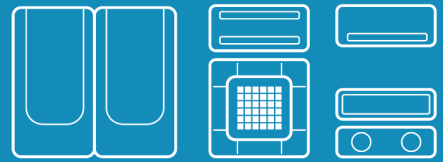


SINGLE

Technical Data Book

[TDB] Slim Duct for USA
(INV, R410A, 60Hz, HP)



Model : CNH**LDK (AC***KNLDCH/AA)
CXH**ADK (AC***KXADCH/AA)

Version	Modification	Date	Remark
Ver.1.0	Released	15.11.20	-
Ver.1.1	Modify Slim Duct Drawing(9k_12k)	15.11.24	
Ver.1.2	Modify Heating Capacity(12k_18k) & Change Unit(PQ & Capa Correction)	15.12.02	
Ver.1.3	Modified Specifcation for Energy efficiency, Capacity table, Cycle diagram	16.10.10	
Ver.1.4	Modify Outdoor unit Spec. (weight & dimension, P6)	16.12.07	
Ver.1.5	Modify PQ curve data	17.01.06	
Ver.1.6	Modified Capacity correction data	19.10.28	
Ver.1.7	Updated the model code including US code	20.08.28	

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5 Electrical wiring diagram

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9 Capacity correction

1 Nomenclature

US Code

Model Names

C	N	H	18	L	D	K
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Classification

C	CAC
----------	-----

(2) Product Type

N	Indoor Unit
X	Outdoor Unit

(3) Mode

H	Heat Pump
----------	-----------

(4) Capacity

X1,000 Btu/h (2 digits)

(5-1) Product Notation (Indoor Unit)

1	1 Way Cassette
N	4 Way Cassette (600x600) Wind-Free 4 Way Cassette (600x600)
4	4 Way Cassette, 360 Cassette Wind-Free 4 Way Cassette
L	LSP Duct
M	MSP Duct
C	Ceiling
J	Console
A	A3050 (Wall Mounted)

(5-2) Product Notation (Outdoor Unit)

A	Inv+Side+General Temp
S	Inv+Side+Low Temp
Q	Inv+Side+Tropical Temp
F	Inv+Top+Tropical Temp

(6) Feature

F	Flagship
S	Standard
D	Deluxe
P	Premium

(7) Version

J	2015
K	2016
M	2017
N	2018

1 Nomenclature

Indoor Units

Model Names

AC	009	K	N	L	D	C	H	/	AA
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	CAC
----	-----

(2) Capacity

x 1,000 Btu/h (3 digits)

(3) Version

K	2016
---	------

(4) Product Type

N	Indoor Unit
X	Outdoor Unit

(5) Product Notation

1	1Way Cassette
N	4Way Cassette (600 X 600)
4	4Way Cassette
L	Slim Duct
M	MSP Duct
C	Ceiling
J	Console
A	Wall-Mounted

(6) Feature

F	Flagship
S	Standard
D	Deluxe

(7) Rating Voltage

C	1Ø, 208~220V, 60Hz
---	--------------------

(8) Mode

H	Heat Pump(R410A)
---	------------------

1 Nomenclature

Outdoor Units

Model Names

AC	009	K	X	A	D	C	H	/	AA
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	CAC
----	-----

(2) Capacity

x 1,000 Btu/h (3 digits)

(3) Version

K	2016
---	------

(4) Product Type

N	Indoor Unit
X	Outdoor Unit

(5) Feature1

A	Inv+Side+General Temp
B	Non Inv+Side+General Temp
S	Inv+Side+Low Temp.
N	Non Inv+Side+Low Temp.

(6) Feature2

F	Standrad+Tropical+Non Module
S	Standard
D	Deluxe

(7) Rating Voltage

C	1Ø, 208~220V, 60Hz
---	--------------------

(8) Mode

H	Heat Pump(R410A)
---	------------------

2 Specifications

Slim Duct

Type			Slim Duct		Slim Duct		Slim Duct				
Model Name	Indoor Unit		AC009KNLDC/AA		AC012KNLDC/AA		AC018KNLDC/AA				
	Outdoor Unit		AC009KXADCH/AA		AC012KXADCH/AA		AC018KXADCH/AA				
US Code	Indoor Unit		CNH09LDK		CNH12LDK		CNH18LDK				
	Outdoor Unit		CXH09ADK		CXH12ADK		CXH18ADK				
System	Mode			Heat Pump		Heat Pump		Heat Pump			
				kW		1.00 / 3.52 / 4.48		1.47 / 5.28 / 6.15			
	Capacity	Cooling(Min/Std/Max)	Btu/h		3,200 / 9,000 / 12,000		3,400 / 12,000 / 15,300		5,000 / 18,000 / 21,000		
			US RT		0.27 / 0.75 / 1.00		0.28 / 1.00 / 1.28		0.42 / 1.50 / 1.75		
		Heating(Min/Std/Max)	kW		0.85 / 3.52 / 4.10		0.88 / 4.10 / 4.75		1.11 / 5.86 / 6.45		
			Btu/h		2,900 / 12,000 / 14,000		3,000 / 14,000 / 16,200		3,800 / 20,000 / 22,000		
	Power	Power Input (Nominal)	Cooling(Min/Std/Max)	kW	0.23 / 0.64 / 1.15	0.24 / 1.00 / 1.70	0.31 / 1.68 / 2.20				
			Heating(Min/Std/Max)	kW	0.20 / 1.18 / 1.50	0.20 / 1.30 / 1.60	0.20 / 1.98 / 2.70				
		Current Input (Nominal)	Cooling(Min/Std/Max)	A	1.50 / 3.10 / 5.20 1.40 /	1.60 / 4.70 / 7.10	1.90 / 7.70 / 9.50				
			Heating(Min/Std/Max)	A	5.30 / 6.10	1.40 / 6.00 / 6.80	1.70 / 8.80 / 12.00				
		MCA	A	10.70	10.70	12.70					
		MOP	A	15.00	15.00	20.00					
	Energy Efficiency	EER (Nominal Cooling)		-	4.09	3.52	3.14				
		EER (Nominal Cooling, US)		Btu/Wh	13.95	12.00	10.71				
		COP (Nominal Heating)		-	2.98	3.16	2.96				
		Energy Grade		Energy	SEER 21.0	SEER 20.0	SEER 19.5				
	Piping Connections	Liquid Pipe	Ø, mm		6.35		6.35		6.35		
			Ø, inch		1/4"		1/4"		1/4"		
		Gas Pipe	Ø, mm		9.52		9.52		12.70		
			Ø, inch		3/8"		3/8"		1/2"		
		Installation Limitation	Max. Length	m		20 (25)		20 (25)		30 (35)	
				ft		66 (82)		66 (82)		98 (115)	
			Max. Height	m		15 (15)		15 (15)		20 (20)	
				ft		49 (49)		49 (49)		66 (66)	
		Field Wiring	Power Source Wire		Ø, mm		2.50		2.50		
			Transmission Cable		Ø, mm		0.75 ~ 1.25		0.75 ~ 1.25		
	Refrigerant	Type		-		R410A		R410A			
		Control Method		-		-		-			
		Factory Charging		kg		1.05		1.30			
			lbs		2.31		2.87				
Indoor Unit	Power Supply		Ø, #, V, Hz		1,2,208-230,60		1,2,208-230,60		1,2,208-230,60		
	Fan	Type		-		Sirocco		Sirocco		Sirocco	
		Motor		Output		W		69 x 1		84 x 1	
		Air Flow Rate		High/Mid/Low		CFM		353.16 / 317.84 / 282.53		423.79 / 370.82 / 317.84	
		External Static Pressure		Min/Std/Max		Pa		0.00 / 24.50 / 58.80		0.00 / 24.50 / 58.80	
	Drain	Drain Pipe		Ø,mm		VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)		VP25 (OD 32,ID 25)	
		Sound	Pressure	High/Mid/Low	dB(A)		33 / 30 / 26		34 / 31 / 27		35 / 32 / 28
	Power		Cooling		-		-		-		
	External Dimension	Net Weight		kg		19.97		19.97		23.60	
				lbs		44.03		44.03		52.03	
		Shipping Weight		kg		19.97		19.97		23.60	
				lbs		44.03		44.03		52.03	
		Net Dimensions (WxHxD)		mm		700 x 199 x 600		700 x 199 x 600		900 x 199 x 600	
				inch		27.56 x 7.83 x 23.62		27.56 x 7.83 x 23.62		35.43 x 7.83 x 23.62	
	Shipping Dimensions (WxHxD)		mm		951 x 280 x 709		951 x 280 x 709		1,151 x 280 x 709		
			inch		37.44 x 11.02 x 27.91		37.44 x 11.02 x 27.91		45.31 x 11.02 x 27.91		
	Panel Size	Panel model		-		-		-		-	
		Panel Net Weight		kg		-		-		-	
				lbs		-		-		-	
		Shipping Weight		kg		-		-		-	
				lbs		-		-		-	
		Net Dimensions (WxHxD)		mm		-		-		-	
			inch		-		-		-		
	Shipping Dimensions (WxHxD)		mm		-		-		-		
			inch		-		-		-		
	Accessories	Drain pump		Drain pump(Included)		MDP-E075SEE3D		MDP-E075SEE3D		MDP-E075SEE3D	
				Max. Lifting		1200/24		1200/24		1200/24	
		Air Filter		-		Pre		Pre		Pre	
	Outdoor Unit	Power Supply		Ø, #, V, Hz		1,2,208-230,60		1,2,208-230,60		1,2,208-230,60	
		Compressor	Type		-		Twin BLDC Rotary		Twin BLDC Rotary		Twin BLDC Rotary
Model			-		UG9T115FUAEQ		UG9T115FUAEQ		UG4T150LNBEQ		
Output			kW		1.053		1.053		1.42		
Fan		Oil		Type		POE		POE		POE	
		Air Flow Rate		Cooling		CFM		-		-	
Sound		Pressure	Cooling/Heating	dB(A)		46 / 47		47 / 48		49 / 50	
		Power		Cooling		-		-		-	
External Dimension		Net Weight		kg		36.20		36.20		47.00	
				lbs		79.81		79.81		103.62	
		Shipping Weight		kg		38.80		38.80		50.20	
				lbs		85.54		85.54		110.67	
		Net Dimensions (WxHxD)		mm		790 x 548 x 285		790 x 548 x 285		880 x 638 x 310	
				inch		31.10 x 21.57 x 11.22		31.10 x 21.57 x 11.22		34.65 x 25.12 x 12.20	
Shipping Dimensions (WxHxD)		mm		926 x 640 x 384		926 x 640 x 384		1,023 x 730 x 413			
		inch		36.46 x 25.20 x 15.12		36.46 x 25.20 x 15.12		40.28 x 28.74 x 16.26			
Operating Temp.	Cooling		°F		-0.4 ~ 114.8		-0.4 ~ 114.8		-0.4 ~ 114.8		
	Heating		°F		-4.0 ~ 75.2		-4.0 ~ 75.2		-4.0 ~ 75.2		

