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

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

		Specifications	
Model	Indoor Unit Model N		AC024KNZDCH/AA
Woder	Outdoor Unit Model	Number	AC024JXADCH/AA
	Nominal Capacity 1	Cooling / Heating (Btu/h)	24,000 / 27,000
	Capacity Range	Cooling (Btu/h)	7,000 - 27,000
	SEER / EER	Heating (Btu/h)	6,700 - 29,000
Performance	COP (nominal heating	na)	19.5 / 11.00 3.0
	HSPF	197	11.5
	AHRI Certification Number		8950560
	Condensate (pints/h)		6.13
	Voltage	ø / V / Hz	1 / 208-230 / 60
Power	Working Voltage Ra	nge (VAC)	176 - 254 (max. 3% deviation from each)
(without optional	Operating Current	Cooling (A)	3.8 / 9.8 / 12.0
heat kits)	(min. / std. / max.)	Heating (A)	3.6 / 11.6 / 12.8
nout into)	Max. Breaker	Amps	20
	Min. Circuit Ampacity (A)		13.58
	WXHXD	Indoor Unit	17 1/2 X 43 X 21
Dimensions	(in.)	Outdoor Unit	37 X 39 11/16 X 13
	Weight	Indoor Unit	98.1
	(lbs.)	Outdoor Unit	142.2
Sound Pressure	Indoor Unit dB(A)	L/M/H	35 / 38 / 41
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	50 / 50
		Cooling	23 ~ 115°F(-5 ~ 46°C)
Operating	Outdoor		0 ~ 115°F(-18 ~ 46°C) W/Baffle
Temperatures °F(°C)		Heating	-4 ~ 76°F(-20 ~ 24°C)
1 (-)	Indoor	Cooling	61 ~ 90°F(16 ~ 32°C)
		Heating	T ≤ 80°F(27°C)
	Indoor & Outdoor	High side (flare)	1/4"
D: 0 //		Low side (flare)	5/8"
Pipe Connections	Maximum (ft.)		164
	Maximum Vertical Separation (ft.) Condensate Connection		98
	1		3/4" FNPT
D (:)	Factory Charge	OZ.	74.08
Refrigerant	Charged for		25 ft
	Additional Refrigerant		0.11 oz./ft. over 25 ft
Compressor	Туре	T.	Inverter Driven, Twin BLDC Rotary
	RLA	A	9.0
	Туре		Double-inlet, forward curve,
	,,	T	centrifugal (with ECM motor)
	Air Volume	CFM (L/M/H)	547 / 636 / 760 (at standard ESP)
Evaporator Fan	HP	Total CFM Range ²	262 - 888
	Motor Amps	Α	1/3 0.72
	External Static	Standard	0.72
	Pressure ("WC)	Min. / Max.	0 / 0.8
	, ,	Will. / Widx.	
Condenser Fan	Motor FLA / Watts / CFM (i	may)	BLDC With Axial Type Fan (1) 0.48 A / 125 W / 2,190 CFM
	I LAT Watto T OF W (I	nax.)	0.40 A / 123 W / 2,190 CI W
	Wired Controller	Advanced Wired Controller	MWR-WG00UN
		Simplified Touch Controller	MWR-SH11UN
	Wi-Fi Adapter		MIM-H04UN
	Wireless Signal	Wireless Signal Receiver	MRK-A10N
Optional	Control	Wireless Controller	AR-EH03U
	External Temperatur		MRW-TA
	External Contact Control Central Control Interface Module for Connection to		MIM-B14
	DVM Plus Controls (non-NASA)		MIM-N01
Accessories	Filter Box (includes 1" MERV 8 filter)		VFB-1
Accessories	Supplemental	3kW	VHK-103A
	Electric Heat Kits	5kW	VHK-105A
	Wall Bracket (for out	I	CKN-250
	,	Front	WBF-2M
	Wind Baffles Back Line Sets - insulated and flared, interconnect cables included		WBB-3M
			25' - ILS2509
			50' - ILS5009
	Cabico inciaaca		
	Downflow Conversion	n Kit	VDK-1
		n Kit	





General Information

- · Auto-restart after power loss
- The indoor unit shall be capable of being field convertible to downflow configuration with optional downflow conversion kit.
- 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.
- Air handler has an air leakage of no more than 2 percent of the design air flow rate when tested in accordance with ASHRAE 193.
- 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

