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

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

	Indoor Unit Model N	Specifications	A 000 M/A 70 M/A (0 M/A (20 M/A)	
Model		, ,	AC024KNZDCH/AA (CNH24ZDK)	
	Outdoor Unit Model Number (US Code)		AC024JXADCH/AA (CXH24ADJ)	
	Nominal Capacity 1	Cooling / Heating (Btu/h)	24,000 / 27,000	
	Capacity Range	Cooling (Btu/h)	7,000 - 27,000	
	OFFD /FFD	Heating (Btu/h)	6,700 - 29,000	
Performance	SEER / EER		19.5 / 11.00	
	COP (nominal heating	19)	3.0	
			11.5	
	AHRI Certification Number		8950560 6.13	
	Condensate (pints/h)			
	Voltage ø / V / Hz		1 / 208-230 / 60	
Power (without optional	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)	
	Operating Current	Cooling (A)	3.8 / 9.8 / 12.0	
heat kits)	(min. / std. / max.)	Heating (A)	3.6 / 11.6 / 12.8	
ricat kita)	Max. Breaker	Amps	20	
	Min. Circuit Ampacit	y (A)	13.58	
	WXHXD	Indoor Unit	17 1/2 X 43 X 21	
Dimension -	(in.)	Outdoor Unit	37 X 39 11/16 X 13	
Dimensions	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	
		3, 3, 3,	23 ~ 115°F(-5 ~ 46°C)	
	Outdoor	Cooling	0 ~ 115°F(-18 ~ 46°C) W/Baffle	
Operating	Outdoor	Heating	-4 ~ 76°F(-20 ~ 24°C)	
Temperatures °F(°C)	Indoor	Cooling	61 ~ 90°F(16 ~ 32°C)	
		Heating	T ≤ 80°F(27°C)	
		•	, ,	
	Indoor & Outdoor	High side (flare)	1/4"	
Di O	Massissas (ft.)	Low side (flare)	5/8"	
Pipe Connections	Maximum (ft.) Maximum Vertical Se	eneration (ft)	164	
		1 7	98	
	Condensate Connection		3/4" FNPT	
	Factory Charge	oz.	74.08	
Refrigerant	Charged for		25 ft	
	Additional Refrigerant		0.11 oz./ft. over 25 ft	
Compressor	Туре		Inverter Driven, Twin BLDC Rotary	
	RLA	A	9.0	
			Double-inlet, forward curve,	
Evaporator Fan	Туре		centrifugal (with ECM motor)	
		CFM (L/M/H)	547 / 636 / 760 (at standard ESP	
	Air Volume	Total CFM Range ²	262 - 888	
	HP		1/3	
	Motor Amps A		0.72	
	External Static	Standard	0.2	
	Pressure ("WC)	Min. / Max.	0 / 0.8	
	Motor			
Condenser Fan		may)	BLDC With Axial Type Fan (1) 0.48 A / 125 W / 2,190 CFM	
	FLA / Watts / CFM (max.)			
	Certifications		ETL (UL 1995)	
Safety	Devices: PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage protection, crankcase heating, temperature limit protection logic, compressor overload sensing			

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.





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
- 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 Fa

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 and indoor unit shall be 16AWG X 2 shielded

Controllers 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 controllers.

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)



