SINGLE

Technical Data Book

Multi-position AHU for North America (R410A, 60Hz, H/P)

Model : AC***KNZDCH/AA (IDU)
AC***JXADCH/AA (ODU)

SAMSUNG

History

Version	Modification	Date	Remark
Ver.0.0	Release SINGLE Multi-position AHU Pre-TDB for NA (R410A, 60Hz, HP)	16.03.02.	Preliminary Ver.
Ver.1.0	Release SINGLE Multi-position AHU TDB for NA (R410A, 60Hz, HP)	16.03.22.	Final Ver.
Ver.1.1	Modification for '2. Specification'. (COP: BTU/h-W → W/W)	16.04.21.	
Ver.1.2	Add the 54K model	16.04.28.	

Index

1 Nomenclature

Indoor Units

Model Names

AC	036	K	N	Z	D	C	H	/	AA
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	SINGLE

(2) Capacity

x 1000 Btu/h (3 digits)

(3) Version

F	2013
H	2014
J	2015
K	2016
L	2017

(4) Product Type

N	Indoor Unit (NASA)
B	Indoor Unit (Non-NASA)

(5) Feature1

4	4Way Cassette S / 360 Cassette
C	Ceiling
L	LSP Duct
M	MSP Duct
H	HSP Duct
Z	Multi-position AHU

(6) Feature2

F	Flagship
P	Premium
D	Deluxe
S	Standard

(7) Rating Voltage

C	1Φ, 208~230V, 60Hz
H	3Φ, 400V, 60Hz

(8) Mode

H	Heat Pump(R410A)
C	Cooling Only(R410A)
E	Heat Pump(R22)
D	Cooling Only(R22)

1 Nomenclature

Outdoor Units

Model Names

AC	036	J	X	A	D	C	H	/	AA
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)		Buyer

(1) Classification

AC	SINGLE

(2) Capacity

x 1000 Btu/h (3 digits)

(3) Version

F	2013
H	2014
J	2015
K	2016
L	2017

(4) Product Type

X	Outdoor Unit (NASA)
C	Outdoor Unit (Non-NASA)

(5) Feature1

A	Inv+Side+General Temp
S	Inv+Side+Low Temp
Q	Inv+Side+Tropical Temp
R	Non Inv+Side+Tropical Temp
4	4Way Cassette only
M	MSP Duct only

(6) Feature2

D	DELUXE
C	DELUXE+Low Temp.
T	DELUXE+TROPICAL
R	PREMIUM+TROPICAL

(7) Rating Voltage

C	1Φ, 208~230V, 60Hz
H	3Φ, 400V, 60Hz

(8) Mode

H	Heat Pump (R410A)
C	Cooling Only (R410A)
E	Heat Pump (R22)
D	Cooling Only (R22)

2 Specifications

Multi-position AHU

Type						Multi-position AHU	Multi-position AHU
Model Name		Indoor Unit				AC018KNZDCH/AA	AC024KNZDCH/AA
		Outdoor Unit				AC018JXADCH/AA	AC024JXADCH/AA
System	Mode				-	HEAT PUMP	HEAT PUMP
	Capacity (Norminal)	Cooling (MIN/STD/MAX)			Btu/h	5,000 / 18,000 / 21,000	7,000 / 24,000 / 27,000
					kW	1.46 / 5.28 / 6.15	2.05 / 7.03 / 7.91
					USRT	0.42 / 1.50 / 1.75	0.58 / 2.00 / 2.25
		Heating (MIN/STD/MAX)			Btu/h	4,400 / 20,000 / 24,000	6,700 / 27,000 / 29,000
					kW	1.29 / 5.86 / 7.03	1.96 / 7.91 / 8.50
					USRT	0.37 / 1.67 / 2.00	0.56 / 2.25 / 2.42
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)		kW	0.35 / 1.60 / 2.30	0.55 / 2.18 / 2.55
			Heating (Min / Std / Max)			0.30 / 2.00 / 2.70	0.51 / 2.64 / 3.15
		Current Input (Nominal)	Cooling (Min / Std / Max)		A	2.4 / 7.1 / 9.6	3.8 / 9.8 / 12.0
			Heating (Min / Std / Max)			2.2 / 8.7 / 10.0	3.6 / 11.6 / 12.8
		MCA			A	9.40	13.58
		MOP			A	15	20
	Energy Efficiency	EER (Nominal Cooling)			Btu/h-W	11.25	11.01
		COP (Nominal Heating)			W/W	2.92	3.00
		Energy Grade			Energy Grade (C)	SEER 20.1	SEER 19.5
					Energy Grade (H)	HSPF 10.5	HSPF 11.5
	Piping Connections	Liquid Pipe			Φ, mm	6.35	6.35
					Φ, inch	1/4"	1/4"
		Gas Pipe			Φ, mm	12.7	15.88
					Φ, inch	1/2"	5/8"
		Installation Limitation	Max. Length (Outdoor to indoor)		m	30	50
					ft	98.4	164
			Max. Height (Between ID/OD)		m	20	30
					ft	65.6	98.4
	Refrigerant	Type			-	R410A	R410A
		Factory Charging			kg	1.3	2.1
					lbs	2.87	4.63
Indoor Unit	Power Supply				Φ, #, V, Hz	1, 2, 208-230, 60	1, 2, 208-230, 60
	Fan	Type			-	Sirocco (ECM)	Sirocco (ECM)
		Motor		Output	W	290	290
		Number of Unit			EA	1	1
		Air Flow Rate		High / Mid / Low	CFM	600.4 / 529.7 / 494.4	759.3 / 635.7 / 547.4
					CMM	17.0 / 15.0 / 14.0	21.5 / 18.0 / 15.5
		External Static Pressure		Min / Std / Max	In Wg	0.0 / 0.2 / 0.8	0.0 / 0.2 / 0.8
	Drain	Drain Pipe			Φ, inch	FPT 3/4"	FPT 3/4"
	Sound	Sound Pressure	High / Mid / Low		dB(A)	38 / 35 / 32	41 / 38 / 35
	External Dimension	Net Weight			kg	44.5	44.5
					lbs	98.11	98.11
		Shipping Weight			kg	49.0	49.0
					lbs	108.03	108.03
		Net Dimensions (WxHxD)			mm	445 x 1,092 x 533	445 x 1,092 x 533
					inch	17.50 x 43.00 x 21.00	17.50 x 43.00 x 21.00
		Shipping Dimensions (WxHxD)			mm	493 x 1,135 x 665	493 x 1,135 x 665
					inch	19.50 x 44.75 x 26.25	19.50 x 44.75 x 26.25
	Additional Accessories	Air Filter Base (option, for vertical installation)			-	VFB-1 (MERV 8)	VFB-1 (MERV 8)
		Heater kit (option, see NOTE 3)			-	VHK-103A VHK-105A	VHK-103A VHK-105A
Outdoor Unit	Power Supply				Φ, #, V, Hz	1, 2, 208-230, 60	1, 2, 208-230, 60
	Compressor	Type			-	Twin BLDC Rotary	Twin BLDC Rotary
		Model			-	UG4T150LNBEQ	UG4T200LNFE4
		Output			kW	1.42	1.85
		Oil	Type		-	POE	POE
	Fan	Air Flow Rate	Cooling		CFM	1,550	2,190
	Sound	Sound Pressure	Cooling / Heating		dB(A)	48 / 48	50 / 50
	External Dimension	Net Weight			kg	45.0	64.5
					lbs	99.2	142.2
		Shipping Weight			kg	48.0	69.5
					lbs	105.8	153.2
		Net Dimensions (WxHxD)			mm	880 x 638 x 310	940 x 998 x 330
					inch	34.6 × 25.1 × 12.2	37.0 × 39.3 × 13.0
		Shipping Dimensions (WxHxD)			mm	1,023 x 730 x 413	995 x 1,096 x 426
					inch	40.3 × 28.7 × 16.3	39.2 × 43.1 × 16.8
	Operating Temp. Range	Cooling			℉	0 ~ 115	0 ~ 115
		Heating			℉	-4 ~ 75	-4 ~ 75

* Specifications may be subject to change without prior notice.

1) Nominal capacity are based on (Refrigerant Piping : 24.6ft , Level Differences : 0ft);

. Cooling : Indoor temp. 80°F DB, 67°F WB / Outdoor temp. 95°F DB, 75°F WB . Heating : Indoor temp. 70°F DB, 60°F WB / Outdoor temp. 47°F DB, 43°F WB

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

3) VHK-*03/05/10A: 3/5/10[kW] supplemental electric heat kit.

4) These products contain R410A which is fluorinated greenhouse gas.

2 Specifications

Multi-position AHU

Type						Multi-position AHU	Multi-position AHU
Model Name		Indoor Unit				AC030KNZDCH/AA	AC036KNZDCH/AA
		Outdoor Unit				AC030JXADCH/AA	AC036JXADCH/AA
System	Mode				-	HEAT PUMP	HEAT PUMP
	Capacity (Norminal)	Cooling (MIN/STD/MAX)			Btu/h	10,000 / 30,000 / 33,000	14,000 / 36,000 / 39,000
					kW	2.93 / 8.79 / 9.67	4.10 / 10.55 / 11.43
					USRT	0.83 / 2.50 / 2.75	1.17 / 3.00 / 3.25
		Heating (MIN/STD/MAX)			Btu/h	9,000 / 32,000 / 36,000	12,000 / 40,000 / 43,000
					kW	2.64 / 9.38 / 10.55	3.52 / 11.72 / 12.60
					USRT	0.75 / 2.67 / 3.00	1.00 / 3.33 / 3.58
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)		kW	0.82 / 2.95 / 3.67	0.98 / 3.16 / 3.45
			Heating (Min / Std / Max)			0.75 / 2.82 / 4.35	0.81 / 3.62 / 4.70
		Current Input (Nominal)	Cooling (Min / Std / Max)		A	4.5 / 13.0 / 17.2	5.1 / 14.1 / 18.2
			Heating (Min / Std / Max)			4.1 / 12.3 / 20.2	4.5 / 15.8 / 23.0
		MCA			A	21.71	26.36
		MOP			A	35	40
	Energy Efficiency	EER (Nominal Cooling)			Btu/h-W	10.17	11.39
		COP (Nominal Heating)			W/W	3.33	3.24
		Energy Grade			Energy Grade (C)	SEER 19.6	SEER 19.0
					Energy Grade (H)	HSPF 10.4	HSPF 10.2
	Piping Connections	Liquid Pipe			Φ, mm	9.52	9.52
					Φ, inch	3/8"	3/8"
		Gas Pipe			Φ, mm	15.88	15.88
					Φ, inch	5/8"	5/8"
		Installation Limitation	Max. Length (Outdoor to indoor)		m	50	75
					ft	164	246.1
			Max. Height (Between ID/OD)		m	30	30
					ft	98.4	98.4
	Refrigerant	Type			-	R410A	R410A
		Factory Charging			kg	2.6	2.8
					lbs	5.73	6.17
Indoor Unit	Power Supply				Φ, #, V, Hz	1, 2, 208-230, 60	1, 2, 208-230, 60
	Fan	Type			-	Sirocco (ECM)	Sirocco (ECM)
		Motor		Output	W	410	410
		Number of Unit			EA	1	1
		Air Flow Rate		High / Mid / Low	CFM	1,006.5 / 918.2 / 847.6	1,165.4 / 1,041.8 / 882.9
					CMM	28.5 / 26.0 / 24.0	33.0 / 29.5 / 25.0
		External Static Pressure		Min / Std / Max	In Wg	0.0 / 0.24 / 1.0	0.0 / 0.24 / 1.0
	Drain	Drain Pipe			Φ, inch	FPT 3/4"	FPT 3/4"
	Sound	Sound Pressure	High / Mid / Low		dB(A)	41 / 38 / 35	42 / 39 / 36
	External Dimension	Net Weight			kg	56.0	56.0
					lbs	123.46	123.46
		Shipping Weight			kg	62.0	62.0
					lbs	136.69	136.69
		Net Dimensions (WxHxD)			mm	533 x 1,219 x 533	533 x 1,219 x 533
					inch	21.00 x 48.00 x 21.00	21.00 x 48.00 x 21.00
		Shipping Dimensions (WxHxD)			mm	590 x 1,305 x 665	590 x 1,305 x 665
					inch	23.25 x 51.50 x 26.25	23.25 x 51.50 x 26.25
	Additional Accessories	Air Filter Base (option, for vertical installation)			-	VFB-2 (MERV 8)	VFB-2 (MERV 8)
		Heater kit (option, see NOTE 3)			-	VHK-205A VHK-210A	VHK-205A VHK-210A
Outdoor Unit	Power Supply				Φ, #, V, Hz	1, 2, 208-230, 60	1, 2, 208-230, 60
	Compressor	Type			-	Twin BLDC Rotary	Twin BLDC Rotary
		Model			-	UG8T300LNBJU	UG5T450FUEJX
		Output			kW	2.82	4.12
		Oil	Type		-	PVE	PVE
	Fan	Air Flow Rate	Cooling		CFM	2,220	3,040
	Sound	Sound Pressure	Cooling / Heating		dB(A)	50 / 52	49 / 51
	External Dimension	Net Weight			kg	70.0	88.0
					lbs	154.3	194.0
		Shipping Weight			kg	74.0	98.0
					lbs	163.1	216.0
		Net Dimensions (WxHxD)			mm	940 x 998 x 330	940 x 1,210 x 330
					inch	37.0 × 39.3 × 13.0	37.0 × 47.6 × 13.0
		Shipping Dimensions (WxHxD)			mm	995 x 1,096 x 426	995 x 1,388 x 426
					inch	39.2 × 43.1 × 16.8	39.2 × 54.6 × 16.8
	Operating Temp. Range	Cooling			℉	0 ~ 115	0 ~ 115
		Heating			℉	-4 ~ 75	-4 ~ 75