* Specifications may be subject to change without prior notice.

1) Nominal capacity are based on (Refrigerant Piping : 24.6ft , 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

2) Sound pressure level is acquired in a anechoic room. Thus actual noise level may be different depending on the installation conditions.

3 Capacity table

Slim Duct

CNH09LDK(AC009KNLDCH/AA) + CXH09ADK(AC009KXADCH/AA)

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB / WB)																							
	68 / 57			72 / 61			77 / 64			80 / 67			82 / 70			86 / 72			90 / 75					
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI			
MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	
-0.4	10.5	8.4	0.5	10.7	8.6	0.5	11.0	8.8	0.5	11.3	9.0	0.5	11.4	9.1	0.5	11.6	9.3	0.5	11.8	9.4	0.5	11.8	9.4	0.5
70	9.6	7.7	0.5	9.9	7.9	0.6	10.1	8.1	0.6	10.4	8.3	0.6	10.5	8.4	0.6	10.7	8.6	0.6	10.9	8.7	0.6	10.9	8.7	0.6
95	8.4	6.7	0.6	8.6	6.9	0.6	8.8	7.0	0.6	9.0	7.2	0.6	9.1	7.3	0.7	9.3	7.4	0.7	9.4	7.6	0.7	9.4	7.6	0.7
114.8	8.2	6.6	1.1	8.4	6.7	1.1	8.6	6.9	1.1	8.8	7.1	1.2	8.9	7.1	1.2	9.1	7.3	1.2	9.3	7.4	1.2	9.3	7.4	1.2

Heating

TC : Total Capacity, PI: Power Input

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB)												
	61		64		68		70		72		75		
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	
MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
-4	8.8	1.3	8.7	1.3	8.6	1.3	8.5	1.3	8.4	1.3	8.3	1.3	
5	11.5	1.6	11.4	1.6	11.3	1.6	11.2	1.6	11.1	1.6	11.0	1.6	
32	12.5	1.2	12.3	1.2	12.2	1.2	12.1	1.2	12.0	1.2	11.9	1.2	
47	12.4	1.2	12.2	1.2	12.1	1.2	12.0	1.2	11.9	1.2	11.8	1.2	
75.2	14.2	1.1	14.1	1.1	13.9	1.1	13.8	1.1	13.7	1.1	13.5	1.1	

CNH12LDK(AC012KNLDCH/AA) + CXH12ADK(AC012KXADCH/AA)

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB / WB)																							
	68 / 57			72 / 61			77 / 64			80 / 67			82 / 70			86 / 72			90 / 75					
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI			
MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	
-0.4	12.0	9.6	0.7	12.3	9.8	0.7	12.6	10.1	0.7	12.9	10.3	0.7	13.0	10.4	0.7	13.3	10.7	0.7	13.5	10.8	0.7	13.5	10.8	0.7
70	11.2	9.0	0.8	11.5	9.2	0.8	11.8	9.4	0.9	12.1	9.6	0.9	12.2	9.7	0.9	12.5	10.0	0.9	12.6	10.1	0.9	12.6	10.1	0.9
95	11.2	8.9	0.9	11.4	9.1	1.0	11.7	9.4	1.0	12.0	9.6	1.0	12.1	9.7	1.0	12.4	9.9	1.0	12.6	10.1	1.0	12.6	10.1	1.0
114.8	9.9	8.0	1.2	10.2	8.2	1.2	10.4	8.4	1.3	10.7	8.6	1.3	10.8	8.6	1.3	11.1	8.9	1.3	11.2	9.0	1.4	11.2	9.0	1.4

Heating

TC : Total Capacity PI: Power Input

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB)												
	61		64		68		70		72		75		
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	
MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
-4	9.5	1.5	9.4	1.5	9.3	1.5	9.2	1.5	9.1	1.5	9.0	1.5	
5	11.6	1.7	11.5	1.7	11.4	1.6	11.3	1.6	11.2	1.6	11.1	1.6	
32	14.6	1.4	14.5	1.4	14.3	1.4	14.2	1.4	14.1	1.3	13.9	1.3	
47	14.4	1.3	14.3	1.3	14.1	1.3	14.0	1.3	13.9	1.3	13.7	1.3	
75.2	16.3	1.3	16.1	1.3	16.0	1.3	15.8	1.3	15.6	1.2	15.5	1.2	

CNH18LDK(AC018KNLDCH/AA) + CXH18ADK(AC018KXADCH/AA)

Cooling

TC(Total Capacity), SHC(Sensible Heat Capacity), PI(Power Input)

