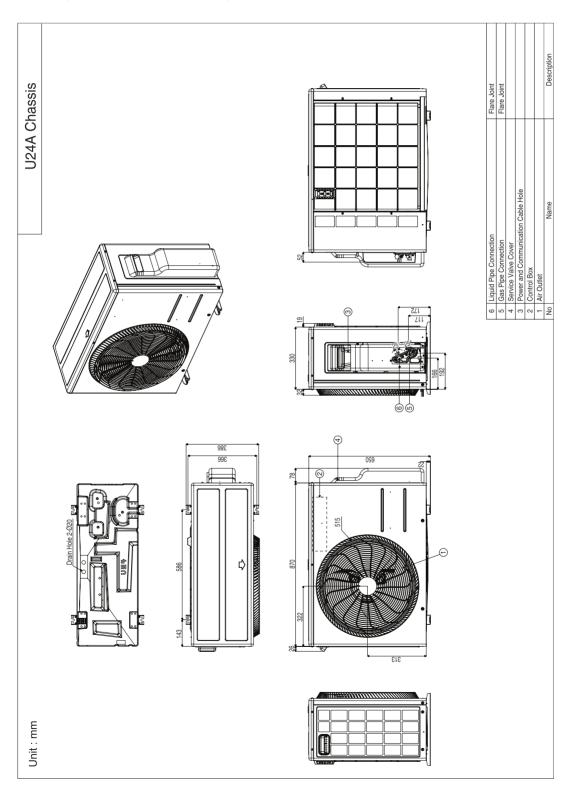
5.2 Outdoor Unit

VS092C7.UJ0 (S4UQ09JA3WE.EC2GCOL)



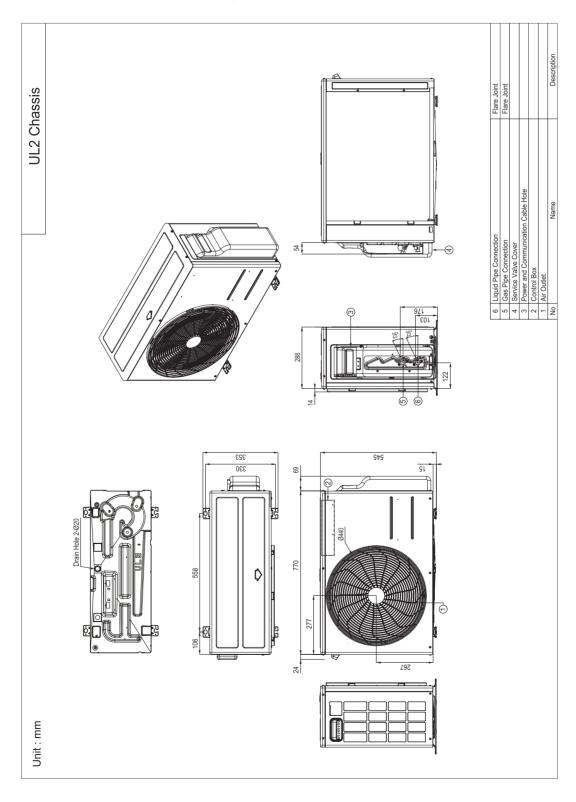


VS242C7.UK0 (S4UQ24K23WE.EC2GCOL)

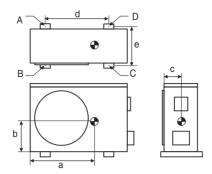




VS182C7.UK0 (S4UQ18KL3WE.EC2GCOL)



5.3 Corner Weight and Center of Gravity Dimension for Outdoor Unit



Model	Tool	Weight (kg)		Center of Gravity (mm)			Leg (mm)		Corner Weight (kg)			
Model		Shipping	Net	а	b	С	d	е	Α	В	С	D
VS092C7.UJ0	UA3	26.0	22.8	475	219	113	463	256	1.7	2.1	9.7	9.3
VS242C7.UK0	U24A	47.0	41.5	565	260	150	586	366	4.9	6.7	15.9	14.1
VS182C7.UK0	UL2	34.5	29.8	507	237	143	558	330	4.1	4.3	10.8	10.6

Model Tool	Tool	Weight (lb.)		Center of Gravity (in.)		Leg (in.)		Corner Weight (ib.)				
	Shipping	Net	а	b	С	d	е	Α	В	С	D	
VS092C7.UJ0	UA3	57.3	50.3	18-11/16	8-5/8	4-7/16	18-7/32	10-3/32	3.7	4.7	21.4	20.5
VS242C7.UK0	U24A	103.6	91.5	22-1/4	10-1/4	5-29/32	23-1/16	14-13/32	10.8	14.7	35.0	31.0
VS182C7.UK0	UL2	76.1	65.7	19-31/32	9-11/32	5-5/8	21-31/32	13	9.0	9.4	23.8	23.4

Note

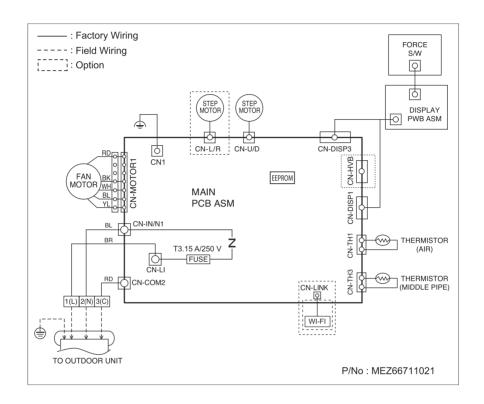
[•] Design features and information of indoor and outdoor unit may be changed without notifications due to our policy of innovation.