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)

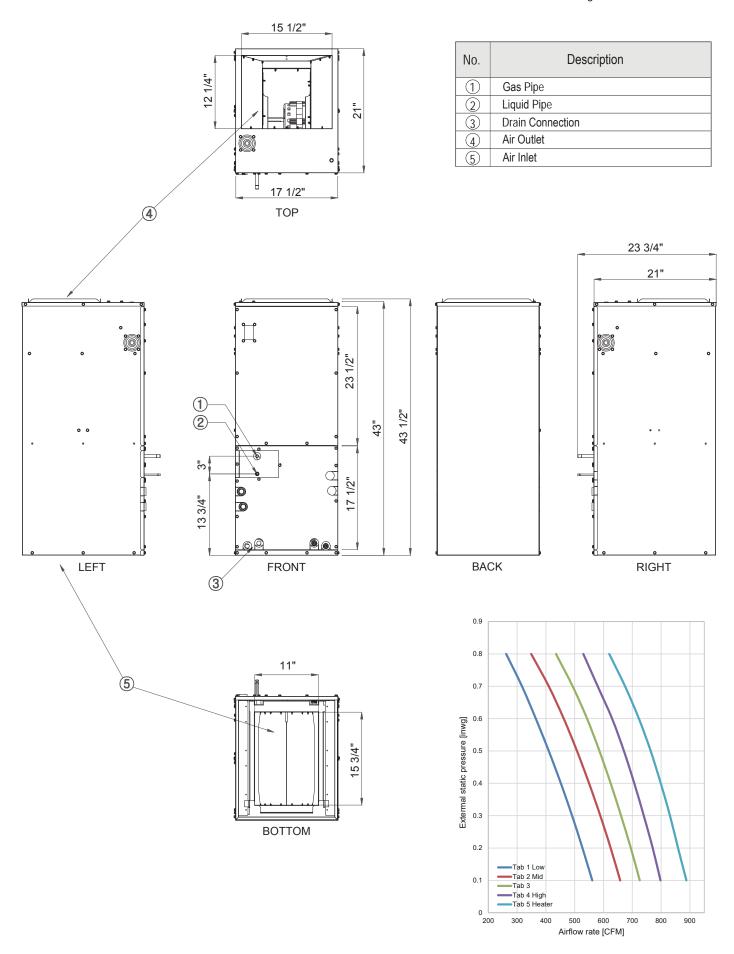
¹ Certified in accordance with the AHRI Unitary Small Air-Source Heat Pumps (USHP) Certification Program which is based on the latest edition of AHRI Standard 210/240.





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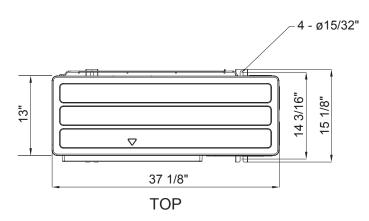
Samsung Multi-position Air Handler, Single Zone, Split System AC024KNZDCH/AA Dimensional Drawing

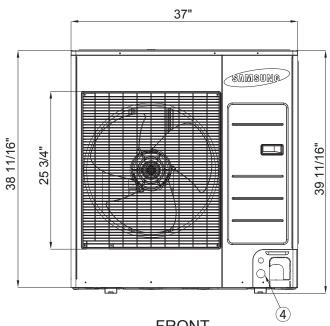


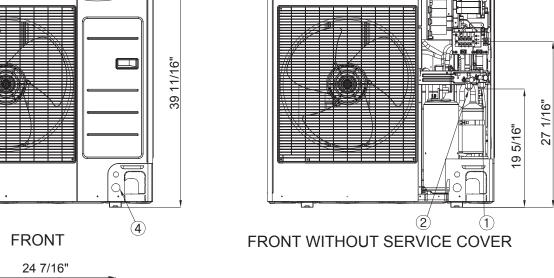
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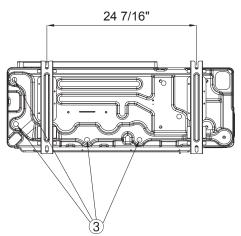
Samsung Multi-position Air Handler, Single Zone, Split System AC024JXADCH/AA Dimensional Drawing

11 9/32"









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