# SUBMITTAL AM009KN4DCH/AA Samsung DVM S Series, 360 Cassette

Page 1 of 3

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

9,000



wn with PC4NUNMUN (open type panel)

vn with PC4NUDMUN (ceiling type panel)

### **General Information**

- The indoor unit shall be compatible with Samsung DVM S and DVM Eco systems (AM\*\*\*\*X\*\*\*\*\*AA).
- The indoor unit shall be a round ceiling cassette with 360°, even air distribution
- Auto-restart after power loss
- The indoor unit 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.
- · Electro-static, washable, pleated filter as standard (included with fascia panel).
- Built in condensate pump with maximum 29" lift from the bottom of the unit, check valve, and float switch that disables indoor unit during overflow detection
- · Knock-out for outside air capability (with booster fan connection)
- · Fascia panel shall have LED indicator lights and an infrared receiver
- The indoor unit shall have two (2) fascia panel types:
   Ceiling Type for installation applications where a ceiling textile is present (ex. tile ceiling, gypsum). The Ceiling Type fascia panel shall be square in shape.
  - 2. Open Type for installation applications where a ceiling textile is not present (ex. open ceiling). The Open Type fascia panel shall be circular in shape.
- The indoor unit shall not have air louvers or blades allowing full airflow without restriction. Air direction control shall be achieved by creating a low pressure area near air outlet causing discharge air to change direction angle.
- Fixed or auto-swing air direction shall be possible with wireless, touch, or premium wired controller (10° ~ 60° angle)
- · Independent air distribution control shall be possible with wireless or premium wired controller (three directions, 10° ~ 60° angle)

### Construction

The indoor unit shall be have a galvanized steel frame with HIPS chassis and fascia panel certified to UL94 V0.

The indoor unit heat exchanger shall be mechanically bonded aluminum fin to copper tube

Control signal shall be a DDC type signal

The unit shall integrate with the Samsung NASA Controls Network Solution

Controls shall integrate with a BMS system

Control wiring shall be 2 X 16 AWG shielded wire

The indoor unit shall have a 12VDC output that is interlocked with fan to activate external devices (fan ON = 12VDC ON, fan OFF = 12VDC OFF, pigtail adapter plug required)

Wired or wireless controls must be purchased separately

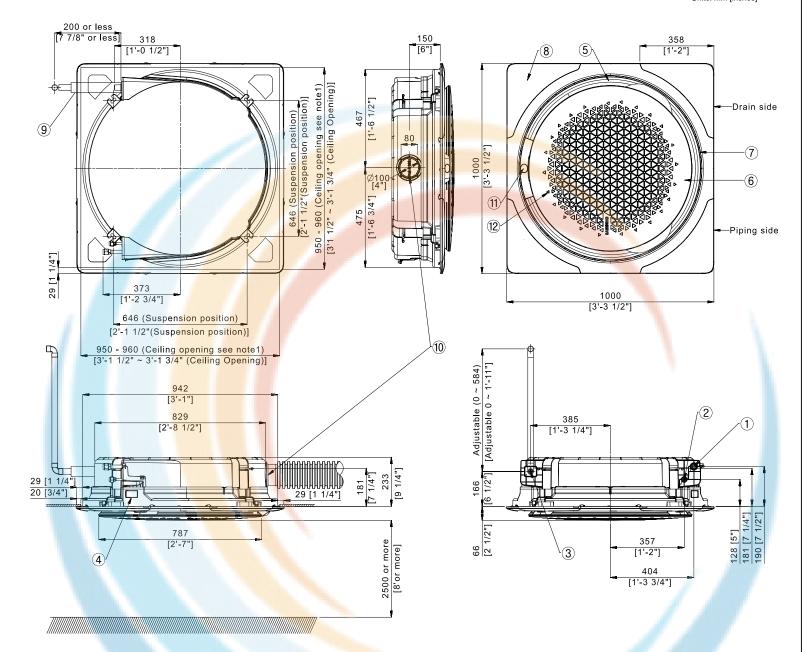
	Nominal Capacity	Cooling (Btu/n)	9,000	
Performance	Heating (Btu/h)		10,000	
	Condensate (pints/hour)		6.80	
	Voltage ø / V / Hz		1 / 208-230 / 60	
Power	Nominal Running C	Current (A)	0.18	
rowei	MCA		0.4	
	MOP		15	
Dimensions	WXHXD	Inches	37 1/4 X 11 1/16 X 37 1/4	
Diffictisions	Weight	lbs.	46.3	
Sound Level	H/M/L	dB(a)	33 / 31 / 29	
D:	Liquid (flare)	Inches	1/4	
Pipe Connections	Suction (flare)	Inches	1/2	
	Condensate Conne	ection	1 1/4" OD, 1" ID	
Defrigerent	Туре		R410A	
Refrigerant	Control Method		Electronic Expansion Valve	
	Туре		BLDC (1) With Turbo Type Fan (1)	
Evaporator Fan	Air Volume	CFM (H/M/L)	565 / 530 / 495	
ı alı	FLA	Amps	0.33	
	Ceiling Type	L X W X H (inches)	39 3/8 X 39 3/8 X 2 5/8	
Fascia Panel	(Square)	Weight (Ibs.)	7.94	
i asola i aliei	Open Type	Diameter X H (inches)	41 15/16 X 3 3/8	
	(Round)	Weight (lbs.)	5.95	
		Ceiling Type (square, white)	PC4NUDMUN	
	Fascia Panel	Ceiling Type (square, black)	PC4NBDMUN	
	rascia railei	Open Type (round, white)	PC4NUNMUN	
Accessories		Open Type (round, black)	PC4NBNMUN	
	External Temperature Sensor		MRW-TA	
	Wireless Controller		AR-KH03U	
	External Contact Control		MIM-B14	
	CN83 Pigtail (for 12VDC VENT output)		DB39-01263A	
Safety	Certifications		ETL (UL 1995)	

