SAMSUNG

Specifications

Cooling (Btu/h)

Heating (Btu/h)

ø / V / Hz

Cooling (A)

Heating (A)

Indoor Unit

Outdoor Unit

Indoor Unit

Outdoor Unit

Cooling / Heating (high)

L/M/H

Cooling

Heating

Cooling

Heating

oz.

А

CFM (L/M/H)

Standard

Min / Max

Simplified

Central Control Interface Module for Connection to

3kW

5kW

Front

Back

Line Sets - insulated and flared, interconnect

Premium w/scheduling

Wireless Controller

Simplified Touch Controller

Wireless Signal Receiver

Total CFM Range

High side (flare)

Low side (flare)

Amps

Cooling / Heating (Btu/h)

ndoor Unit Model Numbe

Nominal Capacity

COP (nominal heating)

AHRI Certification Number

Working Voltage Range (VAC)

Condensate (pints/hour)

Min. Circuit Ampacity (A)

Operating Current

(min. / std. / max.)

Max. Breaker

Indoor Unit dB(A)

Outdoor Unit dB(A)

Indoor & Outdoor

Maximum Vertical Separation (ft.)

Condensate Connection

Additional Refrigerant

Maximum (ft.)

Factory Charge

Charged for

Туре

RLA

Туре

HP

Moto

Air Volume

Motor Amps

External Static

Pressure ("WC)

Wired Controller

Wi-Fi Adapter

Control

Wireless Signal

Supplemental

Wind Baffles

cables included

Certifications

Electric Heat Kits

FLA / Watts / CFM (max.)

External Temperature Sensor

DVM Plus Controls (non-NASA)

Wall Bracket (for outdoor unit)

Filter Box (includes 1" MERV 8 filter)

External Contact Control

WXHXD

(inches)

Weight

Outdoor

Indoor

(lbs.)

Capacity Range

SEER / EER

HSPF

Voltage

Outdoor Unit Model Number

Page 1 of 3 SUBMITTAL AC024KNZDCH/AA

Samsung Multi-position Air Handler, Single Zone, Split System

Approval

Purchaser

Model

Performance

Power

heat kits)

Dimensions

Level

Operating

Sound Pressure

Temperatures (⁰F)

Pipe Connections

Refrigerant

Compressor

Evaporator Fan

Condenser Fan

Optional

Safety

Accessories

(without optional

Submitted to

Unit Designation

Location Engineer

Reference

AC024KNZDCH/AA

AC024JXADCH/AA

24,000 / 27,000

7,000 - 27,000

6,700 - 29,000

19.5 / 11.00

10.23

11.5

8950560

6.13

1 / 208-230 / 60

176 - 254 (max, 3% deviation from each)

3.8 / 9.8 / 12.0

3.6 / 11.6 / 12.8

20

13.58

17 1/2 X 43 X 21

37 X 39 11/16 X 13

98.1

142.2

35 / 38 / 41

50 / 50

23 ≤ T ≤ 115

 $0 \le T \le 115$ W/Baffle

-4 ≤ T ≤ 76

61 ≤ T ≤ 90

T ≤ 80

1/4

5/8'

164

98

3/4" FNPT

74.08

25 feet

0.11 oz./ft. over 25 feet

Inverter Driven, Twin BLDC Rotary

9.0

Double-inlet, forward curve,

centrifugal (with ECM motor)

547 / 636 / 760 (at standard ESP)

262 - 888

1/3

0.72

0.2

0/08

BLDC With Axial Type Fan (1)

0.48 A / 125 W / 2,190 CFM MWR-SH00N

MWR-WE10N

MWR-SH10N

MIM-H03UN

MRK-A10N

MR-EH00U

MRW-TA

MIM-B14

MIM-N01

VHK-103A

VHK-105A

25' - ILS2509

50' - ILS5009

ETL, ETLC

CKN-250

WBF-1

WBB-3

VFB-1

Schedule #

Construction



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.

. 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 (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.