² Refer to installation manual for full fan curve details

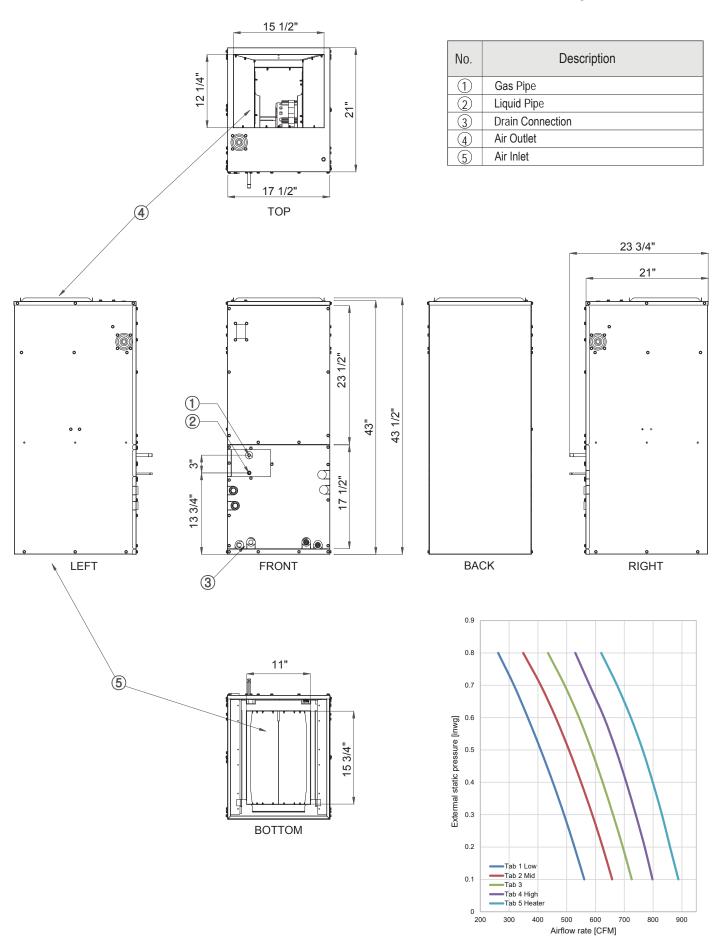
Optional Accessories

SAMSUNG

Wired Controller	Advanced Wired Controller	MWR-WG00UN
Wired Controller	Simplified Touch Controller	MWR-SH11UN
Wi-Fi Adapter		MIM-H04UN
Wireless Signal	Wireless Signal Receiver	MRK-A10N
Control	Wireless Controller	AR-EH03U
External Temperature Sensor		MRW-TA
External Contact Control		MIM-B14
Filter Box (includes 1" MERV 8 filter)		VFB-1
Supplemental	3kW	VHK-103A
Electric Heat Kits	5kW	VHK-105A
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-2M-B
	Back	WBB-3M
Line Sets - insulated and flared, interconnect cables		25' - ILS2509
included		50' - ILS5009
Downflow Conversion Kit		VDK-1
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN

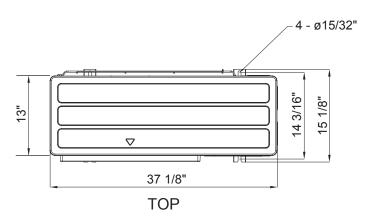
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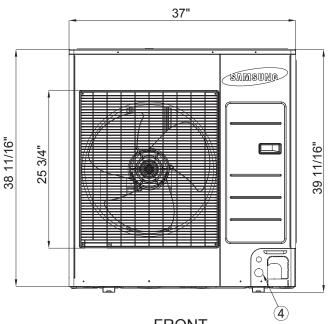
Samsung Multi-position Air Handler, Single Zone, Split System AC024KNZDCH/AA Dimensional Drawing

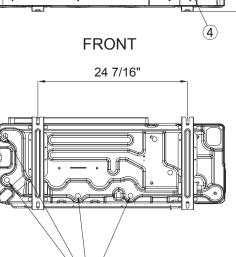


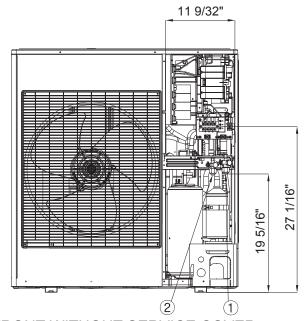
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Samsung Multi-position Air Handler, Single Zone, Split System AC024JXADCH/AA Dimensional Drawing









FRONT WITHOUT SERVICE COVER

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

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