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

**Specifications** 

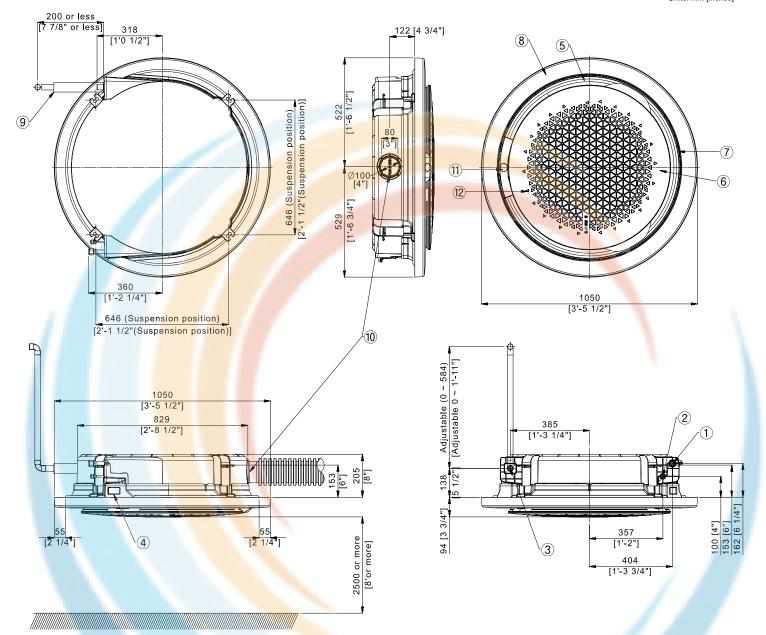
Cooling (Btu/h)





No.	Description
1	Refrigerant Gas Pipe
2	Refrigerant Liquid Pipe
3	Condensate drain
4	Power and wiring entry
5	Air discharge opening
6	Air suction grille

No.	Description
7	Suction rim for air direction booster fan
8	Decoration fascia panel
9	Drain hose
10	Fresh air knockout hole
11	Status display
12	Infrared receiver



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# SUBMITTAL AM012KN4DCH/AA Samsung DVM S Series, 360 Cassette

Page	1	of	

Job Name	Location			
Purchaser	Engineer			
Submitted to	Reference	Approval	Construction	
Jnit Designation	Schedule #			
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wn with PC4NUNMUN (open type panel)

wn with PC4NUDMUN (ceiling type panel)

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Control signal shall be a DDC type signal

The unit shall integrate with the Samsung NASA Controls Network Solution

Controls shall integrate with a BMS system

Control wiring shall be 2 X 16 AWG shielded wire

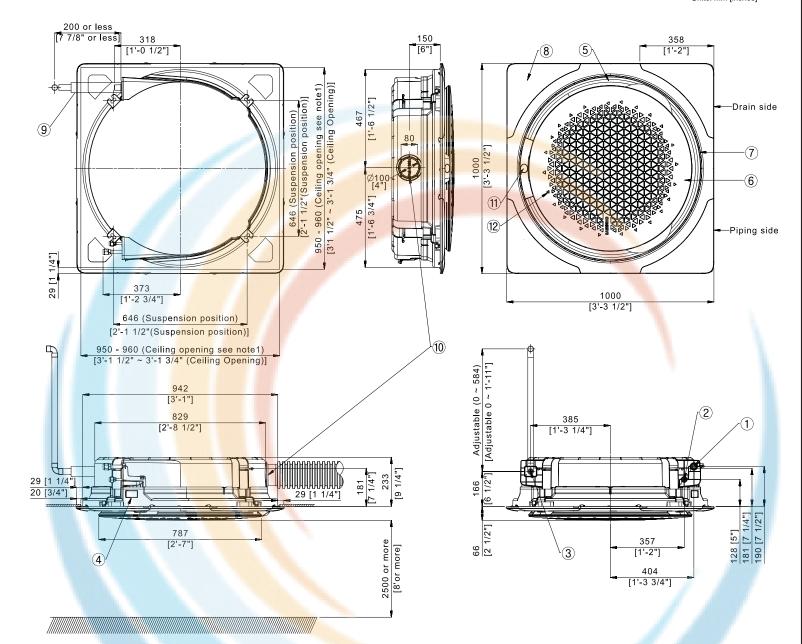
The indoor unit shall have a 12VDC output that is interlocked with fan to activate external devices (fan ON = 12VDC ON, fan OFF = 12VDC OFF, pigtail adapter plug required)

Wired or wireless controls must be purchased separately

	Nominal Capacity	Cooling (Btu/h)	12,000	
Performance	Norminal Capacity	Heating (Btu/h)	13,500	
	Condensate (pints/	hour)	7.20	
	Voltage	ø / V / Hz	1 / 208-230 / 60	
Power	Nominal Running C	Current (A)	0.18	
i owei	MCA		0.4	
	MOP		15	
Dimensions	WXHXD	Inches	37 1/4 X 11 1/16 X 37 1/4	
Difficitions	Weight	lbs.	46.3	
Sound Level	H/M/L	dB(a)	33 / 31 / 29	
Din	Liquid (flare)	Inches	1/4	
Pipe Connections	Suction (flare)	Inches	1/2	
Connections	Condensate Connection		1 1/4" OD, 1" ID	
Refrigerant	Туре		R410A	
Reingerani	Control Method		Electronic Expansion Valve	
<u> </u>	Туре		BLDC (1) With Turbo Type Fan (1)	
Evaporator Fan	Air Volume	CFM (H/M/L)	565 / 530 / 495	
r dir	FLA	Amps	0.33	
	Ceiling Type	L X W X H (inches)	39 3/8 X 39 3/8 X 2 5/8	
Fascia Panel	(Square)	Weight (Ibs.)	7.94	
i ascia i ariei	Open Type	Diameter X H (inches)	41 15/16 X 3 3/8	
	(Round)	Weight (lbs.)	5.95	
		Ceiling Type (square, white)	PC4NUDMUN	
	Fascia Panel	Ceiling Type (square, black)	PC4NBDMUN	
Accessories		Open Type (round, white)	PC4NUNMUN	
	Open Type (round, black)		PC4NBNMUN	
	External Temperature Sensor		MRW-TA	
	Wireless Controller		AR-KH03U	
	External Contact Control		MIM-B14	
	CN83 Pigtail (for 12VDC VENT output)		DB39-01263A	
Safety	Certifications		ETL (UL 1995)	