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

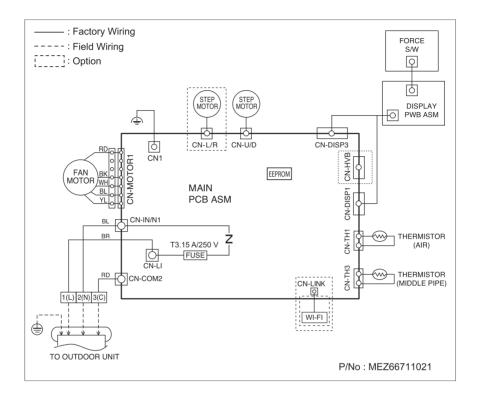


6.1 Indoor Unit

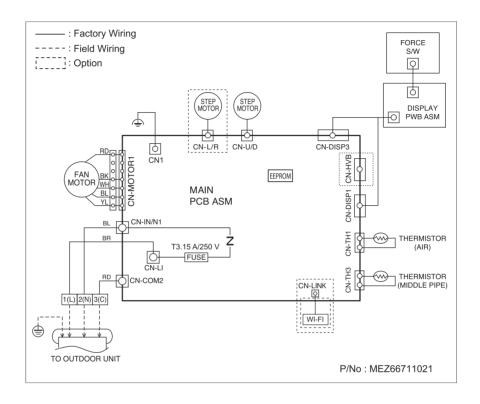
VS092C7.NJ0 (S4NQ09JA3WE.EC2GCOL)



VS242C7.NK0 (S4NQ24K23WE.EC2GCOL)



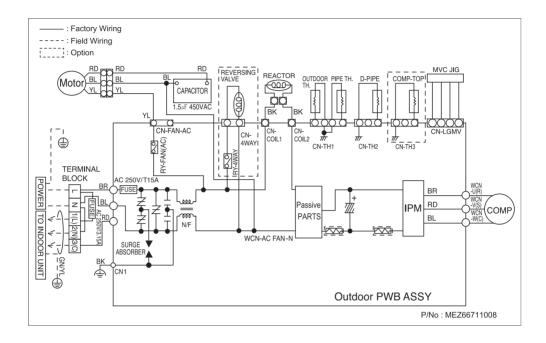
VS182C7.NK0 (S4NQ18KL3WE.EC2GCOL)



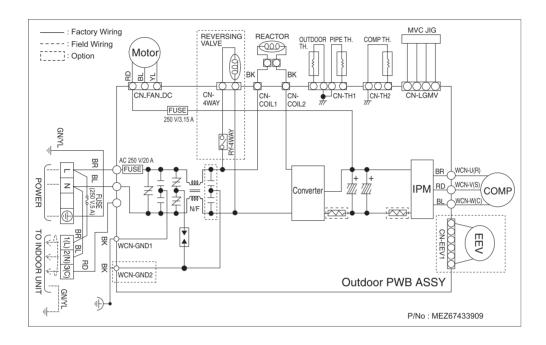


6.2 Outdoor Unit

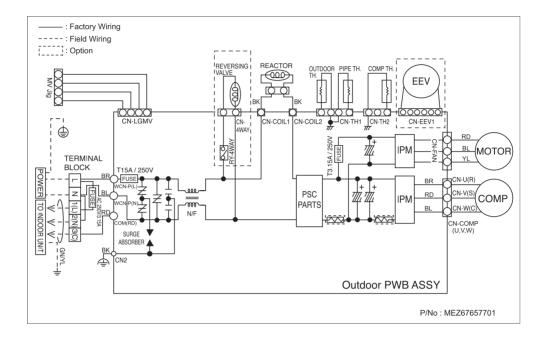
VS092C7.UJ0 (S4UQ09JA3WE.EC2GCOL)



VS242C7.UK0 (S4UQ24K23WE.EC2GCOL)

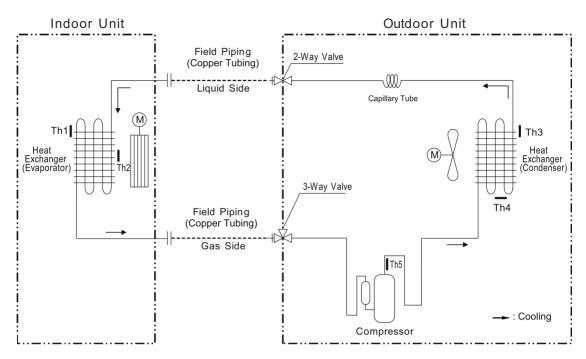


VS182C7.UK0 (S4UQ18KL3WE.EC2GCOL)



7. Refrigerant Cycle Diagrams

VS092C7.SJ0 (S4-Q09JA3WE.EC2GCOL)



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

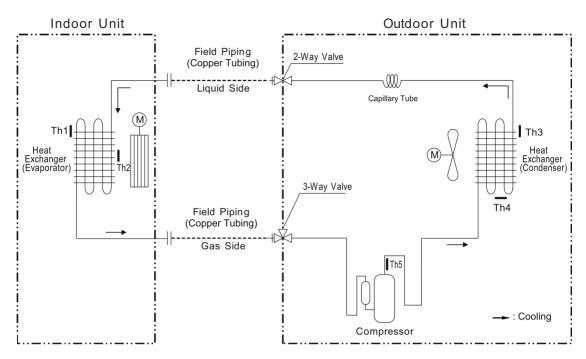
◆ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid		Capillary Tube
Wodel	mm	inch	mm	inch	Capillary Tube
VS092C7.SJ0	ø 9.52	ø 3/8	ø 6.35	ø 1/4	(OD - × ID - × - mm) × -EA

	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		

7. Refrigerant Cycle Diagrams

VS242C7.SK0 (S4-Q24K23WE.EC2GCOL)



