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	Specifications	A CO40KNZDCLI/A A
Model	Outdoor Unit Model N		AC018KNZDCH/AA AC018JXADCH/AA
	Nominal Capacity 1	Cooling / Heating (Btu/h) Cooling (Btu/h)	18,000 / 20,000 5,000 - 21,000
	Capacity Range	Heating (Btu/h)	4,400 - 24,000
D- of	SEER / EER	ribating (Bia/ii)	20.1 / 11.25
Performance	COP (nominal heating)		2.92
	HSPF		10.0
	AHRI Certification Number		8950555
	Condensate (pints/ho	ur)	4.44
	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)	2.4 / 7.1 / 9.6
neat kits)	(min. / std. / max.) Max. Breaker	Heating (A) Amps	2.2 / 8.7 / 10.0 15
	Min. Circuit Ampacity		9.4
	W X H X D	Indoor Unit	17 1/2 X 43 X 21
Dimensions	(inches) Weight	Outdoor Unit Indoor Unit	34 5/8 X 25 1/8 X 12 1/4 98.1
	(lbs.)	Outdoor Unit	98.1 99.2
Paymed Deser	1, ,		
Sound Pressure	Indoor Unit dB(A)	L/M/H	32 / 35 / 38
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	48 / 48
		Cooling	23 ≤ T ≤ 115
Operating	Outdoor		0 ≤ T ≤ 115 W/Baffle
Temperatures (°F)		Heating	-4 ≤ T ≤ 76
. ,	Indoor	Cooling	61 ≤ T ≤ 90
		Heating	T ≤ 80
	Indoor & Outdoor	High side (flare)	1/4"
	Low side (flare)		1/2"
Pipe Connections	Maximum (ft.)		98
	Maximum Vertical Separation (ft.)		66
	Condensate Connection		3/4" FNPT
5.41	Factory Charge	OZ.	45.86
Refrigerant	Charged for Additional Refrigerant		25 feet
			0.11 oz./ft. over 25 feet
Compressor	Туре	1 -	Inverter Driven, Twin BLDC Rotar
•	RLA	A	6.1
	Type		Double-inlet, forward curve,
	.,,,,,	1	centrifugal (with ECM motor)
	Air Volume	CFM (L/M/H)	494 / 530 / 600 (at standard ESI
Evaporator Fan	LID	Total CFM Range 2	130 - 682
·	HP	٨	1/3
	Motor Amps External Static	A Standard	0.72 0.2
	Pressure ("WC)	Min. / Max.	0 / 0.8
	I	IVIIII. / IVIAX.	
Condenser Fan	Motor		BLDC With Axial Type Fan (1)
	FLA / Watts / CFM (m	ax.)	0.13 A / 39 W / 1,550 CFM
		Simplified	MWR-SH00N
			MWR-WE10N
	Wired Controller	Premium w/scheduling	
		Premium w/scheduling Simplified Touch Controller	MWR-SH10N
	Wi-Fi Adapter	Simplified Touch Controller	MIM-H03UN
	Wi-Fi Adapter Wireless Signal	Simplified Touch Controller  Wireless Signal Receiver	MIM-H03UN MRK-A10N
	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
Optional	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Contact	Simplified Touch Controller  Wireless Signal Receiver Wireless Controller Sensor	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14
	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Contact	Simplified Touch Controller  Wireless Signal Receiver Wireless Controller Sensor trol  the Module for Connection to	MIM-H03UN MRK-A10N MR-EH00U MRW-TA
•	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Contact Central Control Interfac	Simplified Touch Controller  Wireless Signal Receiver Wireless Controller Sensor trol trol the Module for Connection to on-NASA)	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14
•	Wi-Fi Adapter Wireless Signal Control External Temperature External Contact Contact Central Control Interfact DVM Plus Controls (no	Simplified Touch Controller  Wireless Signal Receiver Wireless Controller Sensor trol trol the Module for Connection to on-NASA)	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14 MIM-N01
•	Wi-Fi Adapter Wireless Signal Control External Temperature External Control Interfac DVM Plus Controls (no Filter Box (includes 1" Supplemental Electric Heat Kits	Simplified Touch Controller  Wireless Signal Receiver  Wireless Controller  Sensor  trol  ce 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
•	Wi-Fi Adapter Wireless Signal Control External Temperature External Control Interfac DVM Plus Controls (no Filter Box (includes 1" Supplemental	Simplified Touch Controller  Wireless Signal Receiver  Wireless Controller  Sensor  trol  ce 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
Optional Accessories	Wi-Fi Adapter Wireless Signal Control External Temperature External Control Interfac DVM Plus Controls (no Filter Box (includes 1" Supplemental Electric Heat Kits Wall Bracket (for outd	Simplified Touch Controller  Wireless Signal Receiver Wireless Controller Sensor trol the Module for Connection to the Module for Co	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14 MIM-N01 VFB-1 VHK-103A VHK-105A CKN-250 WBMF-9/12/18
•	Wi-Fi Adapter Wireless Signal Control External Temperature External Control Interfact DVM Plus Controls (not Filter Box (includes 1" Supplemental Electric Heat Kits Wall Bracket (for outd)	Simplified Touch Controller  Wireless Signal Receiver Wireless Controller Sensor trol the Module for Connection to on-NASA) MERV 8 filter) 3kW 5kW coor unit) Front Back	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14 MIM-N01 VFB-1 VHK-103A VHK-105A CKN-250 WBMF-9/12/18 WBMB-9/12/18/36
	Wi-Fi Adapter Wireless Signal Control External Temperature External Control Interfac DVM Plus Controls (no Filter Box (includes 1" Supplemental Electric Heat Kits Wall Bracket (for outd Wind Baffles Line Sets - insulated a	Simplified Touch Controller  Wireless Signal Receiver Wireless Controller Sensor trol the Module for Connection to the Module for Co	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14 MIM-N01  VFB-1 VHK-103A VHK-105A CKN-250 WBMF-9/12/18 WBMB-9/12/18/36 25' - ILS2507
	Wi-Fi Adapter Wireless Signal Control External Temperature External Control Interfact DVM Plus Controls (not Filter Box (includes 1" Supplemental Electric Heat Kits Wall Bracket (for outd)	Simplified Touch Controller  Wireless Signal Receiver Wireless Controller Sensor trol the Module for Connection to on-NASA) MERV 8 filter) 3kW 5kW coor unit) Front Back	MIM-H03UN MRK-A10N MR-EH00U MRW-TA MIM-B14 MIM-N01 VFB-1 VHK-103A VHK-105A CKN-250 WBMF-9/12/18 WBMB-9/12/18/36