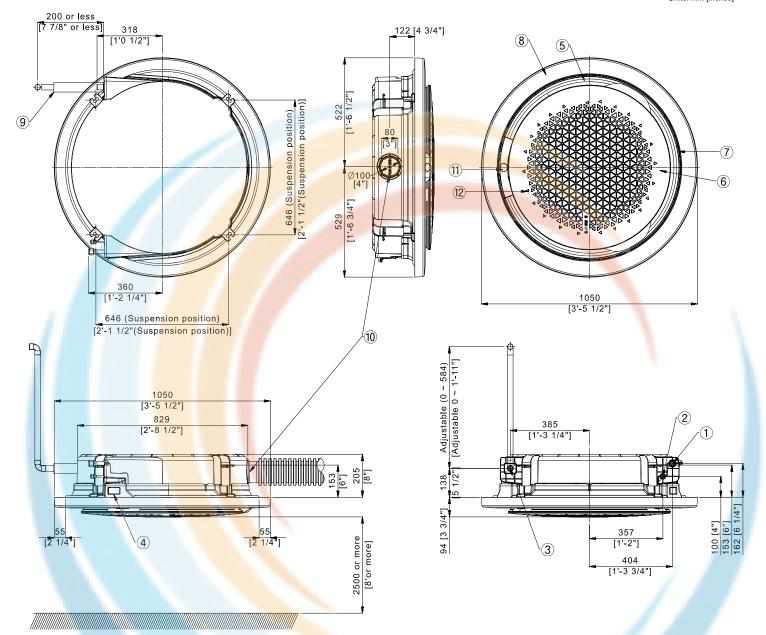


Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB. Nominal heating capacities are based on: Indoor temperature: 70 F DB, 60 F WB. Outdoor temperature: 47 F DB, 43 F WB



No.	Description
1	Refrigerant Gas Pipe
2	Refrigerant Liquid Pipe
3	Condensate drain
4	Power and wiring entry
5	Air discharge opening
6	Air suction grille

No.	Description
7	Suction rim for air direction booster fan
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11	Status display
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# SUBMITTAL AM018KN4DCH/AA Samsung DVM S Series, 360 Cassette

Page	1	of
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Location		
Engineer		
Reference	Approval	Construction
Schedule #		
	Engineer Reference	Engineer Approval



wn with PC4NUNMUN (open type panel)

wn with PC4NUDMUN (ceiling type panel)

### **General Information**

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### Construction

The indoor unit shall be have a galvanized steel frame with HIPS chassis and fascia panel certified to UL94 V0.

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Control signal shall be a DDC type signal

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Control wiring shall be 2 X 16 AWG shielded wire

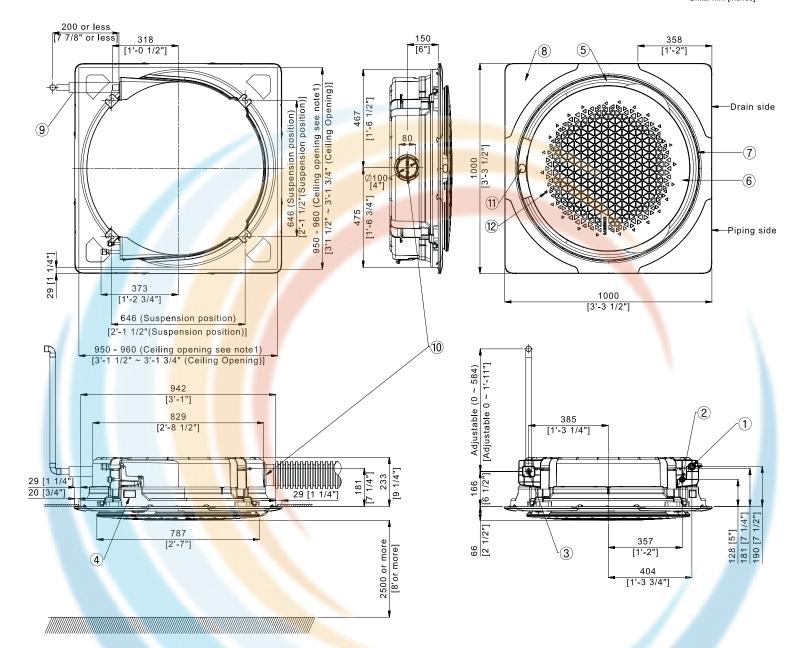
The indoor unit shall have a 12VDC output that is interlocked with fan to activate external devices (fan ON = 12VDC ON, fan OFF = 12VDC OFF, pigtail adapter plug required)