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB / WB)																							
	68 / 57			72 / 61			77 / 64			80 / 67			82 / 70			86 / 72			90 / 75					
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI			
MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	
-0.4	17.3	13.8	1.4	17.7	14.1	1.4	18.1	14.5	1.5	18.6	14.8	1.5	18.7	15.0	1.5	19.2	15.4	1.6	19.5	15.6	1.6	19.5	15.6	1.6
70	17.2	13.8	1.5	17.6	14.1	1.5	18.1	14.4	1.6	18.5	14.8	1.6	18.7	14.9	1.6	19.1	15.3	1.7	19.4	15.5	1.7	19.4	15.5	1.7
95	16.7	13.4	1.6	17.1	13.7	1.6	17.6	14.1	1.6	18.0	14.4	1.7	18.2	14.5	1.7	18.6	14.9	1.7	18.9	15.1	1.8	18.9	15.1	1.8
114.8	15.9	12.8	1.9	16.3	13.1	1.9	16.7	13.4	2.0	17.2	13.7	2.0	17.3	13.9	2.0	17.7	14.2	2.1	18.0	14.4	2.1	18.0	14.4	2.1

Heating

TC : Total Capacity, PI: Power Input

Outdoor Temperature (°F, DB)	Indoor Temperature (°F, DB)												
	61		64		68		70		72		75		
	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	
MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW	MBH	kW
-4	13.5	2.6	13.4	2.6	13.3	2.6	13.2	2.5	13.0	2.5	12.9	2.5	
5	15.3	2.6	15.1	2.5	15.0	2.5	14.9	2.5	14.7	2.5	14.6	2.4	
32	20.7	2.3	20.5	2.3	20.3	2.3	20.1	2.3	19.9	2.2	19.7	2.2	
47	20.6	2.0	20.4	2.0	20.2	2.0	20.0	2.0	19.8	2.0	19.6	1.9	
75.2	21.7	1.9	21.5	1.9	21.3	1.9	21.1	1.9	20.8	1.9	20.6	1.9	

Capacities are based on following conditions; Refrigerant pipe length : 24.6ft / Level difference : 0ft.

4 Dimensional drawing

Indoor : Slim Duct

CNH09LDK(AC009KNLDCH/AA), CNH12LDK(AC012KNLDCH/AA)

Units : mm / inches

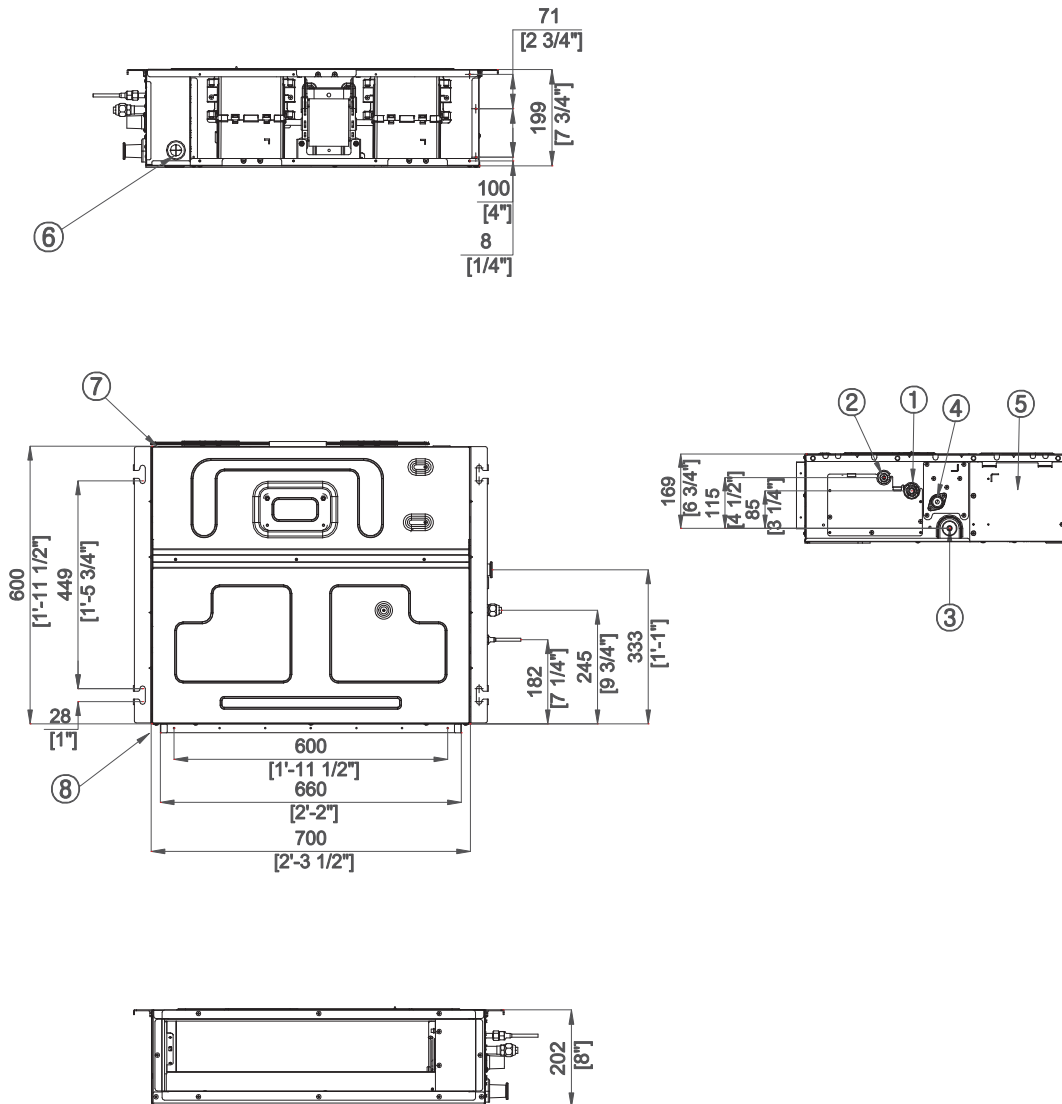


Table of descriptions

1	Refrigerant gas pipe	7	Return air side
2	Refrigerant liquid pipe	8	Air outlet duct flange
3	Drain Pipe (Without drain pump)	9	
4	Drain Pipe (With drain pump)	10	
5	Power & Comm. wiring conduits	11	
6	Power supply connection	12	

4 Dimensional drawing

Indoor : Slim Duct

CNH18LDK(AC018KNLDCH/AA)

Unit : inch(mm)