* Specifications may be subject to change without prior notice.

1) Nominal capacity are based on (Refrigerant Piping : 24.6ft , Level Differences : 0ft);

. Cooling : Indoor temp. 80°F DB, 67°F WB / Outdoor temp. 95°F DB, 75°F WB . Heating : Indoor temp. 70°F DB, 60°F WB / Outdoor temp. 47°F DB, 43°F WB

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

3) VHK-*03/05/10A: 3/5/10[kW] supplemental electric heat kit.

4) These products contain R410A which is fluorinated greenhouse gas.

2 Specifications

Multi-position AHU

Type						Multi-position AHU	Multi-position AHU
Model Name		Indoor Unit				AC042KNZDCH/AA	AC048KNZDCH/AA
		Outdoor Unit				AC042JXADCH/AA	AC048JXADCH/AA
System	Mode				-	HEAT PUMP	HEAT PUMP
	Capacity (Norminal)	Cooling (MIN/STD/MAX)			Btu/h	17,000 / 42,000 / 44,000	19,000 / 48,000 / 50,000
					kW	4.98 / 12.31 / 12.90	5.57 / 14.07 / 14.65
					USRT	1.42 / 3.50 / 3.67	1.58 / 4.00 / 4.17
		Heating (MIN/STD/MAX)			Btu/h	14,000 / 47,000 / 49,000	16,000 / 53,000 / 55,000
					kW	4.10 / 13.77 / 14.36	4.69 / 15.53 / 16.12
					USRT	1.17 / 3.92 / 4.08	1.33 / 4.42 / 4.58
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)		kW	1.15 / 4.14 / 4.46	1.42 / 5.00 / 5.40
			Heating (Min / Std / Max)			0.88 / 4.22 / 5.30	1.28 / 4.95 / 5.60
		Current Input (Nominal)	Cooling (Min / Std / Max)		A	5.6 / 18.0 / 21.2	7.9 / 21.3 / 23.0
			Heating (Min / Std / Max)			5.5 / 18.3 / 22.5	7.5 / 21.6 / 23.5
		MCA			A	26.36	26.36
		MOP			A	40	40
	Energy Efficiency	EER (Nominal Cooling)			Btu/h-W	10.14	9.60
		COP (Nominal Heating)			W/W	3.26	3.14
		Energy Grade			Energy Grade (C)	SEER 18.4	SEER 18.0
					Energy Grade (H)	HSPF 9.6	HSPF 9.7
	Piping Connections	Liquid Pipe			Φ, mm	9.52	9.52
					Φ, inch	3/8"	3/8"
		Gas Pipe			Φ, mm	15.88	15.88
					Φ, inch	5/8"	5/8"
		Installation Limitation	Max. Length (Outdoor to indoor)		m	75	75
					ft	246.1	246.1
			Max. Height (Between ID/OD)		m	30	30
					ft	98.4	98.4
	Refrigerant	Type			-	R410A	R410A
		Factory Charging			kg	2.8	2.8
					lbs	6.17	6.17
Indoor Unit	Power Supply				Φ, #, V, Hz	1, 2, 208-230, 60	1, 2, 208-230, 60
	Fan	Type			-	Sirocco (ECM)	Sirocco (ECM)
		Motor		Output	W	410	590
		Number of Unit			EA	1	1
		Air Flow Rate		High / Mid / Low	CFM	1,271.4 / 1,165.4 / 1,059.5	1,412.6 / 1,271.4 / 1,130.1
					CMM	36.0 / 33.0 / 30.0	40.0 / 36.0 / 32.0
		External Static Pressure		Min / Std / Max	In Wg	0.1 / 0.28 / 1.0	0.1 / 0.28 / 1.0
	Drain	Drain Pipe			Φ, inch	FPT 3/4"	FPT 3/4"
	Sound	Sound Pressure	High / Mid / Low		dB(A)	42 / 39 / 36	43 / 41 / 38
	External Dimension	Net Weight			kg	74.0	74.0
					lbs	163.14	163.14
		Shipping Weight			kg	80.0	80.0
					lbs	176.37	176.37
		Net Dimensions (WxHxD)			mm	622 x 1,492 x 553	622 x 1,492 x 553
					inch	24.50 x 58.75 x 21.75	24.50 x 58.75 x 21.75
		Shipping Dimensions (WxHxD)			mm	676 x 1,588 x 695	676 x 1,588 x 695
					inch	26.50 x 62.50 x 27.25	26.50 x 62.50 x 27.25
	Additional Accessories	Air Filter Base (option, for vertical installation)			-	VFB-3 (MERV 8)	VFB-3 (MERV 8)
		Heater kit (option, see NOTE 3)			-	VHK-305A VHK-310A	VHK-305A VHK-310A
Outdoor Unit	Power Supply				Φ, #, V, Hz	1, 2, 208-230, 60	1, 2, 208-230, 60
	Compressor	Type			-	Twin BLDC Rotary	Twin BLDC Rotary
		Model			-	UG5T450FUEJX	UG5T450FUEJX
		Output			kW	4.12	4.12
		Oil	Type		-	PVE	PVE
	Fan	Air Flow Rate	Cooling		CFM	3,040	3,040
	Sound	Sound Pressure	Cooling / Heating		dB(A)	51 / 53	53 / 55
	External Dimension	Net Weight			kg	88.0	88.0
					lbs	194.0	194.0
		Shipping Weight			kg	98.0	98.0
					lbs	216.0	216.0
		Net Dimensions (WxHxD)			mm	940 x 1,210 x 330	940 x 1,210 x 330
					inch	37.0 × 47.6 × 13.0	37.0 × 47.6 × 13.0
		Shipping Dimensions (WxHxD)			mm	995 x 1,388 x 426	995 x 1,388 x 426
					inch	39.2 × 54.6 × 16.8	39.2 × 54.6 × 16.8
	Operating Temp. Range	Cooling			℉	0 ~ 115	0 ~ 115
		Heating			℉	-4 ~ 75	-4 ~ 75

* Specifications may be subject to change without prior notice.

1) Nominal capacity are based on (Refrigerant Piping : 24.6ft , Level Differences : 0ft);

. Cooling : Indoor temp. 80°F DB, 67°F WB / Outdoor temp. 95°F DB, 75°F WB . Heating : Indoor temp. 70°F DB, 60°F WB / Outdoor temp. 47°F DB, 43°F WB

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

3) VHK-*03/05/10A: 3/5/10[kW] supplemental electric heat kit.

4) These products contain R410A which is fluorinated greenhouse gas.

2 Specifications

Multi-position AHU

Type					Multi-position AHU
Model Name	Indoor Unit				AC054KNZDCH/AA
	Outdoor Unit				AC054KXADCH/AA
System	Mode			-	HEAT PUMP
	Capacity (Norminal)	Cooling (MIN/STD/MAX)		Btu/h	21,000 / 54,000 / 55,000
				kW	6.15 / 15.83 / 16.12
				USRT	1.75 / 4.50 / 4.58
		Heating (MIN/STD/MAX)		Btu/h	21,000 / 60,000 / 62,000
				kW	6.15 / 17.58 / 18.17
				USRT	1.75 / 5.00 / 5.17
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	1.92 / 6.72 / 7.30
			Heating (Min / Std / Max)		1.95 / 5.80 / 7.80
		Current Input (Nominal)	Cooling (Min / Std / Max)	A	10.1 / 28.7 / 35.8
			Heating (Min / Std / Max)		10.2 / 24.7 / 38.5
		MCA		A	41.64
		MOP		A	70
	Energy Efficiency	EER (Nominal Cooling)		Btu/h-W	8.04
		COP (Nominal Heating)		W/W	3.03
		Energy Grade		Energy Grade (C)	SEER 17.1
				Energy Grade (H)	HSPF 9.0
	Piping Connections	Liquid Pipe		Φ, mm	9.52
				Φ, inch	3/8"
		Gas Pipe		Φ, mm	19.05
				Φ, inch	3/4"
		Installation Limitation	Max. Length (Outdoor to indoor)	m	75
				ft	246.1
			Max. Height (Between ID/OD)	m	30
				ft	98.4
	Refrigerant	Type		-	R410A
		Factory Charging		kg	3.5
				lbs	7.72
Indoor Unit	Power Supply			Φ, #, V, Hz	1, 2, 208-230, 60
	Fan	Type		-	Sirocco (ECM)
		Motor	Output	W	590
		Number of Unit		EA	1
		Air Flow Rate	High / Mid / Low	CFM	1,889.4 / 1,500.9 / 1,342.0
				CMM	53.5 / 42.5 / 38.0
		External Static Pressure	Min / Std / Max	In Wg	0.1 / 0.28 / 1.0
	Drain	Drain Pipe		Φ, inch	FPT 3/4"
	Sound	Sound Pressure	High / Mid / Low	dB(A)	45 / 42 / 39
	External Dimension	Net Weight		kg	74.0
				lbs	163.14
		Shipping Weight		kg	80.0
				lbs	176.37
		Net Dimensions (WxHxD)		mm	622 x 1,492 x 553
				inch	24.50 x 58.75 x 21.75
		Shipping Dimensions (WxHxD)		mm	676 x 1,588 x 695
				inch	26.50 x 62.50 x 27.25
	Additional Accessories	Air Filter Base (option, for vertical installation)		-	VFB-3 (MERV 8)
		Heater kit (option, see NOTE 3)		-	VHK-305A VHK-310A VHK-315A
Outdoor Unit	Power Supply			Φ, #, V, Hz	1, 2, 208-230, 60
	Compressor	Type		-	Twin BLDC Rotary
		Model		-	UG5T450FXAJX
		Output		kW	4.01
		Oil	Type	-	PVE
	Fan	Air Flow Rate	Cooling	CFM	5160
	Sound	Sound Pressure	Cooling / Heating	dB(A)	56 / 56
	External Dimension	Net Weight		kg	96.0
				lbs	211.6
		Shipping Weight		kg	106.0
				lbs	233.7
		Net Dimensions (WxHxD)		mm	940 x 1420 x 330
				inch	37.0 × 55.9 × 13.0
		Shipping Dimensions (WxHxD)		mm	995 x 1598 x 426
				inch	39.2 × 62.9 × 16.8
	Operating Temp. Range	Cooling		ºF	0 ~ 115
		Heating		ºF	-4 ~ 75

* Specifications may be subject to change without prior notice.