Wired or wireless controls must be purchased separately

Performance	Nominal Capacity	Cooling (Btu/h)	18,000
	Nominal Capacity	Heating (Btu/h)	20,000
	Condensate (pints/hour)		7.70
	Voltage	ø / V / Hz	1 / 208-230 / 60
Power	Nominal Running Current (A)		0.18
i owei	MCA		0.4
	MOP		15
Dimensions	WXHXD	Inches	37 1/4 X 11 1/16 X 37 1/4
Dimensions	Weight	lbs.	46.3
Sound Level	H/M/L	dB(a)	33 / 31 / 29
Dir.	Liquid (flare)	Inches	1/4
Pipe Connections	Suction (flare)	Inches	1/2
Commoduent	Condensate Conne	ection	1 1/4" OD, 1" ID
Refrigerant	Туре		R410A
Reingerani	Control Method		Electronic Expansion Valve
F	Туре		BLDC (1) With Turbo Type Fan (1)
Evaporator Fan	Air Volume	CFM (H/M/L)	565 / 530 / 495
	FLA	Amps	0.33
	Ceiling Type	L X W X H (inches)	39 3/8 X 39 3/8 X 2 5/8
Fascia Panel	(Square)	Weight (Ibs.)	7.94
ascia i anci	Open Type	Diameter X H (inches)	41 15/16 X 3 3/8
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	Fascia Panel	Ceiling Type (square, black)	PC4NBDMUN
		Open Type (round, white)	PC4NUNMUN
Accessories		Open Type (round, black)	PC4NBNMUN
Accessories	External Temperature Sensor		MRW-TA
	Wireless Controller		AR-KH03U
	External Contact C	ontrol	MIM-B14
	CN83 Pigtail (for 12	2VDC VENT output)	DB39-01263A
Safety	Certifications		ETL (UL 1995)

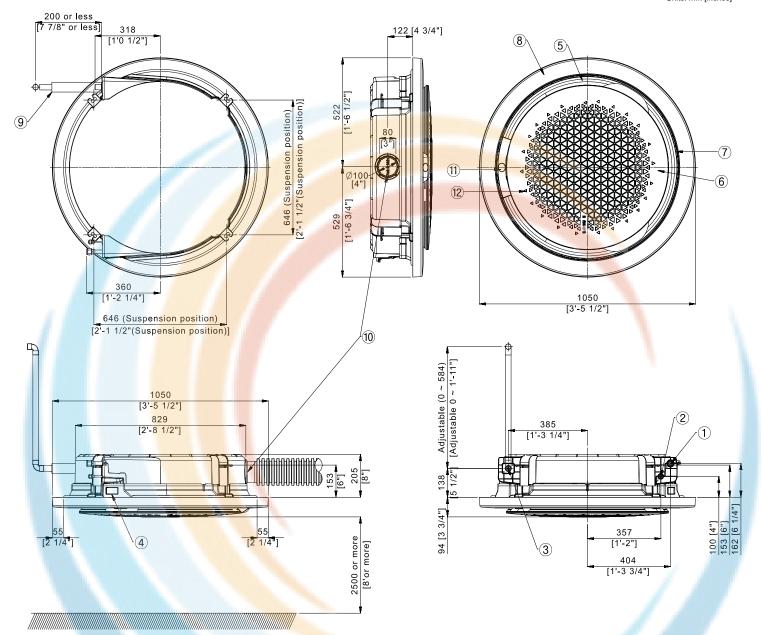


Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB. Nominal heating capacities are based on: Indoor temperature: 70 F DB, 60 F WB. Outdoor temperature: 47 F DB, 43 F WB



No.	Description
1	Refrigerant Gas Pipe
2	Refrigerant Liquid Pipe
3	Condensate drain
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5	Air discharge opening
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No.	Description
7	Suction rim for air direction booster fan
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9	Drain hose
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# SUBMITTAL AM024KN4DCH/AA Samsung DVM S Series, 360 Cassette

Page 1 of 3

Location			
Engineer			
Reference	Approval	Construction	
Schedule #			
	Engineer Reference	Engineer Approval	Engineer Approval Construction



wn with PC4NUNMUN (open type panel)

vn with PC4NUDMUN (ceiling type panel)

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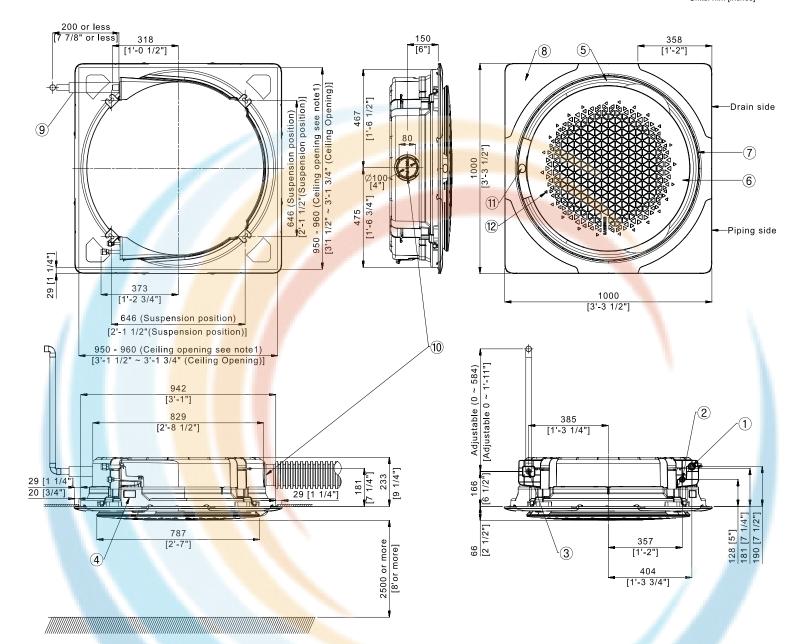
The indoor unit shall have a 12VDC output that is interlocked with fan to activate external devices (fan ON = 12VDC ON, fan OFF = 12VDC OFF, pigtail adapter plug required)

