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

o		
ation		
	Specifications	
		AC018KNZDCH/AA (CNH18ZDF AC018BXADCH/AA (CXH18ADE
Nominal Capacity	Cooling / Heating (Btu/h)	18,000 / 20,000
		5,000 - 22,000
Capacity Range	Heating (Btu/h)	5,000 - 29,000
SEER / EER		19.2 / 12.0
COP (nominal heating)		3.10
		10.0
AHRI Certification I	Number	207598067
Voltage	ø / V / Hz	1 / 208-230 / 60
Working Voltage Ra	ange (VAC)	176 - 254 (max. 3% deviation from each
Operating Current	Cooling (A)	3.0 / 6.9 / 11.5
(min. / std. / max.)	Heating (A)	2.6 / 8.6 / 20.0
Max. Breaker	Amps	25
Min. Circuit Ampac	ity (A)	18.7
WXHXD	Indoor Unit	17 1/2 X 43 X 21
(in.)	Outdoor Unit	34 5/8 X 31 7/16 X 12 1/4
Duct Connections	Supply (in.)	12 1/4 X 15 1/2
(W X H)	Return (ID, in.)	17 1/2 X 21
Weight	Indoor Unit	98.1
(lbs.)	Outdoor Unit	118.4
Indoor Unit dB(A)	I /M/H	22 / 25 / 20
. ,		32 / 35 / 38 48 / 48
Odladoli Offit dB(A)	Cooling / Heating (High)	
Outdoor	Cooling	23 ~ 122°F (-5 ~ 50°C)
	_	0 ~ 122°F (-18 ~ 50°C) w/ baff
		-13 ~ 75°F (-25 ~ 24°C)
Indoor		61 ~ 90°F (16 ~ 32°C)
	Heating	T ≤ 80°F (27°C)
Indoor & Outdoor	High side (braze / flare)	1/4"
	Low side (braze / flare)	1/2"
. ,		164
		98.4
Condensate Connec	tion (with included adapter)	1 1/16" ID for 3/4" PVC
Туре		R410A
Control Method		Electronic Expansion Valve
Factory Charge	lbs.	4.41
		24.6 ft
Additional Refrigera	ant	0.11 oz/ft over 24.6 ft
Manufacturer		Samsung
Туре		Inverter Driven, Twin BLDC Rot
RLA	Amps	12.7
		Double inlet forward arms
Туре		Double-inlet, forward curve, centrifugal (with ECM motor
Air Volumo	CEM (L/M/H)	494 / 530 / 600 (at standard ESF
		290 W / .72 A
, , , ,	<del></del>	
Static Pressure		0.20 0.01 - 0.79
	( 110)	
Motor		BLDC With Axial Type Fan (1
FLA / Watts / CFM	(max.)	1.25 A / 125 W / 2,154 CFM
Certifications ETL (UL 1995)		
Devices: PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage		
protection, crankcase heating, temperature limit protection logic, compressor overload sensing		
	Indoor Unit Model Noutdoor Unit Model Nominal Capacity Capacity Range SEER / EER COP (nominal heat HSPF AHRI Certification I Voltage Working Voltage Ri Operating Current (min. / std. / max.) Max. Breaker Min. Circuit Ampac W X H X D (in.) Duct Connections (W X H) Weight (libs.) Indoor Unit dB(A) Outdoor Unit dB(A) Outdoor Indoor  Indoor Voltage Control Method Factory Charge Charged for Additional Refrigera Manufacturer Type RLA  Type Air Volume Output (W) / FLA (A) Static Pressure  Motor FLA / Watts / CFM Certifications Devices: PCB fuses, in	Specifications

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.

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





### **General Information**

- The outdoor unit shall supply power to indoor unit via 14 AWG X 3 power wire
- High-voltage terminal block temperature sensor to disable unit in the event of power connection overheating
- Auto-restart after power loss
- Soft-start compressor minimizing current inrush
- All heat exchangers shall be mechanically bonded aluminum fin to copper tube
- The condensing unit heat exchanger salt spray test method: ISO-9227- the heat exchanger showed no unusual rust or corrosion development to 3,000 hours.
- Base pan heater equipped as standard
- System shall provide 100% heating capacity at -4°F(-20°C)

# **Option settings**

- The outdoor unit shall have snow accumulation prevention option setting to prevent snow drifting against an idle outdoor unit.
- Night-time Quiet Mode: reduction of operational sound during (automatic or manual activation).
- System can be set up as heating/cooling, cooling only, or heating only via outdoor unit option setting.
- Maximum Current Control configurable from 50% 100% via outdoor unit, wired controller, or central controller

#### Indoor Fan

- Indoor fan is a double Inlet, forward curve, centrifugal type
- Three fan speed settings and auto setting
- Field configurable for downflow operation with optional conversion kit

#### Construction

- Outdoor unit shall be galvanized steel with a baked-on powder coated finish for durability
- Indoor Unit: Insulated, galvanized steel.