1) Nominal capacity are based on (Refrigerant Piping : 24.6ft , Level Differences : 0ft);

. Cooling : Indoor temp. 80°F DB, 67°F WB / Outdoor temp. 95°F DB, 75°F WB . Heating : Indoor temp. 70°F DB, 60°F WB / Outdoor temp. 47°F DB, 43°F WB

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

3) VHK-*05/10/15A: 5/10/15[kW] supplemental electric heat kit.

4) These products contain R410A which is fluorinated greenhouse gas.

3 Capacity table

Multi-position AHU

AC018KNZDCH + AC018JXADCH

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
0	20.5	16.4	0.70	21.0	16.8	0.71	21.5	17.2	0.73	22.0	17.6	0.75	22.2	17.8	0.76	22.4	18.0	0.77	22.7	18.1	0.77
70	21.8	17.5	1.21	22.4	17.9	1.24	22.9	18.3	1.27	23.5	18.8	1.30	23.7	19.0	1.31	24.0	19.2	1.33	24.2	19.4	1.34
95	16.7	13.4	1.49	17.1	13.7	1.52	17.6	14.1	1.56	18.0	14.4	1.60	18.2	14.5	1.62	18.4	14.7	1.63	18.5	14.8	1.65
115	16.3	13.0	2.27	16.7	13.3	2.32	17.1	13.7	2.38	17.5	14.0	2.44	17.7	14.1	2.46	17.9	14.3	2.49	18.0	14.4	2.51

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
-4.0	10.5	1.58	10.4	1.56	10.3	1.55	10.2	1.53	10.1	1.5	10.0	1.5
14.0	19.6	1.95	19.4	1.93	19.2	1.91	19.0	1.89	18.8	1.9	18.6	1.9
32.0	20.5	1.94	20.3	1.92	20.1	1.90	19.9	1.88	19.7	1.9	19.5	1.8
47.0	20.6	2.06	20.4	2.04	20.2	2.02	20.0	2.00	19.8	2.0	19.6	2.0
75.2	26.0	1.46	25.7	1.45	25.5	1.43	25.2	1.42	24.9	1.4	24.7	1.4

AC024KNZDCH + AC024JXADCH

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
0	24.9	19.9	0.91	25.5	20.4	0.93	26.2	20.9	0.96	26.8	21.4	0.98	27.1	21.7	0.99	27.3	21.9	1.00	27.6	22.1	1.01
70	26.0	20.8	2.01	26.7	21.3	2.06	27.3	21.9	2.11	28.0	22.4	2.16	28.3	22.6	2.18	28.6	22.9	2.20	28.8	23.1	2.23
95	22.3	17.9	2.03	22.9	18.3	2.08	23.4	18.7	2.13	24.0	19.2	2.18	24.2	19.4	2.20	24.5	19.6	2.22	24.7	19.8	2.25
115	21.8	17.4	2.80	22.3	17.8	2.87	22.8	18.3	2.94	23.4	18.7	3.01	23.6	18.9	3.04	23.9	19.1	3.07	24.1	19.3	3.10

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
-4.0	17.3	2.73	17.1	2.70	17.0	2.68	16.8	2.65	16.6	2.6	16.5	2.6
14.0	26.3	3.55	26.0	3.52	25.8	3.48	25.5	3.45	25.2	3.4	25.0	3.4
32.0	27.3	3.25	27.0	3.21	26.8	3.18	26.5	3.15	26.2	3.1	26.0	3.1
47.0	27.8	2.72	27.5	2.69	27.3	2.67	27.0	2.64	26.7	2.6	26.5	2.6
75.2	34.5	2.67	34.2	2.64	33.8	2.62	33.5	2.59	33.2	2.6	32.8	2.5

* Nominal capacity are based on (Refrigerant Piping : 24.6ft , Level Differences : 0ft)
. Cooling : Indoor temp. 80°F DB, 67°F WB / Outdoor temp. 95°F DB, 75°F WB
. Heating : Indoor temp. 70°F DB, 60°F WB / Outdoor temp. 47°F DB, 43°F WB

3 Capacity table

Multi-position AHU

AC030KNZDCH + AC030JXADCH

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
0	32.4	26.0	1.75	33.2	26.6	1.79	34.1	27.2	1.83	34.9	27.9	1.88	35.2	28.2	1.90	35.6	28.5	1.92	36.0	28.8	1.94
70	30.2	24.2	2.71	31.0	24.8	2.78	31.7	25.4	2.85	32.5	26.0	2.92	32.8	26.3	2.95	33.2	26.5	2.98	33.5	26.8	3.01
95	27.9	22.3	2.74	28.6	22.9	2.81	29.3	23.4	2.88	30.0	24.0	2.95	30.3	24.2	2.98	30.6	24.5	3.01	30.9	24.7	3.04
115	23.8	19.0	3.11	24.4	19.5	3.18	25.0	20.0	3.26	25.6	20.5	3.34	25.9	20.7	3.37	26.1	20.9	3.41	26.4	21.1	3.44

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
-4.0	23.1	2.97	22.9	2.94	22.6	2.91	22.4	2.88	22.2	2.9	22.0	2.8
14.0	32.5	4.58	32.1	4.54	31.8	4.49	31.5	4.45	31.2	4.4	30.9	4.4
32.0	33.2	3.25	32.8	3.21	32.5	3.18	32.2	3.15	31.9	3.1	31.6	3.1
47.0	33.0	2.91	32.6	2.88	32.3	2.85	32.0	2.82	31.7	2.8	31.4	2.8
75.2	41.4	2.90	41.0	2.87	40.6	2.84	40.2	2.81	39.8	2.8	39.4	2.8

AC036KNZDCH + AC036JXADCH

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
0	34.9	27.9	2.37	35.7	28.6	2.43	36.6	29.3	2.49	37.5	30.0	2.55	37.9	30.3	2.58	38.3	30.6	2.60	38.6	30.9	2.63
70	35.4	28.3	2.49	36.3	29.0	2.55	37.2	29.7	2.62	38.1	30.5	2.68	38.5	30.8	2.71	38.9	31.1	2.73	39.3	31.4	2.76
95	33.5	26.8	2.94	34.3	27.4	3.01	35.1	28.1	3.08	36.0	28.8	3.16	36.4	29.1	3.19	36.7	29.4	3.22	37.1	29.7	3.26
115	25.3	20.2	3.02	25.9	20.7	3.10	26.5	21.2	3.17	27.2	21.8	3.25	27.5	22.0	3.28	27.7	22.2	3.32	28.0	22.4	3.35

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
-4.0	28.3	4.48	28.1	4.44	27.8	4.39	27.5	4.35	27.2	4.3	27.0	4.3
14.0	39.2	5.00	38.8	4.95	38.4	4.90	38.0	4.85	37.6	4.8	37.2	4.8
32.0	40.4	4.35	40.0	4.30	39.6	4.26	39.2	4.22	38.8	4.2	38.4	4.1
47.0	41.2	3.73	40.8	3.69	40.4	3.66	40.0	3.62	39.6	3.6	39.2	3.5
75.2	47.6	3.25	47.1	3.21	46.7	3.18	46.2	3.15	45.7	3.1	45.3	3.1

* Nominal capacity are based on (Refrigerant Piping : 24.6ft , Level Differences : 0ft)
  . Cooling : Indoor temp. 80°F DB, 67°F WB / Outdoor temp. 95°F DB, 75°F WB
  . Heating : Indoor temp. 70°F DB, 60°F WB / Outdoor temp. 47°F DB, 43°F WB

3 Capacity table

Multi-position AHU

AC042KNZDCH + AC042JXADCH

Cooling

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

Outdoor Temperature (℉, DB)	Indoor Temperature (℉, 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
0	41.4	33.1	3.02	42.4	33.9	3.10	43.4	34.7	3.17	44.5	35.6	3.25	44.9	36.0	3.28	45.4	36.3	3.32	45.8	36.7	3.35
70	40.2	32.1	3.16	41.2	32.9	3.24	42.2	33.7	3.32	43.2	34.6	3.40	43.6	34.9	3.43	44.1	35.3	3.47	44.5	35.6	3.50
95	39.0	31.2	3.85	40.0	32.0	3.94	41.0	32.8	4.04	42.0	33.6	4.14	42.4	33.9	4.18	42.8	34.3	4.22	43.3	34.6	4.27
115	28.0	22.4	3.92	28.7	22.9	4.02	29.4	23.5	4.12	30.1	24.1	4.22	30.4	24.3	4.26	30.7	24.6	4.30	31.0	24.8	4.35

Heating

TC : Total Capacity, PI: Power Input

Outdoor Temperature (℉, DB)	Indoor Temperature (℉, 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
-4.0	27.3	4.31	27.0	4.26	26.8	4.22	26.5	4.18	26.2	4.1	26.0	4.1
14.0	40.7	5.16	40.3	5.11	39.9	5.06	39.5	5.01	39.1	5.0	38.7	4.9
32.0	46.2	4.67	45.7	4.62	45.2	4.58	44.8	4.53	44.4	4.5	43.9	4.4
47.0	48.4	4.35	47.9	4.30	47.5	4.26	47.0	4.22	46.5	4.2	46.1	4.1
75.2	53.0	4.04	52.5	4.00	52.0	3.96	51.5	3.92	51.0	3.9	50.5	3.8

AC048KNZDCH + AC048JXADCH

Cooling

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

Outdoor Temperature (℉, DB)	Indoor Temperature (℉, 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
0	46.6	37.3	3.02	47.7	38.2	3.10	48.9	39.1	3.17	50.1	40.1	3.25	50.6	40.5	3.28	51.1	40.9	3.32	51.6	41.3	3.35
70	47.0	37.6	3.14	48.1	38.5	3.22	49.3	39.4	3.30	50.5	40.4	3.38	51.0	40.8	3.41	51.5	41.2	3.45	52.0	41.6	3.48
95	44.6	35.7	4.65	45.7	36.6	4.76	46.8	37.5	4.88	48.0	38.4	5.00	48.5	38.8	5.05	49.0	39.2	5.10	49.5	39.6	5.15
115	34.9	27.9	4.42	35.7	28.6	4.52	36.6	29.3	4.64	37.5	30.0	4.75	37.9	30.3	4.80	38.3	30.6	4.85	38.6	30.9	4.89

Heating

TC : Total Capacity PI: Power Input

Outdoor Temperature (℉, DB)	Indoor Temperature (℉, 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
-4.0	28.6	4.78	28.4	4.73	28.1	4.69	27.8	4.64	27.5	4.6	27.2	4.5
14.0	43.8	5.17	43.4	5.12	42.9	5.07	42.5	5.02	42.1	5.0	41.7	4.9
32.0	45.1	5.31	44.7	5.25	44.2	5.20	43.8	5.15	43.4	5.1	42.9	5.0
47.0	54.6	5.10	54.1	5.05	53.5	5.00	53.0	4.95	52.5	4.9	51.9	4.9
75.2	54.1	4.92	53.6	4.88	53.0	4.83	52.5	4.78	52.0	4.7	51.5	4.7

* Nominal capacity are based on (Refrigerant Piping : 24.6ft , Level Differences : 0ft)
. Cooling : Indoor temp. 80°F DB, 67°F WB / Outdoor temp. 95°F DB, 75°F WB
. Heating : Indoor temp. 70°F DB, 60°F WB / Outdoor temp. 47°F DB, 43°F WB