Wired or wireless controls must be purchased separately

Performance	Nominal Capacity	Cooling (Btu/h)	24,000
	Nominal Capacity	Heating (Btu/h)	27,000
	Condensate (pints/hour)		8.10
	Voltage	ø / V / Hz	1 / 208-230 / 60
Power	Nominal Running (	Current (A)	0.28
1 OWEI	MCA		0.4
	MOP		15
Dimensions	WXHXD	Inches	37 1/4 X 11 1/16 X 37 1/4
Dimensions	Weight	lbs.	46.3
Sound Level	H/M/L	dB(a)	38 / 35 / 32
ь.	Liquid (flare)	Inches	3/8
Pipe Connections	Suction (flare)	Inches	5/8
Connections	Condensate Conne	ection	1 1/4" OD, 1" ID
Defrigerent	Туре		R410A
Refrigerant	Control Method		Electronic Expansion Valve
_	Туре		BLDC (1) With Turbo Type Fan (1)
Evaporator Fan	Air Volume	CFM (H/M/L)	671 / 583 / 512
T dil	FLA	Amps	0.33
	Ceiling Type (Square) Open Type	L X W X H (inches)	39 3/8 X 39 3/8 X 2 5/8
Fascia Panel		Weight (Ibs.)	7.94
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Accessories	rascia railei	Open Type (round, white)	PC4NUNMUN
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	External Temperature Sensor		MRW-TA
	Wireless Controller		AR-KH03U
	External Contact Control		MIM-B14
	CN83 Pigtail (for 1)	2VDC VENT output)	DB39-01263A
Safety	Certifications		ETL (UL 1995)

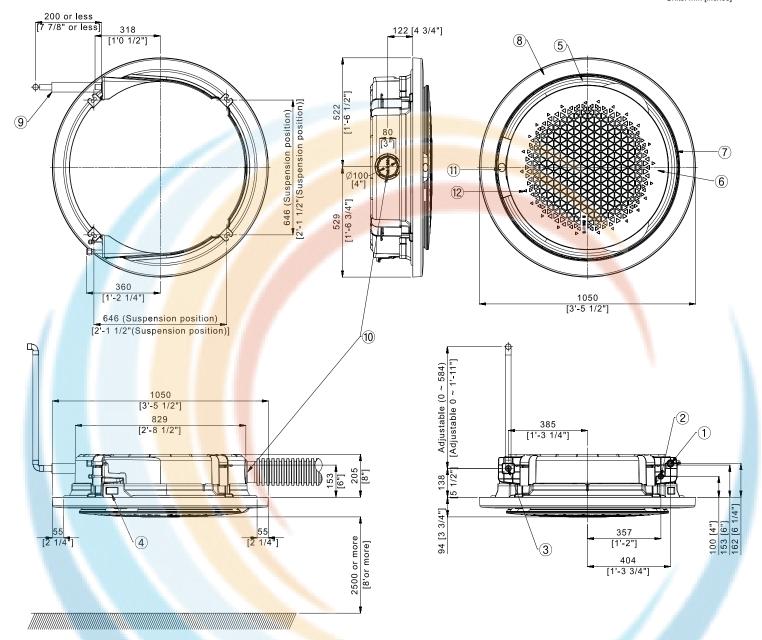


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# SUBMITTAL AM030KN4DCH/AA

Samsung DVM S Series, 360 Cassette

Job Name	
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Unit Designation	

**Specifications** 

Location			
Engineer			
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Performance	Nominal Capacity	Cooling (Btu/h)	30,000
	Nominal Capacity	Heating (Btu/h)	34,000
	Condensate (pints/	hour)	9.10
	Voltage	ø / V / Hz	1 / 208-230 / 60
Power	Nominal Running (	Current (A)	0.42
lower	MCA		0.5
	MOP		15
Dimensions	WXHXD	Inches	37 1/4 X 14 3/8 X 37 1/4
Dimensions	Weight	lbs.	52.9
Sound Level	H/M/L	dB(a)	40 / 38 / 36
Dina	Liquid (flare)	Inches	3/8
Pipe Connections	Suction (flare)	Inches	5/8
	Condensate Conne	ection	1 1/4" OD, 1" ID
Pofrigoropt	Туре		R410A
Refrigerant	Control Method		Electronic Expansion Valve
	Туре		BLDC (1) With Turbo Type Fan (1)
Evaporator Fan	Air Volume	CFM (H/M/L)	901 / 795 / 706
	FLA	Amps	0.39
	Ceiling Type	L X W X H (inches)	39 3/8 X 39 3/8 X 2 5/8
Fascia Panel	(Square)	Weight (Ibs.)	7.94
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		Open Type (round, black)	PC4NBNMUN
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Safety	Certifications	T	ETL (UL 1995)

