Submittal

Job: 1606 Mixed Use York St HVAC York Street Mixed Use 101 York Street Portland, ME 04101 Spec Section Title:		Spec Section No: Submittal No: Revision No: Sent Date: Due Date:	1 0
Submittal Title:	Heat Pumps		
Contractor: Ranor Mechanical Aaron St. Pierre		Contractor's Stamp	
General Contractor: Opechee Construction		Architect's Stamp	
		Engineer's Stamp	



Submittal Information Form

		Specifications Dated: 50HE 07, 2016
		Drawings Dated (if applicable): 05 (77 / 7016
1 F	Project:	YORK ST MIYES USE DEVELOPMENT
2 5	Specification Title:	15-05 HUAC SCOPE OF WORK
3	Description:	MULTIPEE IVI HEAT PURP STITEMS
4	Section:	
5	Page/Sheet #:	
6	Article/Paragraph:	
7	Basis of Design:	Yes No (if no please fill out 8-12)
8	Proposed Substitution:	NA
9	Manufacturer:	SAMSUMG
10	Trade Name:	SAMSUMG
11	Model #:	VAMES
12	Please list SPECIFICALLY	the deviations from the basis of design:
13	Equipment Lead Time (after approved submittals)	4 WOEKS

AirCon Inc.

PO Box 615 Windham, ME 04062 207-504-1194 Ph

SUBMITTAL COVER SHEET

TO

RANOR INC

AirCon Inc. Contact

Todd M. Flaherty hvac@airconsales.net

JOB NAME

YORK ST MIXED USE DEVELOPMENT

DATE

07/08/2016

SPECIFICATION SECTION

15.05 HVAC SCOPE OF WORK

SUBMITTAL CONTENTS (FOR APPROVAL)

SIXTY THREE (63)-SAMSUNG SPLIT HEATPUMPS TWO (2)- SAMSUNG DUCTLESS SPLIT SYSTEMS

SAMSUNG 1.5 TON SYSTEMS

SAMSUNG INDOOR UNIT MODEL NUMBER: AC018KNZDCH/AA

SAMSUNG OUTDOOR UNIT MODEL NUMBER: AC018JXADCH/AA

TAGS: AH-A1, AH-A2, AH-A3, AH-4

TOTAL QUANTITY = 16

Samsung Multi-position Air Handler, Single Zone, Split System

Job Name	Location			
Purchaser	Engineer			
Submitted to	Reference	Approval	Construction	
Unit Designation	Schedule #			

		Specifications	
	Indoor Unit Model Nur	•	AC018KNZDCH/AA
Model	Outdoor Unit Model N		AC018JXADCH/AA
	Nominal Capacity 1	Cooling / Heating (Btu/h)	18,000 / 20,000
		Cooling (Btu/h)	5,000 - 21,000
Performance	Capacity Range	Heating (Btu/h)	4,400 - 24,000
	SEER / EER	,	20.1 / 11.25
	COP (nominal heating	1)	2.92
	HSPF		10.0
	AHRI Certification Nur		8950555
	Condensate (pints/hor	ur)	4.44
	Voltage	ø / V / Hz	1 / 208-230 / 60
Power	Working Voltage Rang	ge (VAC)	176 - 254 (max. 3% deviation from each
without optional	Operating Current	Cooling (A)	2.4 / 7.1 / 9.6
neat kits)	(min. / std. / max.)	Heating (A)	2.2 / 8.7 / 10.0
iout into)	Max. Breaker	Amps	15
	Min. Circuit Ampacity	(A)	9.4
	WXHXD	Indoor Unit	17 1/2 X 43 X 21
Dimensions	(inches)	Outdoor Unit	34 5/8 X 25 1/8 X 12 1/4
	Weight	Indoor Unit	98.1
	(lbs.)	Outdoor Unit	99.2
Sound Pressure	Indoor Unit dB(A)	L/M/H	32 / 35 / 38
_evel	Outdoor Unit dB(A)	Cooling / Heating (high)	48 / 48
			23 ≤ T ≤ 115
	Outdoor	Cooling	0 ≤ T ≤ 115 W/Baffle
Operating		Heating	-4 ≤ T ≤ 76
Temperatures (°F)		Cooling	61 ≤ T ≤ 90
	Indoor	Heating	T ≤ 80
		High side (flare)	1/4"
	Indoor & Outdoor	Low side (flare)	1/2"
Pipe Connections	Maximum (ft.)	Low side (hare)	98
ipe Connections	Maximum Vertical Ser	paration (ft.)	66
	Condensate Connecti	. ,	3/4" FNPT
	Factory Charge	oz.	45.86
Refrigerant	Charged for	02.	25 feet
terrigerant	Additional Refrigerant		0.11 oz./ft. over 25 feet
Compressor	Type RLA	Α	Inverter Driven, Twin BLDC Rotar
	KLA	A	6.1
	Туре		Double-inlet, forward curve,
			centrifugal (with ECM motor)
	Air Volume	CFM (L/M/H)	494 / 530 / 600 (at standard ESI
Evaporator Fan	HP	Total CFM Range 2	130 - 682
	Motor Amps	Α	1/3 0.72
	External Static	Standard	0.72
	Pressure ("WC)	Min. / Max.	0 / 0.8
		IVIIII. / IVIQA.	
Condenser Fan	Motor	ov)	BLDC With Axial Type Fan (1)
	FLA / Watts / CFM (m	dx.)	0.13 A / 39 W / 1,550 CFM
		Simplified	MWR-SH00N
	Wired Controller	Premium w/scheduling	MWR-WE10N
		Simplified Touch Controller	MWR-SH10N
	Wi-Fi Adapter	Na. 1 0: 15 :	MIM-H03UN
	Wireless Signal	Wireless Signal Receiver	MRK-A10N
	Control Temperature	Wireless Controller	MR-EH00U MRW-TA
	External Temperature External Contact Cont		
Optional		ce Module for Connection to	MIM-B14
Accessories	DVM Plus Controls (no		MIM-N01
10000001160	Filter Box (includes 1"	,	VFB-1
	Supplemental	3kW	VHK-103A
	Electric Heat Kits	5kW	VHK-105A
	Wall Bracket (for outd		CKN-250
	,	Front	WBMF-9/12/18
	Wind Baffles	Back	WBMB-9/12/18/36
	Line Sets - insulated and flared, interconnect		25' - ILS2507
	cables included		50' - ILS5007
			50' - ILS5007 ETL, ETLc





General Information

- Auto-restart after power loss
- The outdoor unit shall have a snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- The indoor and outdoor units shall have a removable EEPROM that stores system programming information, unit name, and other data
- All indoor unit addressing and option settings shall be done digitally; the indoor unit does not contain rotary dials or setting switches.
- The outdoor unit shall have a night time quiet mode option to reduce operating sound during the night
- The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire when optional heat kits are not installed. If VHK-***A supplemental heat kits are installed, power to the heat kits must be provided from a dedicated circuit with proper overcurrent protection per NEC (refer to VHK-***A supporting documents for heat kit electrical data).

Construction

The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability

The indoor unit shall be constructed of insulated, powder coated, galvanized steel

Indoor Fan

The indoor fan is a double-inlet, forward curve, centrifugal type with a single constant-torque (ECM) fan motor $\,$

The indoor unit shall have low, medium, high, and auto fan speed setting options.

The evaporator fan motor shall have five speed taps

Heat Exchanger

The indoor unit heat exchanger shall be mechanically bonded aluminum fin to copper tube

The outdoor unit heat exchanger shall be aluminum, flat fin, micro channel

Controls

Control signal shall be a DDC type signal

Interconnect control wire between outdoor indoor unit shall be 16AWG X 2 shielded

Controls must be purchased separately

Connection to optional wired controllers shall be 2 X 16AWG shielded wire

Controls shall integrate with a BMS system

No additional interface modules/adapters are required when connecting to Samsung NASA DVM S central control.

Refrigerant System

The refrigerant type shall be R410A

The compressor shall be hermetically sealed, inverter controlled, twin BLDC Rotary made by Samsung

Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

Soft-start to reduce current demand during compressor start

Warranty

10 Years compressor, 10 years parts, 1 year limited labor when registered (conditions apply)

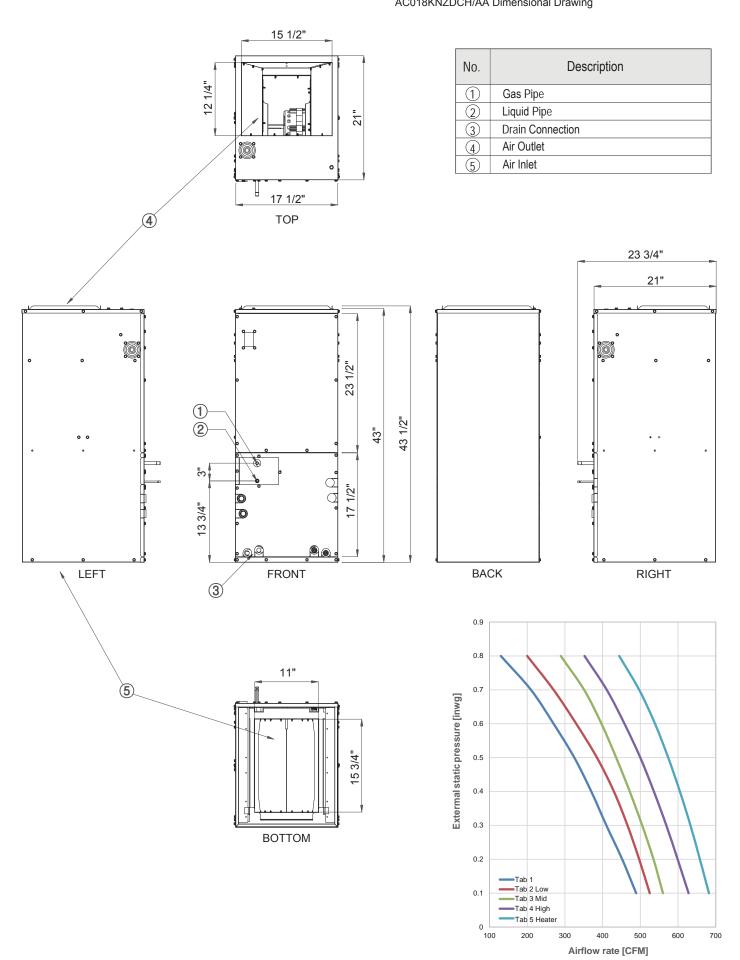
Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB. Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.



SUBMITTAL AC018KNZDCH/AA

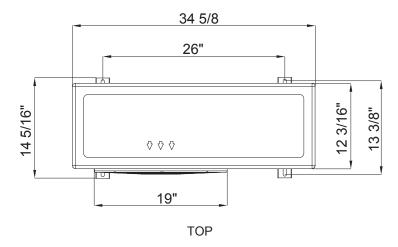
SAMSUNG

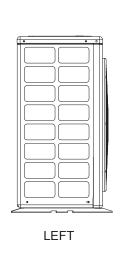
Samsung Multi-position Air Handler, Single Zone, Split System AC018KNZDCH/AA Dimensional Drawing

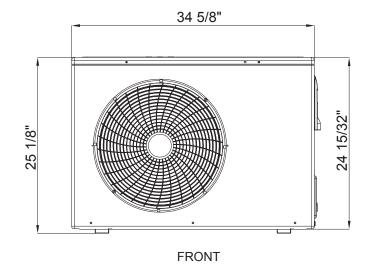


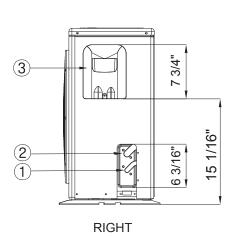
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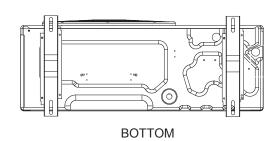
Samsung Multi-position Air Handler, Single Zone, Split System AC018JXADCH/AA Dimensional Drawing











No.	Description
1	Suction service valve
2	Liquid service valve
3	Power and communication conduit openings

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SAMSUNG 2.0 TON SYSTEMS

SAMSUNG INDOOR UNIT MODEL NUMBER: AC024KNZDCH/AA

SAMSUNG OUTDOOR UNIT MODEL NUMBER: AC024JXADCH/AA

<u>TAGS:</u> AH-B1,B2,B3,B5

TOTAL QUANTITY = 40

Samsung Multi-position Air Handler, Single Zone, Split System

Job Name	Location _			
Purchaser	Engineer			
Submitted to	Reference	Approval	Construction	
Unit Designation	Schedule #			

