SUBMITTAL AC054KNZDCH/AA

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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 Number (US Code)		AC054KNZDCH/AA (CNH54ZDK
Model	Outdoor Unit Model Number (US Code)		AC054KXADCH/AA (CXH54ADK
	, ,		54,000 / 60,000
	Nominal Capacity 1	Cooling / Heating (Btu/h) Cooling (Btu/h)	21,000 - 55,000
	Capacity Range	9 1	21,000 - 62,000
	SEER / EER	Heating (Btu/h)	
Performance	COP (nominal heating	20)	17.10 / 8.05
	HSPF	19)	3.03
		umbor	9.0
	AHRI Certification Number		8950575
	Condensate (pints/h)		12.05
	Voltage ø / V / Hz		1 / 208-230 / 60
Power	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)
(without optional	Operating Current	Cooling (A)	10.1 / 28.7 / 35.8
heat kits)	(min. / std. / max.)	Heating (A)	10.2 / 24.7 / 38.5
noat kita)	Max. Breaker	Amps	70
	Min. Circuit Ampacit	y (A)	42
	WXHXD	Indoor Unit	24 1/2 X 58 3/4 X 21 3/4
D:	(in)	Outdoor Unit	37 X 56 X 13
Dimensions	Weight	Indoor Unit	163.14
	(lbs.)	Outdoor Unit	211.6
Sound Pressure	Indoor Unit dB(A)	L/M/H	39 / 42 / 45
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	56 / 56
20101	Catacor CriticaD(rt)	Cooming / Floating (Flight)	
	Outdoor	Cooling	23 ~ 115°F(-5 ~ 46°C)
Operating			0 ~ 115°F(-18 ~ 46°C) W/Baffle
Temperatures (°F)		Heating	-4 ~ 76°F(-20 ~ 24°C)
,	Indoor	Cooling	61 ~ 90°F(16 ~ 32°C)
		Heating	T ≤ 80°F(27°C)
	Indoor & Outdoor	High side (flare)	3/8"
		Low side (flare)	3/4"
Pipe Connections	Maximum (ft.)		246
	Maximum Vertical S	eparation (ft.)	98
	Condensate Connection		3/4" FNPT
	Factory Charge	OZ.	119.93
Refrigerant	Charged for		25 ft
. g	Additional Refrigerant		0.355 oz./ft. over 25 ft
	Туре		Inverter Driven, Twin BLDC Rotary
Compressor	RLA	A	28.5
	INLA	<u> ^</u>	
	Туре		Double-inlet, forward curve,
Evaporator Fan	**	1	centrifugal (with ECM motor)
	Air Volume	CFM (L/M/H)	1,342 / 1,501 / 1,889 (at standard ESF
	LID	Total CFM Range 2	370 - 2,000
	HP		3/4
	Motor Amps	A	2.09
	External Static	Standard	0.28
	Pressure ("WC)	Min. / Max.	0.1 / 1.0
Condenser Fan	Motor		BLDC With Axial Type Fan (2)
Condensel Fall	FLA / Watts / CFM (I	max.)	0.48 A X 2 / 125 W X 2 / 5,160 CFM
	, ,		
	Certifications		ETL (UL 1995)

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 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 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

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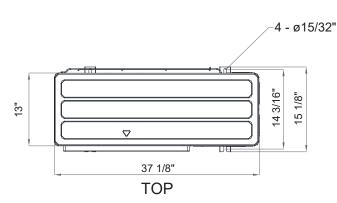
Optional Accessories

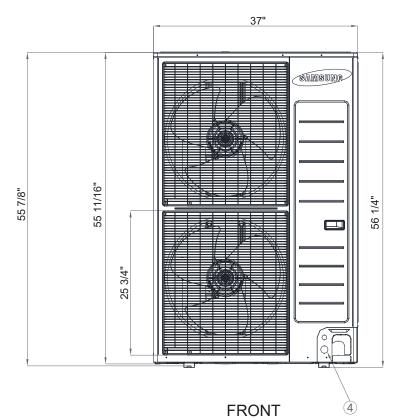
Wired Controller	Advanced Wired Controller	MWR-WG00UN
	Simplified Touch Controller	MWR-SH11UN
Wi-Fi Adapter		MIM-H04UN
Wireless Signal	Wireless Signal Receiver	MRK-A10N
Control	Wireless Controller	AR-EH03U
External Temperature Sensor		MRW-TA
External Contact Control		MIM-B14
Filter Box (includes 1" MERV 8 filter)		VFB-3
Supplemental Electric Heat Kits	5kW	VHK-305A
	10kW	VHK-310A
	15kW	VHK-315A
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-6M
	Back	WBB-4M
Downflow Conversion Kit		VDK-3
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN

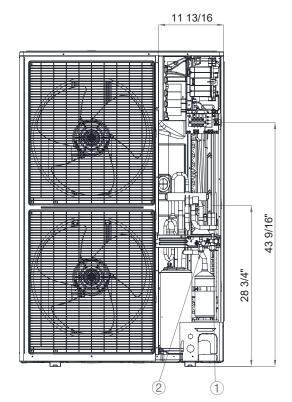
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Air flow rate [CFM]

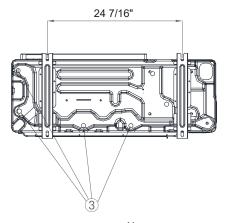
Samsung Multi-position Air Handler, Single Zone, Split System AC054KXADCH/AA Dimensional Drawing







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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