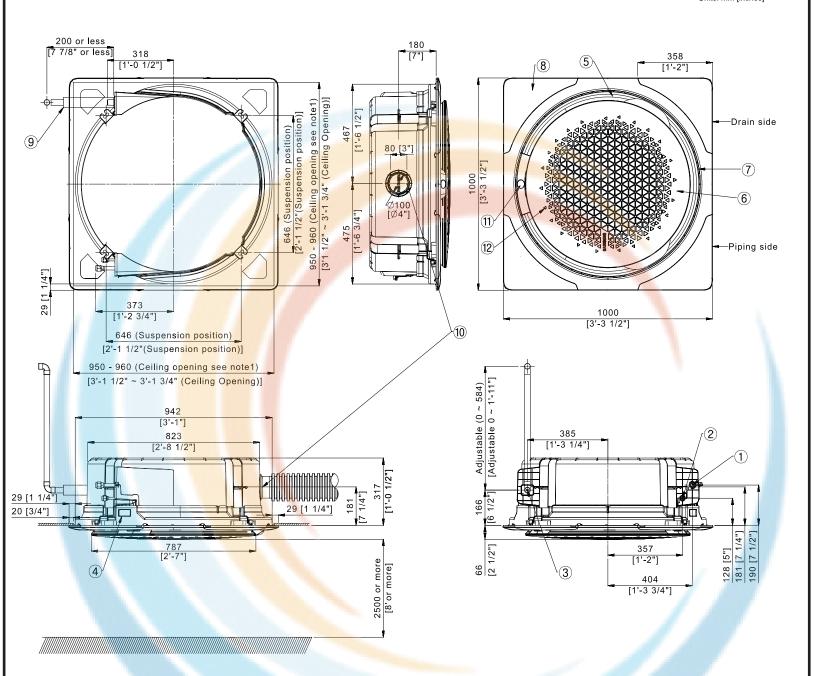
Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB. Nominal heating capacities are based on: Indoor temperature: 70 F DB, 60 F WB. Outdoor temperature: 47 F DB, 43 F WB

# SAMSUNG

SUBMITTAL AM030KN4DCH/AA

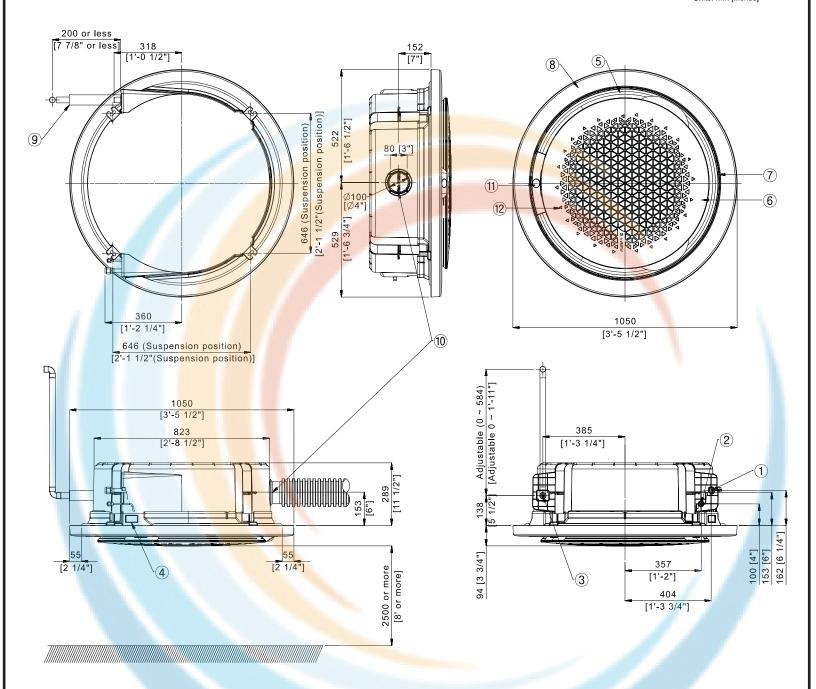
Samsung DVM S Series, 360 Cassette Dimensional Drawing With Ceiling Type Fascia Panel

Units: mm [inches]



No.	Description		
1	Refrigerant Gas Pipe		
2	Refrigerant Liquid Pipe		
3	Condensate drain		
4	Power and wiring entry		
5	Air discharge opening		
6	Air suction grille		

No.	Description	
7	Suction rim for air direction booster fan	
8	Decoration fascia panel	
9	Drain hose	
10	Fresh air knockout hole	
11	Status display	
12	Infrared receiver	



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9	Drain hose		
10	Fresh air knockout hole		
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12	Infrared receiver		

## SUBMITTAL AM036KN4DCH/AA Samsung DVM S Series, 360 Cassette

Page 1	of
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Job Name	Location		
Purchaser	Engineer		
Submitted to	Reference	Approval	Construction
Unit Designation	Schedule #		



wn with PC4NUNMUN (open type panel)

vn with PC4NUDMUN (ceiling type panel)

### **General Information**

- · The indoor unit shall be compatible with Samsung DVM S and DVM Eco systems (AM\*\*\*\*X\*\*\*\*\*AA).
- The indoor unit shall be a round ceiling cassette with 360°, even air distribution
- Auto-restart after power loss
- The indoor unit 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.
- · Electro-static, washable, pleated filter as standard (included with fascia panel).
- · Built in condensate pump with maximum 29" lift from the bottom of the unit, check valve, and float switch that disables indoor unit during overflow detection
- · Knock-out for outside air capability (with booster fan connection)
- · Fascia panel shall have LED indicator lights and an infrared receiver
- The indoor unit shall have two (2) fascia panel types:
   Ceiling Type for installation applications where a ceiling textile is present (ex. tile ceiling, gypsum). The Ceiling Type fascia panel shall be square in shape.
  - 2. Open Type for installation applications where a ceiling textile is not present (ex. open ceiling). The Open Type fascia panel shall be circular in shape.
- The indoor unit shall not have air louvers or blades allowing full airflow without restriction. Air direction control shall be achieved by creating a low pressure area near air outlet causing discharge air to change direction angle.
- · Fixed or auto-swing air direction shall be possible with wireless, touch, or premium wired controller (10° ~ 60° angle)
- · Independent air distribution control shall be possible with wireless or premium wired controller (three directions, 10° ~ 60° angle)

### Construction

The indoor unit shall be have a galvanized steel frame with HIPS chassis and fascia panel certified to UL94 V0.

