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

Purchaser				
Submitted to	o			
Unit Design	ation			
		Specifications		
	Indoor Unit Model N		AC018KNZDCH/AA (CNH18ZDK	
Model	Outdoor Unit Model	Number (US Code)	AC018BXADCH/AA (CXH18ADE	
	Nominal Capacity	Cooling / Heating (Btu/h)	18,000 / 20,000	
	Capacity Range	Cooling (Btu/h)	5,000 - 22,000	
	Capacity Narige	Heating (Btu/h)	5,000 - 29,000	
Performance 1	SEER / EER		19.2 / 12.0	
	COP (nominal heating)		3.10	
	HSPF		10.0	
	AHRI Certification Number		207598067	
	Voltage	ø / V / Hz	1 / 208-230 / 60	
	Working Voltage Ra	ange (VAC)	176 - 254 (max. 3% deviation from each	
Power	Operating Current	Cooling (A)	3.0 / 6.9 / 11.5	
rowei	(min. / std. / max.)	Heating (A)	2.6 / 8.6 / 20.0	
	Max. Breaker	Amps	25	
	Min. Circuit Ampaci	ty (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	
Dimensions	(W X H)	Return (ID, in.)	17 1/2 X 21	
	Weight	Indoor Unit	98.1	
	(lbs.)	Outdoor Unit	118.4	
Sound Pressure				
	Indoor Unit dB(A) Outdoor Unit dB(A)	L/M/H	32 / 35 / 38	
Level	Outdoor Unit dB(A)	Cooling / Heating (high)	48 / 48	
	Outdoor	Cooling	23 ~ 122°F (-5 ~ 50°C)	
Oneration			0 ~ 122°F (-18 ~ 50°C) w/ baffle	
Operating		Heating	-4 ~ 75°F (-20 ~ 24°C)	
Temperatures	Indoor	Cooling	61 ~ 90°F (16 ~ 32°C)	
	macci.	Heating	T ≤ 80°F (27°C)	
	Indoor 9 Outdoor	High side (flare)	1/4"	
	Indoor & Outdoor	Low side (flare)	1/2"	
Pipe Connections	Maximum (ft.)		164	
	Maximum Vertical Separation (ft.)		98.4	
	Condensate Connection (with included adapter)		1 1/16" ID for 3/4" PVC	
	Type		R410A	
	Control Method		Electronic Expansion Valve	
Refrigerant	Factory Charge Ibs.		2.6	
3	Charged for	·	24.6 ft	
	Additional Refrigerant		0.11 oz/ft over 24.6 ft	
	Manufacturer			
Compressor	Туре		Samsung Inverter Driven, Twin BLDC Rotar	
Compressor	RLA	Amps	12.7	
	INEA	Апрэ	12.7	
	Туре		Double-inlet, forward curve,	
			centrifugal (with ECM motor)	
Evaporator Fan	Air Volume	CFM (L/M/H)	495 / 530 / 600 (at standard ESP)	
	Output (W) / FLA (A		290 W / .72 A	
	Static Pressure	Standard ("WC)	0.20	
]	Min. / Max. ("WC)	0.01 - 0.79	
	Motor		BLDC With Axial Type Fan (1	
Condenser Fan	FLA / Watts / CFM	(max.)	1.25 A / 125 W / 2,154 CFM	
		,	,	
Safaty	Certifications ETL (UL 1995)			
Safety	Devices: PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage			

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.

protection, crankcase heating, temperature limit protection logic, compressor overload sensing

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: ASTM-Bi17-18 the heat exchanger showed no unusual rust or corrosion development to 2,280 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

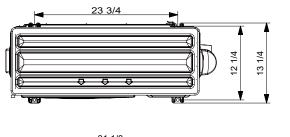
Optional Accessories

-			
Wired Controller	Advanced	MWR-WG00UN	
	Touchscreen	MWR-SH11UN	
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		MIM-A60UN	
Wireless Signal	Wireless Signal Receiver	MRK-A10N	
Control	Wireless Controller	AR-EH04U	
Wi-Fi Adapter		MIM-H04UN	
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	
	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	

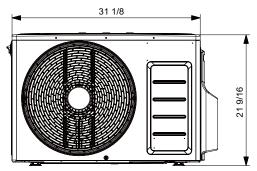
SAMSUNG SUBMITTAL AC018KNZDCH/AA / AC018BXADCH/AA (CNH18ZDK / CXH18ADB) Page 3 of 4 Samsung Multi-Position Air Handler, Single Zone, Split System AC018KNZDCH/AA Dimensional Drawing 15 1/2" Description No. 12 1/4" Gas Pipe (1)2 Liquid Pipe 21" **Drain Connection** 3 4 Air Outlet Air Inlet (5) 17 1/2" TOP 23 3/4" 21" 1 43 1/2" 43" 13 3/4" **FRONT** BACK LEFT **RIGHT** 3 0.9 0.8 11" 0.7 Extermal static pressure [inwg] 0.6 15 3/4" 0.5 0.4 воттом 0.3 0.2 ■Tab 2 Low ■Tab 3 Mid 0.1 Tab 4 High Tab 5 Heater 0 <u></u> 200 400 600 700 Airflow rate [CFM]

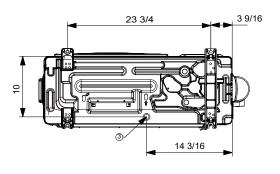
SAMSUNG

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

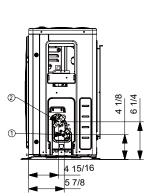


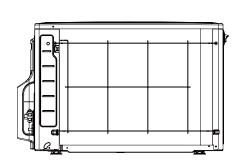












No.	Name	Description
1	Refrigerant liquid pipe	Ø 1/4
2	Refrigerant gas pipe	Ø 3/8
3	Drain hole	Connect with provided drain plug