3 Capacity table

Multi-position AHU

AC054KNZDCH + AC054KXADCH

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
0	49.6	39.7	5.78	50.9	40.7	5.93	52.1	41.7	6.07	53.4	42.7	6.22	53.9	43.1	6.28	54.5	43.6	6.35	55.0	44.0	6.41
70	55.3	44.3	5.88	56.7	45.3	6.02	58.1	46.5	6.17	59.5	47.6	6.32	60.1	48.1	6.38	60.7	48.6	6.45	61.3	49.0	6.51
95	50.2	40.2	6.25	51.4	41.2	6.40	52.7	42.2	6.56	54.0	43.2	6.72	54.5	43.6	6.79	55.1	44.1	6.86	55.6	44.5	6.92
115	45.1	36.1	4.88	46.2	37.0	5.00	47.3	37.9	5.12	48.5	38.8	5.25	49.0	39.2	5.30	49.5	39.6	5.36	50.0	40.0	5.41

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
-4.0	43.5	5.41	43.0	5.36	42.6	5.30	42.2	5.25	41.8	5.2	41.4	5.1
14.0	51.7	6.78	51.2	6.71	50.7	6.65	50.2	6.58	49.7	6.5	49.2	6.4
32.0	61.3	7.05	60.7	6.98	60.1	6.91	59.5	6.84	58.9	6.8	58.3	6.7
47.0	61.8	5.98	61.2	5.92	60.6	5.86	60.0	5.80	59.4	5.7	58.8	5.7
75.2	64.4	5.67	63.8	5.61	63.1	5.56	62.5	5.50	61.9	5.4	61.3	5.4

* Nominal capacity are based on (Refrigerant Piping : 24.6ft , Level Differences : 0ft)
  . Cooling : Indoor temp. 80°F DB, 67°F WB / Outdoor temp. 95°F DB, 75°F WB
  . Heating : Indoor temp. 70°F DB, 60°F WB / Outdoor temp. 47°F DB, 43°F WB

4 Dimensional drawing

Indoor : Multi-position AHU

AC018KNZDCH/AA, AC024KNZDCH/AA

Units : mm / inches

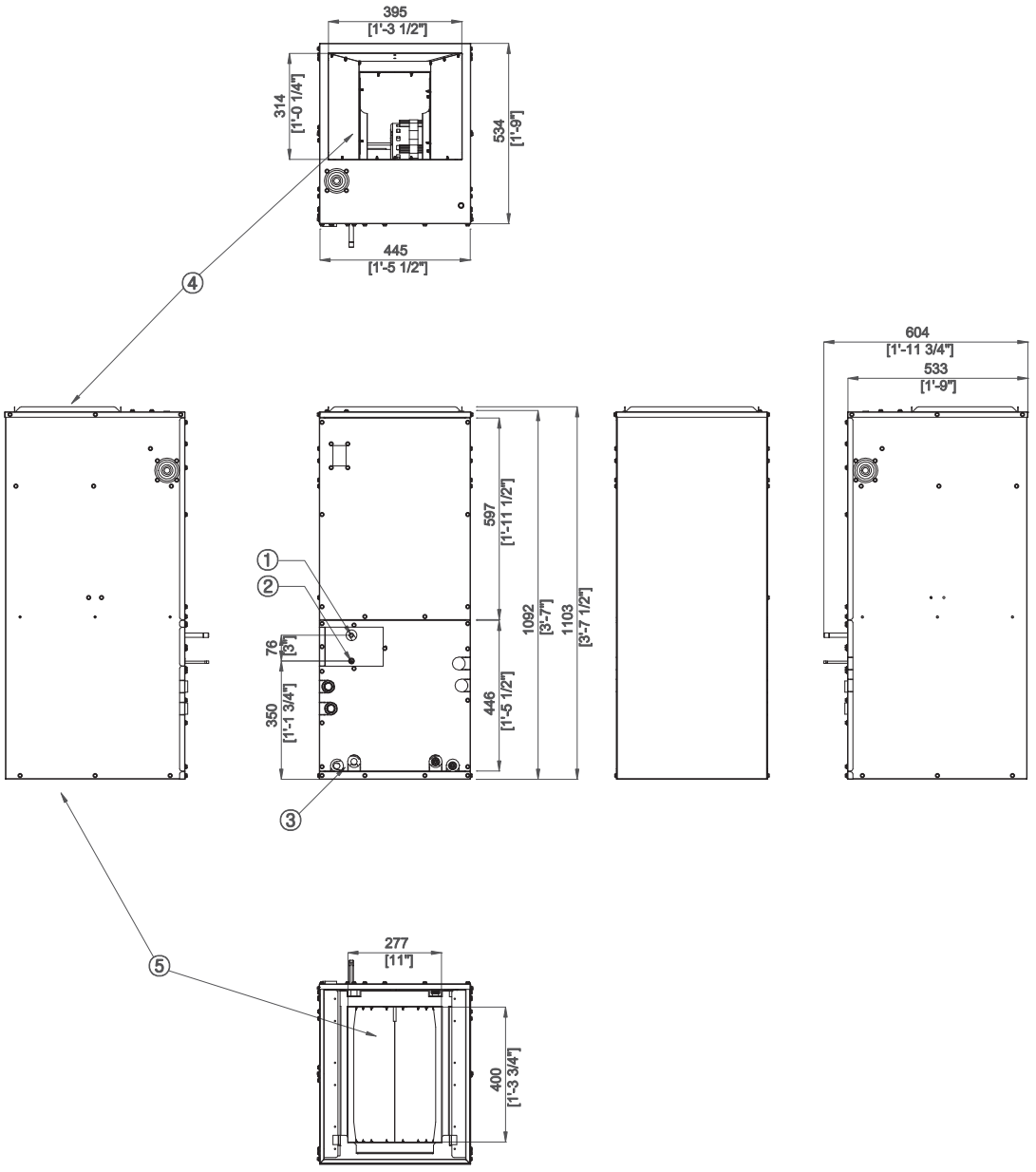


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Condensate drain pipe	9	
4	Air outlet	10	
5	Air intake	11	
6		12	

4 Dimensional drawing

Indoor : Multi-position AHU

AC030KNZDCH/AA, AC036KNZDCH/AA

Units : mm / inches

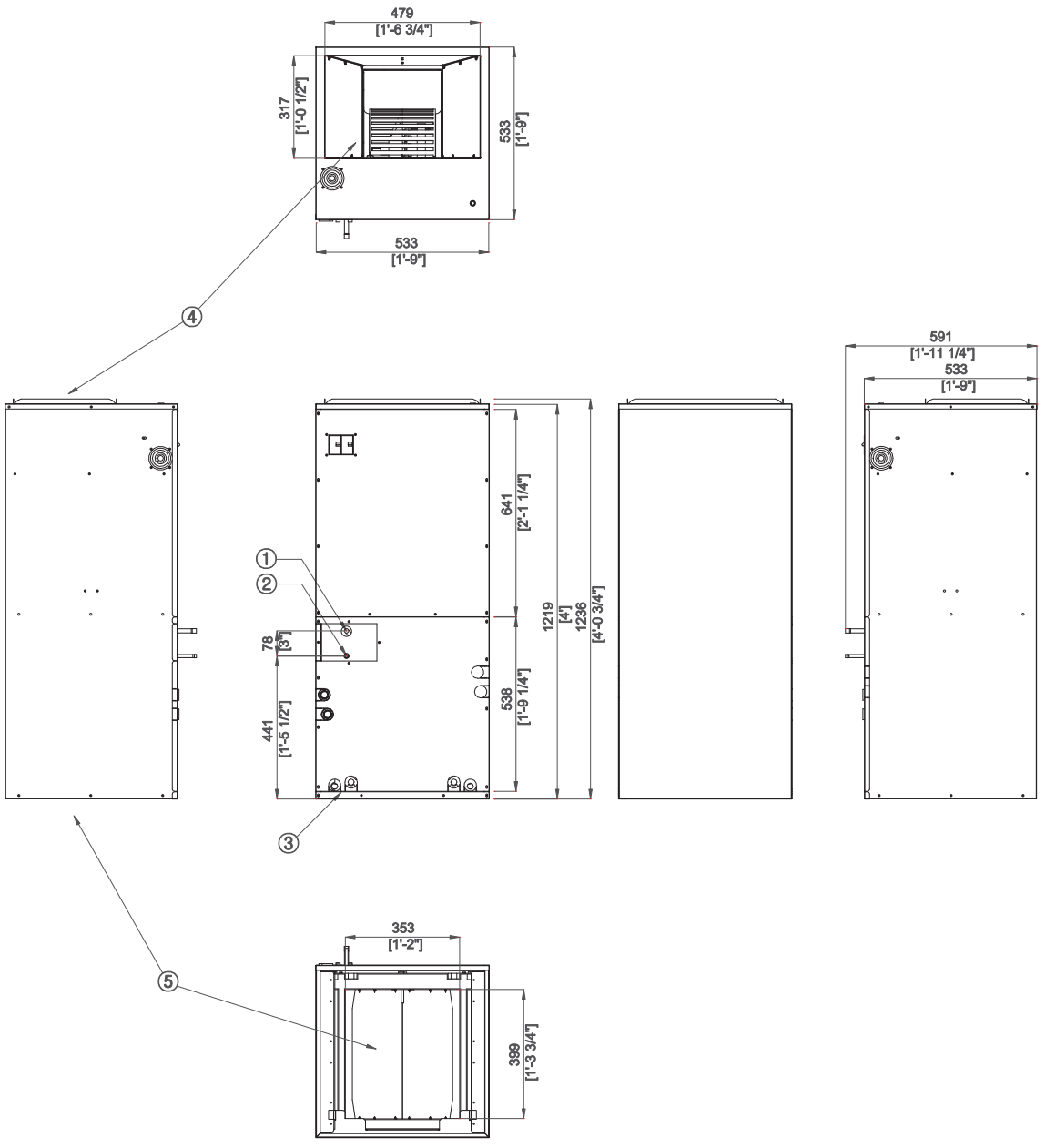


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Condensate drain pipe	9	
4	Air outlet	10	
5	Air intake	11	
6		12	