The indoor unit heat exchanger shall be mechanically bonded aluminum fin to copper tube

Control signal shall be a DDC type signal

The unit shall integrate with the Samsung NASA Controls Network Solution

Controls shall integrate with a BMS system

Control wiring shall be 2 X 16 AWG shielded wire

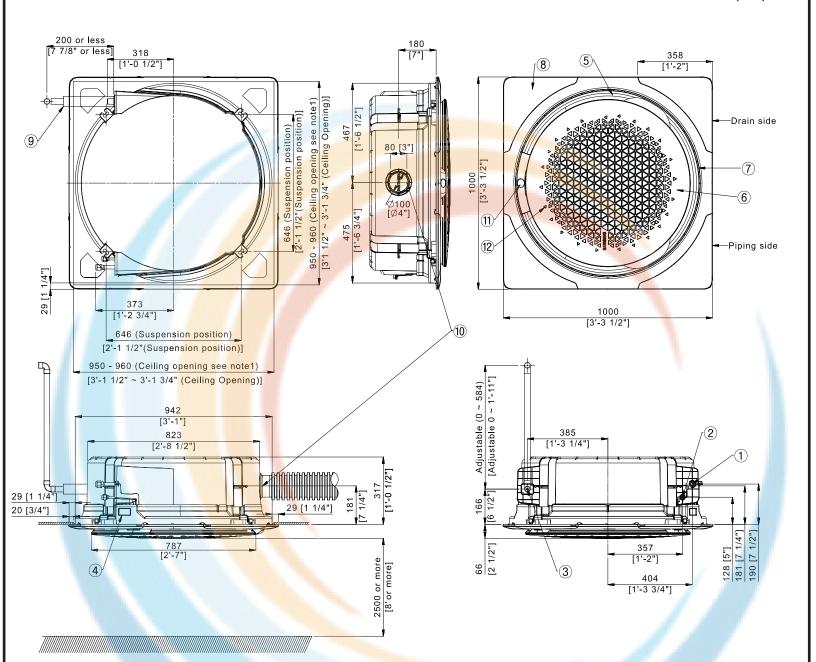
The indoor unit shall have a 12VDC output that is interlocked with fan to activate external devices (fan ON = 12VDC ON, fan OFF = 12VDC OFF, pigtail adapter plug required)

Wired or wireless controls must be purchased separately

Performance	Nominal Capacity	Cooling (Btu/h)	36,000
	Nominal Сарасіty	Heating (Btu/h)	40,000
	Condensate (pints/hour)		8.5
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Nominal Running (	Current (A)	0.57
i owei	MCA		0.5
	MOP		15
Dimensions	WXHXD	Inches	37 1/4 X 14 3/8 X 37 1/4
Difficiations	Weight	lbs.	52.9
Sound Level	H/M/L	dB(a)	40 / 40 / 38
D:	Liquid (flare)	Inches	3/8
Pipe Connections	Suction (flare)	Inches	5/8
	Condensate Conne	ection	1 1/4" OD, 1" ID
Defrimerent	Туре		R410A
Refrigerant	Control Method		Electronic Expansion Valve
	Туре		BLDC (1) With Turbo Type Fan (1)
Evaporator Fan	Air Volume	CFM (H/M/L)	989 / 883 / 777
	FLA	Amps	0.39
	Ceiling Type (Square) Open Type	L X W X H (inches)	39 3/8 X 39 3/8 X 2 5/8
Fascia Panel		Weight (Ibs.)	7.94
i ascia i ariei		Diameter X H (inches)	41 15/16 X 3 3/8
	(Round)	Weight (lbs.)	5.95
		Ceiling Type (square, white)	PC4NUDMUN
	Fascia Panel	Ceiling Type (square, black)	PC4NBDMUN
	rascia Pariei	Open Type (round, white)	PC4NUNMUN
Accessories		Open Type (round, black)	PC4NBNMUN
	External Temperature Sensor		MRW-TA
	Wireless Controller		AR-KH03U
	External Contact Control		MIM-B14
	CN83 Pigtail (for 12VDC VENT output)		DB39-01263A
Safety	Certifications		ETL (UL 1995)

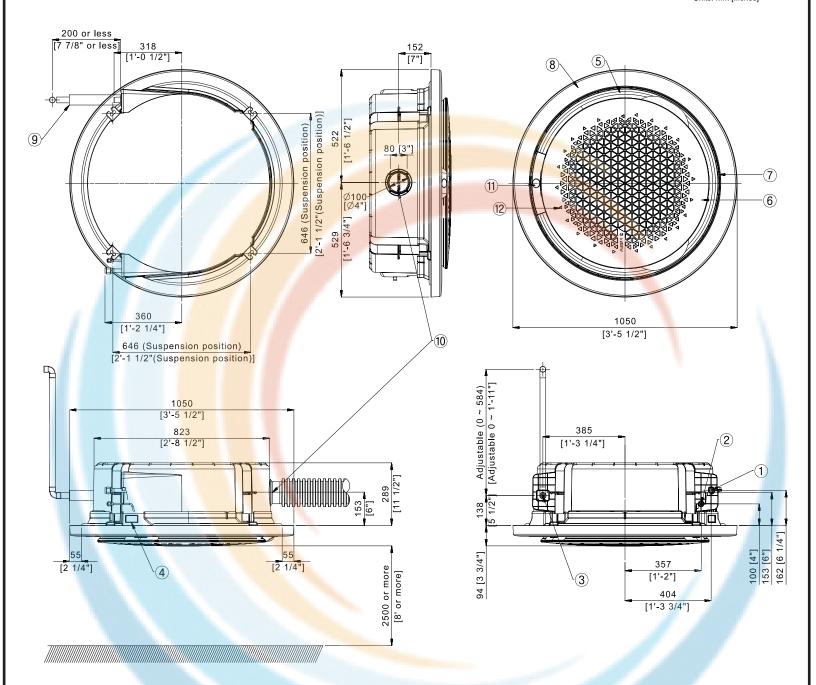


Nominal cooling capacities are based on: Indoor temperature: 80°F DB, 67°F WB. Outdoor temperature: 95°F DB, 75°F WB. Nominal heating capacities are based on: Indoor temperature: 70 F DB, 60 F WB. Outdoor temperature: 47 F DB, 43 F WB