Unit Designa	-		
		Specifications	
Model	Indoor Unit Model Nur		AC024KNZDCH/AA
	Outdoor Unit Model No		AC024JXADCH/AA
	Nominal Capacity 1	Cooling / Heating (Btu/h)	24,000 / 27,000
	Capacity Range	Cooling (Btu/h)	7,000 - 27,000
Performance	SEER / EER	Heating (Btu/h)	6,700 - 29,000
	COP (nominal heating)		19.5 / 11.00 10.23
	HSPF)	11.5
	AHRI Certification Nur	mber	8950560
	Condensate (pints/hou		6.13
	Voltage	ø / V / Hz	1 / 208-230 / 60
	Working Voltage Rang		176 - 254 (max. 3% deviation from each
Power	Operating Current	Cooling (A)	3.8 / 9.8 / 12.0
(without optional	(min. / std. / max.)	Heating (A)	3.6 / 11.6 / 12.8
neat kits)	Max. Breaker	Amps	20
	Min. Circuit Ampacity		13.58
	WXHXD	Indoor Unit	17 1/2 X 43 X 21
	(inches)	Outdoor Unit	37 X 39 11/16 X 13
Dimensions	Weight	Indoor Unit	98.1
	(lbs.)	Outdoor Unit	142.2
Sound Pressure	, ,		
Sound Pressure Level	Indoor Unit dB(A) Outdoor Unit dB(A)	L / M / H Cooling / Heating (high)	35 / 38 / 41 50 / 50
LC V C I	Outdoor Offit dB(A)	Cooming / Heating (high)	
	0.11	Cooling	23 ≤ T ≤ 115
Operating	Outdoor		0 ≤ T ≤ 115 W/Baffle
Temperatures (°F)		Heating	-4 ≤ T ≤ 76
	Indoor	Cooling	61 ≤ T ≤ 90 T ≤ 80
		Heating	
	Indoor & Outdoor	High side (flare)	1/4"
n. o		Low side (flare)	5/8"
Pipe Connections	Maximum (ft.)	(1)	164
	Maximum Vertical Separation (ft.) Condensate Connection		98 2/4" ENDT
		on	3/4" FNPT
	Factory Charge	OZ.	74.08
Refrigerant	Charged for		25 feet
	Additional Refrigerant		0.11 oz./ft. over 25 feet
Compressor	Туре		Inverter Driven, Twin BLDC Rotar
	RLA	A	9.0
	Туре		Double-inlet, forward curve,
	туре		centrifugal (with ECM motor)
	Air Volume	CFM (L/M/H)	547 / 636 / 760 (at standard ESI
Evaporator Fan		Total CFM Range 2	262 - 888
Evaporator ran	HP	T	1/3
	Motor Amps	A	0.72
	External Static	Standard	0.2
	Pressure ("WC)	Min. / Max.	0 / 0.8
Condenser Fan	Motor		BLDC With Axial Type Fan (1)
Condonidor i dir	FLA / Watts / CFM (ma	ax.)	0.48 A / 125 W / 2,190 CFM
		Simplified	MWR-SH00N
			MWR-WE10N
	Wired Controller	Premium w/scheduling	
	Wired Controller	Premium w/scheduling Simplified Touch Controller	MWR-SH10N
	Wired Controller Wi-Fi Adapter	-	MWR-SH10N MIM-H03UN
		Simplified Touch Controller Wireless Signal Receiver	
	Wi-Fi Adapter Wireless Signal Control	Simplified Touch Controller Wireless Signal Receiver Wireless Controller	MIM-H03UN MRK-A10N MR-EH00U
	Wi-Fi Adapter Wireless Signal Control External Temperature	Simplified Touch Controller Wireless Signal Receiver Wireless Controller Sensor	MIM-H03UN MRK-A10N MR-EH00U MRW-TA
Outions!	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Cont	Simplified Touch Controller Wireless Signal Receiver Wireless Controller Sensor rol	MIM-H03UN MRK-A10N MR-EH00U
•	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Cont Central Control Interfac	Simplified Touch Controller Wireless Signal Receiver Wireless Controller Sensor rol the Module for Connection to	MIM-H03UN MRK-A10N MR-EH00U MRW-TA
•	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Cont Central Control Interfac DVM Plus Controls (no	Simplified Touch Controller Wireless Signal Receiver Wireless Controller Sensor rol the Module for Connection to n-NASA)	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14 MIM-N01
•	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Cont Central Control Interfac DVM Plus Controls (no Filter Box (includes 1"	Simplified Touch Controller Wireless Signal Receiver Wireless Controller Sensor rol se Module for Connection to n-NASA) MERV 8 filter)	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14 MIM-N01 VFB-1
•	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Cont Central Control Interfac DVM Plus Controls (no Filter Box (includes 1" Supplemental	Simplified Touch Controller Wireless Signal Receiver Wireless Controller Sensor rol se Module for Connection to n-NASA) MERV 8 filter) 3kW	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14 MIM-N01 VFB-1 VHK-103A
•	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Cont Central Control Interfac DVM Plus Controls (no Filter Box (includes 1" Supplemental Electric Heat Kits	Simplified Touch Controller Wireless Signal Receiver Wireless Controller Sensor rol ee Module for Connection to n-NASA) MERV 8 filter) 3kW 5kW	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14 MIM-N01 VFB-1 VHK-103A VHK-105A
•	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Cont Central Control Interfac DVM Plus Controls (no Filter Box (includes 1" Supplemental Electric Heat Kits Wall Bracket (for outde	Simplified Touch Controller Wireless Signal Receiver Wireless Controller Sensor rol ee Module for Connection to n-NASA) MERV 8 filter) 3kW 5kW poor unit)	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14 MIM-N01 VFB-1 VHK-103A VHK-105A CKN-250
Optional Accessories	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Cont Central Control Interfac DVM Plus Controls (no Filter Box (includes 1" Supplemental Electric Heat Kits	Simplified Touch Controller Wireless Signal Receiver Wireless Controller Sensor rol the Module for Connection to n-NASA) MERV 8 filter) 3kW 5kW Dor unit) Front	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14 MIM-N01 VFB-1 VHK-103A VHK-105A CKN-250 WBF-1
•	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Cont Central Control Interfac DVM Plus Controls (no Filter Box (includes 1" Supplemental Electric Heat Kits Wall Bracket (for outde	Simplified Touch Controller Wireless Signal Receiver Wireless Controller Sensor rol the Module for Connection to n-NASA) MERV 8 filter) 3kW 55kW 50or unit) Front Back	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14 MIM-N01 VFB-1 VHK-103A VHK-105A CKN-250 WBF-1 WBB-3
•	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Cont Central Control Interfac DVM Plus Controls (no Filter Box (includes 1" Supplemental Electric Heat Kits Wall Bracket (for outde	Simplified Touch Controller Wireless Signal Receiver Wireless Controller Sensor rol the Module for Connection to n-NASA) MERV 8 filter) 3kW 5kW Dor unit) Front	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14 MIM-N01 VFB-1 VHK-103A VHK-105A CKN-250 WBF-1 WBB-3 25' - ILS2509
•	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Cont Central Control Interfac DVM Plus Controls (no Filter Box (includes 1" Supplemental Electric Heat Kits Wall Bracket (for outded Wind Baffles Line Sets - insulated a	Simplified Touch Controller Wireless Signal Receiver Wireless Controller Sensor rol the Module for Connection to n-NASA) MERV 8 filter) 3kW 55kW 50or unit) Front Back	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14 MIM-N01 VFB-1 VHK-103A VHK-105A CKN-250 WBF-1 WBB-3





General Information

- · Auto-restart after power loss
- The outdoor unit shall have a snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- The indoor and outdoor units shall have a removable EEPROM that stores system programming information, unit name, and other data
- All indoor unit addressing and option settings shall be done digitally; the indoor unit does not contain rotary dials or setting switches.
- The outdoor unit shall have a night time quiet mode option to reduce operating sound during the night (automatic or manual activation with dry contact signal).
- The pipe connections at the outdoor unit shall be internal allowing pipes to inter the chassis through the front, right side, bottom, or back.
- The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire when optional heat kits are not installed. If VHK-***A supplemental heat kits are installed, power to the heat kits must be provided from a dedicated circuit with proper overcurrent protection per NEC (refer to VHK-***A supporting documents for heat kit electrical data).

Construction

The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability

The indoor unit shall be constructed of insulated, powder coated, galvanized steel

Indoor Fan

The indoor fan is a double-inlet, forward curve, centrifugal type with a single constant-torque (ECM) fan motor $\,$

The indoor unit shall have low, medium, high, and auto fan speed setting options.

The evaporator fan motor shall have five speed taps

Heat Exchanger

The indoor unit heat exchanger shall be mechanically bonded aluminum fin to copper tube

The outdoor unit heat exchanger shall be aluminum, flat fin, micro channel

Controls

Control signal shall be a DDC type signal

Interconnect control wire between outdoor indoor unit shall be 16AWG X 2 shielded

Controls must be purchased separately

Connection to optional wired controllers shall be 2 X 16AWG shielded wire

Controls shall integrate with a BMS system

No additional interface modules/adapters are required when connecting to Samsung NASA DVM S central control.

Refrigerant System

The refrigerant type shall be R410A

The compressor shall be hermetically sealed, inverter controlled, twin BLDC Rotary made by Samsung

Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

Soft-start to reduce current demand during compressor start

Warranty

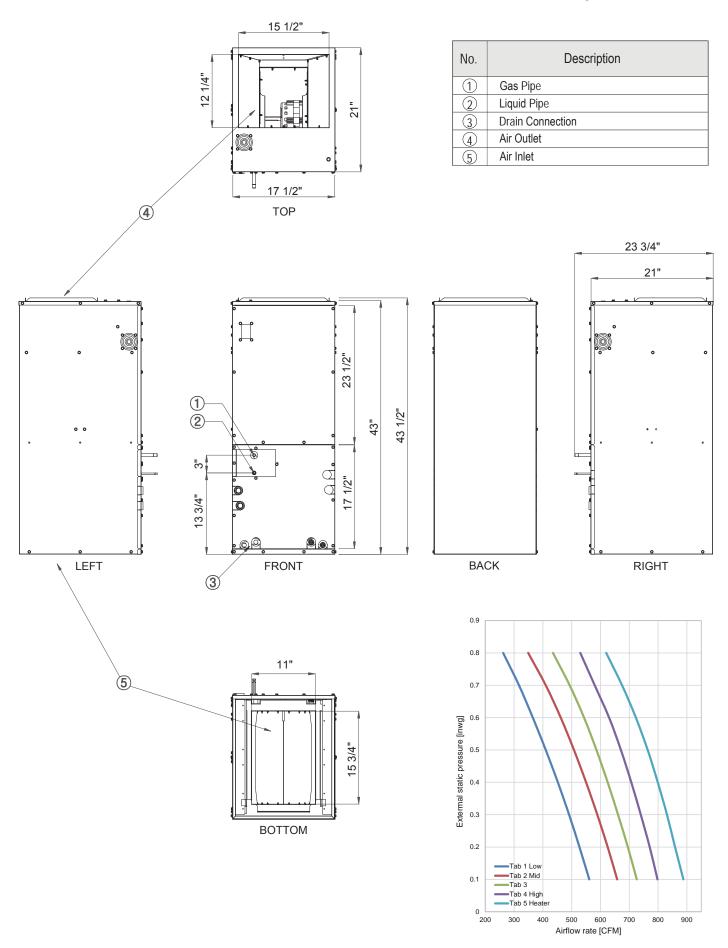
10 Years compressor, 10 years parts, 1 year limited labor when registered (conditions apply)

Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB. Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.



