

VRF

Technical Data Book

Duct for Latin America

(Drain pump integrated, R410A, 50/60Hz, HP/HR)



Model : AM012~048KNHPKH/AZ
AM007~048KNLDCH/AZ
AM018~048KNMDCH/AZ
AM054KNMDCH1AZ

Nomenclature

Indoor Units

Model Names

AM	036	K	N	H	P	K	H	/	AZ
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AM	VRF
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(2) Capacity

kBtu/h (3 digits)

(3) Version

F	2013
H	2014
J	2015
K	2016

(4) Product Type

N	Indoor Unit (NASA)
X	Outdoor Unit (NASA)

(5) Product Notation

1	1Way Cassette
2	2Way Cassette
4	4Way Cassette S
N	4Way Cassette(600x600)
L	LSP Duct
M	MSP Duct
H	HSP Duct
T	Neo Forte
Q	Neo Forte(EEV)
C	Ceiling
J	Console
F	Floor Standing
K	ERV Plus
B	Hydro Unit

(6) Feature

F	Flagship
P	Premium
D	Deluxe
S	Standard

(7) Rating Voltage

C	208~230V, 60Hz, 1Φ
K	220~240V, 50/60Hz, 1Φ

(8) Mode

H	Heat Pump (R410A)
R	Heat Recovery (R410A)

1 Specifications

Slim Duct

Type				SLIM DUCT	SLIM DUCT	SLIM DUCT
Model				AM007KNLDCH/AZ	AM009KNLDCH/AZ	AM012KNLDCH/AZ
Power Supply			Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60
Mode			-	HP/HR	HP/HR	HP/HR
Performance	Capacity (Nominal)	Cooling	kW	2.20	2.78	3.52
			Btu/h	7,500	9,500	12,000
		Heating	kW	2.49	3.08	3.96
			Btu/h	8,500	10,500	13,500
Power	Power Input (Nominal)	Cooling	W	47.00	60.00	75.00
		Heating		47.00	60.00	75.00
	Current Input (Nominal)	Cooling	A	0.32	0.40	0.51
		Heating		0.32	0.40	0.51
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor	Output x n	W	40 x 1	50 x 1	60 x 1
	Air Flow Rate	H/M/L (UL)	CMM	8.01/6.99/6.00	9.00/8.01/6.99	10.00/8.49/6.99
			l/s	133.56/116.57/100.05	150.07/133.56/116.57	166.59/141.58/116.57
	External Static Pressure	Min / Std / Max	mmAq	0.00/1.02/4.06	0.00/1.02/4.06	0.00/1.02/4.06
			Pa	0.00/10.00/39.81	0.00/10.00/39.81	0.00/10.00/39.81
Piping Connections	Liquid Pipe		Φ,mm	6.35	6.35	6.35
			Φ, inch	1/4"	1/4"	1/4"
	Gas Pipe		Φ,mm	12.70	12.70	12.70
			Φ, inch	1/2"	1/2"	1/2"
Drain Pipe		Φ,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire		mm ²	AWG 14	AWG 14	AWG 14
	Transmission Cable		mm ²	2 X 16 AWG SHIELDED	2 X 16 AWG SHIELDED	2 X 16 AWG SHIELDED
Refrigerant	Type		-	R410A	R410A	R410A
	Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Data	Sound Pressure Level	High / Mid / Low	dB(A)	26 / 24 / 21	27 / 25 / 23	29 / 28 / 27
	Sound Power Level	Cooling		46	47	49
Dimensions	Net Weight		kg	24.5	24.5	24.5
	Shipping Weight		kg	29.0	29.0	29.0
	Net Dimensions (WxHxD)		mm	900 x 199 x 600	900 x 199 x 600	900 x 199 x 600
	Shipping Dimensions (WxHxD)		mm	1150 x 280 x 710	1150 x 280 x 710	1150 x 280 x 710
Panel Size	Panel model		-	-	-	-
	Panel Net Weight		kg	-	-	-
	Shipping Weight		kg	-	-	-
	Net Dimensions (WxHxD)		mm	-	-	-
	Shipping Dimensions (WxHxD)		mm	-	-	-
Additional Accessories	Drain pump	Drain pump	-	Drain Pump Included	Drain Pump Included	Drain Pump Included
		Max. lifting Height	mm	-	-	-
	Air Filter		-	-	-	-