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

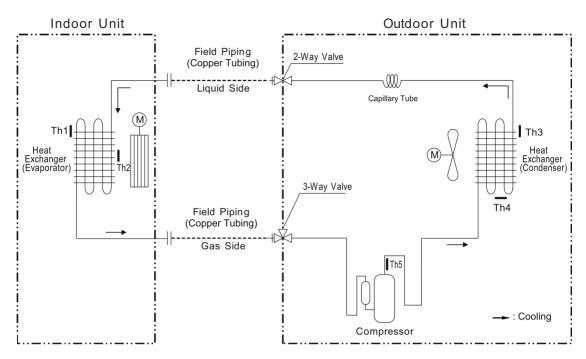
◆ Refrigerant Pipe Connection Port Diameters

Model	G	as	Liq	uid	Capillary Tube
Wodel	mm	inch	mm	inch	Capillary Tube
VS242C7.SK0	ø 15.88	ø 5/8	ø 6.35	ø 1/4	(OD - × ID - × - mm) × -EA

	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		—— Muffler	Strainer		

7. Refrigerant Cycle Diagrams

VS182C7.SK0 (S4-Q18KL3WE.EC2GCOL)



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

◆ Refrigerant Pipe Connection Port Diameters

Model	G	as	Liq	uid	Capillary Tube
Wodel	mm	inch	mm	inch	Capillary Tube
VS182C7.SK0	ø 12.7	ø 1/2	ø 6.35	ø 1/4	(OD - × ID - × - mm) × -EA

	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. Capacity Tables

8.1 Rated Cooling Capacity

VS092C7.SJ0 (S4-Q09JA3WE.EC2GCOL)

Outdoor Air		Indoor Air Temperature : °C DB / °C WB																				
Temperature		18 / 1	2	2	20 / 14		2	22 / 16			25 / 18			27 / 19			29 / 19			32 / 23		
°C DB	TC	SHC	Pl	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	Pl	TC	SHC	Pl	TC	SHC	Pl	
18	2.07	2.07	0.37	2.26	2.26	0.39	2.45	2.45	0.41	2.68	2.68	0.44	2.83	2.83	0.45	2.98	2.98	0.47	3.20	3.20	0.50	
20	2.06	2.06	0.38	2.24	2.24	0.40	2.43	2.43	0.42	2.65	2.65	0.44	2.79	2.79	0.46	2.95	2.95	0.48	3.17	3.17	0.50	
25	2.07	2.07	0.48	2.24	2.24	0.50	2.40	2.40	0.53	2.61	2.61	0.55	2.74	2.74	0.57	2.90	2.90	0.59	3.12	3.12	0.62	
30	2.08	2.08	0.59	2.23	2.23	0.61	2.38	2.38	0.63	2.57	2.57	0.66	2.69	2.69	0.68	2.85	2.85	0.70	3.08	3.08	0.73	
35	2.09	2.09	0.70	2.23	2.23	0.72	2.37	2.37	0.75	2.54	2.54	0.77	2.64	2.64	0.79	2.81	2.81	0.81	3.04	3.04	0.85	
41	2.13	2.13	0.91	2.28	2.28	0.94	2.43	2.43	0.97	2.63	2.63	1.01	2.74	2.74	1.03	2.91	2.91	1.06	3.14	3.14	1.10	
46	2.06	2.06	1.09	2.21	2.21	1.12	2.37	2.37	1.16	2.56	2.56	1.20	2.68	2.68	1.23	2.84	2.84	1.27	3.06	3.06	1.32	
48	2.00	2.00	1.10	2.16	2.16	1.13	2.31	2.31	1.17	2.50	2.50	1.21	2.61	2.61	1.24	2.77	2.77	1.28	2.99	2.99	1.33	

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DB: Dry Build Temperature	l °C
WB: Wet Bulb Temperature	O° j̇́
TC : Total Capacity	į̇̃ kW
SHC: Sensible Heating Capacity	[kW
PI: Power Input	į̇̃ kW
(Comp. + Indoor Fan Motor + Outdoor Fan Motor)	•

- 1. All capacities are net, evaporator fan motor heat is
- 1. All capacities are fiel, evaporator far fibror fleat is deducted.
 2. Direct interpolation is permissible. Do not extrapolate.
 3. Capacities are based on the following conditions.

 Interconnecting Piping Length 5 m (16.4 ft.)
 Level Difference of Zero.



8. Capacity Tables

VS242C7.SK0 (S4-Q24K23WE.EC2GCOL)

Outdoor Air		Indoor Air Temperature : °C DB / °C WB																				
Temperature		18 / 12		2	20 / 14		2	22 / 16			25 / 18			27 / 19			29 / 19			32 / 23		
°C DB	TC	SHC	Pl	TC	SHC	Pl	TC	SHC	PI	TC	SHC	Pl										
18	4.52	4.52	1.34	4.94	4.94	1.42	5.35	5.35	1.50	5.86	5.86	1.59	6.17	6.17	1.65	6.51	6.51	1.72	6.99	6.99	1.81	
20	4.50	4.50	1.38	4.90	4.90	1.46	5.29	5.29	1.53	5.79	5.79	1.62	6.09	6.09	1.68	6.43	6.43	1.75	6.91	6.91	1.84	
25	4.69	4.69	1.51	5.07	5.07	1.57	5.45	5.45	1.64	5.93	5.93	1.73	6.21	6.21	1.78	6.57	6.57	1.85	7.08	7.08	1.94	
30	4.90	4.90	1.63	5.26	5.26	1.69	5.61	5.61	1.75	6.06	6.06	1.83	6.33	6.33	1.88	6.71	6.71	1.94	7.25	7.25	2.03	
35	5.12	5.12	1.75	5.45	5.45	1.81	5.78	5.78	1.87	6.20	6.20	1.94	6.45	6.45	1.98	6.86	6.86	2.04	7.42	7.42	2.13	
41	4.72	4.72	1.40	5.06	5.06	1.45	5.40	5.40	1.49	5.82	5.82	1.55	6.08	6.08	1.59	6.45	6.45	1.63	6.96	6.96	1.70	
46	4.13	4.13	1.03	4.45	4.45	1.06	4.76	4.76	1.10	5.15	5.15	1.14	5.39	5.39	1.16	5.71	5.71	1.20	6.16	6.16	1.25	
48	4.03	4.03	1.04	4.34	4.34	1.07	4.64	4.64	1.10	5.03	5.03	1.15	5.26	5.26	1.17	5.57	5.57	1.21	6.01	6.01	1.26	

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DB: Dry Bulb Temperature	L °C
WB: Wet Bulb Temperature	O° j̇̃
TC : Total Capacity	[kW
SHC : Sensible Heating Capacity	įκW
PI: Power Input	į̇̃kW
(Comp. + Indoor Fan Motor + Outdoor Fan Motor)	•

- **Note**1. All capacities are net, evaporator fan motor heat is deducted.
- 2. Direct interpolation is permissible. Do not extrapolate.
 3. Capacities are based on the following conditions.