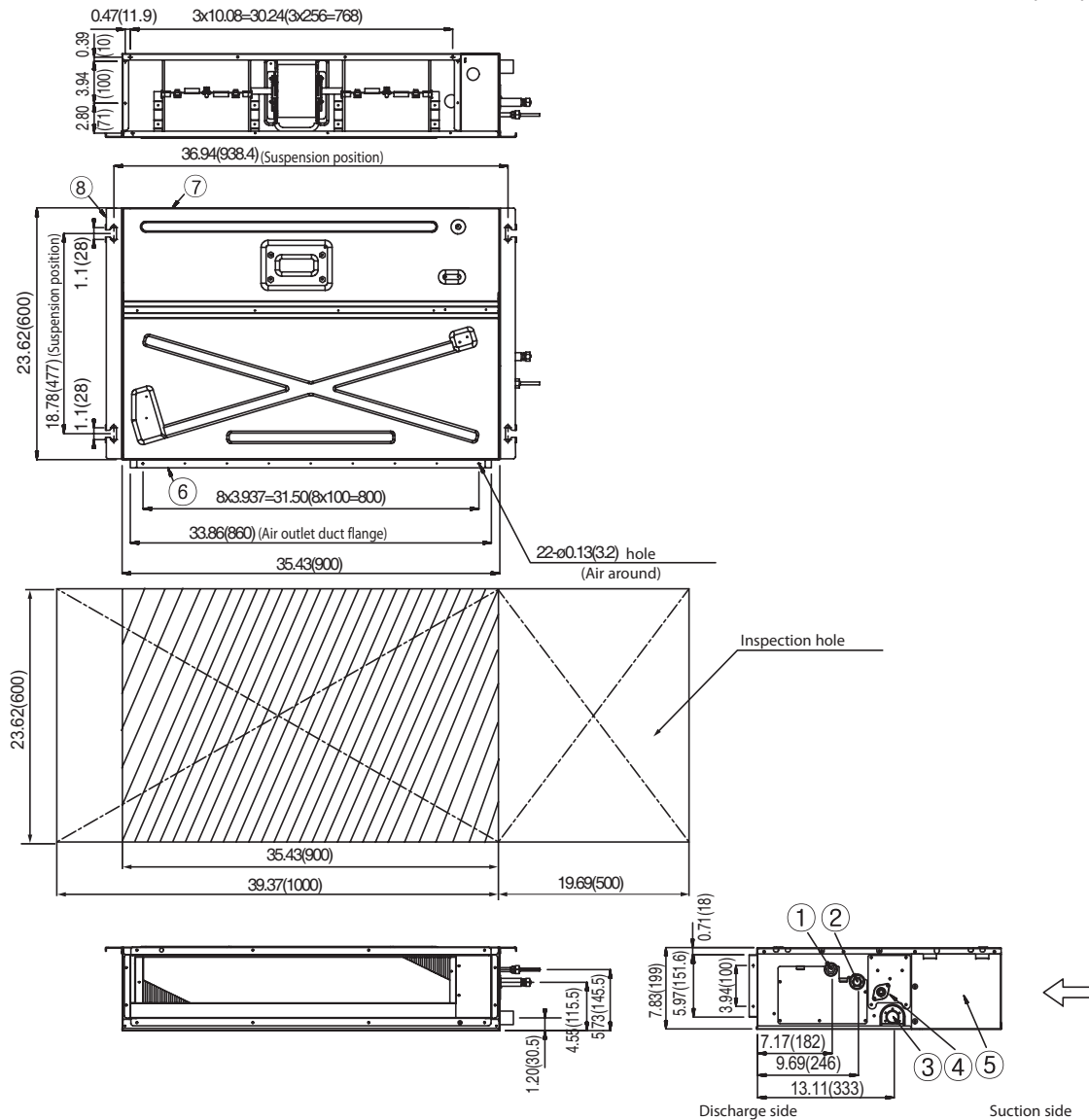


Table of descriptions

1	Refrigerant liquid pipe	7	Air filter
2	Refrigerant gas pipe	8	Hook
3	Drain Connection	9	
4	Drain Connection	10	
5	Power & Comm. wiring conduits	11	
6	Air discharge flange	12	

4 Dimensional drawing

Outdoor

CXH09ADK(AC009KXADCH/AA), CXH12ADK(AC018KXADCH/AA)

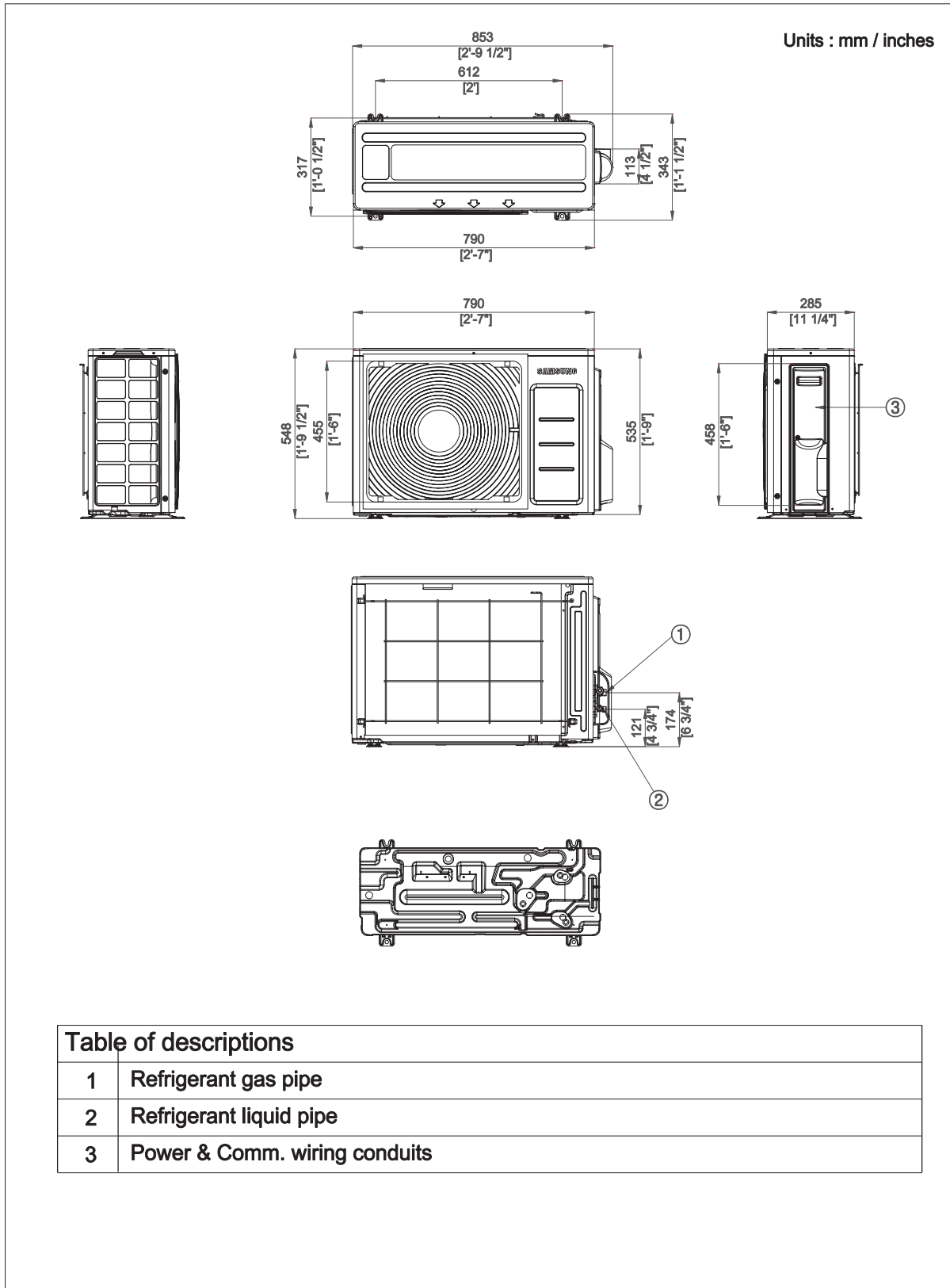


Table of descriptions

1	Refrigerant gas pipe
2	Refrigerant liquid pipe
3	Power & Comm. wiring conduits

4 Dimensional drawing

Outdoor

CXH18ADK(AC018KXADCH/AA)