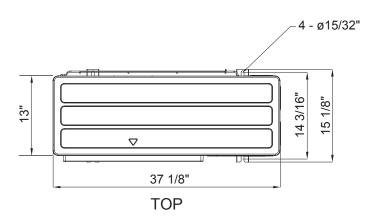
SAMSUNG

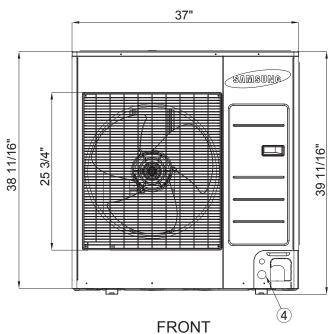
Samsung Multi-position Air Handler, Single Zone, Split System AC024KNZDCH/AA Dimensional Drawing

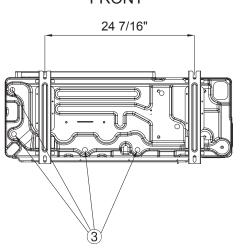


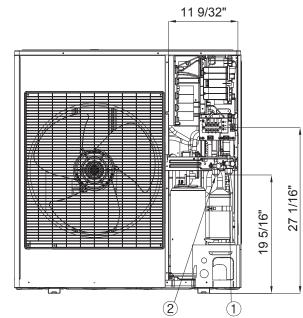
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Samsung Multi-position Air Handler, Single Zone, Split System AC024JXADCH/AA Dimensional Drawing









FRONT WITHOUT SERVICE COVER

Ν	0.	Description
Γ.	1	Suction service valve
	2	Liquid service valve
(3	Drainage hole
	4	Power and communication conduit openings

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SAMSUNG 2.5 TON SYSTEMS

SAMSUNG INDOOR UNIT MODEL NUMBER: AC030KNZDCH/AA

SAMSUNG OUTDOOR UNIT MODEL NUMBER: AC030JXADCH/AA

TAGS: AH-B4,AH-C1

TOTAL QUANTITY = 7

Samsung Multi-position Air Handler, Single Zone, Split System

Job Name	Location			
Purchaser	Engineer			
Submitted to	Reference	Approval	Construction	
Unit Designation	Schedule #			

		Specifications	
	Indoor Unit Model Nu		AC030KNZDCH/AA
Model	Outdoor Unit Model N		AC030JXADCH/AA
	Nominal Capacity 1	Cooling / Heating (Btu/h)	30,000 / 32,000
		Cooling (Btu/h)	10,000 - 33,000
	Capacity Range	Heating (Btu/h)	9,000 - 36,000
- ·	SEER / EER	j. 15 a.m. 19 (= 1 a.m. 1)	19.6 / 10.5
Performance	COP (nominal heating)		11.35
	HSPF		10.4
	AHRI Certification Nu		8950561
	Condensate (pints/hor	ur)	6.76
	Voltage	ø / V / Hz	1 / 208-230 / 60
Power	Working Voltage Rang	ge (VAC)	176 - 254 (max. 3% deviation from each
(without optional	Operating Current	Cooling (A)	4.5 / 13.0 / 17.2
neat kits)	(min. / std. / max.)	Heating (A)	4.1 / 12.3 / 20.2
iout kitoj	Max. Breaker	Amps	35
	Min. Circuit Ampacity	(A)	21.7
	WXHXD	Indoor Unit	21 X 48 X 21
Dimensions	(inches)	Outdoor Unit	37 X 39 11/16 X 13
	Weight	Indoor Unit	123.5
	(lbs.)	Outdoor Unit	154.8
Sound Pressure	Indoor Unit dB(A)	L/M/H	35 / 38 / 41
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	50 / 52
			23 ≤ T ≤ 115
o "	Outdoor	Cooling	0 ≤ T ≤ 115 W/Baffle
Operating		Heating	-4 ≤ T ≤ 76
Temperatures (°F)		Cooling	61 ≤ T ≤ 90
	Indoor	Heating	T ≤ 80
		High side (flare)	3/8"
	Indoor & Outdoor	Low side (flare)	5/8"
Pipe Connections	Maximum (ft.)	2011 0.00 (110.10)	164
	Maximum Vertical Ser	paration (ft.)	98
	Condensate Connecti	ion	3/4" FNPT
	Factory Charge	oz.	91.71
Refrigerant	Charged for	OZ.	25 feet
. togo.at	Additional Refrigerant	1	0.24 oz./ft. over 25 feet
	Туре		Inverter Driven, Twin BLDC Rotar
Compressor	RLA	Α	15.1
	INEA	IA.	-
	Туре		Double-inlet, forward curve,
		CFM (L/M/H)	centrifugal (with ECM motor) 848 / 918 / 1,007 (at standard ES
	Air Volume	Total CFM Range ²	419 - 1,314
Evaporator Fan	HP	Total Crivi Range	1/2
	Motor Amps	A	1.66
	External Static	Standard	0.24
	Pressure ("WC)	Min. / Max.	0 / 1.0
	Motor		BLDC With Axial Type Fan (1)
Condenser Fan	FLA / Watts / CFM (m	lax)	0.48 A / 125 W / 2,200 CFM
	1217 1141107 01 111 (111	,	,
	Mina d Cantasllan	Simplified	MWR-SH00N
	Wired Controller	Premium w/scheduling	MWR-WE10N
	Wi-Fi Adapter	Simplified Touch Controller	MWR-SH10N MIM-H03UN
	Wireless Signal	Wireless Signal Receiver	MRK-A10N
	Wil Cicoo Olgilai		MR-EH00U
	Control	Wireless Controller	
	Control External Temperature	Wireless Controller Sensor	I IVIRVV-I A
	Control External Temperature External Contact Contact	Sensor	MRW-TA MIM-B14
Optional	External Temperature External Contact Cont	Sensor	MIM-B14
•	External Temperature External Contact Cont	Sensor trol ce Module for Connection to	
•	External Temperature External Contact Contact Control Control Interface	Sensor trol ce Module for Connection to on-NASA)	MIM-B14
•	External Temperature External Contact Cont Central Control Interfact DVM Plus Controls (no Filter Box (includes 1" Supplemental	Sensor trol ce Module for Connection to on-NASA)	MIM-B14 MIM-N01
•	External Temperature External Contact Cont Central Control Interfat DVM Plus Controls (no Filter Box (includes 1" Supplemental Electric Heat Kits	Sensor trol ce Module for Connection to on-NASA) 'MERV 8 filter) 5kW 10kW	MIM-B14 MIM-N01 VFB-2
•	External Temperature External Contact Cont Central Control Interfact DVM Plus Controls (no Filter Box (includes 1" Supplemental	Sensor trol ce Module for Connection to on-NASA) 'MERV 8 filter) SkW 10kW loor unit)	MIM-B14 MIM-N01 VFB-2 VHK-205A VHK-210A CKN-250
•	External Temperature External Contact Cont Central Control Interfact DVM Plus Controls (not Filter Box (includes 1" Supplemental Electric Heat Kits Wall Bracket (for outd	Sensor trol ce Module for Connection to on-NASA) ' MERV 8 filter) 5kW 10kW oor unit) Front	MIM-B14 MIM-N01 VFB-2 VHK-205A VHK-210A CKN-250 WBF-1
Optional Accessories	External Temperature External Contact Cont Central Control Interfact DVM Plus Controls (no Filter Box (includes 1" Supplemental Electric Heat Kits Wall Bracket (for outd Wind Baffles	Sensor trol ce Module for Connection to on-NASA) MERV 8 filter) 5kW 10kW oor unit) Front Back	MIM-B14 MIM-N01 VFB-2 VHK-205A VHK-210A CKN-250 WBF-1 WBB-3
•	External Temperature External Contact Cont Central Control Interfact DVM Plus Controls (no Filter Box (includes 1" Supplemental Electric Heat Kits Wall Bracket (for outd Wind Baffles Line Sets - insulated a	Sensor trol ce Module for Connection to on-NASA) ' MERV 8 filter) 5kW 10kW oor unit) Front	MIM-B14 MIM-N01 VFB-2 VHK-205A VHK-210A CKN-250 WBF-1 WBB-3 25' - ILS2510
•	External Temperature External Contact Cont Central Control Interfact DVM Plus Controls (no Filter Box (includes 1" Supplemental Electric Heat Kits Wall Bracket (for outd Wind Baffles	Sensor trol ce Module for Connection to on-NASA) MERV 8 filter) 5kW 10kW oor unit) Front Back	MIM-B14 MIM-N01 VFB-2 VHK-205A VHK-210A CKN-250 WBF-1 WBB-3





General Information

- · Auto-restart after power loss
- The outdoor unit shall have a snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- The indoor and outdoor units shall have a removable EEPROM that stores system programming information, unit name, and other data
- All indoor unit addressing and option settings shall be done digitally; the indoor unit does not contain rotary dials or setting switches.
- The outdoor unit shall have a night time quiet mode option to reduce operating sound during the night (automatic or manual activation with dry contact signal).
- The pipe connections at the outdoor unit shall be internal allowing pipes to inter the chassis through the front, right side, bottom, or back.
- The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire when optional heat kits are not installed. If VHK-***A supplemental heat kits are installed, power to the heat kits must be provided from a dedicated circuit with proper overcurrent protection per NEC (refer to VHK-***A supporting documents for heat kit electrical data).

Construction

The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability

The indoor unit shall be constructed of insulated, powder coated, galvanized steel

Indoor Fan

The indoor fan is a double-inlet, forward curve, centrifugal type with a single constant-torque (ECM) fan motor $\,$

The indoor unit shall have low, medium, high, and auto fan speed setting options.

The evaporator fan motor shall have five speed taps

Heat Exchanger

The indoor unit heat exchanger shall be mechanically bonded aluminum fin to copper tube

The outdoor unit heat exchanger shall be aluminum, flat fin, micro channel

Controls

Control signal shall be a DDC type signal

Interconnect control wire between outdoor indoor unit shall be 16AWG X 2 shielded

Controls must be purchased separately

Connection to optional wired controllers shall be 2 X 16AWG shielded wire

Controls shall integrate with a BMS system

No additional interface modules/adapters are required when connecting to Samsung NASA DVM S central control.

Refrigerant System

The refrigerant type shall be R410A

The compressor shall be hermetically sealed, inverter controlled, twin BLDC Rotary made by Samsung $\,$

Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

Soft-start to reduce current demand during compressor start

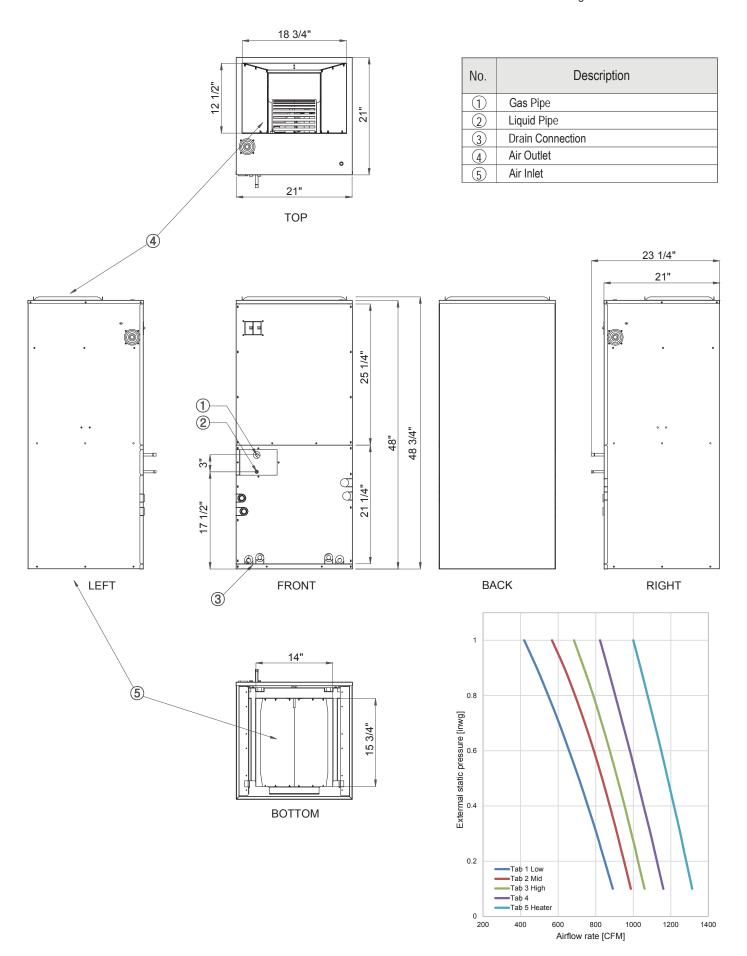
Warranty

10 Years compressor, 10 years parts, 1 year limited labor when registered (conditions apply)

Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB. Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.