NOTE

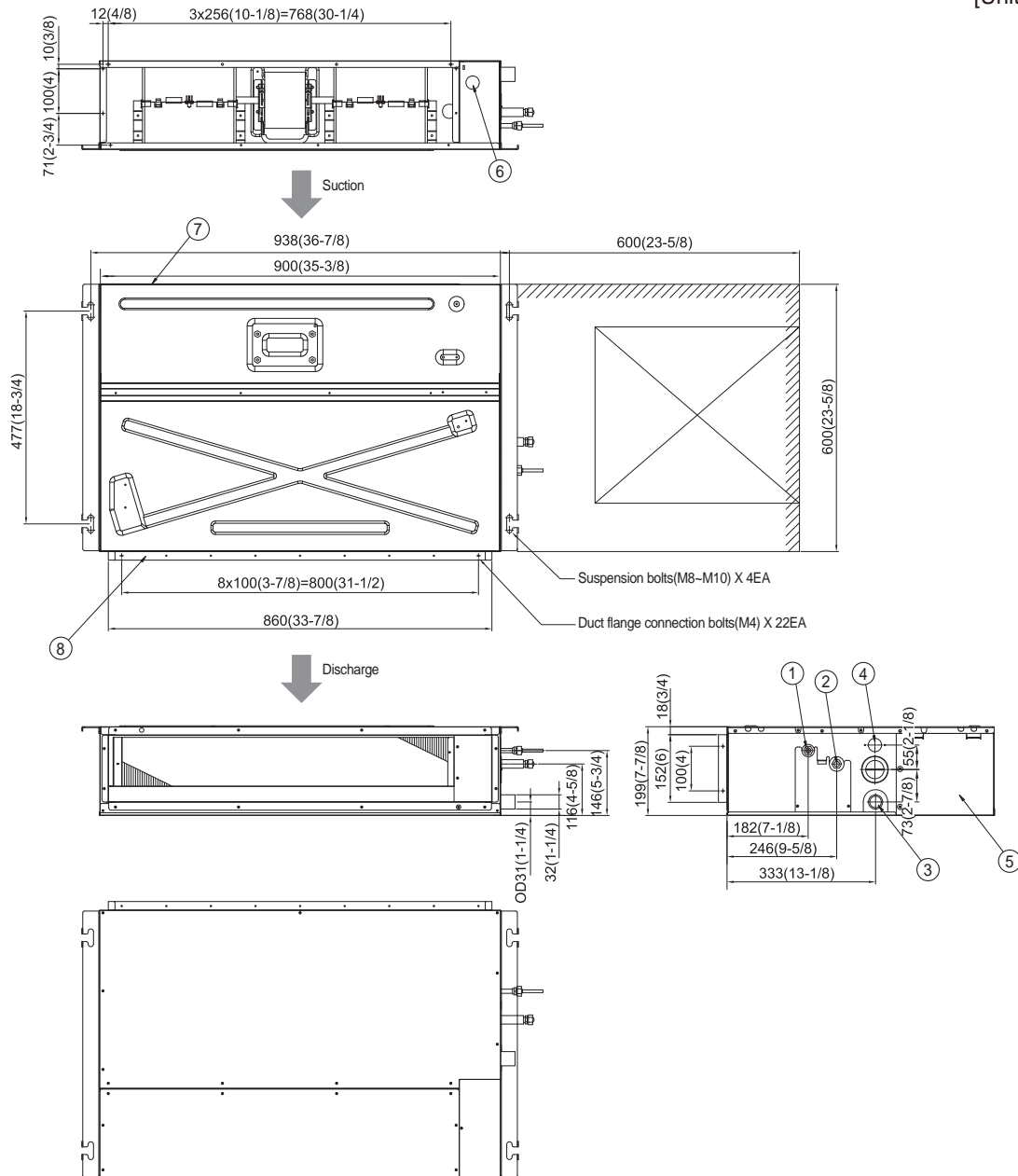
- 1) Mode : HP(Heat Pump), HR(Heat Recovery)
- 2) Nominal Capacity are based on (Equivalent refrigerant piping : 25ft , Level differences : 0ft);
 - Cooling : Indoor temperature : 80°F DB, 67°F WB / Outdoor temperature : 95°F DB, 75°F WB
 - Heating : Indoor temperature : 70°F DB, 60°F WB / Outdoor temperature : 47°F DB, 43°F WB
- 3) Sound level was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.
- 4) These products contain R410A which is fluorinated greenhouse gas.
- 5) Specifications may be subject to change without prior notice.