4 Dimensional drawing

Indoor : Multi-position AHU

AC042KNZDCH/AA, AC048KNZDCH/AA, AC054KNZDCH/AA

Units : mm / inches

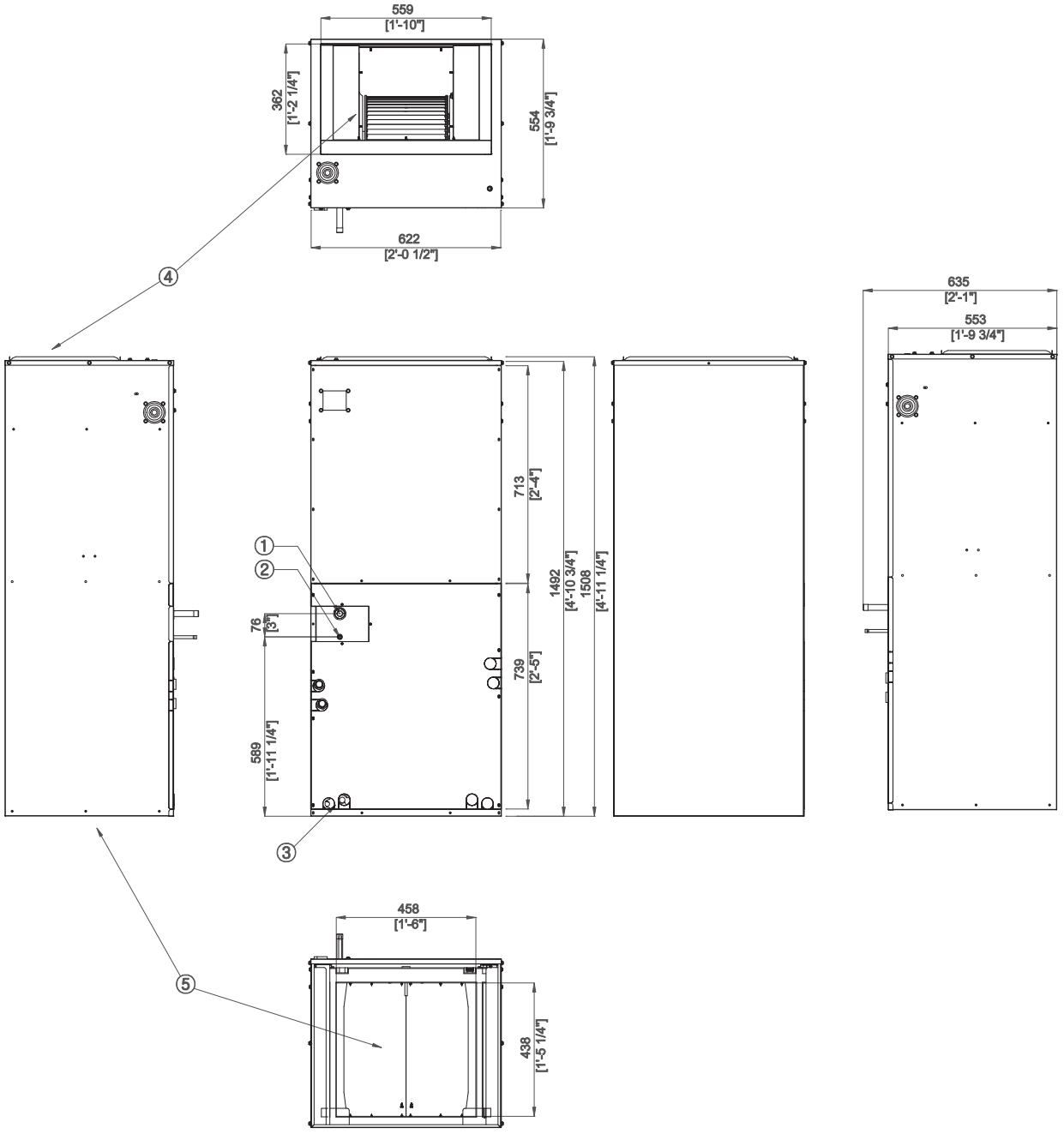


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Condensate drain pipe	9	
4	Air outlet	10	
5	Air intake	11	
6		12	

4 Dimensional drawing

Outdoor

AC018JXADCH/AA

Units : mm / inches

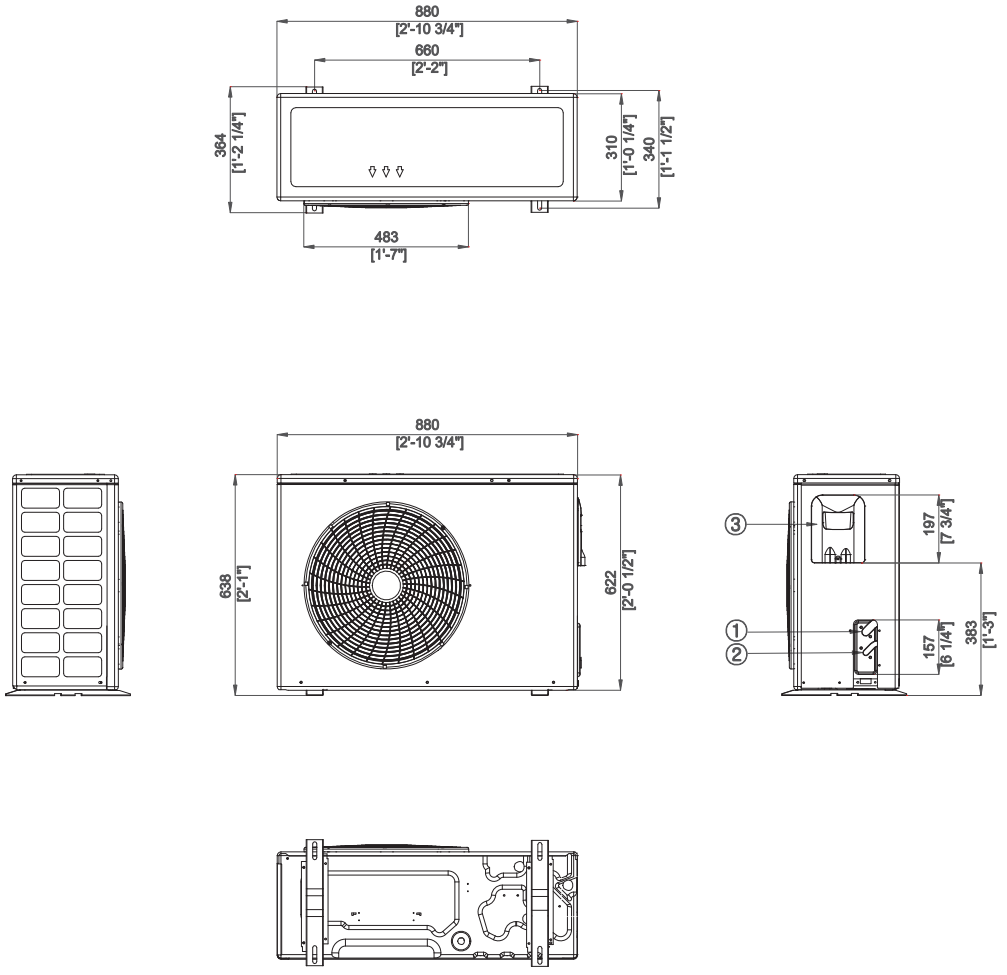


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Power & Comm. wiring conduits	9	
4		10	
5		11	
6		12	

4 Dimensional drawing

Outdoor

AC024JXADCH/AA, AC030JXADCH/AA

Units : mm / inches

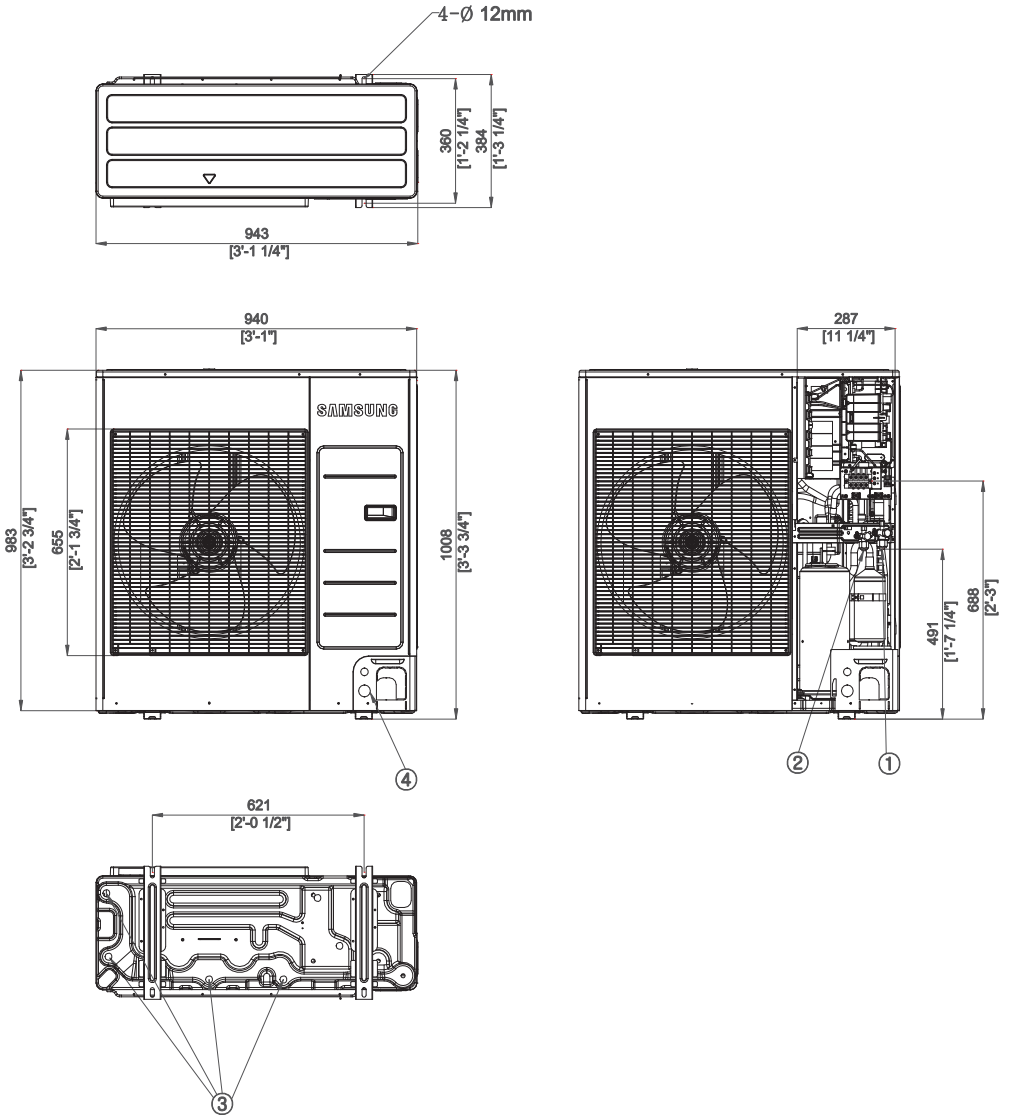


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Drain Hole	9	
4	Power & Comm. wiring conduits	10	
5		11	
6		12	