• 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 constanttorque (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 Refer to installation manual for full fan curve details

Devices: PCB fuses, indoor unit terminal block thermal fuse, current transformer, over-voltage

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



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SUBMITTAL AC024KNZDCH/AA

Samsung Multi-position Air Handler, Single Zone, Split System AC024KNZDCH/AA Dimensional Drawing

21"

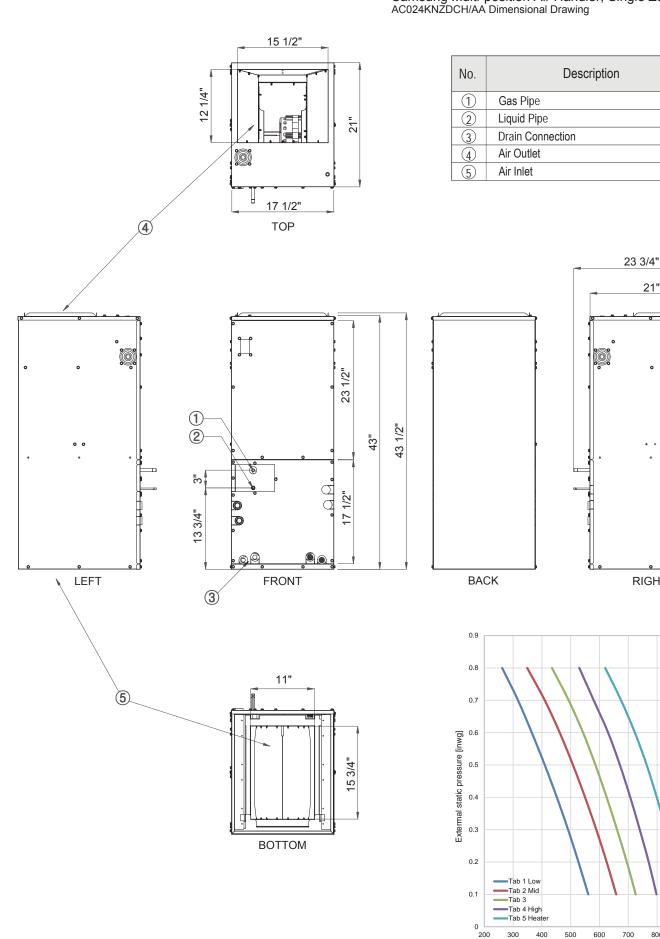
RIGHT

800

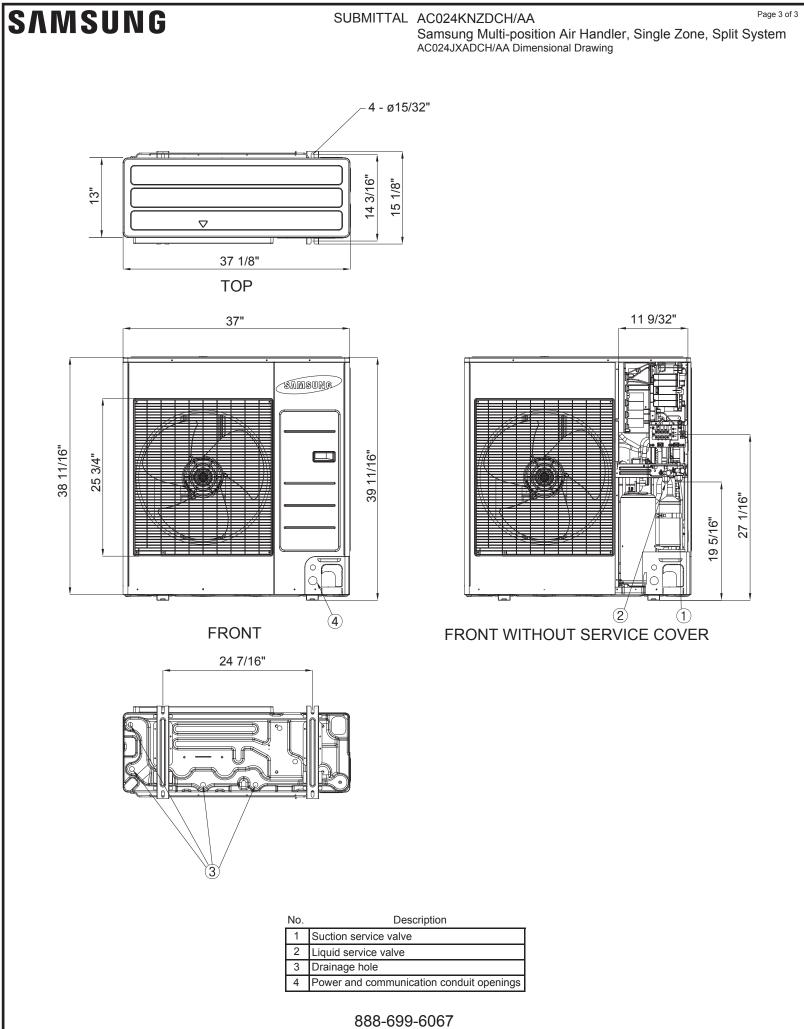
Airflow rate [CFM]

900

Page 2 of 3



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