3 Dimensional Drawing

Slim Duct

AM007/009/012KNLDCH/AZ

[Unit : mm(inch)]

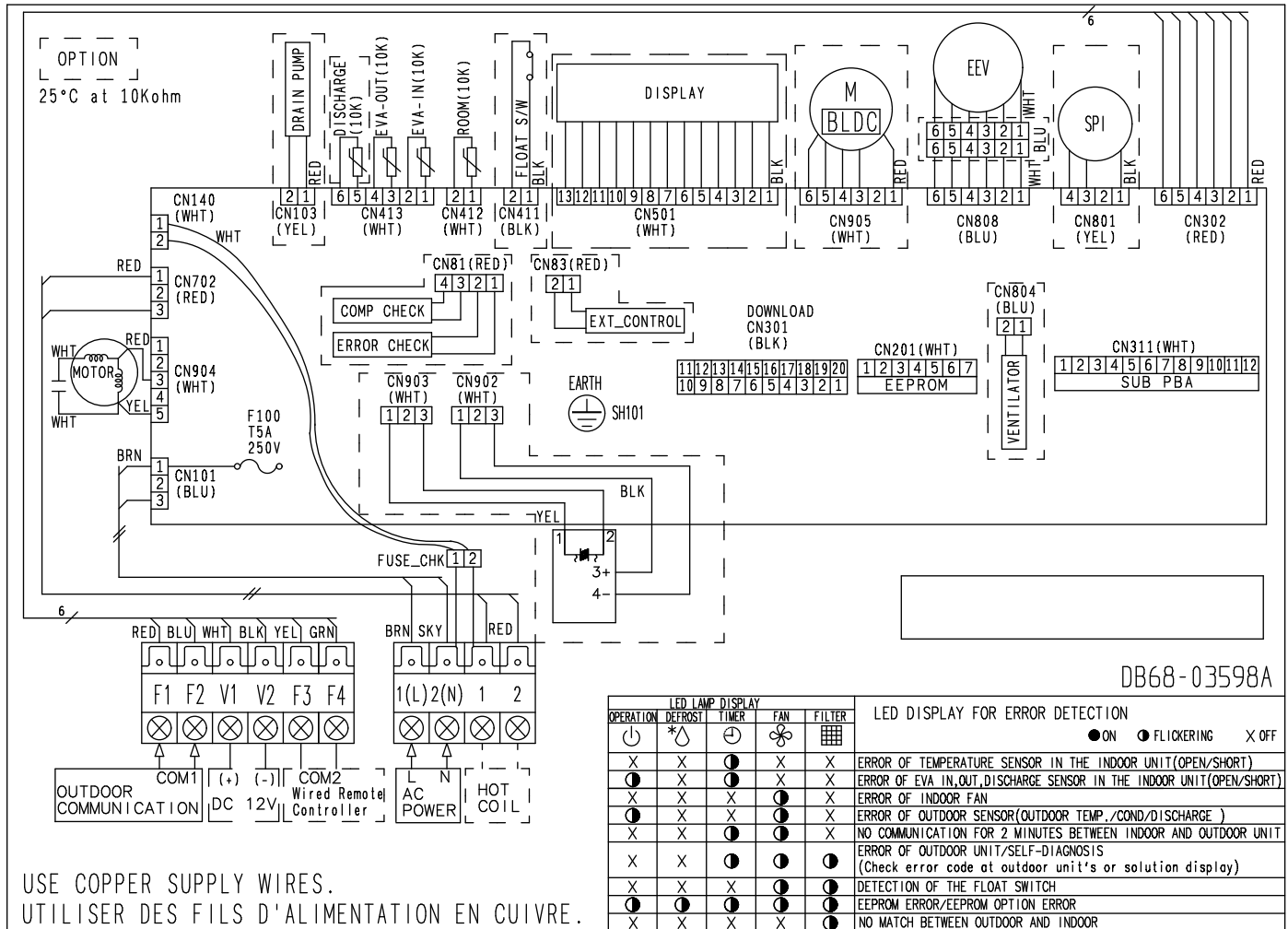


No.	Name	Description		
		7.5 MBH	9.5 MBH	12.0 MBH
①	Liquid pipe connection	Ø6.35(1/4") Flare		
②	Gas pipe connection	Ø12.70(1/2") Flare		
③	Drain pipe connection without optional drain pump	N/A		
④	Drain pipe connection with integrated drain pump	VP25 (OD 32, ID 25) / VP25 (OD 1 1/4", ID 1")		
⑤	Control unit	-		
⑥	Conduit for power supply & communication wiring	-		
⑦	Return air side	-		
⑧	Air outlet duct flange	-		

4 Electrical Wiring Diagram

Slim Duct

AM007/009/012/018/024KNLDCH/AZ



USE COPPER SUPPLY WIRES.
UTILISER DES FILS D'ALIMENTATION EN CUIVRE.

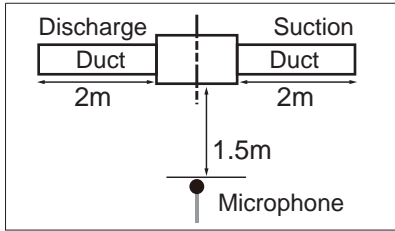