 Interconnecting Piping Length 5 m (16.4 ft.)

 Level Difference of Zero.

1 32

8. Capacity Tables

VS182C7.SK0 (S4-Q18KL3WE.EC2GCOL)

Outdoor Air		Indoor Air Temperature: °C DB / °C WB																			
Temperature		18 / 1	2		20 / 1	4	:	22 / 10	6	:	25 / 18	8		27 / 19	9	2	29 / 19	9	;	32 / 23	3
°C DB	TC	SHC	Pl	TC	SHC	Pl	TC	SHC	Pl	TC	SHC	Pl	TC	SHC	Pl	TC	SHC	Pl	TC	SHC	Pl
18	4.33	4.33	0.90	4.72	4.46	0.95	5.12	4.58	1.00	5.61	4.73	1.06	5.90	4.82	1.10	6.23	5.35	1.15	6.69	6.09	1.21
20	4.31	4.31	0.92	4.69	4.45	0.97	5.07	4.58	1.02	5.54	4.75	1.09	5.83	4.85	1.12	6.16	5.36	1.17	6.61	6.07	1.23
25	4.27	4.10	1.09	4.61	4.26	1.14	4.96	4.43	1.19	5.39	4.64	1.25	5.64	4.77	1.29	5.98	5.21	1.34	6.43	5.82	1.40
30	4.23	3.89	1.26	4.53	4.09	1.31	4.84	4.29	1.36	5.23	4.53	1.42	5.46	4.68	1.45	5.79	5.06	1.50	6.25	5.58	1.57
35	4.19	3.69	1.44	4.46	3.92	1.48	4.73	4.15	1.53	5.07	4.43	1.59	5.28	4.60	1.62	5.61	4.91	1.67	6.07	5.35	1.74
41	3.66	3.19	1.42	3.92	3.41	1.46	4.19	3.64	1.51	4.51	3.92	1.57	4.71	4.09	1.60	5.00	4.34	1.65	5.40	4.70	1.71
46	3.01	2.59	1.36	3.24	2.79	1.40	3.47	2.99	1.45	3.75	3.24	1.50	3.92	3.39	1.53	4.16	3.59	1.58	4.49	3.87	1.64
48	2.93	2.53	1.37	3.16	2.72	1.41	3.38	2.92	1.46	3.66	3.16	1.51	3.83	3.30	1.54	4.06	3.50	1.59	4.38	3.77	1.66

Symbol		
DD - D	D. H.	-

DB : Dry Bulb Temperature	[°C]
WB : Wet Bulb Temperature	[°C]
TC : Total Capacity	[kW]
SHC: Sensible Heating Capacity	[kW]
PI: Power Input	[kW]
(Comp.+ Indoor Fan Motor + Outdoor Fan Motor)	

- 1. All capacities are net, evaporator fan motor heat is deducted.
- 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 (%)

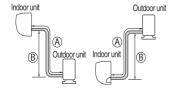
	Refrigerant Pipe Length											
Model	m	5	7.5	10	15	20	25	30	35	40	45	50
	ft	16.4	24.6	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0
VS092C7.SJ0 (S4-Q09JA3WE.EC2GCOL)	Cooling	100	100	98.0	94.0	1	-	-	-	-	-	-
VS242C7.SK0 (S4-Q24K23WE.EC2GCOL)	Cooling	100	100	98.8	96.4	94.0	-	-	-	-	-	-
VS182C7.SK0 (S4-Q18KL3WE.EC2GCOL)	Cooling	100	100	100.0	100.0	100.0	1	-	-	-	-	-



9. Capacity Coefficient Factor

9.2 Pipe Size, Length and Elevation

Pipe Size			Standard	Min. / Max.	Max.	Additional	No Charge		
Model	Ga	Gas Liquid		uid		Pipe Length		•	Pipe Length
	mm	inch	mm	inch	[m (ft.)]	A [m (ft.)]	B [m (ft.)]	[g/m (oz./ft.)]	[m (ft.)]
VS092C7.SJ0	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5	3 / 15	7	20	7.5
(S4-Q09JA3WE.EC2GCOL)	0 9.52	Ø 3/0	Ø 0.33	Ø 1/4	(24.6)	(9.8 / 49.2)	(23)	(0.22)	(24.6)
VS242C7.SK0	Ø	ø 5/8	ø 6.35	~ 1/1	7.5	3 / 20	10	20	7.5
(S4-Q24K23WE.EC2GCOL)	15.88	Ø 3/6	Ø 0.33	Ø 1/4	(24.6)	(9.8 / 65.6)	(32.8)	(0.22)	(24.6)
VS182C7.SK0	ø 12.7	ø 1/2	ø 6.35	ø 1/4	7.5	3 / 20	10	20	7.5
(S4-Q18KL3WE.EC2GCOL)	Ø 12.7	Ø 1/2	ø 0.33	ø 1/4	(24.6)	(9.8 / 65.6)	(32.8)	(0.22)	(24.6)