#### Controls

- Control wiring shall be 2 X 16 AWG
- No additional interface modules/adapters are required when connecting to Samsung central control options.
- The unit shall be operated via a wireless or wired remote control with DDC type signal
- Dual set temperature support when connected to MWR-WG00UN Advanced Wired Controller or central control options.
- Wired or wireless controllers must be purchased separately

## Refrigerant System

- The compressor shall be hermetically sealed, inverter-controlled BLDC rotary type.
- Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit

#### Warranty

10 Years compressor, 10 years parts, 1 year limited labor when registered



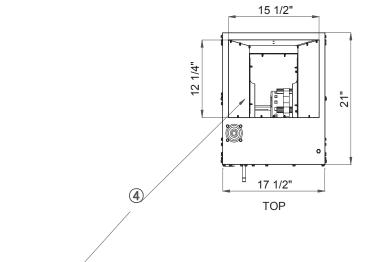
SUBMITTAL AC018KNZDCH/AA / AC018BXADCH/AA (CNH18ZDK / CXH18ADB) Samsung Multi-Position Air Handler, Single Zone Duct, Split System

# **Optional Accessories**

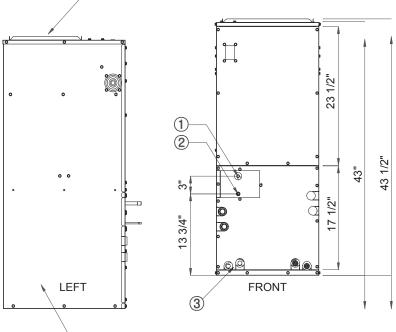
Wired Controller	Advanced	MWR-WG00UN
wirea Controller	Touchscreen	MWR-SH11UN
Thermostat Adaptor (for co	onnection to a standard 24VAC thermostat)	MIM-A60UN
Wireless Signal	Wireless Signal Receiver	MRK-A10N
Control	Wireless Controller	AR-EH04U
Wi-Fi Adapter		MIM-H05UN
External Temperature Sensor		MRW-TA
Filter Base (includes 1" MERV 8 filter)		VFB-1
External Contact Control		MIM-B14
Wall Bracket (for outdoor unit)		CKN-250
Wind Baffles	Front	WBF-7M
Willia Ballics	Back	WBB-7M-B
Hail Guard		TBD
Line Sets - insulated and flared, interconnect cables included		25' - ILS-2507
		50' - ILS-5007
Supplemental Electric Heat Kit		VHK-103A (3 kW)
		VHK-105A (5 kW)
Downflow Conversion Kit		VDK-1

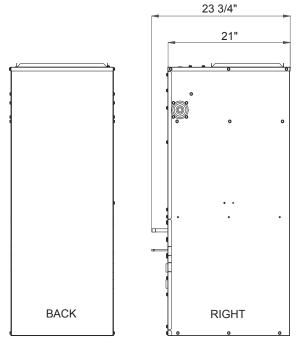
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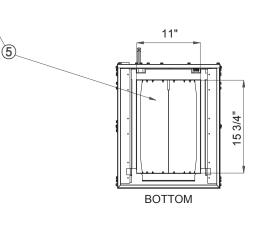
Samsung Multi-Position Air Handler, Single Zone, Split System AC018KNZDCH/AA Dimensional Drawing

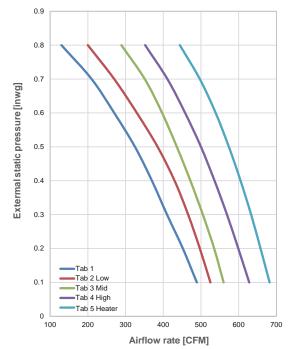


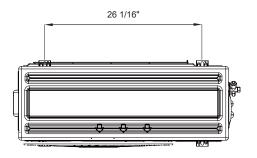
No.	Description	
1	Gas Pipe	*Brazed Connection
2	Liquid Pipe	*Brazed Connection
3	Drain Connection	
4	Air Outlet	
5	Air Inlet	



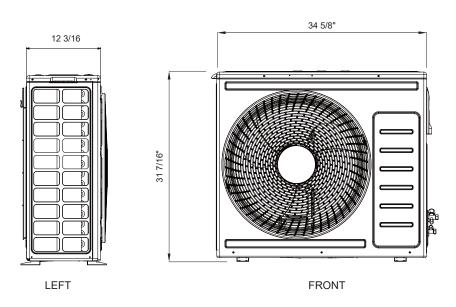


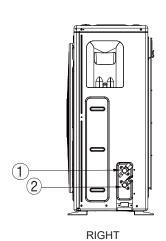


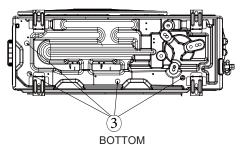




TOP







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No.	Name	Description	
1	Refrigerant liquid pipe	Ø 1/4	
2	Refrigerant gas pipe	Ø 1/2	
3	Drain hole	Connect with provided drain plug	