4 Dimensional drawing

Outdoor

AC036JXADCH/AA, AC042JXADCH/AA, AC048JXADCH/AA

Units : mm / inches

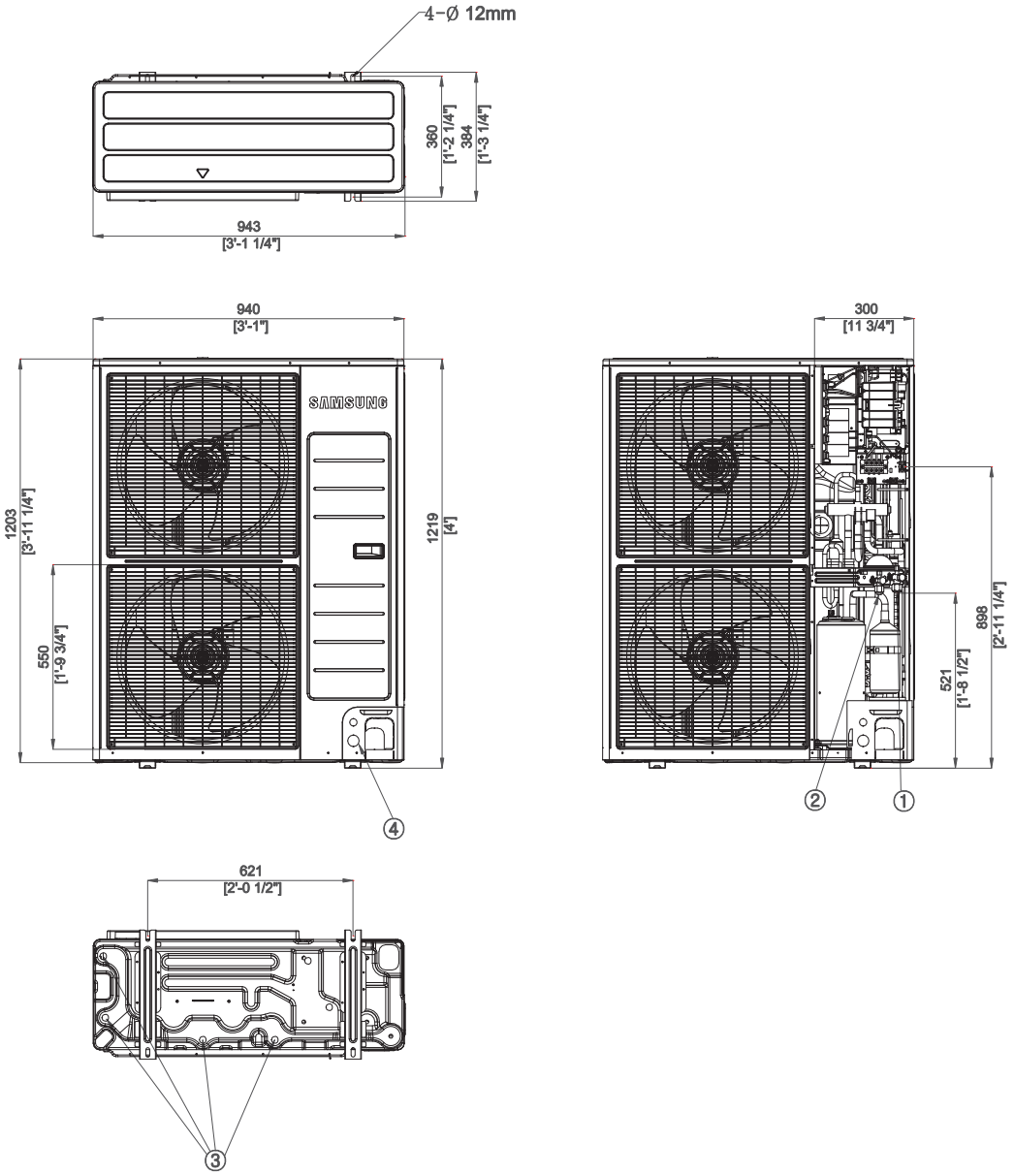


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Drain Hole	9	
4	Power & Comm. wiring conduits	10	
5		11	
6		12	

4 Dimensional drawing

Outdoor

AC054KXADCH/AA

Units : mm / inches

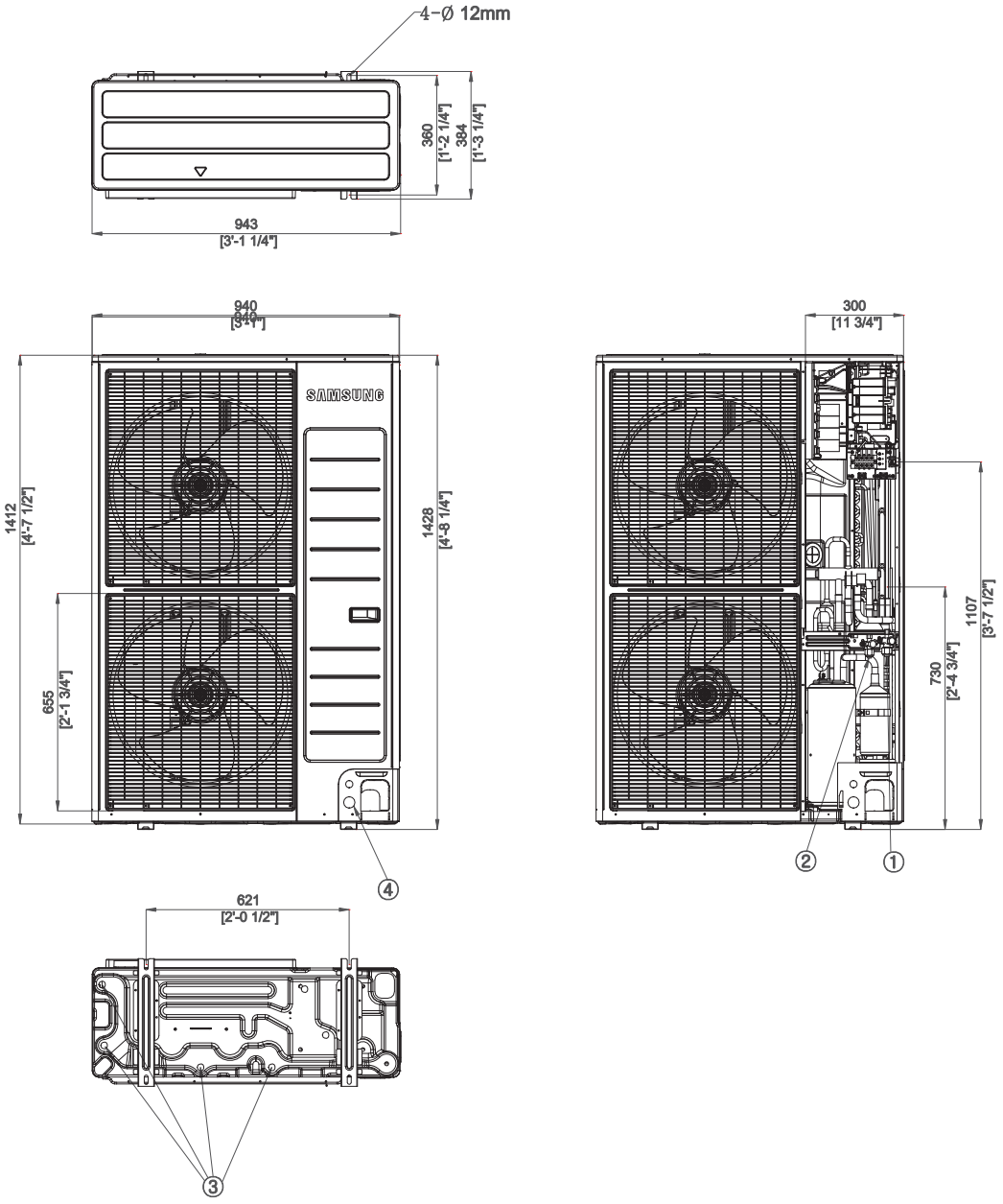
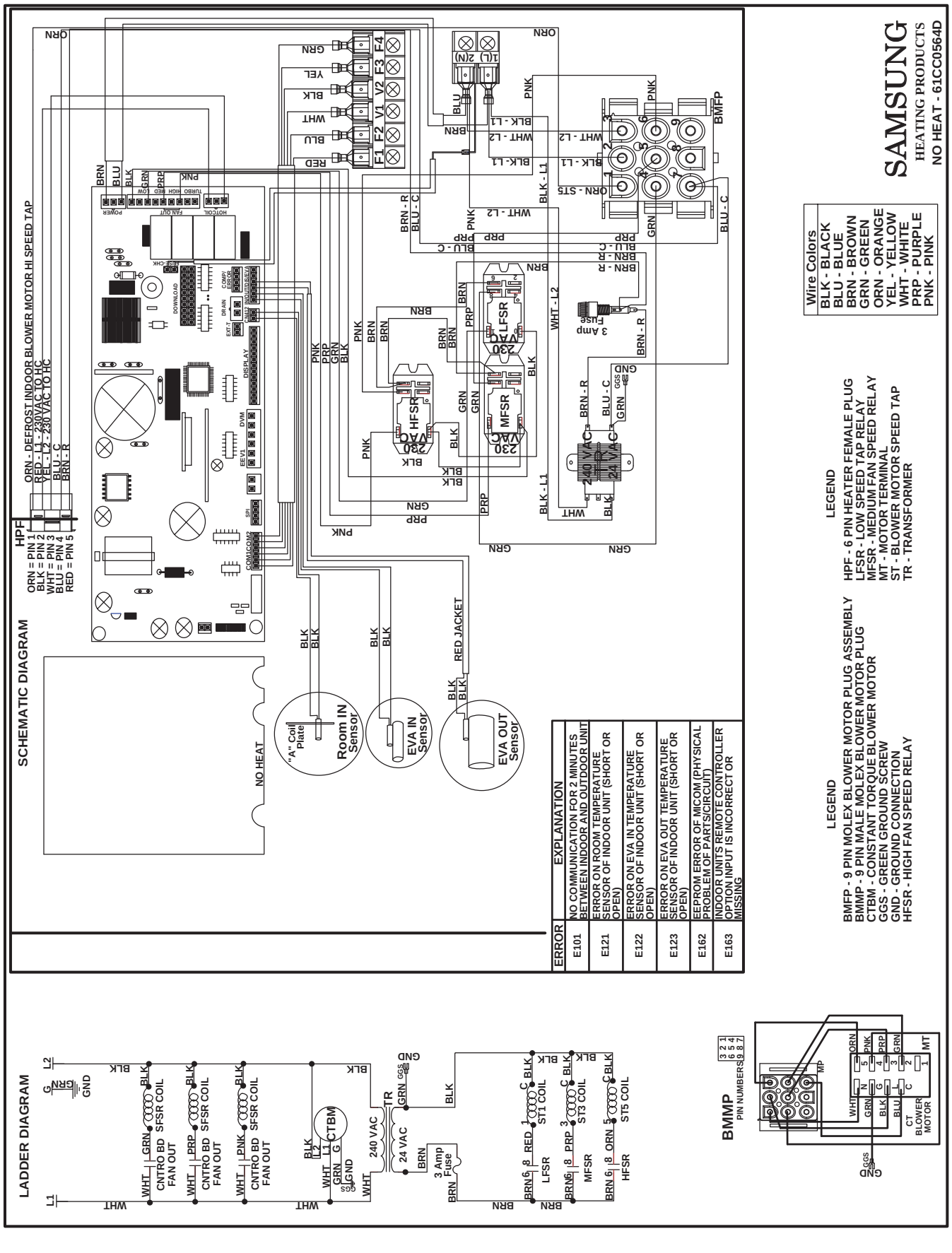


Table of descriptions			
1	Refrigerant gas pipe	7	
2	Refrigerant liquid pipe	8	
3	Drain Hole	9	
4	Power & Comm. wiring conduits	10	
5		11	
6		12	