AWARNING

 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

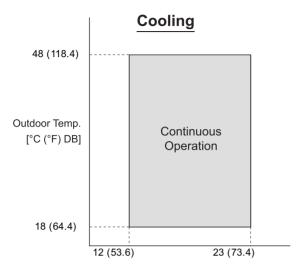
9.3 Additional Refrigerant Charge

					Ref	rigerar	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
VS092C7.SJ0 (S4-Q09JA3WE EC2GCOL)	Additional Charge [g (oz.)]	0	0	50 (1.8)	100 (3.6)	150 (5.4)	-	-	-	-	-	-	-
VS242C7.SK0 (S4-Q24K23WE EC2GCOL)	Additional Charge [g (oz.)]	0	0	50 (1.8)	100 (3.6)	150 (5.4)	250 (9.0)	-	ı	-	-	ı	-
VS182C7.SK0 (S4-Q18KL3WE EC2GCOL)	Additional Charge [g (oz.)]	0	0	50 (1.8)	100 (3.6)	150 (5.4)	250 (9.0)	-	-	-	-	-	-

- 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

10. Operation Range

VS092C7.SJ0 (S4-Q09JA3WE.EC2GCOL)



Indoor Temp. [°C (°F) WB]

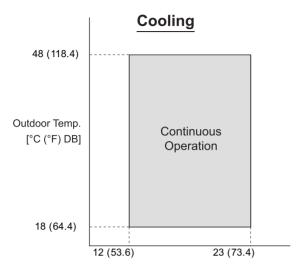
The figures are based on the following conditions:

- Equivalent Piping Length: 7.5 m (24.6 ft.)

- Level Difference: 0 m (0 ft.)

10. Operation Range

VS242C7.SK0 (S4-Q24K23WE.EC2GCOL)



Indoor Temp. [°C (°F) WB]

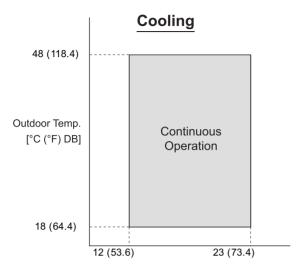
The figures are based on the following conditions:

- Equivalent Piping Length: 7.5 m (24.6 ft.)

- Level Difference: 0 m (0 ft.)

10. Operation Range

VS182C7.SK0 (S4-Q18KL3WE.EC2GCOL)



Indoor Temp. [°C (°F) WB]

The figures are based on the following conditions:

- Equivalent Piping Length: 7.5 m (24.6 ft.)

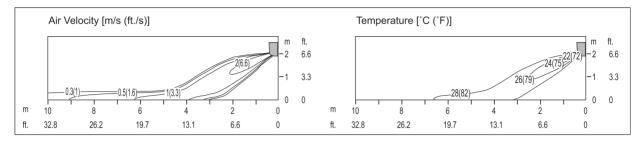
- Level Difference: 0 m (0 ft.)



11. Air Flow and Temperature Distributions (Reference Data)

VS092C7.SJ0 (S4-Q09JA3WE.EC2GCOL)

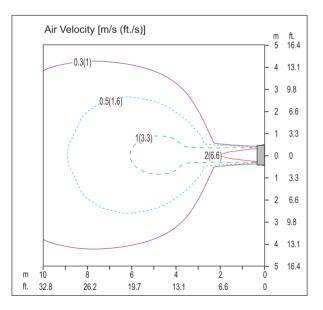
Cooling



Side View

Discharge Angle: 35° (From the floor \overline{V})

Vertical Louver : Center Fan Speed : Power

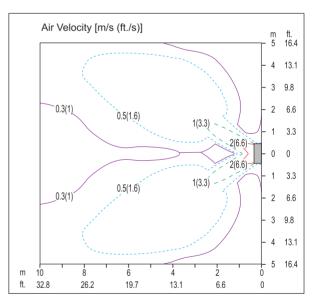




Discharge Angle: 35° (From the floor \overline{V})

Vertical Louver : Center Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range: 11.5 m (37.7 ft.)



Top View

Discharge Angle: 35° (From the floor \overline{V})

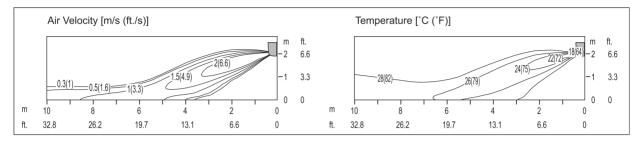
Vertical Louver : Left & Right

Fan Speed: Power

11. Air Flow and Temperature Distributions (Reference Data)

VS242C7.SK0 (S4-Q24K23WE.EC2GCOL)

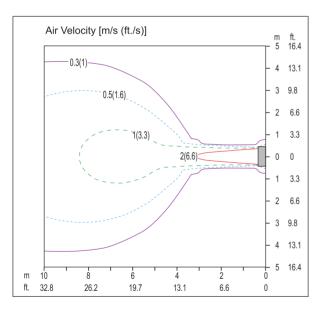
Cooling



Side View

Discharge Angle: 25° (From the floor \overline{V})

Vertical Louver : Center Fan Speed : Power

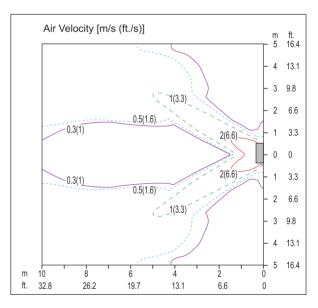


Top View

Discharge Angle: 25° (From the floor \overline{V})

Vertical Louver : Center Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range: 15.7 m (51.5 ft.)