Units : mm / inches

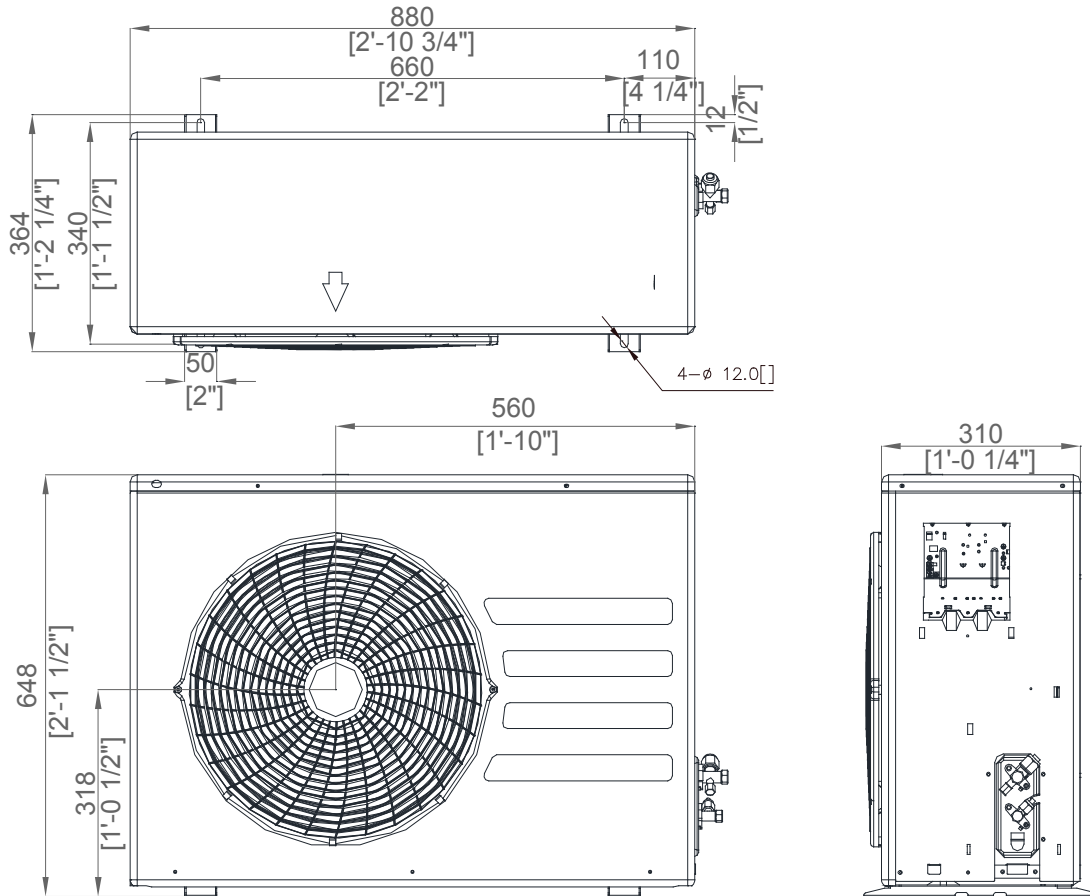


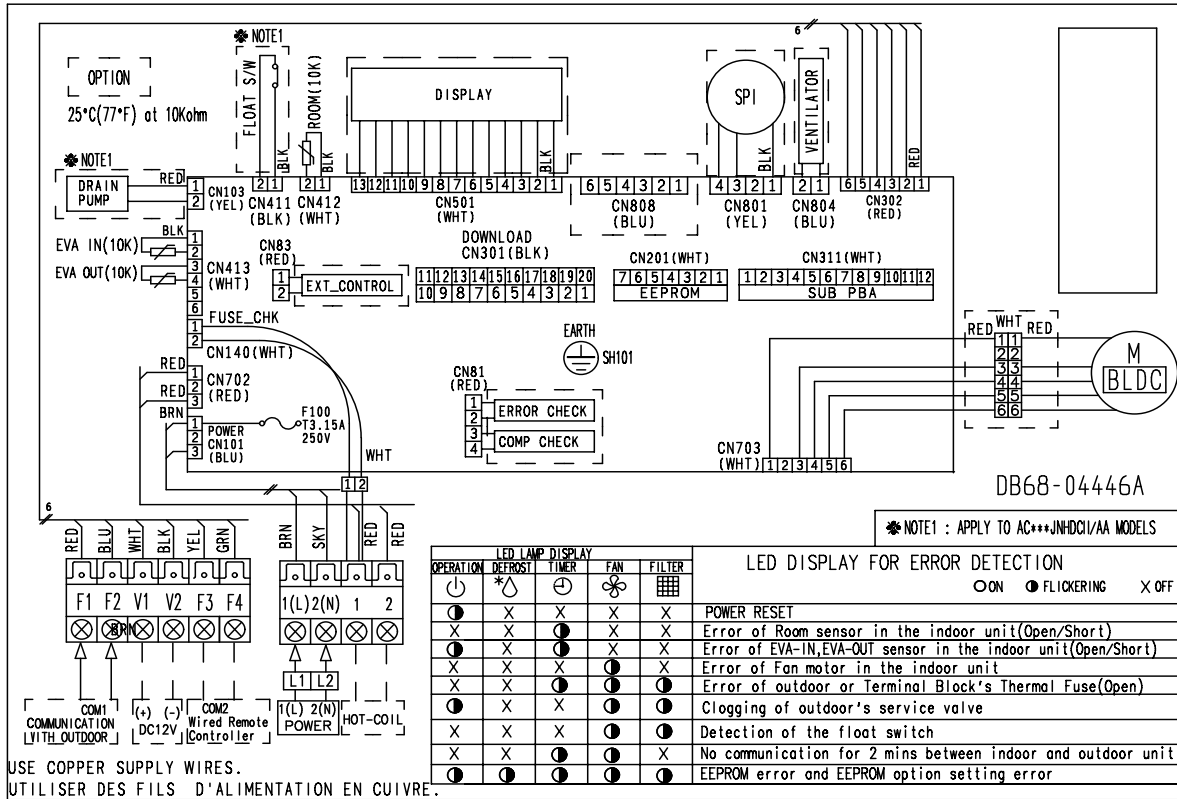
Table of descriptions

1	Refrigerant gas pipe
2	Refrigerant liquid pipe
3	Power & Comm. wiring conduits

5 Electrical wiring diagram

Indoor : Slim Duct

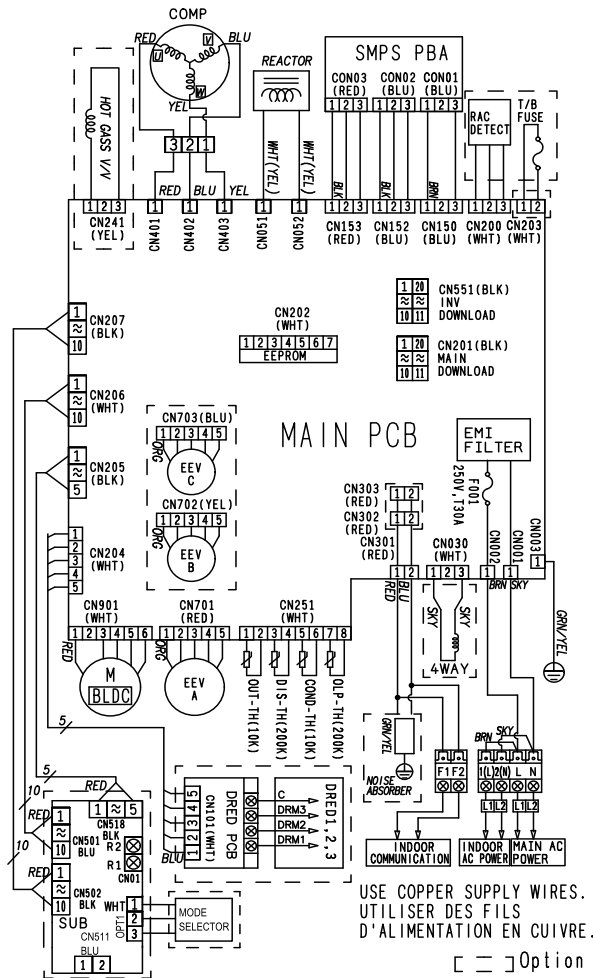
CNH09LDK(AC009KNLDCH/AA), CNH12LDK(AC012KNLDCH/AA), CNH18LDK(AC018KNLDCH/AA)