ROOM(10K)	Thermistor ROOM(10K)	EEV	electronic expansion valve	EVA-IN(10K)	Thermistor EVA IN(10K)
DISCHARGE(10K)	Thermistor DISCHARGE(10K)	SPI	S-Plasma ion	EVA-OUT(10K)	Thermistor EVA OUT(10K)

NOTE

1. This wiring diagram applies only to the indoor unit.
2. Symbols show as follow;
BLK : black, RED : red, BLU : blue, WHT:white, YEL : yellow, BRN : brown, SKY : sky-blue, GRN : green
3. For connection wiring indoor-outdoor transmission F1-F2, indoor-wired remotecontroller transmission F3-F4.
4. Protective earth(screw)

5 Sound Pressure Level

Slim Duct



Unit: dB(A)

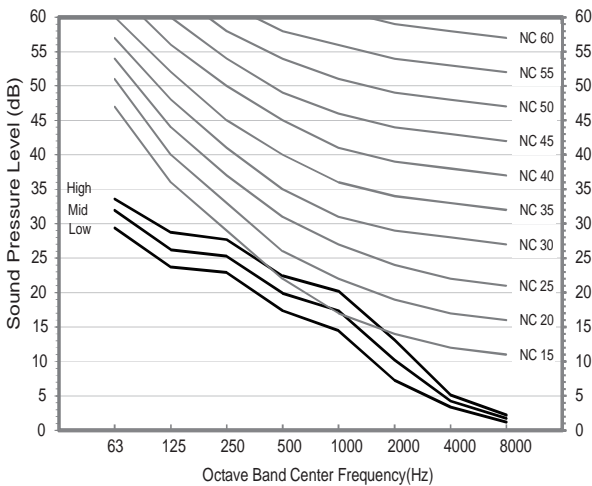
Model	High	Low
AM007KNLDCH/AZ	26	21
AM009KNLDCH/AZ	27	23
AM012KNLDCH/AZ	29	27
AM018KNLDCH/AZ	36	31

