

Job Name

Purchaser

Submitted to

Unit Designation

Location

Engineer

Reference

Approval

Construction

Schedule #

Specifications			
Model	Indoor Unit Model Number (US Code)		AC030KNZDCH/AA (CNH30ZDK)
	Outdoor Unit Model Number (US Code)		AC030JXADCH/AA (CXH30ADJ)
Performance	Nominal Capacity ¹	Cooling / Heating (Btu/h)	30,000 / 32,000
	Capacity Range	Cooling (Btu/h)	10,000 - 33,000
		Heating (Btu/h)	9,000 - 36,000
	SEER / EER		19.6 / 10.5
	COP (nominal heating)		3.33
	HSPF		10.4
	AHRI Certification Number		8950561
Power (without optional heat kits)	Voltage		ø / V / Hz
	Working Voltage Range (VAC)		176 - 254 (max. 3% deviation from each)
	Operating Current (min. / std. / max.)	Cooling (A)	4.5 / 13.0 / 17.2
		Heating (A)	4.1 / 12.3 / 20.2
	Max. Breaker		Amps
	Min. Circuit Ampacity (A)		35
			21.7
Dimensions	W X H X D (in.)	Indoor Unit	21 X 48 X 21
		Outdoor Unit	37 X 39 11/16 X 13
	Weight (lbs.)	Indoor Unit	123.5
		Outdoor Unit	154.8
Sound Pressure Level	Indoor Unit dB(A)	L / M / H	35 / 38 / 41
	Outdoor Unit dB(A)	Cooling / Heating (high)	50 / 52
Operating Temperatures °F(°C)	Outdoor	Cooling	23 ~ 115°F (-5 ~ 46°C)
		Heating	0 ~ 115°F (-18 ~ 46°C) W/Baffle
	Indoor	Cooling	-4 ~ 75°F (-20 ~ 24°C)
		Heating	61 ~ 90°F (16 ~ 32°C)
Pipe Connections	Indoor & Outdoor	High side (flare)	3/8"
		Low side (flare)	5/8"
	Maximum (ft.)		164
	Maximum Vertical Separation (ft.)		98
Refrigerant	Factory Charge		oz.
	Charged for		91.71
	Additional Refrigerant		25 ft
Compressor	Type		Inverter Driven, Twin BLDC Rotary
	RLA		A
Evaporator Fan	Type		Double-inlet, forward curve, centrifugal (with ECM motor)
	Air Volume	CFM (L/M/H)	848 / 918 / 1,007 (at standard ESP)
		Total CFM Range ²	419 - 1,314
	HP		1/2
	Motor Amps		A
	External Static Pressure ("WC)		0.24
Condenser Fan	Motor		BLDC With Axial Type Fan (1)
	FLA / Watts / CFM (max.)		0.48 A / 125 W / 2,200 CFM
Safety	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		