Top View

Discharge Angle: 25° (From the floor \overline{V})

Vertical Louver : Left & Right

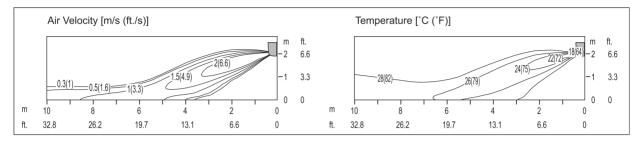
Fan Speed : Power



11. Air Flow and Temperature Distributions (Reference Data)

VS182C7.SK0 (S4-Q18KL3WE.EC2GCOL)

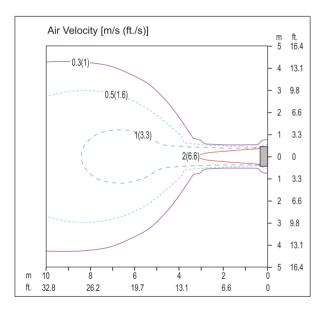
Cooling



Side View

Discharge Angle: 25° (From the floor \overline{V})

Vertical Louver : Center Fan Speed : Power

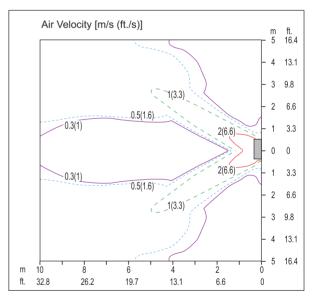


Top View

Discharge Angle: 25° (From the floor \overline{V})

Vertical Louver : Center Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range: 15.7 m (51.5 ft.)



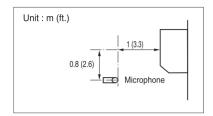
Top View

Discharge Angle: 25° (From the floor \overline{V})

Vertical Louver : Left & Right

Fan Speed: Power

12.1 Sound Pressure Level (Indoor Unit)



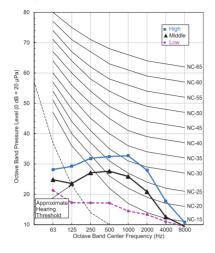
Note

- 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		
VS092C7.NJ0 (S4NQ09JA3WE.EC2GCOL)	42	36	28	-	-	-		
VS242C7.NK0 (S4NQ24K23WE.EC2GCOL)	47	42	38	-	-	-		
VS182C7.NK0 (S4NQ18KL3WE.EC2GCOL)	45	43	38	-	-	-		

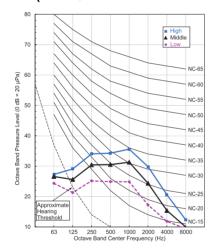
VS092C7.NJ0 (S4NQ09JA3WE.EC2GCOL)

Cooling



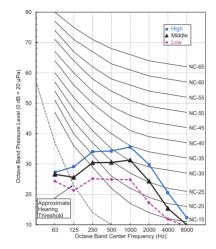
VS242C7.NK0 (S4NQ24K23WE.EC2GCOL)

Cooling

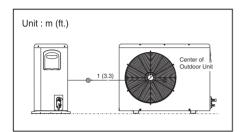


VS182C7.NK0 (S4NQ18KL3WE.EC2GCOL)

Cooling



12.2 Sound Pressure Level (Outdoor Unit)



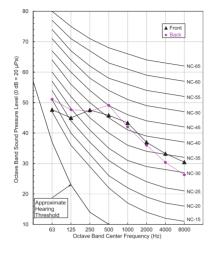
Note

- 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 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	Н		
VS092C7.UJ0 (S4UQ09JA3WE.EC2GCOL)	53	-		
VS242C7.UK0 (S4UQ24K23WE.EC2GCOL)	55	-		
VS182C7.UK0 (S4UQ18KL3WE.EC2GCOL)	54	-		

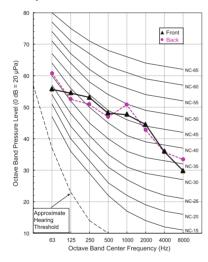
VS092C7.UJ0 (S4UQ09JA3WE.EC2GCOL)

Cooling



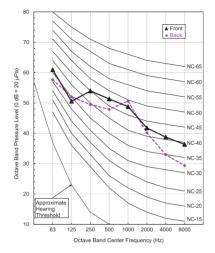
VS242C7.UK0 (S4UQ24K23WE.EC2GCOL)

Cooling



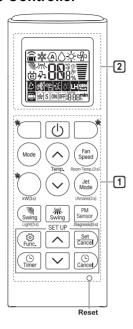
VS182C7.UK0 (S4UQ18KL3WE.EC2GCOL)

Cooling



13. Remote Controller

Wireless Remote Controller



1 Button	2 Display Screen	Description
Ф	-	To turn on/off the air conditioner.
	88°»	To adjust the desired room temperature in cooling, heating or auto changeover mode.
	*	To select the cooling mode.
	×	To select the heating mode.
Mode	٥	To select the dehumidification mode.
	労	To select the fan mode.
	(A)	To select the auto changeover/auto operation mode.
Jet Mode	Po	To change room temperature quickly.
Fan Speed	T	To adjust the fan speed.
Swing Swing	397 从	To adjust the air flow direction vertically or horizontally.

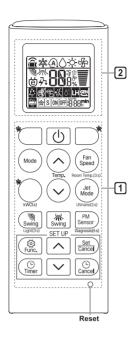
1 Button	2 Display Screen	Description
Timer	☆ S ON OFF	To turn on/off air conditioner automatically at desired time.
Set/ Cancel	-	To set/cancel the special functions and timer.
Cancel	-	To cancel the timer settings.
> <	-	To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)	1	To display the room temperature.
*Energy Saving	ë	To minimize power consumption.
*Comfort Air	<u> -</u> J_J	To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.	3188 ×	To bring the effect of the power saving.
*Comfort Sleep		To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify	4	The lon generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)		To keep the fan clean.
	€	To reduce noise from outdoor units.
	K	To keep your skin moisturized by generating ion clusters.
	Ø Po	To lower indoor humidity quickly.
Func.	™ ŁH	To maintain a minimum room temperature and prevent objects in the room from freezing.
	Ø	To scare away a mosquito.
	ŧ.	To remove moisture generated inside the indoor unit.
	₩ SL	To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

NOTE

- * buttons may be changed according to the type of model.
 When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
 Some functions may not be supported, depending on the model.
 Press the Set/Cancel button to operate the selected Func.