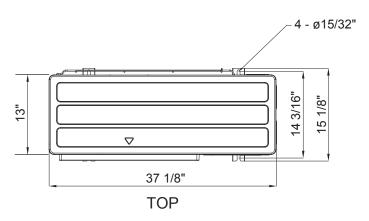


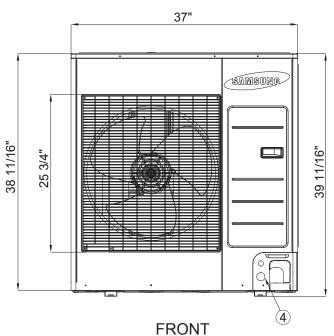
Samsung Multi-position Air Handler, Single Zone, Split System AC030KNZDCH/AA Dimensional Drawing

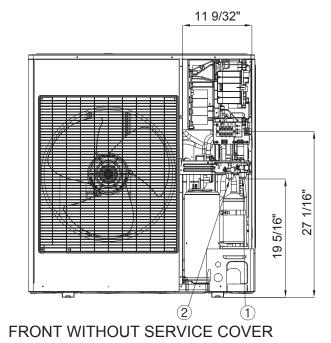


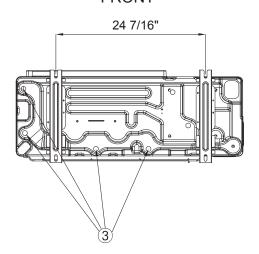
888-699-6067 www.SamsungHVAC.com

Samsung Multi-position Air Handler, Single Zone, Split System AC030JXADCH/AA Dimensional Drawing









No.	Description
1	Suction service valve
2	Liquid service valve
3	Drainage hole
4	Power and communication conduit openings

SAMSUNG MULTI-POSITION AIR HANDLER

ACCESSORIES

ELECTRIC HEAT

- MODEL # VHK-103A
- MODEL # VHK-105A

WIND BAFFLES

- FRONT BAFFLES
 - o WBMF-18
 - o WBF-1
- REAR BAFFLES
 - o WBMB-18
 - o WBB-3

PREMIUM WIRED CONTROLLERS

MODEL # MWR-WE10N

Wi-Fi ADAPTERS

MODEL MIM-H03UN

FILTER BASES

- VFB-1
- VFB-2

SAMSUNG

Samsung Wi-Fi Adapter for DVM S and CAC Systems

Job Name	Location			
Purchaser	Engineer			
Submitted to	Reference	Approval	Construction	
Unit Designation	Schedule #			

Specifications

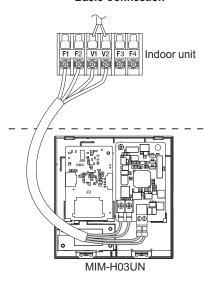
- Wi-Fi adapter to allow remote control of Samsung DVM S indoor units (AM****N***/AA), single zone 4-way cassette systems (AC0**JN4DCH/AA) and sing zone duct systems (AC0**JNHDCH/AA) from a mobile device (Android or iOS)
- Single system connection with up to 16 indoor units.
- Control and monitoring will be done via Samsung Smart Home app available on Google Play or iTunes app stores
- Control/monitor indoor unit: power status, mode, set temperature, room temperature, fan speed, and supply air louver position.
- 7 Day scheduling for a single unit or multiple indoor units.
- Basic daily, weekly, and monthly energy consumption checking¹
- Group configuration option for simple control of multiple units at the same time

Connection

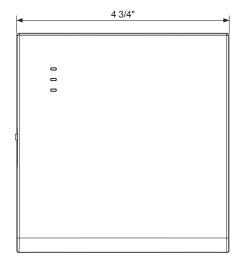
- 4 wire connection to an indoor unit (F1/F2, V1/V2)
- 12VDC
- Can be used with other Samsung central control options.
- Requires a local Wi-Fi router with DHCP enabled and an internet connection.
- Mobile device must be on the local network for initial Wi-Fi adapter configuration and connection.
- ¹ Energy consumption data is for general reference only and should not be used for billing purposes. Data provided will not necessarily match your utility bill.

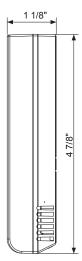


Basic Connection



Dimensions





Samsung and Quietside maintains a policy of ongoing development, specifications are subject to change without notice.





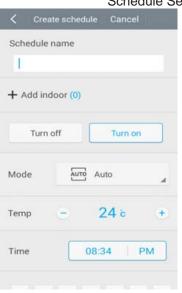
Samsung Wi-Fi Adapter or DVM S and CAC Systems - Screen Examples

Group Setting Example





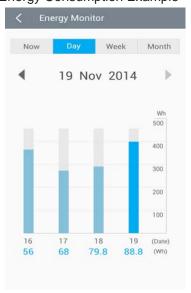
Schedule Setting Example





Energy Consumption Example







NOTE: Temperature display can be set to Fahrenheit or Celsius.

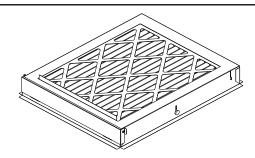
www.SamsungDVM-S.com

Filter Base For Samsung Multi-position Air Handlers

Job Name	Location			
Purchaser	Engineer			
Submitted to	Reference	Approval	Construction	
Unit Designation	Schedule #			

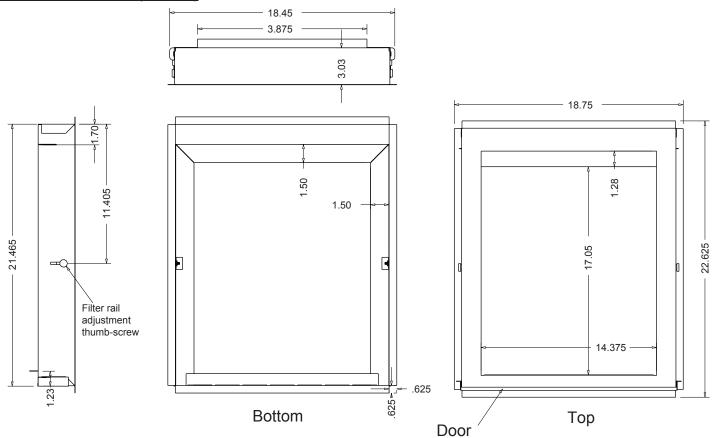
Description

- Filter base for Samsung multi-position air handlers (AM0**GNVQCH, AM0**JNZDCH/AA, AC0**KNZDCH/AA)
- For use in vertical installation applications
- Includes 1", disposable, pleated filter
- Adjustable filter rails to accept 1" or 2" filters
- Hinged filter access door
- Galvanized steel construction



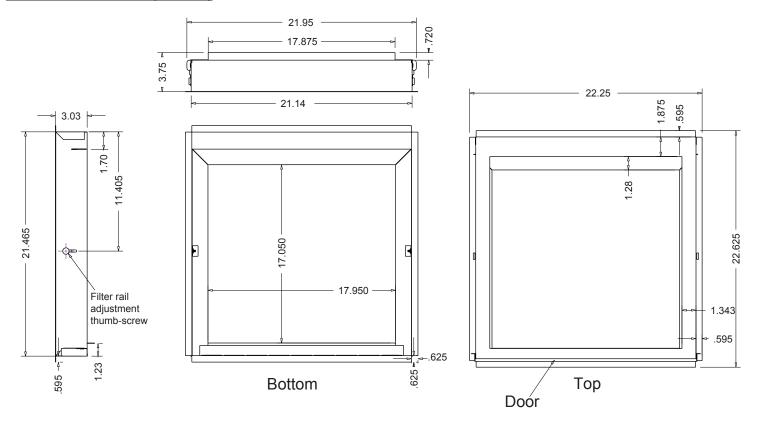
Model Number	Indoor Unit Nominal Capacity	Compatible Indoor Units	Filter Sizes (inches)
	12,000 btu/h	AM012JNZDCH/AA, AM012GNVQCH	40 7 00 7 4
VFB-1	18,000 btu/h	AM018JNZDCH/AA, AM018GNVQCH, AC018KNZDCH/AA	16 X 20 X 1 16 X 20 X 2
	24,000 btu/h	AM024JNZDCH/AA, AM024GNVQCH, AC024KNZDCH/AA	10 / 20 / 2
VFB-2	30,000 btu/h	AM030JNZDCH/AA, AM030GNVQCH, AC030KNZDCH/AA	22 7 22 7 4
VFD-Z	36,000 btu/h	AM036JNZDCH/AA, AM036GNVQCH, AC036KNZDCH/AA	20 X 20 X 1 20 X 20 X 2
	42,000 btu/h	AC042KNZDCH/AA	20 / 20 / 2
	48,000 btu/h	AM048JNZDCH/AA, AM048GNVQCH, AC048KNZDCH/AA	
VFB-3	54,000 btu/h	AM054JNZDCH/AA, AM054GNVQCH, AC054KNZDCH/AA	20 X 24 X 1
	60,000 btu/h	AM060JNZDCH/AA, AM060GNVQCH	20 X 24 X 2
	72,000 btu/h	AM072JNZDCH/AA, AM072GNVQCH	

VFB-1 Dimensions (inches)

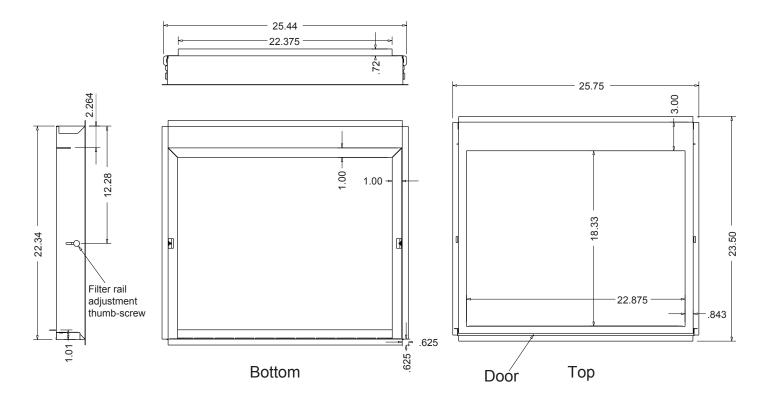


Samsung HVAC and Quietside maintains a policy of ongoing development, specifications are subject to change without notice.

VFB-2 Dimensions (inches)



VFB-3 Dimensions (inches)



www.SamsungHVAC.com 888-699-6067

Back Wind Baffle for Samsung Outdoor Units

Job Name	Location		
Purchaser	Engineer		
Submitted to	Reference	Approval	Construction
Unit Designation	Schedule #		

WBMB-9/12/18/36

WBMB-24

Unit Compatibility

Model number	Description	WBMB-9/12/18/36	WBMB-24
AR09JSFDHWKX	9,000 Btu/h, "Pearl", outdoor unit	X	
AR12JSFDHWKX	12,000 Btu/h, "Pearl", outdoor unit	X	
AR09KSWDHWKX	9,000 Btu/h, "Smart Pearl", outdoor unit	X	
AR12KSWDHWKX	12,000 Btu/h, "Smart Pearl", outdoor unit	X	
AR09HSFSJWKX	9,000 Btu/h, "Whisper" outdoor unit	X	
AR12HSFSJWKX	12,000 Btu/h, "Whisper" outdoor unit	X	
AR18HSFSJWKX	18,000 Btu/h, "Whisper" outdoor unit	X	
AR24HSFSJWKX	24,000 Btu/h, "Whisper" outdoor unit		Х
AR09KSWSJWKX	9,000 Btu/h, "Smart Whisper" outdoor unit	X	
AR12KSWSJWKX	12,000 Btu/h, "Smart Whisper" outdoor unit	X	
AR18KSWSJWKX	18,000 Btu/h, "Smart Whisper" outdoor unit	X	
AR24KSWSJWKX	24,000 Btu/h, "Smart Whisper" outdoor unit		Х
AR09KSWSPWKX	9,000 Btu/h, "Smart Whisper - Max Heat" outdoor unit	X	
AR12KSWSPWKX	12,000 Btu/h, "Smart Whisper - Max Heat" outdoor unit	X	
AR09KSFPDWQX	9,000 Btu/h, "Quantum" outdoor unit	X	
AR12KSFPDWQX	12,000 Btu/h, "Quantum" outdoor unit	X	
AR18KSFPDWQX	18,000 Btu/h, "Quantum" outdoor unit	X	
AR24KSFPDWQX	24,000 Btu/h, "Quantum" outdoor unit	X	
AQX09VFUAGM	9,000 Btu/h, "Max" outdoor unit	X	
AQX12VFUAGM	12,000 Btu/h, "Max" outdoor unit	X	
AQX18VFUAGM	18,000 Btu/h, "Max" outdoor unit	X	
AQX24VFUAGM	24,000 Btu/h, "Max" outdoor unit		Х
AQX36VFUAGM	36,000 Btu/h, "Max" outdoor unit	X (requires 2)	
AC018JXADCH/AA	18,000 Btu/h, single zone, CAC outdoor unit	X	
AC009KXADCH/AA	9,000 Btu/h, single zone, CAC Slim Duct outdoor unit	X	
AC012KXADCH/AA	12,000 Btu/h, single zone, CAC Slim Duct outdoor unit	X	
AC018KXADCH/AA	18,000 Btu/h, single zone, CAC Slim Duct outdoor unit	X	
UH070CAV1	24,000 CAC outdoor unit		Х
UH105CAV	36,000 CAC outdoor unit	X (requires 2)	
UH140CAV	48,000 CAC outdoor unit	X (requires 2)	

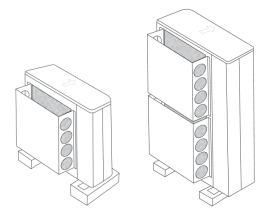
Designed to be placed on the coil intake side of the unit (back).

Note: This back shield is only required for applications where the mini split is not adjacent to a structure that would protect the intake side from prevailing wind (ex:

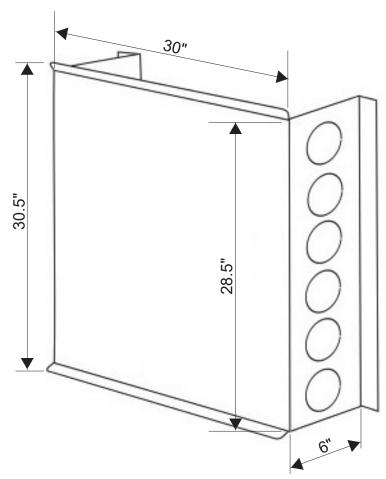
CONTENTS INCLUDED (WBMB-9/12/18/36): 2 side panels, 1 top/outer panel, 6 sheet metal screws, 6 washers, 6 spacers, 8 female fasteners, 8 male fasteners, and 1 tube thread locker.