- 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

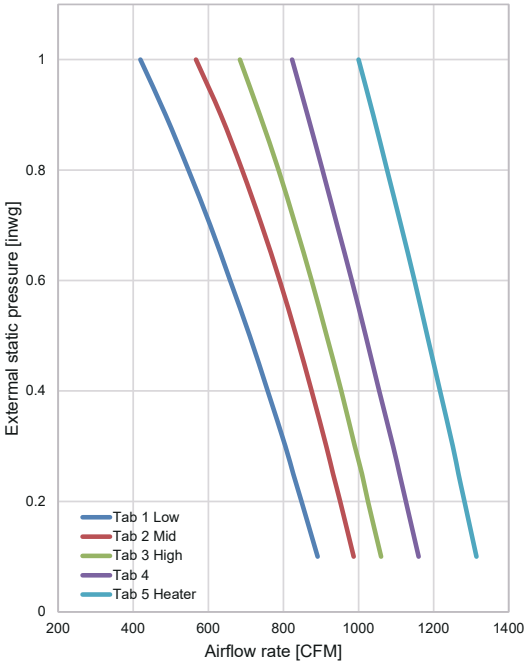
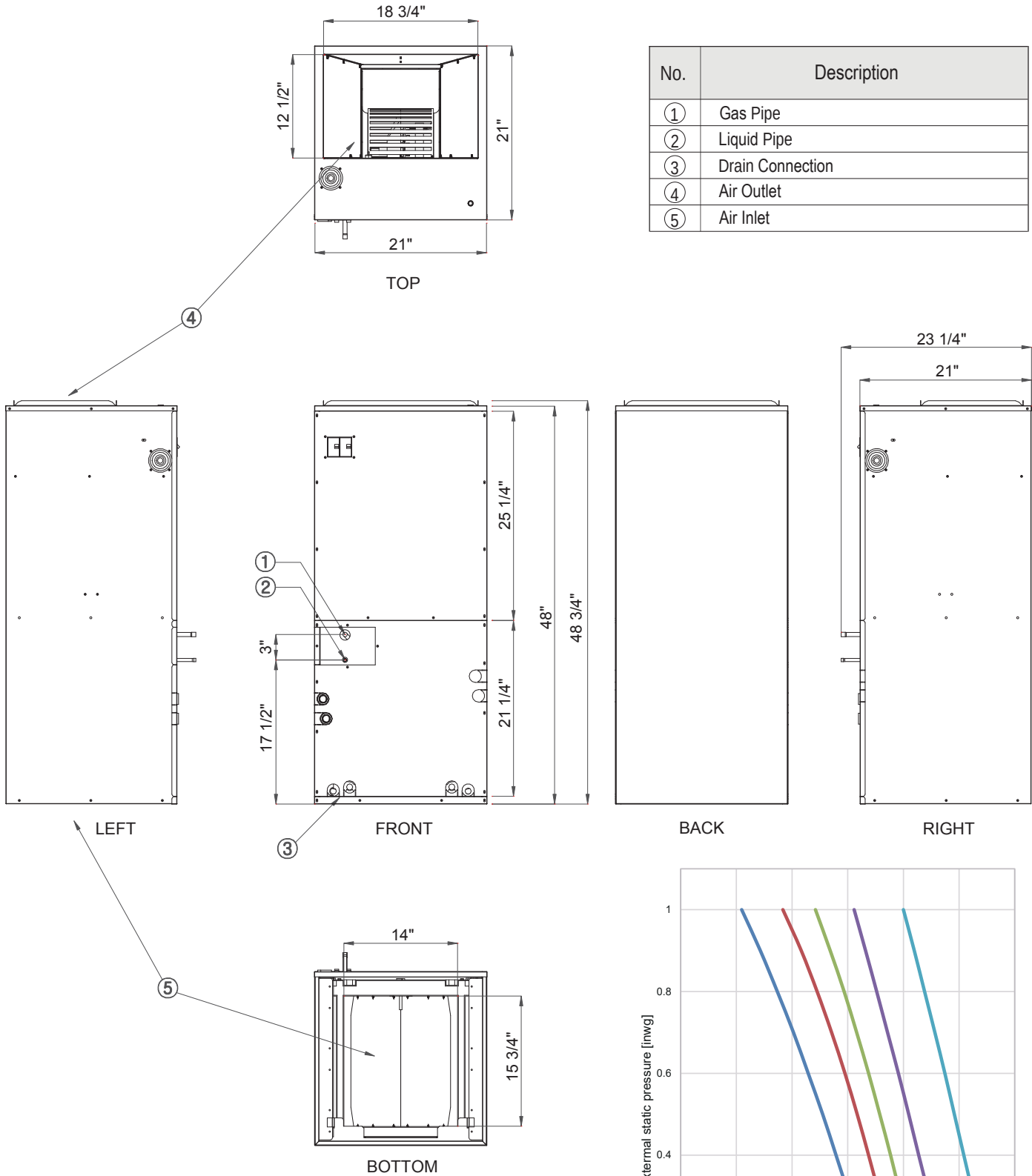
- No additional interface modules/adapters are required when connecting to Samsung NASA DVM S central controllers.
- Refrigerant System
- The refrigerant type shall be R410A
- The compressor shall be hermetically sealed, inverter controlled, twin BLDC Rotary made by Samsung
- Refrigerant flow shall be controlled by an electronic expansion valve at outdoor unit
- Soft-start to reduce current demand during compressor start