5 Electrical wiring diagram

Indoor : Multi-position AHU

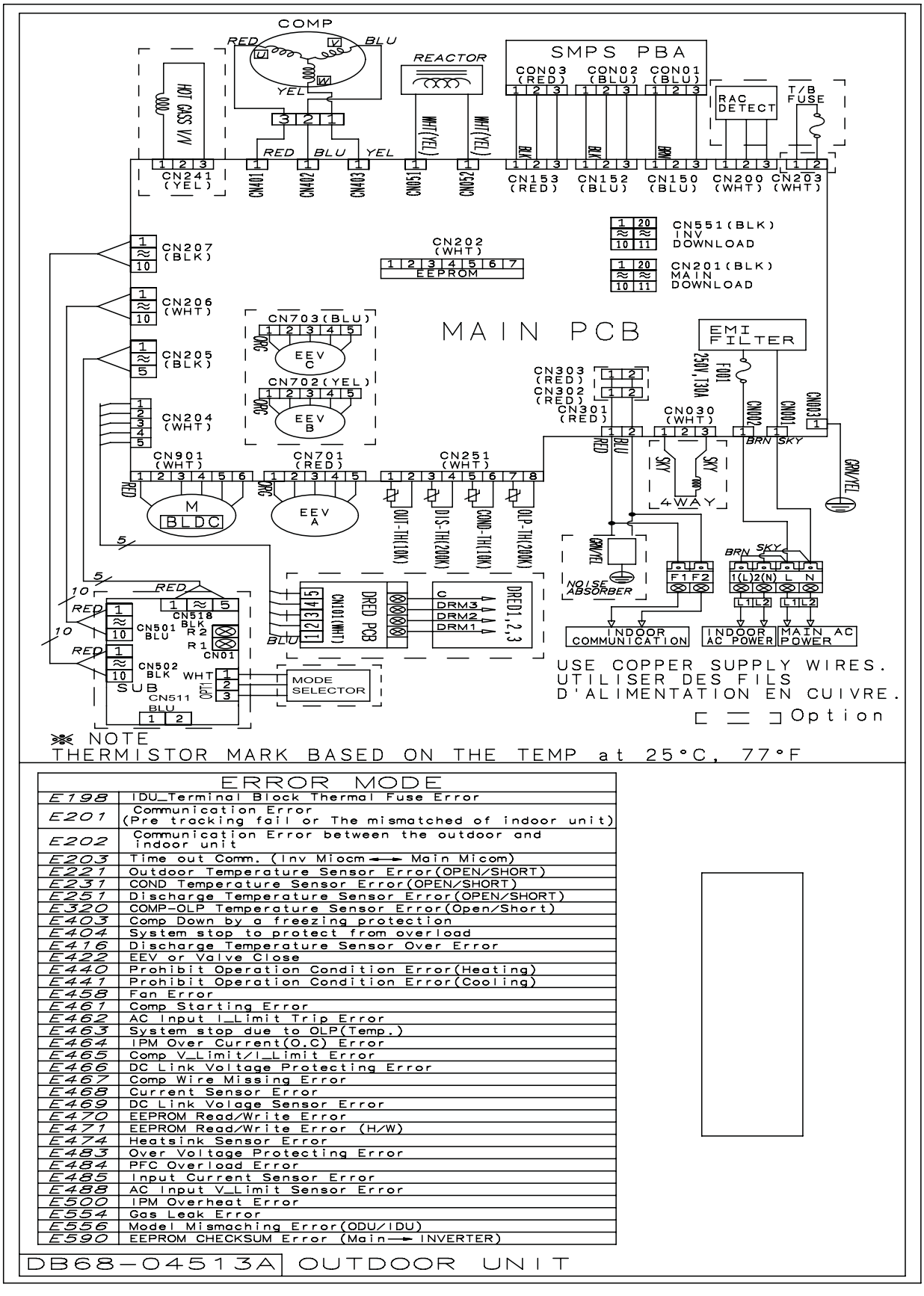
AC018KNZDCH/AA, AC024KNZDCH/AA, AC030KNZDCH/AA, AC036KNZDCH/AA, AC042KNZDCH/AA, AC048KNZDCH/AA, AC054KNZDCH/AA



5 Electrical wiring diagram

Outdoor

AC018JXADCH/AA



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

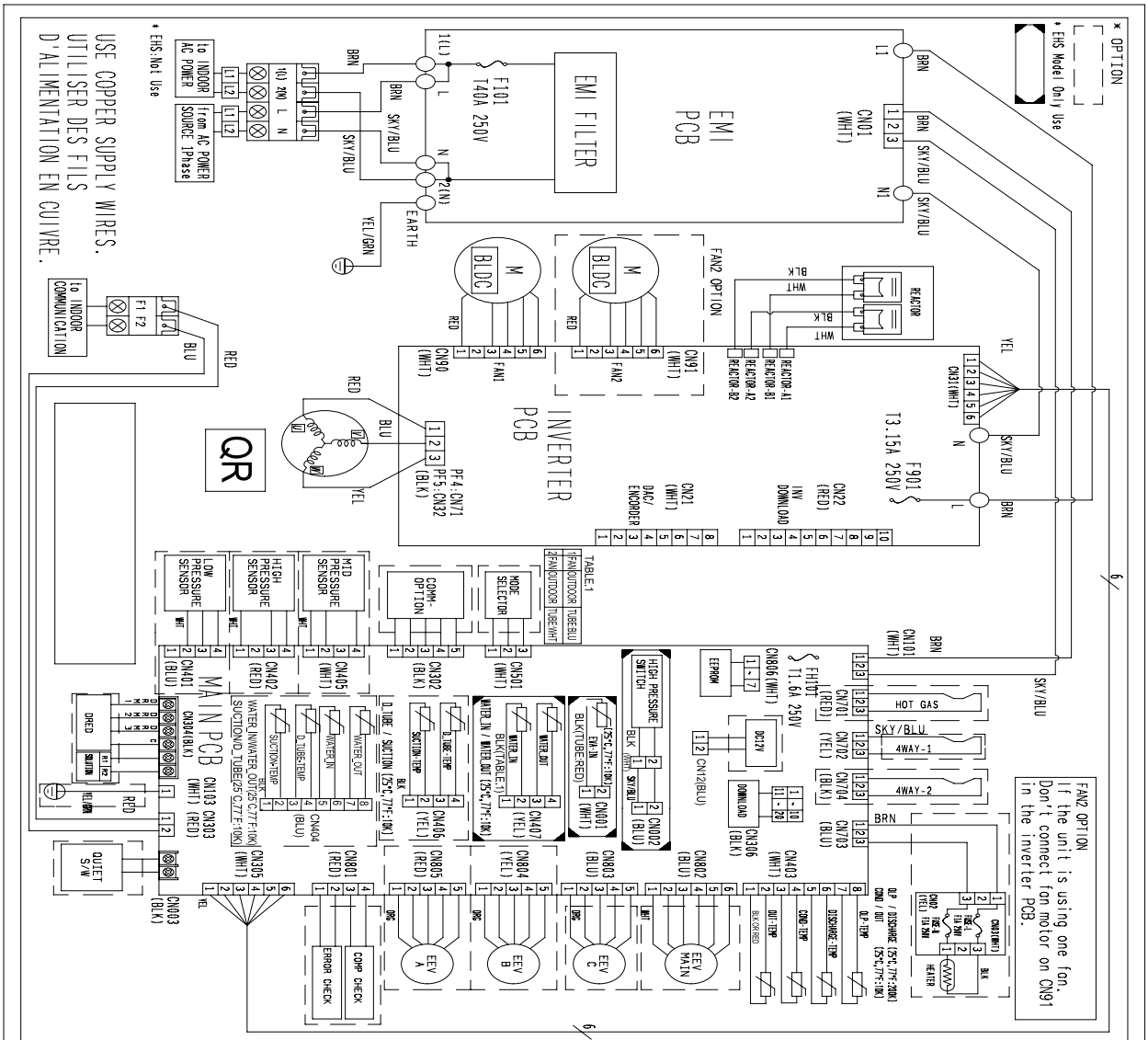
ERROR MODE	
E198	IDU_Terminal Block Thermal Fuse Error
E201	Communication Error (Pre tracking fail or The mismatched of indoor unit)
E202	Communication Error between the outdoor and indoor unit
E203	Time out Comm. (Inv Miocm ⟷ Main Micom)
E221	Outdoor Temperature Sensor Error(OPEN/SHORT)
E231	COND Temperature 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 Volage 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 Mismaching Error(ODU/IDU)
E590	EEPROM CHECKSUM Error (Main⟶ INVERTER)

DB68-04513A | OUTDOOR UNIT

5 Electrical wiring diagram

Outdoor

AC024JXADCH/AA, AC030JXADCH/AA, AC036JXADCH/AA, AC042JXADCH/AA, AC048JXADCH/AA



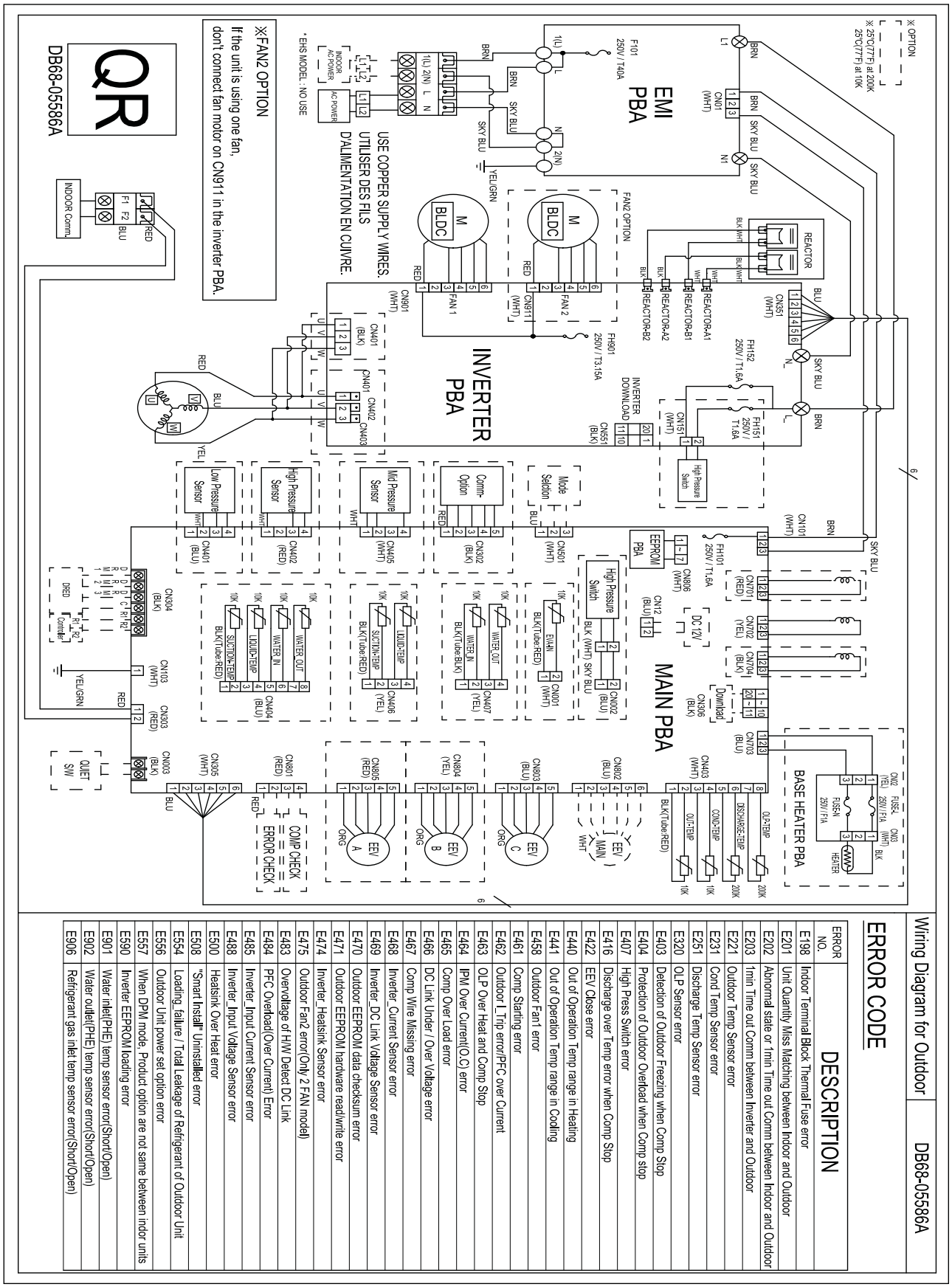
ERROR CODE

ERROR NO	DISCRIPTION
E198	Indoor Terminal Block Thermal Fuse error
E201	Unit Quantity Miss Matching between Indoor and Outdoor
E202	Abnormal state or 1min Time out Comm between Indoor and Outdoor
E203	1min Time out Comm between Inverter and Outdoor
E221	Outdoor Temp Sensor error
E231	Cond Temp Sensor error
E251	Discharge Temp Sensor error
E320	OLP Sensor error
E403	Detection of Outdoor Freezing when Comp Stop
E404	Protection of Outdoor Overload when Comp Stop
E407	HIGH PRESS SWITCH error
E416	Discharge over Temp error when Comp Stop
E419	Outdoor EEV open error
E422	EEV Close error
E439	Gas leakage error (stop state)
E440	Out of Operation Temp range in Heating
E441	Out of Operation Temp range in Cooling
E443	Gas leakage error (before operating)
E458	Outdoor Fan1 error
E461	Comp Starting error
E462	I_Trip error/PFC Over Current
E463	OLP Over Heat and Comp Stop
E464	IPM Over Current(O.C) error
E465	COMP Over Load error
E466	DC Link Under/Over Voltage error
E467	COMP Wire Missing error
E468	Current Sensor error
E469	DC Link Voltage Sensor error
E470	Outdoor EEPROM data checksum error
E471	Outdoor EEPROM hardware read/write error
E474	Heatsink Sensor error
E475	Outdoor Fan2 error (Only 2 FAN mode)
E484	PFC Over Load error
E485	Input current sensor error
E500	Heatsink Over Heat error
E554	GAS Leak error
E556	Capacity Miss Matching between Indoor and Outdoor
E557	Option Code Miss Matching among the Indoors(only for DPM)
E590	Inverter EEPROM loading error
E901	Water inlet (PHE) temp sensor error (Short/Open)
E902	Water outlet (PHE) temp sensor error (Short/Open)
E906	Refrigerant gas inlet temp sensor error (Short/Open)