5 Electrical wiring diagram

Outdoor

CXH09ADK(AC009KXADCH/AA), CXH12ADK(AC012KXADCH/AA), CXH18ADK(AC018KXADCH/AA)

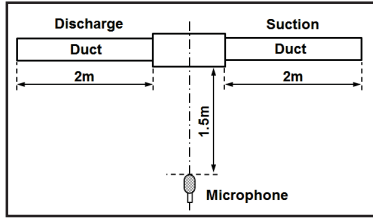


※ NOTE
THERMISTOR MARK BASED ON THE TEMP at 25°C, 77°F

ERROR MODE	
E198	IDU_Terminal Block Thermal Fuse Error
E201	Communication Error (Pre tracking fail or The mismatched of indoor unit)
E202	Communication Error between the outdoor and indoor unit
E203	Time out Comm. (Inv Micom ↔ Main Micom)
E221	Outdoor Temperature Sensor Error (OPEN/SHORT)
E231	COND Temperature Sensor Error (OPEN/SHORT)
E251	Discharge Temperature Sensor Error (OPEN/SHORT)
E320	COMP-OLP Temperature Sensor Error (Open/Short)
E403	Comp Down by a freezing protection
E404	System stop to protect from overload
E416	Discharge Temperature Sensor Over Error
E422	EEV or Valve Close
E440	Prohibit Operation Condition Error (Heating)
E441	Prohibit Operation Condition Error (Cooling)
E458	Fan Error
E461	Comp Starting Error
E462	AC Input I_Limit Trip Error
E463	System stop due to OLP (Temp.)
E464	IPM Over Current (O.C) Error
E465	Comp V_Limit/I_Limit Error
E466	DC Link Voltage Protecting Error
E467	Comp Wire Missing Error
E468	Current Sensor Error
E469	DC Link Voltage Sensor Error
E470	EEPROM Read/Write Error
E471	EEPROM Read/Write Error (H/W)
E474	Heatsink Sensor Error
E483	Over Voltage Protecting Error
E484	PFC Overload Error
E485	Input Current Sensor Error
E488	AC Input V_Limit Sensor Error
E500	IPM Overheat Error
E554	Gas Leak Error
E556	Model Mismatching Error (ODU/IDU)
E590	EEPROM CHECKSUM Error (Main → INVERTER)

6 Sound pressure level

Indoor : Slim Duct



Unit: dB(A)

Model	High	Low
CNH09LDK (AC009KNLDCH/AA)	33	26
CNH12LDK (AC012KNLDCH/AA)	34	27
CNH18LDK (AC018KNLDCH/AA)	35	28

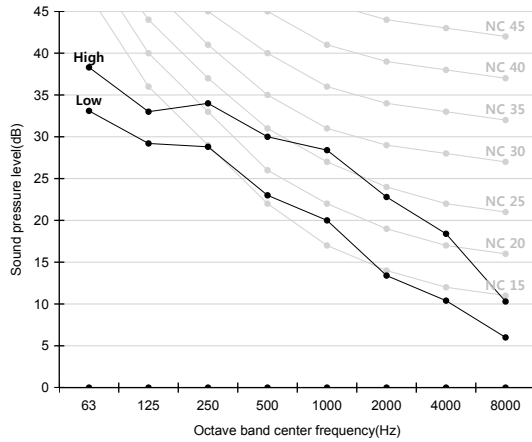
Note

* Specifications may be subject to change without prior notice

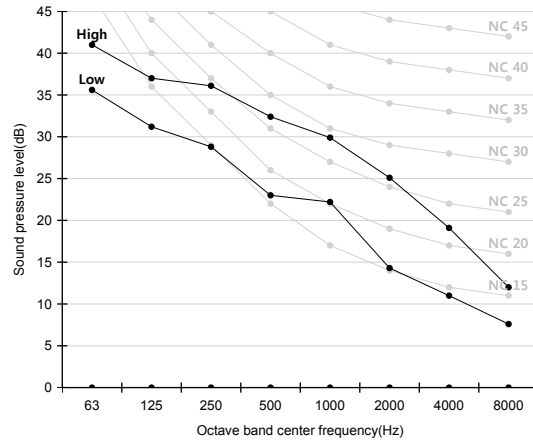
- 1) These operation values are obtained in an anechoic room.
- 2) Sound pressure level is a relative value, depending on the distance and acoustic environment.
- 3) Sound pressure level may differ depending on operation condition.

NC curve

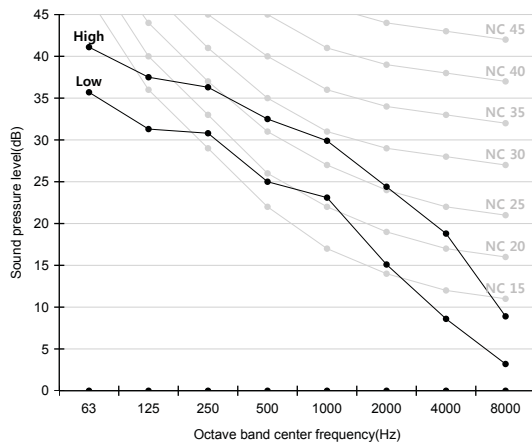
1) CNH09LDK (AC009KNLDCH/AA)



2) CNH12LDK (AC012KNLDCH/AA)

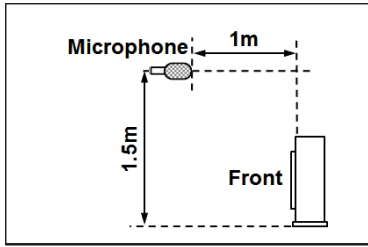


3) CNH18LDK (AC018KNLDCH/AA)



6 Sound pressure level

Outdoor



Unit: dB(A)

Model	Cooling	Heating
CXH09ADK (AC009KXADCH/AA)	46	47
CXH12ADK (AC012KXADCH/AA)	47	48
CXH18ADK (AC018KXADCH/AA)	49	50

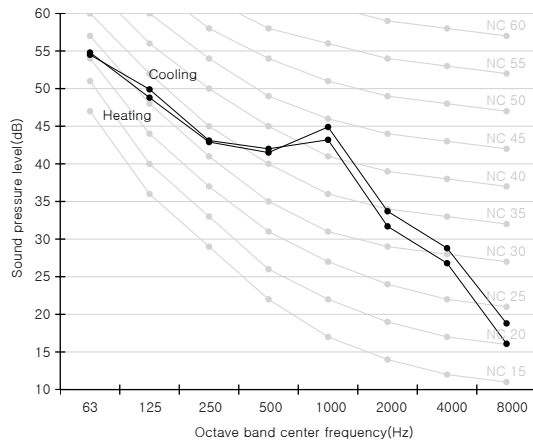
Note

* Specifications may be subject to change without prior notice.

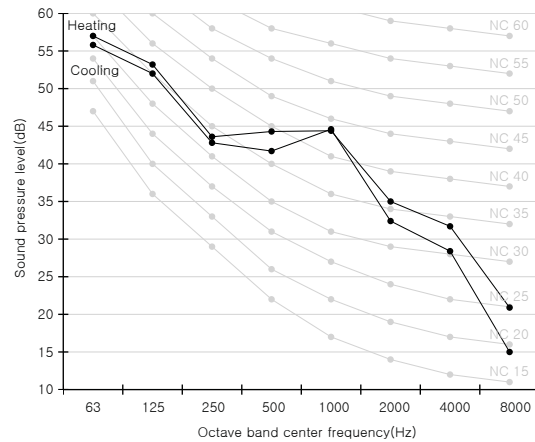
- 1) These operation values are obtained in an anechoic room.
- 2) Sound pressure level is a relative value, depending on the distance and acoustic environment.
- 3) Sound pressure level may differ depending on operation condition.