P/No	Applied Model
AKB75215401	VS092C7.NJ0 (S4NQ09JA3WE.EC2GCOL)

13. Remote Controller



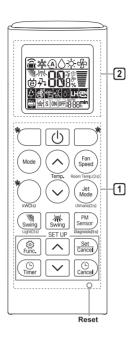
1 Button	2 Display Screen	Description
Ф	-	To turn on/off the air conditioner.
	88°»	To adjust the desired room temperature in cooling, heating or auto changeover mode.
	*	To select the cooling mode.
	Ď.	To select the heating mode.
Mode	٥	To select the dehumidification mode.
	务	To select the fan mode.
	(A)	To select the auto changeover/auto operation mode.
Jet Mode	Ро	To change room temperature quickly.
Fan Speed	▋	To adjust the fan speed.
(M) (M)	勠 从	To adjust the air flow direction vertically or horizontally.

1 Button	2 Display	Description
- Batton	Screen	2000
Timer	☆ S ON OFF	To turn on/off air conditioner automatically at desired time.
Set/ Cancel	-	To set/cancel the special functions and timer.
Centel	-	To cancel the timer settings.
~~	-	To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)	Û	To display the room temperature.
*Energy Saving	ė	To minimize power consumption.
*Comfort Air	<u>-</u> J_J	To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.	91 88 %	To bring the effect of the power saving.
*Comfort Sleep	☆	To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify	4	The lon generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)		To keep the fan clean.
	%	To reduce noise from outdoor units.
	*\$	To keep your skin moisturized by generating ion clusters.
	®₽o	To lower indoor humidity quickly.
Func.	■LH	To maintain a minimum room temperature and prevent objects in the room from freezing.
	Ø	To scare away a mosquito.
	*	To remove moisture generated inside the indoor unit.
	⊠ 5L	To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

- * buttons may be changed according to the type of model.
- When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
 Some functions may not be supported, depending on the model.
 Press the Set/Cancel button to operate the selected Func.

P/No	Applied Model
AKB75215401	VS242C7.NK0 (S4NQ24K23WE.EC2GCOL)

13. Remote Controller



1 Button	2 Display Screen	Description
Ф	-	To turn on/off the air conditioner.
	88°»	To adjust the desired room temperature in cooling, heating or auto changeover mode.
	*	To select the cooling mode.
	Ď.	To select the heating mode.
Mode	٥	To select the dehumidification mode.
	务	To select the fan mode.
	(A)	To select the auto changeover/auto operation mode.
Jet Mode	Ро	To change room temperature quickly.
Fan Speed	▋	To adjust the fan speed.
(M) (M)	30 点	To adjust the air flow direction vertically or horizontally.

1 Button	2 Display Screen	Description
(©) Timer	S ON OFF	To turn on/off air conditioner automatically at desired time.
Set/ Cancel	-	To set/cancel the special functions and timer.
Centel	-	To cancel the timer settings.
~~		To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)	Û	To display the room temperature.
*Energy Saving	ė	To minimize power consumption.
*Comfort Air	<u>-</u> J-J	To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.	3188 ×	To bring the effect of the power saving.
*Comfort Sleep	☆	To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify	4	The Ion generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)	<u>-</u>	To keep the fan clean.
	%	To reduce noise from outdoor units.
	*\$	To keep your skin moisturized by generating ion clusters.
	®₽o	To lower indoor humidity quickly.
Func.	■LH	To maintain a minimum room temperature and prevent objects in the room from freezing.
	Ø	To scare away a mosquito.
	÷	To remove moisture generated inside the indoor unit.
	⊠ SL	To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

- * buttons may be changed according to the type of model.
- When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
 Some functions may not be supported, depending on the model.
 Press the Set/Cancel button to operate the selected Func.

P/No	Applied Model
AKB75215401	VS182C7.NK0 (S4NQ18KL3WE.EC2GCOL)



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.

M WARNING

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 R410A refrigerant. Do not use R22 products, which have lower
 pressure ratings and can result in excessive pressure, explosion and injury.

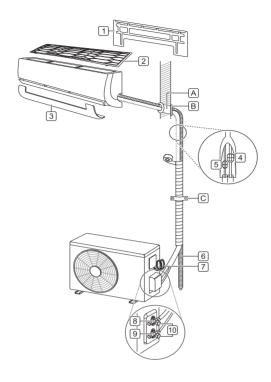
A CAUTION

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.



14.2 Product Overview



Parts

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

Local Purchases

It is highly recommended that you install the following parts.

Α	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.

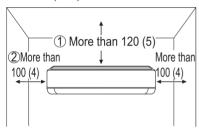


14.3 Installation Place

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 ① 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 m (6.5 ft.) 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)





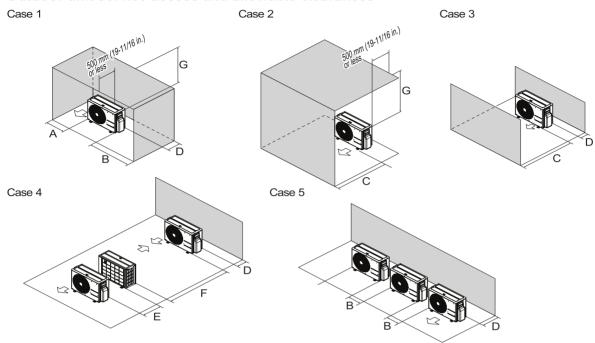
Outdoor Unit

- 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



Unit : mm		Α	В	С	D	E	F	G
Case1	Normal	300	600	-	300	-	-	-
Case	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	-
Casos	Normal	-	600	-	300	-	-	-
Case5	Minimum	-	250	-	100	-	-	-