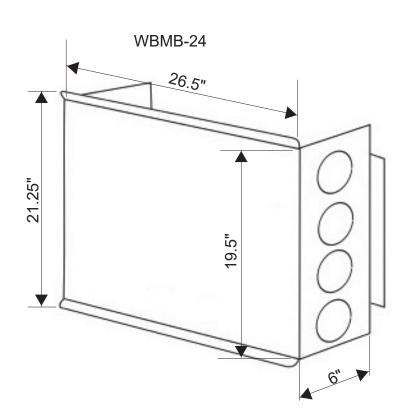
CONTENTS INCLUDED (WBMB-24): 2 side panels, 1 top/outer panel, 8 sheet metal screws, 8 washers, 8 spacers, 10 female fasteners, 10 male fasteners, and 1 tube thread locker.

Material: clear plastic



WBMB-9/12/18/36





Page 1 of 2

Front Wind Baffle for Samsung Outdoor Units

Job Name	Location
Purchaser	Engineer
Submitted to	Reference Approval Construction
Unit Designation	Schedule #

WBMF-9/12/18

WBMF-24/36

Unit Compatibility

Model number	Description	WBMF-9/12/18	WBMF-24/36
AR09JSFDHWKX	9,000 Btu/h, "Pearl", outdoor unit	X	
AR12JSFDHWKX	12,000 Btu/h, "Pearl", outdoor unit	X	
AR09KSWDHWKX	9,000 Btu/h, "Smart Pearl", outdoor unit	X	
AR12KSWDHWKX	12,000 Btu/h, "Smart Pearl", outdoor unit	X	
AR09HSFSJWKX	9,000 Btu/h, "Whisper" outdoor unit	X	
AR12HSFSJWKX	12,000 Btu/h, "Whisper" outdoor unit	X	
AR18HSFSJWKX	18,000 Btu/h, "Whisper" outdoor unit	X	h
AR24HSFSJWKX	24,000 Btu/h, "Whisper" outdoor unit		Х
AR09KSWSJWKX	9,000 Btu/h, "Smart Whisper" outdoor unit	X	
AR12KSWSJWKX	12,000 Btu/h, "Smart Whisper" outdoor unit	X	
AR18KSWSJWKX	18,000 Btu/h, "Smart Whisper" outdoor unit	X	
AR24KSWSJWKX	24,000 Btu/h, "Smart Whisper" outdoor unit		X
AR09KSWSPWKX	9,000 Btu/h, "Smart Whisper - Max Heat" outdoor unit	X	
AR12KSWSPWKX	12,000 Btu/h, "Smart Whisper - Max Heat" outdoor unit	X	
AR09KSFPDWQX	9,000 Btu/h, "Quantum" outdoor unit	X	
AR12KSFPDWQX	12,000 Btu/h, "Quantum" outdoor unit	X	
AR18KSFPDWQX	18,000 Btu/h, "Quantum" outdoor unit	X	
AR24KSFPDWQX	24,000 Btu/h, "Quantum" outdoor unit	X	
AQX09VFUAGM	9,000 Btu/h, "Max" outdoor unit	X	
AQX12VFUAGM	12,000 Btu/h, "Max" outdoor unit	X	
AQX18VFUAGM	18,000 Btu/h, "Max" outdoor unit	X	
AQX24VFUAGM	24,000 Btu/h, "Max" outdoor unit		X
AQX36VFUAGM	36,000 Btu/h, "Max" outdoor unit		X (requires 2)
AJ020JCJ2CH/AA	17,000 Btu/h, FJM, 2 port, outdoor unit		X
AJ024JCJ3CH/AA	20,000 Btu/h, FJM, 3 port, outdoor unit		X
AC018JXADCH/AA	18,000 Btu/h, single zone, CAC outdoor unit	X	
AC009KXADCH/AA	9,000 Btu/h, single zone, CAC Slim Duct outdoor unit	X	
AC012KXADCH/AA	12,000 Btu/h, single zone, CAC Slim Duct outdoor unit	X	
AC018KXADCH/AA	18,000 Btu/h, single zone, CAC Slim Duct outdoor unit	X	
MH050FXCA2A	18,000 Btu/h, FJM outdoor unit	X	
MH080FXCA4A	30,000 Btu/h, FJM outdoor unit		X
UH070CAV1	24,000 CAC outdoor unit		X
UH105CAV	36,000 CAC outdoor unit		X (requires 2)
UH140CAV	48,000 CAC outdoor unit		X (requires 2)

Specifications

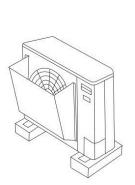
Designed to be placed on fan discharge side (front).

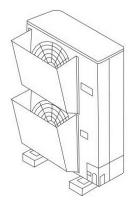
Note: Only a front shield is required for applications where the mini split is adjacent to a structure that would protect the intake side from prevailing wind. Applications without this protection would require a back shield (ex: roof top).

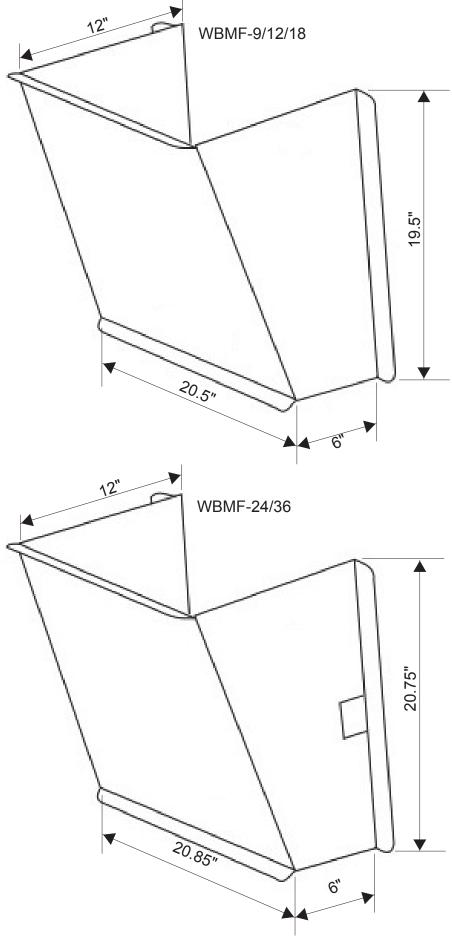
CONTENTS INCLUDED (WBMB-9/12/18): 2 side panels, 1 top/outer panel, 6 sheet metal screws, 6 washers, 6 spacers, 8 female fasteners, 8 male fasteners, and 1 tube thread locker.

CONTENTS INCLUDED (WBMB-24/36): 2 side panels, 1 top/outer panel, 8 sheet metal screws, 8 washers, 8 spacers, 8 female fasteners, 8 male fasteners, and 1 tube thread locker

Material: clear plastic







Samsung HVAC and Quietside maintains a policy of ongoing development, specifications are subject to change without notice.

SUBMITTAL WBB-3

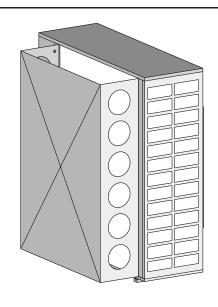
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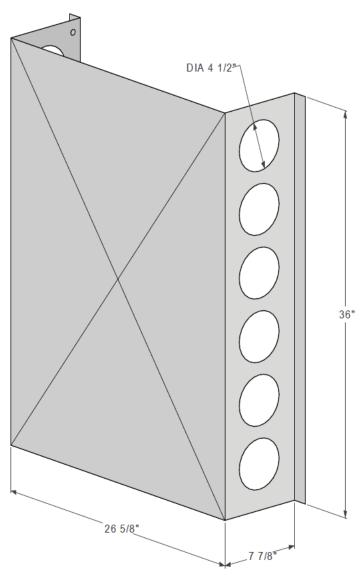
Back Wind Baffle for Samsung Outdoor Units

Job Name	Location
Purchaser	Engineer
Submitted to	Reference Approval Construction
Unit Designation	Schedule #

Specifications

- Designed to be placed on the coil intake side of the unit.
- Note: This back shield is only required for applications for which the outdoor unit is not adjacent to a structure that would protect the intake side from prevailing wind, such as a roof top.
- CONTENTS INCLUDED: 2 side panels (R and L), 2 outer panels, 9 sheet metal screws, 9 washers, 9 spacers, 16 female & 16 male fasteners and 1 tube thread lock.
- WBB-3 back wind baffle is compatible with: AJ036JCJ5CH/AA, AC024JXADCH/AA, AC030JXADCH/AA
- · Material: clear plastic





SAM	SU	N	G
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SUBMITTAL WBF-1

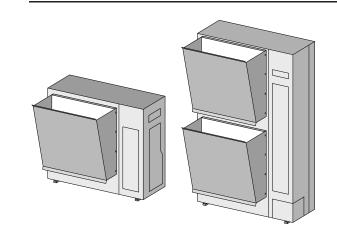
Page 1 of 1

Front Wind Baffle for Samsung Outdoor Units

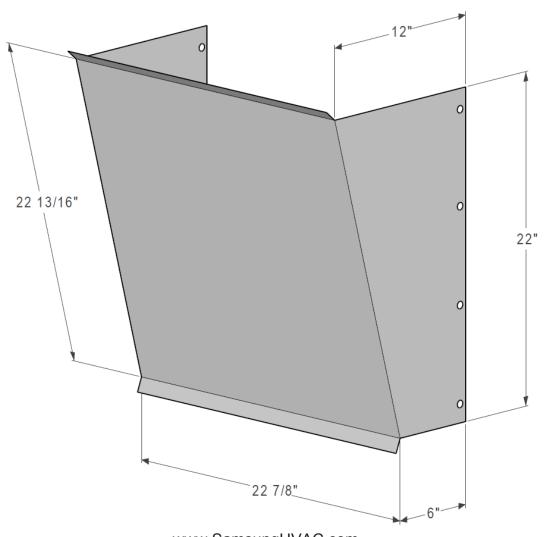
Job Name	Location _
Purchaser	Engineer
Submitted to	Reference Approval Construction
Unit Designation	Schedule #

Specifications

- Designed to be placed on fan discharge side (front).
- · Note: Only a front shield is required for applications where the outdoor unit is adjacent to a structure that would protect the intake side from prevailing wind. Applications without this protection would require a back shield (ex: roof top).
- CONTENTS INCLUDED: 2 side panels, 1 top or outer panel, 8 sheet metal screws, 8 washers, 8 spacers, 8 female & 8 male fasteners and 1 tube thread locke.
- · Material: clear plastic



- WBF-1 Front wind baffle is compatible with: AJ036JCJ5CH/AA, AC024JXADCH/AA, AC030JXADCH/AA, AC030JXSCCH/AA, AC036JXADCH/AA, AC036JXSCCH/AA, AC042JXADCH/AA, AC048JXADCH/AA, AM036FXMDCH/AA, AM048FXMDCH/AA, AC054KXADCH, and AM053FXMDCH/AA.
- · AC030JXSCCH/AA, AC036JXADCH/AA, AC036JXSCCH/AA, AC042JXADCH/AA, AC048JXADCH/AA, AM036FXMDCH/AA, AM048FXMDCH/AA, AM053FXMDCH/AA, and AC054KXADCH/AA outdoor units require two WBF-1 front wind baffles.



SAMSUNG

SUBMITTAL VHK-1**A, VHK-2**A, VHK-3**A

Page 1 of 2

Supplemental Electric Heat Kits for DVM S Multi-position Air Handlers

Job Name	Location			
Purchaser	Engineer			
Submitted to	Reference	Approval	Construction	
Unit Designation	Schedule #			

Description

- Supplemental electric heat kit used with Samsung DVM S (AM0**JNZDCH/AA) and CAC (AC0**KNZDCH/AA) multi-position air handlers to provide supplemental heat when the compressor cannot provide enough capacity due to low ambient conditions or for primary heat with cooling-only systems.
- · Installs inside the air handling unit.
- The electric heat kit shall include breakers for overcurrent protection and to turn off the air handler.
- The electric heat kit control wiring shall plug directly into the electric heat kit control plug inside the air handling unit.
- The electric heat kit shall contain limit switches to prevent overheating.
- The supplemental electric heat kit shall include an external temperature sensor that must be connected to the suction pipe during installation. This sensor will not allow the heat kit to activate when the supplied refrigerant temperature is above 109°F to prevent unnecessary use.
- When installed in DVM S multi-position air handlers, the indoor unit can be programmed to activate the supplemental electric heat kits based on set temperature and room temperature difference along with a time delay of up to 20 minutes (see indoor unit installation manual for more details).
- The supplemental electric heat kit shall include all components necessary for heat kit installation.