NC curve

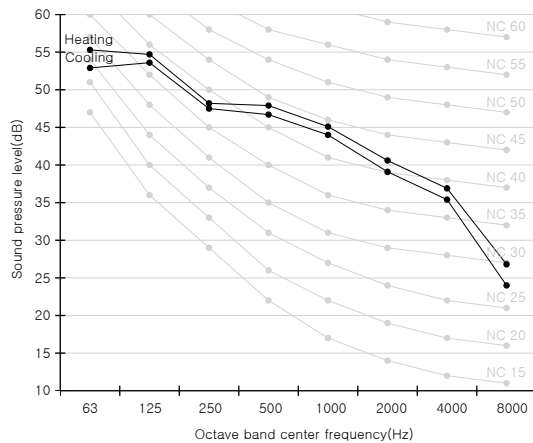
1) CXH09ADK (AC009KXADCH/AA)



2) CXH12ADK (AC012KXADCH/AA)



3) CXH18ADK (AC018KXADCH/AA)

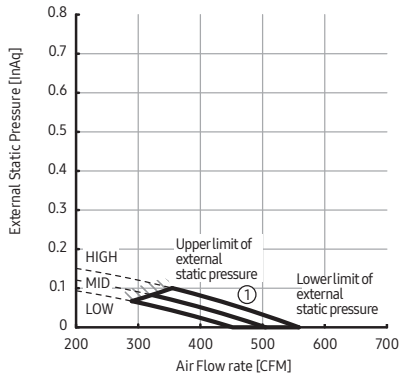


7 PQ Curve

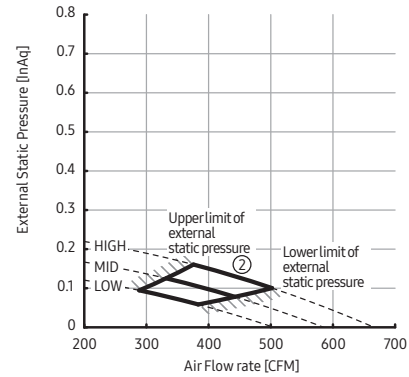
Indoor : Slim Duct

1) CNH09LDK (AC009KNLDDCH/AA)

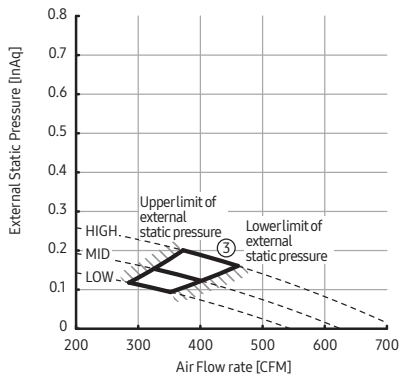
①	External Static Pressure(InAq)	Option Code
	0.098	01C06C-1C6933-271A21-370000



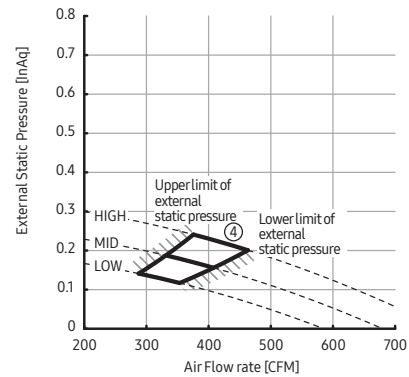
②	External Static Pressure(InAq)	Option Code
	0.157	01C06C-1C59CC-271A21-370000



③	External Static Pressure(InAq)	Option Code
	0.197	01C06C-1C5AF0-271A21-370000



④	External Static Pressure(InAq)	Option Code
	0.236	01C06C-1C5E24-271A21-370000



Note

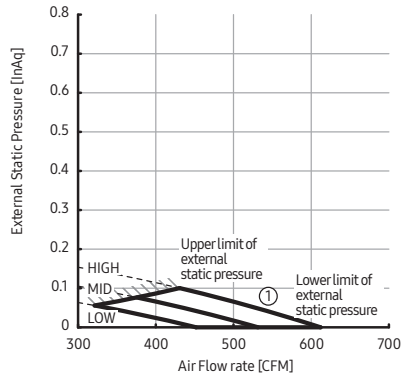
Adjust option code according to the actual installation condition (external static pressure).
 The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

7 PQ Curve

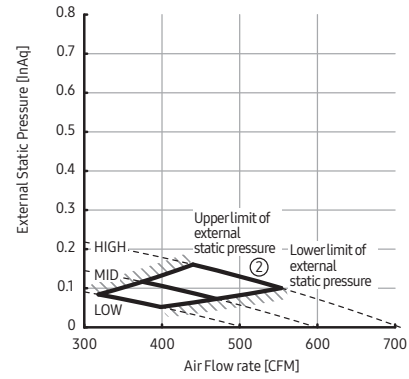
Indoor : Slim Duct

2) CNH12LDK (AC012KNLDCH/AA)

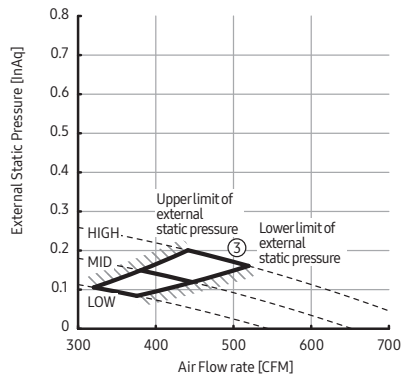
①	External Static Pressure(InAq)	Option Code
	0.098	01C06C-1C7968-272328-370000



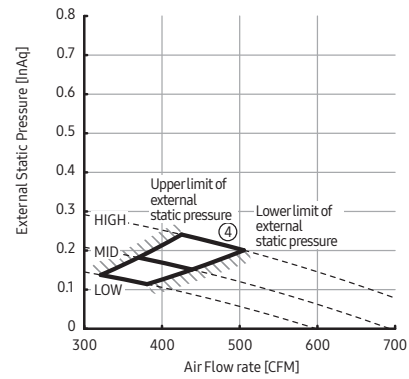
②	External Static Pressure(InAq)	Option Code
	0.157	01C06C-1C5AF1-272328-370000



③	External Static Pressure(InAq)	Option Code
	0.197	01C06C-1C5E24-272328-370000



④	External Static Pressure(InAq)	Option Code
	0.236	01C06C-1C5E47-272328-370000



Note

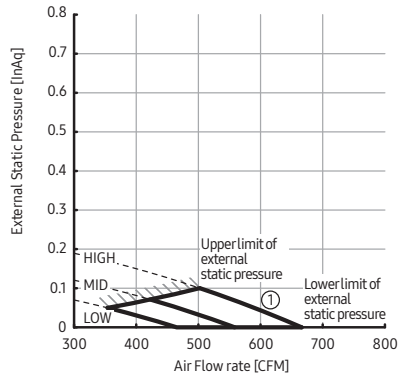
Adjust option code according to the actual installation condition (external static pressure).
 The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

7 PQ Curve

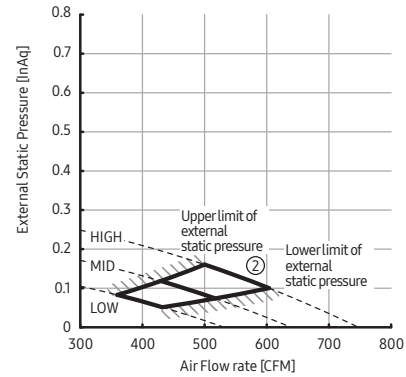
Indoor : Slim Duct

3) CNH18LDK (AC018KNLDDCH/AA)