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2	Refrigerant Liquid Pipe
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No.	Description
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# SUBMITTAL AM048KN4DCH/AA Samsung DVM S Series, 360 Cassette

Page 1 of	f 3
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Location			
Engineer			
Reference	Approval	Construction	
Schedule #			
	Engineer Reference	Engineer Approval	Engineer Approval Construction



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Performance	Nominal Capacity	Cooling (Btu/h)	48,000
	Normal Capacity	Heating (Btu/h)	54,000
	Condensate (pints/	/hour)	14.8
Power	Voltage	ø / V / Hz	1 / 208-230 / 60
	Nominal Running (	Current (A)	0.75
1 OWEI	MCA		0.5
	MOP		15
Dimensions	WXHXD	Inches	37 1/4 X 14 3/8 X 37 1/4
Dimensions	Weight	lbs.	52.9
Sound Level	H/M/L	dB(a)	44 / 42 / 39
D:	Liquid (flare)	Inches	3/8
Pipe Connections	Suction (flare)	Inches	5/8
Commodicino	Condensate Conne	ection	1 1/4" OD, 1" ID
Defrigerent	Туре		R410A
Refrigerant	Control Method		Electronic Expansion Valve
_	Туре		BLDC (1) With Turbo Type Fan (1)
Evaporator Fan	Air Volume	CFM (H/M/L)	1,112 / 954 / 848
1 an	FLA	Amps	0.39
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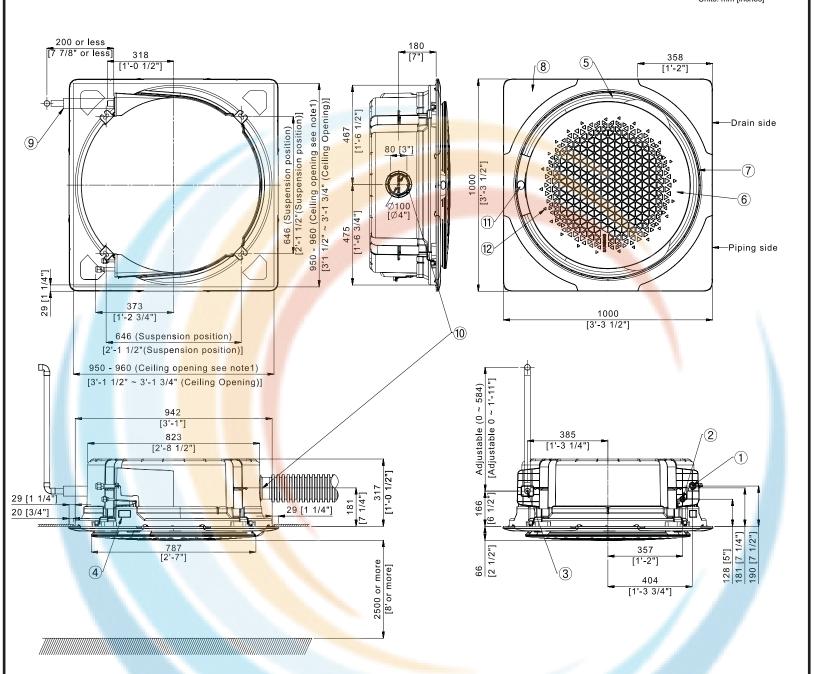


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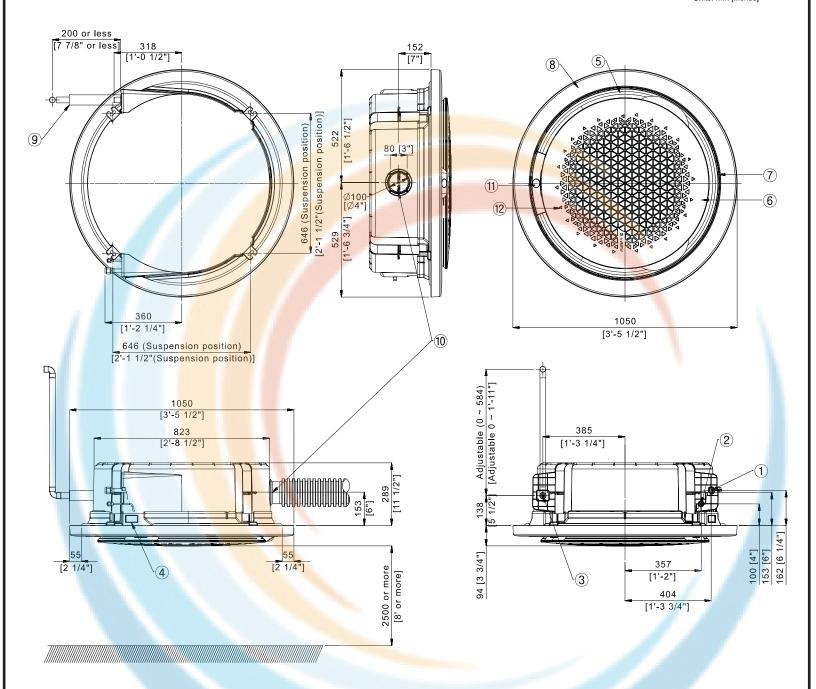
SUBMITTAL AM048KN4DCH/AA

Samsung DVM S Series, 360 Cassette
Dimensional Drawing With Ceiling Type Fascia Panel



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