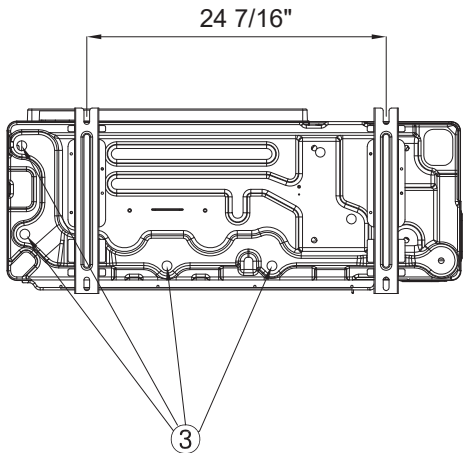
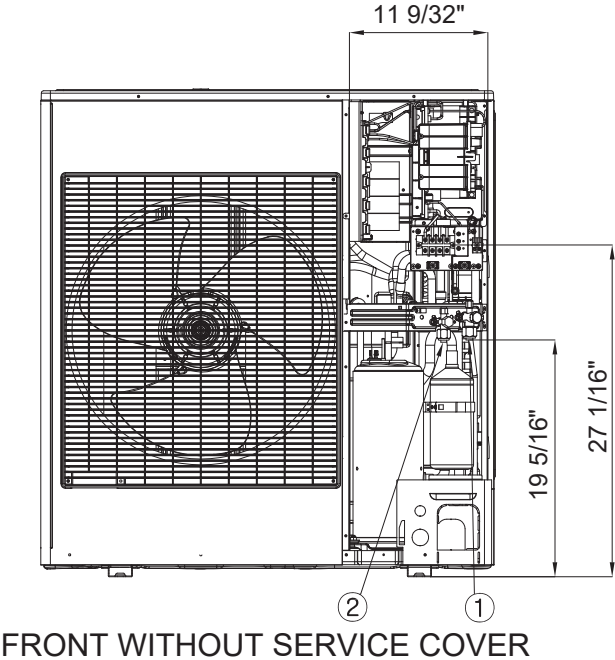
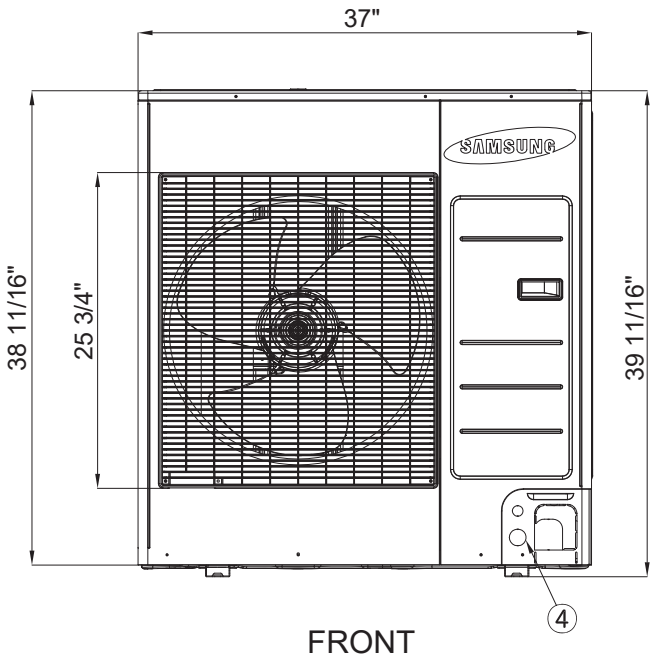
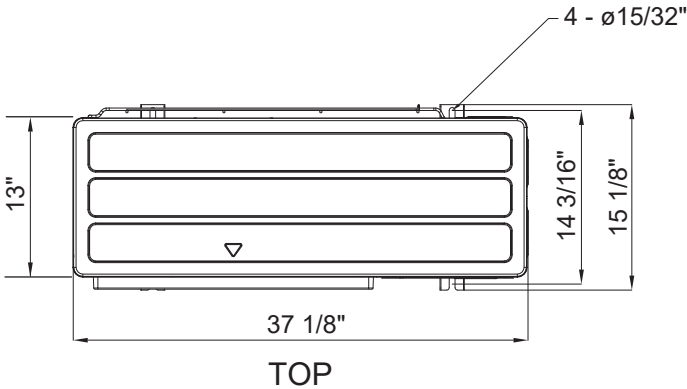
- Warranty
- 10 Years compressor, 10 years parts, 1 year limited labor when registered (conditions apply)

Optional Accessories

Wired Controller	Advanced Wired Controller	☐	MWR-WG00UN
	Simplified Touch Controller	☐	MWR-SH11UN
Wi-Fi Adapter		☐	MIM-H04UN
Wireless Signal Control	Wireless Signal Receiver	☐	MRK-A10N
	Wireless Controller	☐	AR-EH03U
External Temperature Sensor		☐	MRW-TA
External Contact Control		☐	MIM-B14
Filter Box (includes 1" MERV 8 filter)		☐	VFB-2
Supplemental Electric Heat Kits	5kW	☐	VHK-205A
	10kW	☐	VHK-210A
Wall Bracket (for outdoor unit)		☐	CKN-250
Wind Baffles	Front	☐	WBF-2M-B
	Back	☐	WBB-3M
Line Sets - insulated and flared, interconnect cables included			☐ 25' - ILS2510
			☐ 50' - ILS5010
Downflow Conversion Kit		☐	VDK-2
Thermostat Adaptor (for connection to a standard 24VAC thermostat)		☐	MIM-A60UN

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





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