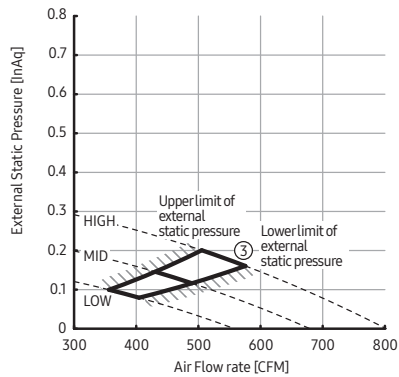
①	External Static Pressure(InAq)	Option Code
	0.098	01C06C-1C7944-27343C-370000



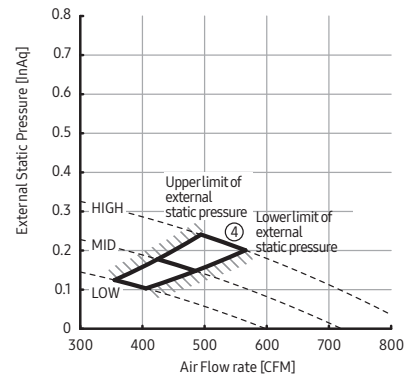
②	External Static Pressure(InAq)	Option Code
	0.157	01C06C-1C5978-27343C-370000



③	External Static Pressure(InAq)	Option Code
	0.197	01C06C-1C59AB-27343C-370000



④	External Static Pressure(InAq)	Option Code
	0.236	01C06C-1C59DF-27343C-370000



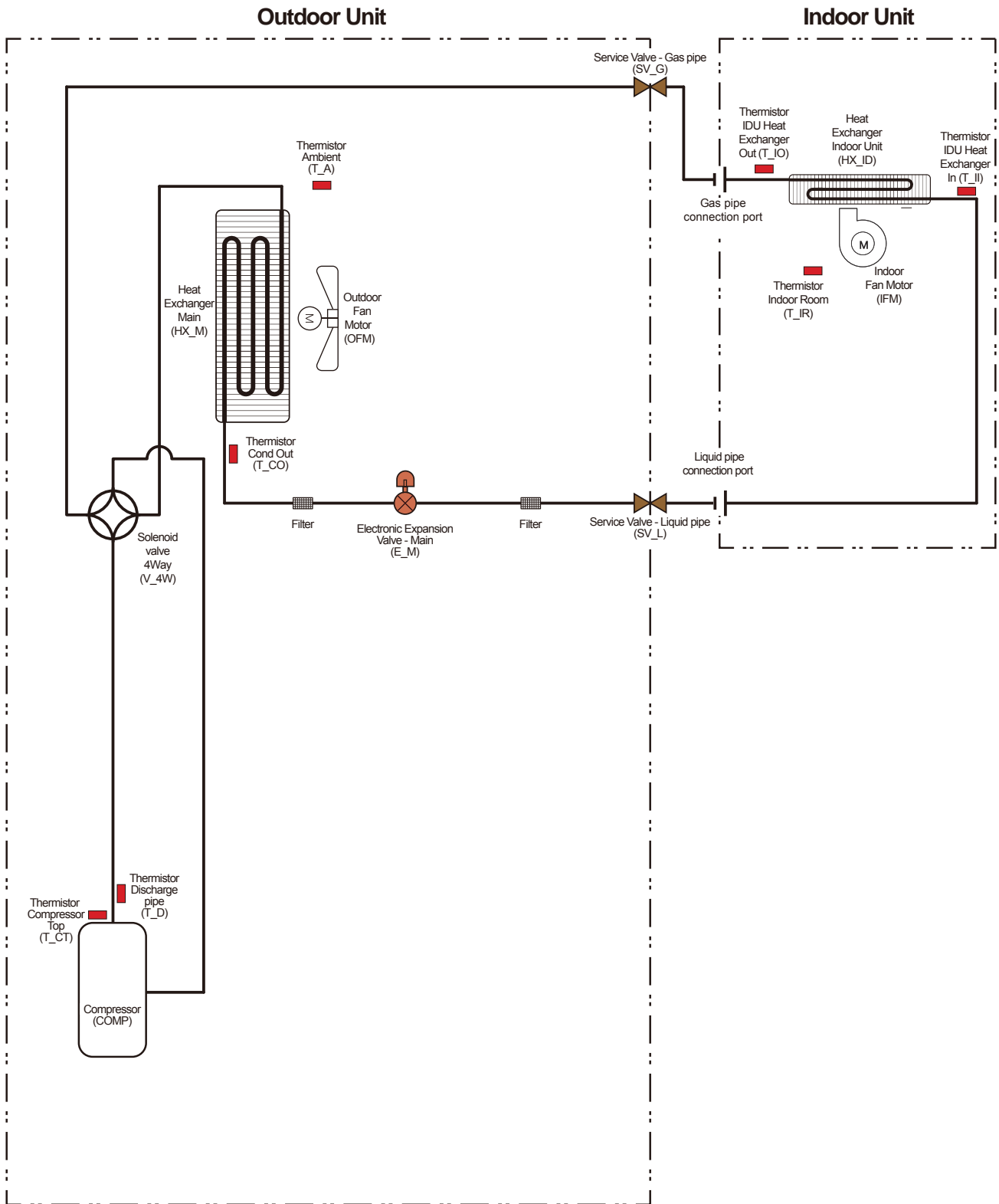
Note

Adjust option code according to the actual installation condition (external static pressure).
 The graphs display the available external static pressure range of installed indoor units. Therefore, they do not reflect the actual change of external static pressure and airflow rate according to adjusted airflow (High-Mid-Low) of installed indoor units.

8 Cycle diagram

Outdoor

CXH09ADK(AC009KXADCH/AA), CXH12ADK(AC012KXADCH/AA), CXH18ADK(AC018KXADCH/AA)




9 Capacity correction

Outdoor

CNH09LDK(AC009KNLDCH/AA) + CXH09ADK(AC009KXADCH/AA)


Cooling



		Pipe Length (ft)			
		16.4	32.8	49.2	65.6
Level Difference (ft)	49.2	-	-	0.96	0.95
	32.8	-	0.98	0.96	0.95
	16.4	1.00	0.98	0.96	0.95
	0	1.00	0.98	0.96	0.95
	-16.4	1.00	0.97	0.96	0.94
	-32.8	-	0.96	0.95	0.94
	-49.2	-	-	0.95	0.93

CNH12LDK(AC012KNLDCH/AA) + CXH12ADK(AC012KXADCH/AA)


Cooling



		Pipe Length (ft)			
		16.4	32.8	49.2	65.6
Level Difference (ft)	49.2	-	-	0.96	0.95
	32.8	-	0.98	0.96	0.95
	16.4	1.00	0.98	0.96	0.95
	0	1.00	0.98	0.96	0.95
	-16.4	1.00	0.97	0.96	0.94
	-32.8	-	0.96	0.95	0.94
	-49.2	-	-	0.95	0.93

CNH18LDK(AC018KNLDCH/AA) + CXH18ADK(AC018KXADCH/AA)

Cooling



		Pipe Length (ft)					
		16.4	32.8	49.2	65.6	82	98.4
Level Difference (ft)	65.6	-	-	-	0.96	0.94	0.93
	49.2	-	-	0.97	0.96	0.94	0.93
	32.8	-	0.99	0.97	0.96	0.94	0.93
	16.4	1.00	0.99	0.97	0.96	0.94	0.93
	0	1.00	0.99	0.97	0.96	0.94	0.93
	-16.4	1.00	0.98	0.97	0.95	0.94	0.92
	-32.8	-	0.97	0.96	0.95	0.93	0.92
	-49.2	-	-	0.96	0.94	0.93	0.92
	-65.6	-	-	-	0.94	0.92	0.91

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