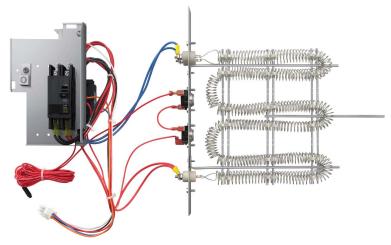
Compatibility

DVM S Multi-position AHU Models

E viii e ividia peciacii vii i	
AHU Model	Heat Kit Compatibility
AM012JNZDCH/AA	VHK-103A
AM018JNZDCH/AA	VHK-103A, VHK-105A
AM024JNZDCH/AA	VHK-103A, VHK-105A, VHK-110A
AM030JNZDCH/AA	VHK-205A, VHK-210A, VHK-215A
AM036JNZDCH/AA	VHK-205A, VHK-210A, VHK-215A
AM048JNZDCH/AA	VHK-305A, VHK-310A
AM054JNZDCH/AA	VHK-305A, VHK-310A, VHK-315A
AM060JNZDCH/AA	VHK-305A, VHK-310A, VHK-315A,
AMOOOGIVEBOII/AA	VHK-320A
AM072JNZDCH/AA	VHK-305, VHK-310, VHK-315,
AIVIU1 ZJINZDUH/AA	VHK-320

CAC Multi-position AHU Models (single zone)

AHU Model	Heat Kit Compatibility
AC018KNZDCH/AA	VHK-103A, VHK-105A
AC024KNZDCH/AA	VHK-103A, VHK-105A
AC030KNZDCH/AA	VHK-205A, VHK-210A
AC036KNZDCH/AA	VHK-205A, VHK-210A
AC042KNZDCH/AA	VHK-305A, VHK-310A
AC048KNZDCH/AA	VHK-305A, VHK-310A
AC054KNZDCH/AA	VHK-305A, VHK-310A, VHK-315A



(5 kW kit pictured, actual product appearance may vary)

Samsung and Quietside maintains a policy of ongoing development, specifications are subject to change without notice.

Supplemental Electric Heat Kits for Samsung Multi-position Air Handlers Electrical Data

DVM S Multi-position AHU Models

										ELECT	RICAL DATA											
	Electric Heater Data							Minimum Circuit Ampacity (MCA)				Maximum Overcurrent Protection (MOCP)				Minimum Wire Size (AWG)				Short-Circuit Current Rating		
Indoor Unit Model	Circuit Qty.				Amps 208V	Amps 208V	Amps 240V	Amps 240V	208V	208V	240V	240V	208V (3,4)	208V (3,4)	240V (3,4)	240V (3,4)	Circ	uit 1	Circ	uit 2	"SC	CR"
		(2)					Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	75°C / 90°C	60°C	75°C / 90°C	60°C	kA rms symmetrical	V maximum		
		L						SMALL C	ABINET-I	NOMINAL	.1.0, 1.5 & 2.0	TONS (0 To	5 Kw)					l				
AM012JNZDCH/AA	1	0	0	-	0	-	0.90	-	0.90	-	10.0		10.0	-	#14	#14	-	-	n/a	n/a		
AIVIU 12JINZDCH/AA	1	3	10.90	-	12.50	-	13.63	-	15.63	-	15.0	-	20.0	-	#12	#12	-	-	n/a	n/a		
AM018JNZDCH/AA	0	0	0	-	0	-	0.90	-	0.90	-	10.0	-	10.0	-	#14	#14	-	-	n/a	n/a		
AM024JNZDCH/AA	1	3	10.90	-	12.50	-	13.63	-	15.63	-	15.0	-	20.0	-	#12	#12	-	-	n/a	n/a		
	1	5	18.03	-	20.83	-	23.26	-	26.76	-	30.0	-	30.0	-	#10	#10	-	-	n/a	n/a		
								MEDIUM	1 CABINE	T-NOMIN	IAL 2.5, 3.0 To	ONS (0 To 10	Kw)									
AM030JNZDCH/AA	1	0	-	-	-	-	2.08	-	2.08	-	10.0	•	10.0	-	#14	#14	-	-	n/a	n/a		
AM036JNZDCH/ AA	1	5	18.03	-	20.83	-	24.20	-	27.70	-	30.0	-	30.0	-	#10	#10	-	-	n/a	n/a		
	1	10	36.06	-	41.67	-	46.73	-	53.74	-	50.0	-	60.0	-	#6	#4	-	-	n/a	n/a		
	Г	1			ı			RGE CAE		OMINAL 4	.0, 4.5, 5.0, 6.	0 TONS (0 To	20 Kw)			r	1		ı	I		
	1	0	-	-	-	-	2	-	2.6	-	15.06	-	15.0	-	#14	#14	-	-	n/a	n/a		
AM048JNZDCH/ AA	1	5	18.0	-	20.8	-	24.6	-	26.0	-	30.0		30.0	-	#10	#10	-	-	n/a	n/a		
	1	10	36.1	-	41.7	-	45.1	-	52.1	-	50.0	-	60.0	-	#6	#4	-	-	n/a	n/a		
ļ	1	0	-	-	-	-	2	-	2.6	-	15.06	-	15.0	-	#14	#14	-	-	n/a	n/a		
AM054JNZDCH/AA	1	5	18.0	-	20.8	-	24.6	-	26.0	-	30.0	-	30.0	-	#10	#10	-	-	n/a	n/a		
AM060JNZDCH/AA	1	10	36.1	-	41.7	-	45.1	-	52.1	-	50.0	-	60.0	-	#6	#4	-	-	n/a	n/a		
	2	15	18.0	36.1	20.8	41.7	24.6	47.2	28.1	54.2	30.0	50.0	30.0	60.0	#6	#4	#10	#10	5	240		
ļ	1	0	-	-	-	-	7	-	7.2	-	15.02	•	15.0	-	#14	#14	-	-	n/a	n/a		
AMOZO INIZIDOLIVA A	1	5	18.0	-	20.8	-	28.3	-	26.0	-	30.0	-	30.0	-	#10	#10	-	-	n/a	n/a		
AM072JNZDCH/AA	1 2	10 15	36.1 18.0	36.1	41.7 20.8	41.7	45.1 28.2	50.8	52.1 31.7	57.8	50.0 30.0	60.0	60.0 35.0	60.0	#6	#4	#10	- #10	n/a 5	n/a 240		
ļ	2	20	36.1	36.1	41.7	41.7	50.8	50.8	57.8	57.8	60.0	60.0	60.0	60.0	#6	#4	#10	#10	5	240		

- 1. Rated Motor Amps (at DOE External Static Rating Point)
- 2. Nominal Kw At 240V (Derate 25% For 208V)
- 3. Fuse or HACR Breaker
- 4. Maximum Overcurrent Device, Overcurrent Protection Installed On Breaker Models Are Sized Per MCA
- To prevent damage, carefully insert the electric heating assembly through the rectangular opening in the front of the discharge opening so the heat element support rod is seated into the hole on the back side of the discharge opening.
- After installing the electric heater, a one inch clearance must be maintained on all sides of the supply air duct and/or plenum for a minimum of thirty six inches from the air handler discharge opening.

CAC Multi-position AHU Models (single zone)

-									ELECT	RICAL DAT	Α												
			Electri	ic Heater Da	ata		Minimum Circuit Ampacity (MCA)				Maximum Overcurrent Protection (MOCP)				Minimum Wire Size (AWG)			Short-Circuit Current Rating					
Indoor Unit Model	Circuit	Kw	Kw	Kw	Kw	Amps 208V	Amps 208V	Amps 240V	Amps 240V	208V	208V	240V	240V	208V (3,4)	208V (3,4)	240V (3,4)	240V (3,4)	Circ	uit 1	Circ	uit 2	"SCC	CR"
	Qty.	(2)	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	75°C / 90°C	60°C	75°C / 90°C	60°C	kA rms symmetrical	V maximum			
							SMA	LL CABINE	T-NOMINAI	L1.0, 1.5 & :	2.0 TONS (0	0 To 5 Kw)											
AC018KNZDCH/AA	1	3	10.90	-	12.50	-	13.63	-	15.63	-	15.0	-	20.0	-	#12	#12	-	-	n/a	n/a			
AC024KNZDCH/AA	1	5	18.03		20.83	-	23.26	-	26.76	-	30.0	-	30.0	-	#10	#10	-	-	n/a	n/a			
					•		ME	DIUM CABI	NET-NOMIN	NAL 2.5, 3.0	TONS (0 T	o 10 Kw)					•			•			
AC030KNZDCH/AA	1	5	18.03	-	20.83	-	24.20	-	27.70	-	30.0	-	30.0	-	#10	#10	-	-	n/a	n/a			
AC036KNZDCH/AA	1	10	36.06	-	41.67	-	46.73	-	53.74	-	50.0	-	60.0	-	#6	#4	-	-	n/a	n/a			
							LARGE	CABINET-	NOMINAL 4	.0, 4.5, 5.0	6.0 TONS	(0 To 20 Kw	1)							•			
AC042KNZDCH/AA	1	5	18.0		20.8	-	24.6	-	26.0	-	30.0	-	30.0	-	#10	#10	-	-	n/a	n/a			
AC048KNZDCH/AA	1	10	36.1		41.7	-	45.1	-	52.1	-	50.0	-	60.0	-	#6	#4	-	-	n/a	n/a			
	1	5	18.0	-	20.8	-	24.6	-	26.0	-	30.0	-	30.0	-	#10	#10	-	-	n/a	n/a			
AC054KNZDCH/AA	1	10	36.1	-	41.7	-	45.1	-	52.1	-	50.0	-	60.0	-	#6	#4	-	-	n/a	n/a			
	2	15	18.0	36.1	20.8	41.7	24.6	47.2	28.1	54.2	30.0	50.0	30.0	60.0	#6	#4	#10	#10	5	240			

- 1. Rated Motor Amps (at DOE External Static Rating Point)
- 2. Nominal Kw At 240V (Derate 25% For 208V)
- 3. Fuse or HACR Breaker
- 4. Maximum Overcurrent Device, Overcurrent Protection Installed On Breaker Models Are Sized Per MCA
- $\bullet \ \, \text{To prevent damage, carefully insert the electric heating assembly through the rectangular opening in the front of the } \\$

discharge opening so the heat element support rod is seated into the hole on the back side of the discharge opening.

• After installing the electric heater, a one inch clearance must be maintained on all sides of the supply air duct and/or plenum for a minimum of thirty six inches from the air handler discharge opening