Unit : inch		А	В	С	D	E	F	G
Case1	Normal	11-13/16	23-19/32	-	11-13/16	-	-	-
Case	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	-	-	-
Cases	Minimum	-	-	13-25/32	3-15/16	-	-	-
Case4	Normal	-	-	-	11-13/16	23-19/32	-	-
Case4	Minimum	-	-	-	3-15/16	7-7/8	78-3/4	-
CasaF	Normal	-	23-19/32	-	11-13/16	-	-	-
Case5	Minimum	-	9-27/32	-	3-15/16	-	-	-

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:

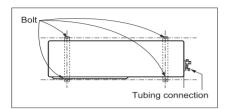
- Prepare for severe winter wind chills and heavy snowfall, even in areas of the country where these are unusual phenomena.
- Position the outdoor unit so that its airflow fans are not buried by direct, heavy snowfall. If snow piles up and blocks the airflow, the system may malfunction.
- · Remove any 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.)

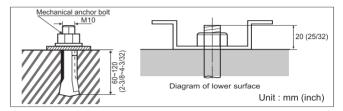


14.4 Installing the Outdoor Unit

Fixing the Outdoor Unit with Bolt Construction Work

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



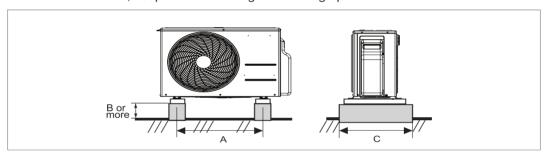


Note

- 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
VS092C7.UJ0	UA3	463	100	280	SGCC	1
VS242C7.UK0	U24A	586	100	400	SGCC	1
VS182C7.UK0	UL2	558	100	370	SGCC	1.2

Unit : inch			Foundation	Leg		
Model	Tool	Α	В	С	Material	Thickness
VS092C7.UJ0	UA3	18-7/32	3-15/16	11-1/32	SGCC	1/32
VS242C7.UK0	U24A	23-1/16	3-15/16	15-3/4	SGCC	1/32
VS182C7.UK0	UL2	21-31/32	3-15/16	14-9/16	SGCC	1/16

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.



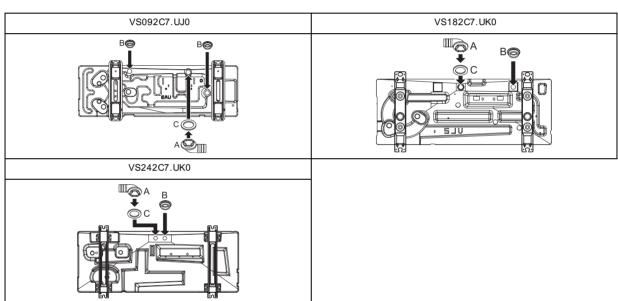




C: Drain Washer

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.

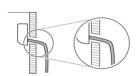




14.5 Checking the Drainage

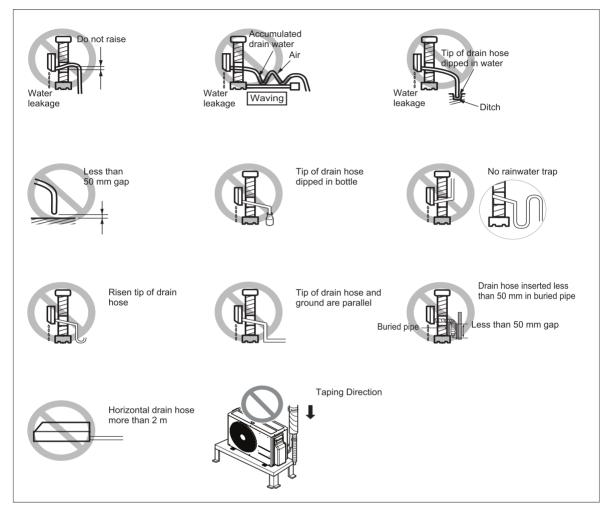
1. Remove the filter.Pull the filter up and out towards you.Do not touch the metal part of the appliance when removing the filter.	
2. Pour a cup of water into the back of the evaporator.	
3. Check the drainage condition.	
 Check whether there is any leakage from either the drain hose joint or the extended 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. 	00
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.	Total
3	Release (A) button. Then, a display of remote controller change to "00".	00
4	You can set a code by pressing the "TEMP" button.	TEMP 10 digits TEMP 1 digit
5	Press "ON/OFF" button to set a code to the appliance. Check buzzer beep.	ON/OFF O O O
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

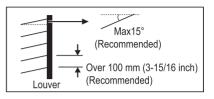
CAUTION

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

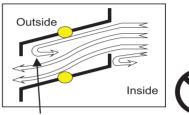
Note

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.

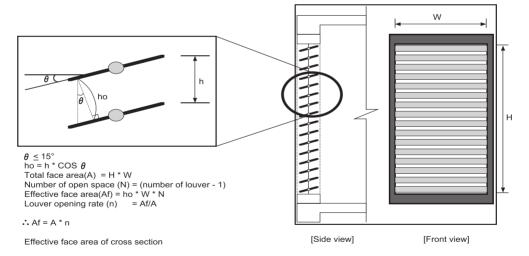


Section



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 Pressure	
Model		СММ	CFM	N/m²	inWG
VS092C7.UJ0	UA3	27	954	7.0760	0.0284
VS242C7.UK0	U24A	49	1730	7.0760	0.0284
VS182C7.UK0	UL2	38	1342	10.8796	0.0437



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The air conditioners manufactured by LG have received ISO9001 certificate for quality assurance and ISO14001 certificate for environmental management system. The specifications, designs, and information in this brochure are subject to change without notice.