#### **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.
- $\bullet$  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)

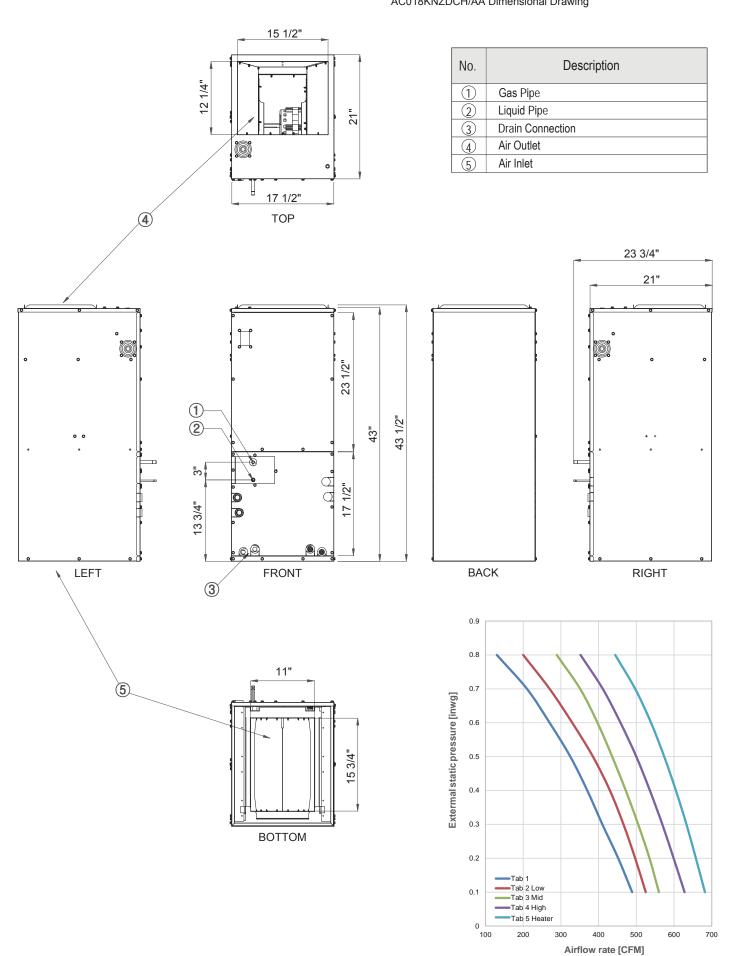
Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB. Nominal heating capacities are based on: Indoor temperature: 70°F DB, 60°F WB. Outdoor temperature: 47°F DB, 43°F WB.



# SUBMITTAL AC018KNZDCH/AA

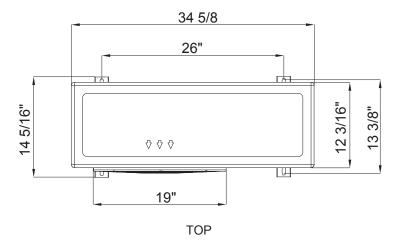
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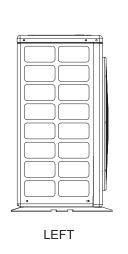
Samsung Multi-position Air Handler, Single Zone, Split System AC018KNZDCH/AA Dimensional Drawing

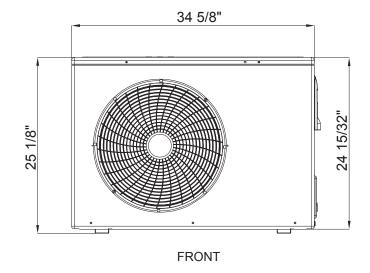


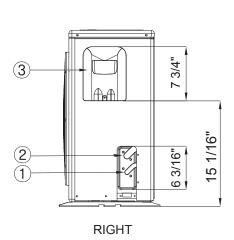
888-699-6067 www.SamsungHVAC.com

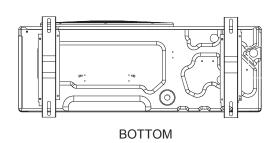
Samsung Multi-position Air Handler, Single Zone, Split System AC018JXADCH/AA Dimensional Drawing











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

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