SAMSUNG WALL HUNG SYSTEMS

1.5 TON SYSTEM

SAMSUNG INDOOR MODEL NUMBER: AR18HSFSJWKX

SAMSUNG OUTDOOR MODEL NUMBER: AR18HSFSJWKN

<u>TAG</u>: AH-1

TOTAL QUANTITY = 1

2.0 TON SYSTEM

SAMSUNG INDOOR MODEL NUMBER: AR24HSFSJWKX

SAMSUNG OUTDOOR MODEL NUMBER: AR24HSFSJWKN

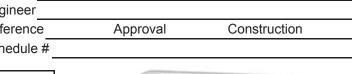
<u>TAG</u>: AH-2

TOTAL QUANTITY = 1

KX / AR18HSFSJWKN

Fi Whisper", wall mounted evaporator, split system

SAMSUN			SUBMITTAL A	R18HSFSJW amsung "Wi-f			
Job Name				Location			
Purchaser				Engineer			
Submitted to				Reference			
Unit Designatio	n	0		Schedule #_			
	System Model Num	Specifications	AR18HSFSJ	WK			
Model	Indoor Unit Model N	Number	AR18HSFSJ\				
	Outdoor Unit Mode	Number	AR18HSFSJ\	NKX			
	Nominal Capacity	Cooling / Heating (Btu/h)	18,000 / 20,				
	Capacity Range	Cooling (Btu/h) Heating (Btu/h)	5,459 - 23,8 4,094 - 27,2				
Performance	SEER / EER	rieating (Dtd/II)	20.5 / 13.				
	COP		3.84				
	HSPF Condensate (pints/	hour)	9.0				
	-		1 / 208-230	/ 60			
	Voltage Working Voltage Ra	ø / V / Hz ange (VAC)	176 - 254 (max. 3% devi				
	Operating Current	Cooling (A)	1.8 / 6.2 / 9	,			
Power	(Low/Std./High)	Heating (A)	1.5 / 7.3 / 1				
	Maximum Current Max. Breaker	Cooling/Heating (A) Amps	14.0 / 17. 20	5			
	Min. Circuit Ampac		17.7				
	WXHXD	Indoor Unit	41 7/8 X 11 9/16	X 12 1/2			
	(inches)	Outdoor Unit	34 5/8 X 31 9/32 X				
imensions	Weight (lbs.)	Indoor Unit	31				
	Condensate Conne	Outdoor Unit	117 11/16" OD				
	Condensate Conne						
	Indoor & Outdoor	Type FPI	Aluminum Fin - Co	pper rube			
Jost Evohangor	Unit	Pipe Diameter	1/4"				
Heat Exchanger	Indoor Unit	Main and Sub coils	2 row / 14 step				
	Outdoor Unit	Upper Coil	1 row / 10 step 2 row / 24 step				
		Ouist / High	25 / 41	tep			
Sound Pressure Level	Indoor Unit (dB) Outdoor Unit (dB)	Quiet / High High	51				
		i i	Standard: 14 ≤	T ≤ 115			
Operating	Outdoor	Cooling	0 ≤ T ≤ 115 with wind b				
Temperatures (⁰ F)		Heating	5≤T≤75				
, ,	Indoor	Cooling Heating	61 ≤ T ≤ 9 T ≤ 80	10			
	<u> </u>	High side (flare)	1/4"				
· · · · · ·	Indoor & Outdoor	Low side (flare)	1/2"				
Pipe Connections		m Line Set Length (ft.)	98 / 10				
	Maximum Vertical S	Separation (ft.)	50				
	Type		R410A	in a Mahan			
Refrigerant	Control Method Factory Charge	oz.	Electronic Expansion Valve 70.5				
	Charged for	02.	25'				
	Additional Refrigera	ant	0.16 oz./ft. over 25 ft.				
	Manufacturer		Samsung				
Compressor	Туре	I A	DC, Inverter Drive	n, Rotary			
Compressor	RLA Operating	A Cooling (low/std./high)	15 / 47 / 7	3			
	Frequency (Hz)	Heating (low/std./high)	15 / 54 / 7				
	Туре		BLDC motor with cros	s-flow fan (1)			
Evaporator Fan	Air Volume	CFM (L / M / H)	350 / 460 / 640				
raporator ran	Consumption	Watts	27 0.12				
	Operating Current	Amps					
Condenser Fan	Motor Output	Watts	BLDC motor with a 97.5	xiai läli (1)			
	FLA	Amps	97.5 0.37				
	Condensate pump	j	ASP-MO-UNIV 110-2	250			
	· '	Standard	AR-WRS (includes	sub-PCB and			
	Wired Controller	Standard	MWR-WH00 contro	oller)			
		Premium	AR-WRP (includes sub-PCB and MWR-WE10 controller with scheduling)				





(actual equipment appearance may vary)

General Information

- Outdoor unit shall provide 208/230V power to indoor unit via 14 AWG X 3 interconnect power cable (seperate communication wire required)
- · Electro-static, washable, main filter as standard accessible from the front/top of unit

Construction

- Indoor unit chassis shall be UL94 V0 with a galvanized steel mounting
- The outdoor unit shall be galvanized steel with a baked on powder coated
- · The indoor unit shall have easy-access pipe and drain connections via access panel on front of unit for easier installation and service

Heat Exchanger

• The heat exchanger shall be mechanically bonded fin to copper tube

Refrigerant System

- The compressor shall be hermetically sealed, inverter controlled, Twin BLDC Rotary
- Refrigerant flow shall be controlled by electronic expansion valve at outdoor unit

Indoor Fan

- The indoor fan shall be a single, antibacterial cross-flow type
- Three fan speed settings and auto setting
- · Automatic (motorized) vertical swing (up/down) louver

General Control

- · Control signal shall be DDC type signal
- Unit shall have a built-in Wi-Fi adapter as standard to allow control with mobile devices (details on page 4)
- Interconnect control wiring shall be 16 AWG X 2 shielded wire between outdoor and indoor units
- · The indoor unit shall ship with a wireless controller and batteries as
- · Optional wired control available

Convenience

- Auto restart
- Digital display on the front of indoor unit (hidden behind louver when off) to display temperature and service codes
- · "Fast Comfort" mode to quickly reach set temperature
- Auto changeover
- 24 hour, single event timer
- · Good'sleep mode
- Quiet mode
- · Drv mode
- · Single event, ON/OFF timer
- Single User Mode to reduce energy consumption during low demand operation
- Air filter cleaning can be done easily without opening the indoor unit
- Filter cleaning reminder indicator
- · Display ON/OFF and beep ON/OFF with wireless controller
- Smart install mode startup system diagnostics operation to ensure system readiness during initial operation

IMPORTANT - This product has been designed and manufactured to meet ENERGY STAR criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow the manufacturer's refrigerant charging and air flow instructions. Failure to confirm proper charge and airflow may reduce energy efficiency and shorten equipment life.

QS-RAC-112015A

logic, compressor overload sensing

10 Years compressor, 10 Year Parts, 1 Year Limited Labor (registration required)

Line sets - insulated and flared, interconnect

Front

Back

Quietside maintains a policy of ongoing development, specifications are subject to change without notice. Refer to www.AHRIdirectory.org for current reference numbers.

Wall bracket (for outdoor unit)

cables included

Wind Baffle

Certifications

Devices

Optional Accessories

Safety

www.SamsungHVAC.com

25' - ILS2507

50' - ILS5007

WBMF-9/12/18

PCB fuses, indoor unit terminal block thermal fuse, current transformer,

over-voltage protection, crankcase heating, temperature limit protection

WBMB-9/12/18/36

CKN-250 or CKN-500

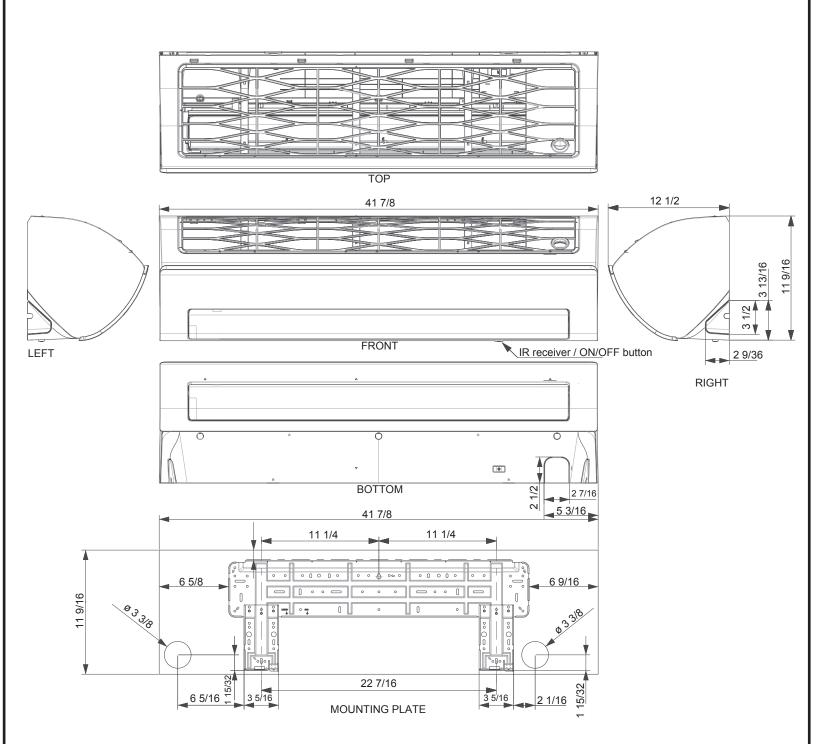


^{*} Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB.
* Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.



Samsung "Wi-Fi Whisper", wall mounted evaporator, split system Indoor unit dimensional drawing

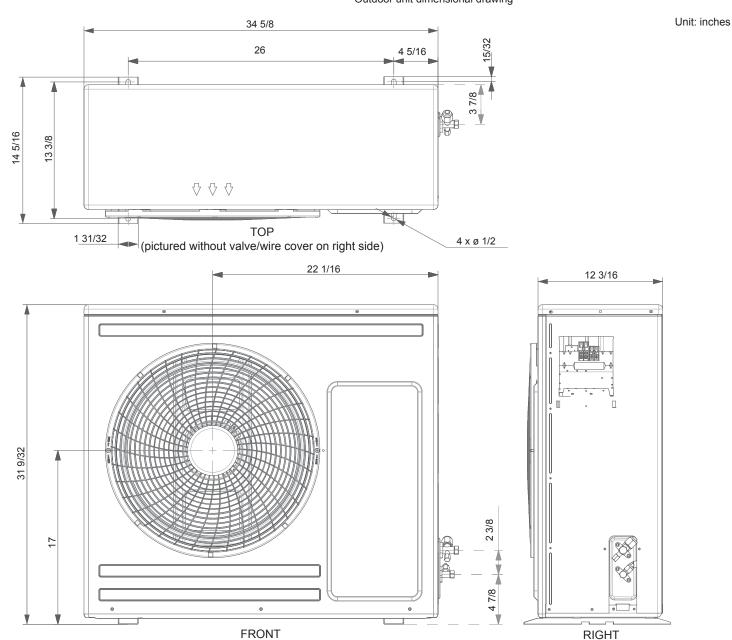
Unit: inches

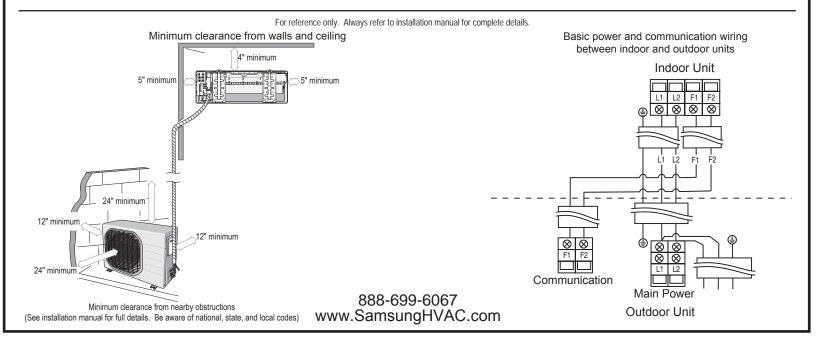




Samsung "Wi-Fi Whisper", wall mounted evaporator, split system Outdoor unit dimensional drawing

(pictured without valve/wire cover)





(pictured without valve/wire cover on right side)



Samsung "Wi-Fi Whisper", wall mounted evaporator, split system Wi-Fi Control Details

General Wi-Fi Control Information • Allows control of system on a local network via Wi-Fi or through the internet when outside of home/office with Samsung's "Smart Air Conditioner" app (available in Android and Apple app stores).

- Wi-Fi Control Features

 Basic control and monitoring of: power, mode, set temperature, room temperature, fan speed, and louver swing.
- Timer ON and OFF feature allows scheduling of power ON and power OFF events on specific days at specific times.
- "My Wind" functions allows the user to save common air conditioner control configurations for quick and easy system operation (mode, set temperature, fan speed, and louver swing)
- · Air filter reminder option will display hours of fan operation since last filter reminder reset.
- Optional filter reminder with four reminder intervals (180, 300, 500, and 700 hours of fan operation).
- Error notification
- · System energy consumption history and adjustable threshold notification viewable with mobile app



Wi-Fi Control Specifications

- Samsung's "Smart Air Conditioner" app can monitor and control an unlimited quantity indoor units.
- A network with Wi-Fi connectivity is required to use the Wi-Fi adapter. Wi-Fi-direct control is not possible.
- Users must register each indoor unit at http://www.samsungsmartappliance.com to setup control.
- Use is based on acceptance of Samsung's Smart Appliance terms and conditions when creating user profile and registering