Note

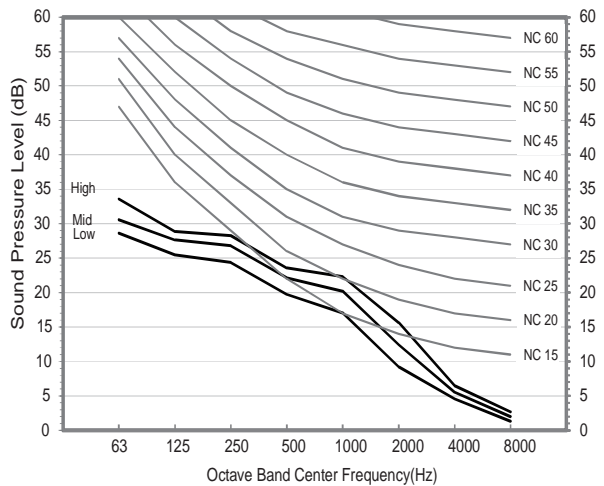
Specifications may be subject to change without prior notice.
 Sound pressure level is obtained in an anechoic room.
 Sound pressure level is a relative value, depending on the distance and acoustic environment.
 Sound pressure level may differ depending on operation condition.
 dBA = A-weighted sound pressure level
 Reference acoustic pressure 0 dB= 20 uPa

NC curve

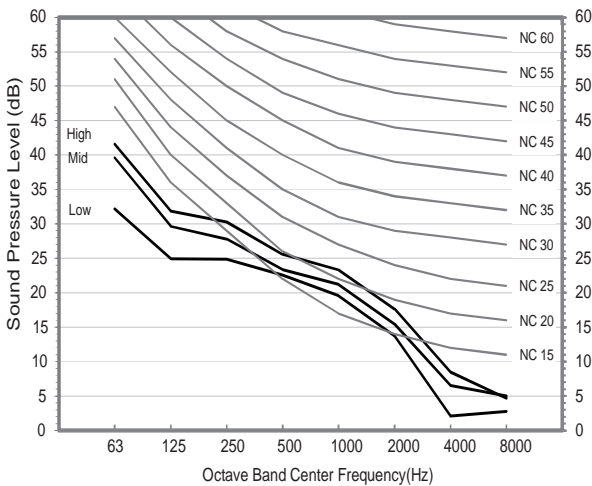
1) AM007KNLDCH/AZ



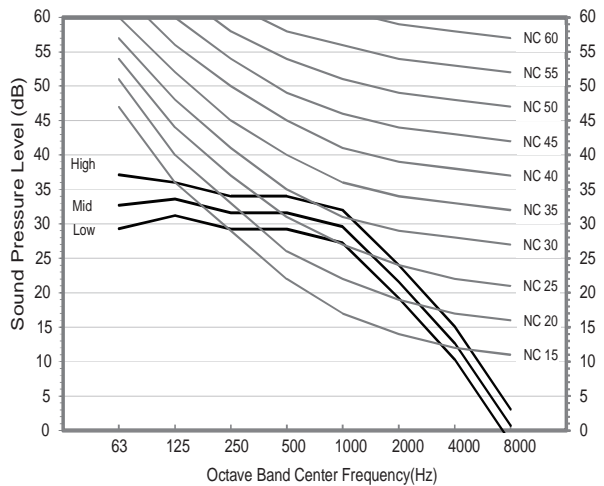
2) AM009KNLDCH/AZ



3) AM012KNLDCH/AZ



4) AM018KNLDCH/AZ



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