Samsung "Smart Air Conditioner" App Examples



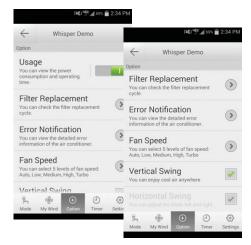
Main control page



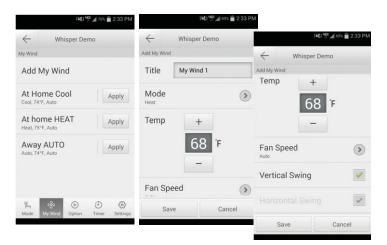
Energy usage page



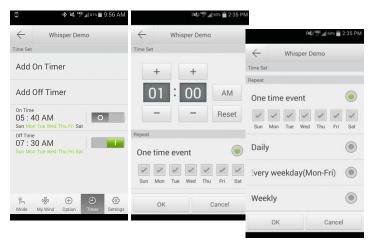
Filter reminder setting page



Options page



"My Wind" settings page



Timer setting page example

SUBMITTAL AR24HSFSJWKX / AR24HSFSJWKN

SAMSUNG

Samsung "Wi-Fi Whisper", wall mounted evaporator, split system

Approval

Job Name				Location				
Purchaser				Engineer				
Submitted to				Reference				
Unit Designation				Schedule #				
Offic Designation		Specifications						
	System Model Num	nber	AR24HSFS	JWK				
Model	Indoor Unit Model N Outdoor Unit Mode		AR24HSFSJ					
			AR24HSFSJ					
	Nominal Capacity	Cooling / Heating (Btu/h) Cooling (Btu/h)	22,000 / 27 8,871 - 31					
	Capacity Range	Heating (Btu/h)	7,506 - 40,					
Performance	SEER / EER		20.0 / 12.2					
	COP HSPF		3.68					
	Condensate (pints/l	hour)	10.0 6.0					
	Voltage	ø / V / Hz	1 / 208-230)/60				
	Working Voltage Ra		176 - 254 (max. 3% dev					
_	Operating Current		3.2 / 8.3 /	14.0				
Power	(Low/Std./High)	Heating (A)	2.6 / 11.5 /					
	Maximum Current Max. Breaker	Cooling/Heating (A) Amps	17.0 / 19 30).0				
	Min. Circuit Ampaci		18.5					
	WXHXD	Indoor Unit	41 7/8 X 11 9/16	6 X 12 1/2				
	(inches)	Outdoor Unit	34 5/8 X 37 31/3					
Dimensions	Weight (lbs.)	Indoor Unit	31					
		Outdoor Unit	158	<u> </u>				
	Condensate Conne		11/16" C					
	Indoor & Outdoor	Type FPI	Aluminum Fin - C	opper Tube				
	Unit	Pipe Diameter	18 1/4"					
Heat Exchanger	1 11.26	Main and Sub coils	2 row / 14	step				
	Indoor Unit	Upper Coil	1 row / 10	step				
	Outdoor Unit		2 row / 24	step				
Sound Pressure Level	Indoor Unit (dB)	Quiet / High	30 / 44	ļ				
	Outdoor Unit (dB)	High	54					
	0.11	Cooling	Standard: 14 ≤					
Operating	Outdoor		0 ≤ T ≤ 115 with wind I 5 ≤ T ≤ 7					
Temperatures (⁰ F)		Heating Cooling	61 ≤ T ≤					
	Indoor	Heating	T ≤ 80					
	1. 1	High side (flare)	1/4"					
Pipe Connections	Indoor & Outdoor	Low side (flare)	5/8"					
i ipo cominociono		m Line Set Length (ft.)	98 / 10)				
	Maximum Vertical S	Separation (it.)	50					
	Type Control Method		R410A					
Refrigerant	Factory Charge	OZ.	Electronic Expan 81.13					
	Charged for	02.	25'					
	Additional Refrigera	ant	0.16 oz./ft. ov	er 25 ft.				
	Manufacturer		Samsun	ng				
	Туре		DC, Inverter Driv	en, Rotary				
Compressor	RLA Operating	A Cooling (low/otd /bigh)	13.7	60				
	Frequency (Hz)	Cooling (low/std./high) Heating (low/std./high)	15 / 41 / 15 / 48 /					
	Туре	J (BLDC motor with cro					
Funnameter F	Air Volume	CFM (L / M / H)	390 / 480 /					
Evaporator Fan	Consumption	Watts	27					
	Operating Current	Amps	0.12					
	Motor		BLDC motor with	axial fan (1)				
Condenser Fan	Output	Watts	95					
	FLA	Amps	0.5					
	Condensate pump	1	ASP-MO-UNIV 110 AR-WRS (includes					
	Mine d Controller	Standard	MWR-WH00 contr					
	Wired Controller	Premium	AR-WRP (includes					
Optional Accessories	Line cote insulata			oller with scheduling)				
	cables included	d and flared, interconnect	25' - ILS2509 50' - ILS5009					
	Wall bracket (for ou	ıtdoor unit)	CKN-250 or CKN-	-500				
	Wind Baffle /	Front	WBMF-24/36					
	Guard	Back	WBMB-24					
	Certifications	ETL & ETLc		$\overline{}$				
Safety		PCB fuses, indoor unit termin						
	Devices	over-voltage protection, cran	e limit protection					
	<u>I</u>	logic, compressor overload s						
Marranty	110 Vegre compress	or 10 Vear Parts 1 Vear Lim	ited Lahor (registration rec	ruired)				



Construction

(actual equipment appearance may vary)

General Information

Outdoor unit shall provide 208/230V power to indoor unit via 14 AWG X 3 interconnect power cable (seperate communication wire required)
 Electro-static, washable, main filter as standard accessible from the front/top of unit

Construction

 Indoor unit chassis shall be UL94 V0 with a galvanized steel mounting bracket

- The outdoor unit shall be galvanized steel with a baked on powder coated finish for durability
- The indoor unit shall have easy-access pipe and drain connections via access panel on front of unit for easier installation and service

Heat Exchanger

• The heat exchanger shall be mechanically bonded fin to copper tube

Refrigerant System

- The compressor shall be hermetically sealed, inverter controlled, Twin BLDC Rotary
- Refrigerant flow shall be controlled by electronic expansion valve at outdoor unit

Indoor Fan

- The indoor fan shall be a single, antibacterial cross-flow type
- Three fan speed settings and auto setting
- Automatic (motorized) vertical swing (up/down) louver

General Control

- Control signal shall be DDC type signal
- Unit shall have a built-in Wi-Fi adapter as standard to allow control with mobile devices (details on page 4)
- Interconnect control wiring shall be 16 AWG X 2 shielded wire between outdoor and indoor units
- The indoor unit shall ship with a wireless controller and batteries as standard
- Optional wired control available

Convenience

- Auto restart
- Digital display on the front of indoor unit (hidden behind louver when off) to display temperature and service codes
- "Fast Comfort" mode to quickly reach set temperature
- Auto changeover
- 24 hour, single event timer
- Good'sleep modeQuiet mode
- Dry mode
- Single event, ON/OFF timer
- Single User Mode to reduce energy consumption during low demand operation
- Air filter cleaning can be done easily without opening the indoor unit
- Filter cleaning reminder indicator
- Display ON/OFF and beep ON/OFF with wireless controller
- Smart install mode startup system diagnostics operation to ensure system readiness during initial operation

IMPORTANT - This product has been designed and manufactured to meet ENERGY STAR criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow the manufacturer's refrigerant charging and air flow instructions. Failure to confirm proper charge and airflow may reduce energy efficiency and shorten equipment life.

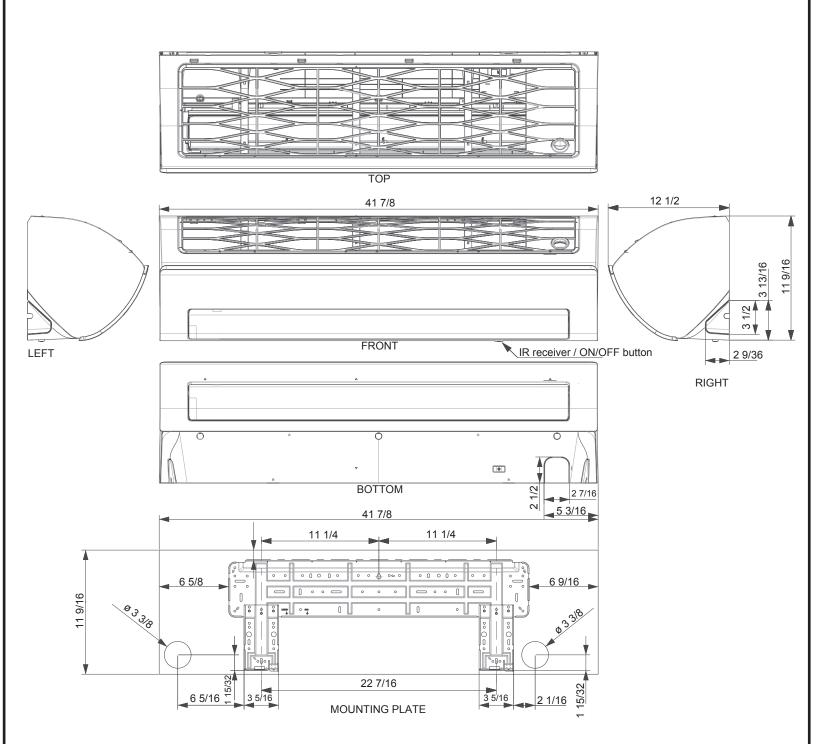






Samsung "Wi-Fi Whisper", wall mounted evaporator, split system Indoor unit dimensional drawing

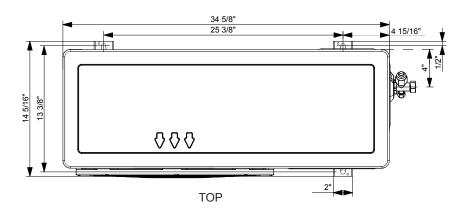
Unit: inches

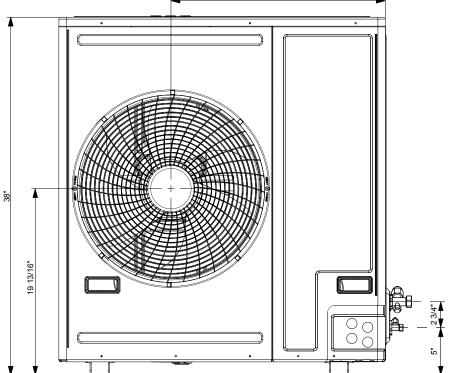




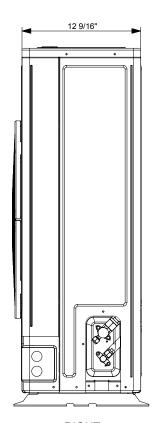
Samsung "Wi-Fi Whisper", wall mounted evaporator, split system Outdoor unit dimensional drawing

Unit: inches

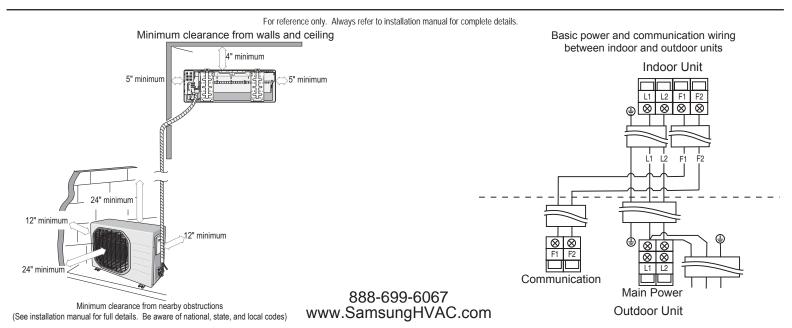




FRONT
(pictured without valve/wire cover on right side)



RIGHT (pictured without valve/wire cover)





Samsung "Wi-Fi Whisper", wall mounted evaporator, split system Wi-Fi Control Details

General Wi-Fi Control Information • Allows control of system on a local network via Wi-Fi or through the internet when outside of home/office with Samsung's "Smart Air Conditioner" app (available in Android and Apple app stores).

- Wi-Fi Control Features

 Basic control and monitoring of: power, mode, set temperature, room temperature, fan speed, and louver swing.
- Timer ON and OFF feature allows scheduling of power ON and power OFF events on specific days at specific times.
- "My Wind" functions allows the user to save common air conditioner control configurations for quick and easy system operation (mode, set temperature, fan speed, and louver swing)
- · Air filter reminder option will display hours of fan operation since last filter reminder reset.
- Optional filter reminder with four reminder intervals (180, 300, 500, and 700 hours of fan operation).
- Error notification
- · System energy consumption history and adjustable threshold notification viewable with mobile app



Wi-Fi Control Specifications

- Samsung's "Smart Air Conditioner" app can monitor and control an unlimited quantity indoor units.
- A network with Wi-Fi connectivity is required to use the Wi-Fi adapter. Wi-Fi-direct control is not possible.
- Users must register each indoor unit at http://www.samsungsmartappliance.com to setup control.
- Use is based on acceptance of Samsung's Smart Appliance terms and conditions when creating user profile and registering

Samsung "Smart Air Conditioner" App Examples



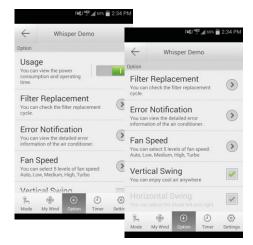
Main control page



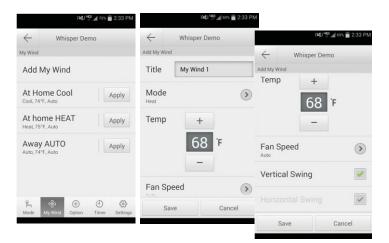
Energy usage page



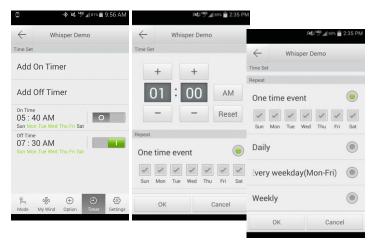
Filter reminder setting page



Options page



"My Wind" settings page



Timer setting page example