5 Electrical wiring diagram

Outdoor

AC054KXADCH/AA



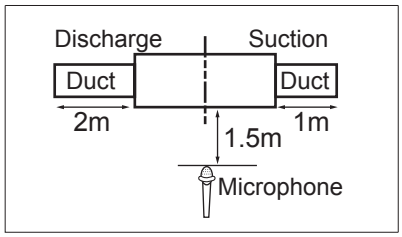
Wiring Diagram for Outdoor | DB68-05586A

ERROR CODE

ERROR NO.	DESCRIPTION
E198	Indoor Terminal Block Thermal Fuse error
E201	Unit Quantity Miss Matching between Indoor and Outdoor
E202	Abnormal state or 1min Time out Comm between Indoor and Outdoor
E203	1min Time out Comm between Inverter and Outdoor
E221	Outdoor Temp Sensor error
E231	Cond Temp Sensor error
E251	Discharge Temp Sensor error
E320	OLP Sensor error
E403	Detection of Outdoor Freezing when Comp Stop
E404	Protection of Outdoor Overload when Comp stop
E407	High Press Switch error
E416	Discharge over Temp error when Comp Stop
E422	EEV Close error
E440	Out of Operation Temp range in Heating
E441	Out of Operation Temp range in Cooling
E458	Outdoor Fan1 error
E461	Comp Starting error
E462	Outdoor I_Trip error/PFC over Current
E463	OLP Over Heat and Comp Stop
E464	IPM Over Current(O.C) error
E465	Comp Over Load error
E466	DC Link Under / Over Voltage error
E467	Comp Wire Missing error
E468	Inverter_Current Sensor error
E469	Inverter_DC Link Voltage Sensor error
E470	Outdoor EEPROM data checksum error
E471	Outdoor EEPROM hardware read/write error
E474	Inverter_Heatsink Sensor error
E475	Outdoor Fan2 error(Only 2 FAN model)
E483	Overvoltage of H/W Detect DC Link
E484	PFC Overload(Over Current) Error
E485	Inverter_Input Current Sensor error
E488	Inverter_Input Voltage Sensor error
E500	Heatsink Over Heat error
E508	"Smart Install" Uninstalled error
E554	Loading_failure / Total Leakage of Refrigerant of Outdoor Unit
E556	Outdoor Unit power set option error
E557	When DPM mode, Product option are not same between indor units
E590	Inverter EEPROM loading error
E901	Water inlet(PHE) temp sensor error(Short/Open)
E902	Water outlet(PHE) temp sensor error(Short/Open)
E906	Refrigerant gas inlet temp sensor error(Short/Open)

6 Sound pressure level

Indoor : Multi-position AHU



Unit: dB(A)

Model	High	Low
AC018KNZDCH/AA (ODU : AC018JXADCH/AA)	38	32
AC024KNZDCH/AA (ODU : AC024JXADCH/AA)	41	35
AC030KNZDCH/AA (ODU : AC030JXADCH/AA)	41	35
AC036KNZDCH/AA (ODU : AC036JXADCH/AA)	42	36

Note

* Specifications may be subject to change without prior notice

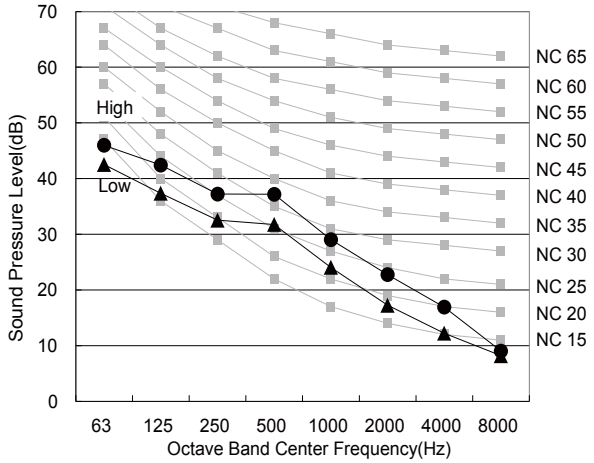
1) These operation values were obtained in an anechoic room.

2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.

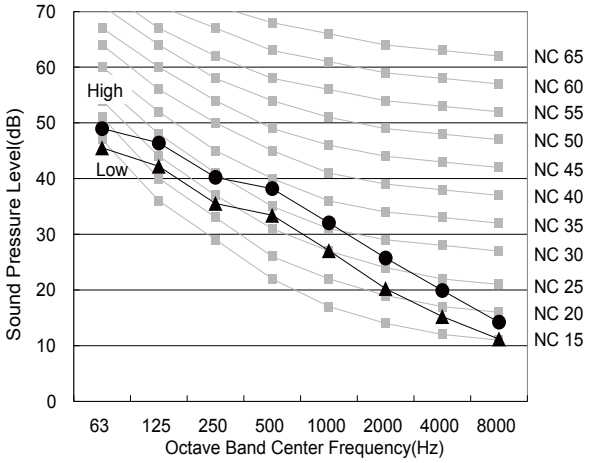
3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

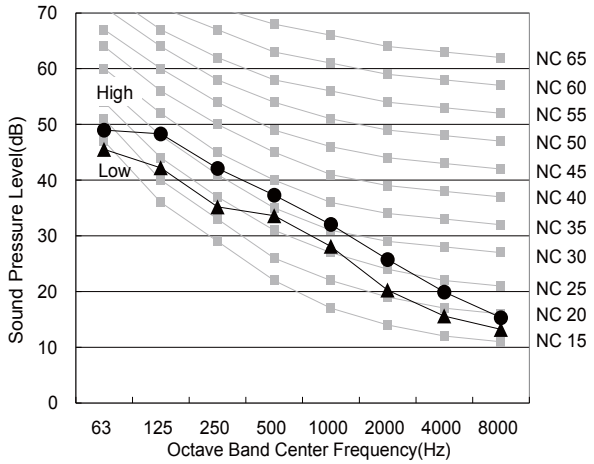
1) AC018KNZDCH/AA (ODU : AC018JXADCH/AA)



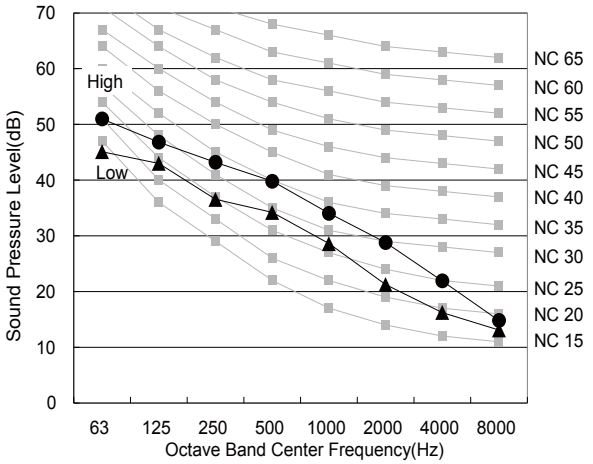
2) AC024KNZDCH/AA (ODU : AC024JXADCH/AA)



3) AC030KNZDCH/AA (ODU : AC030JXADCH/AA)

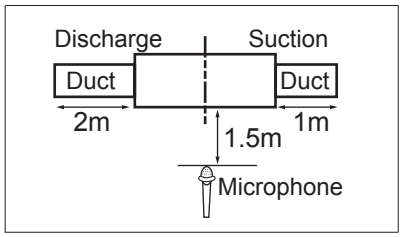


4) AC036KNZDCH/AA (ODU : AC036JXADCH/AA)



6 Sound pressure level

Indoor : Multi-position AHU



Unit: dB(A)

Model	High	Low
AC042KNZDCH/AA (ODU : AC042JXADCH/AA)	42	36
AC048KNZDCH/AA (ODU : AC048JXADCH/AA)	43	38
AC048KNZDCH/AA (ODU : AC048JXADCH/AA)	45	39

Note

* Specifications may be subject to change without prior notice

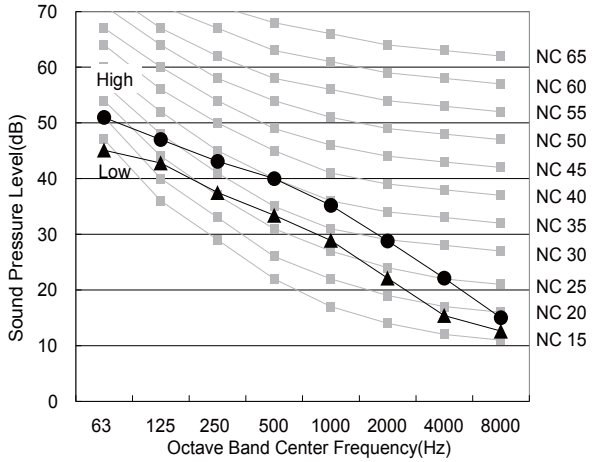
1) These operation values were obtained in an anechoic room.

2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.

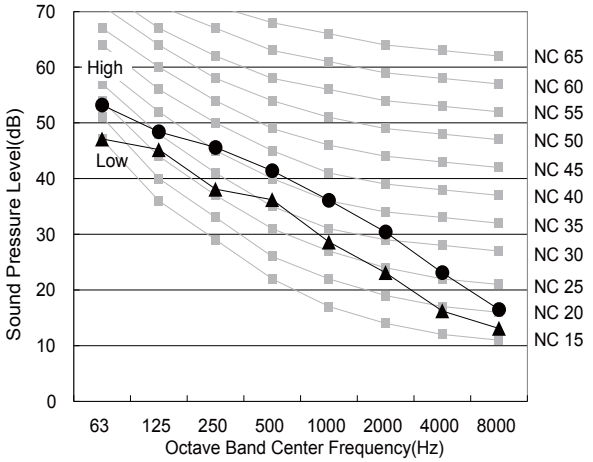
3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

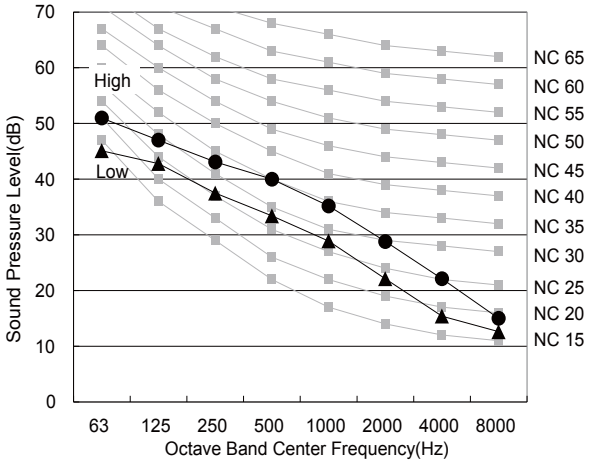
1) AC042KNZDCH/AA (ODU : AC042JXADCH/AA)



2) AC048KNZDCH/AA (ODU : AC048JXADCH/AA)

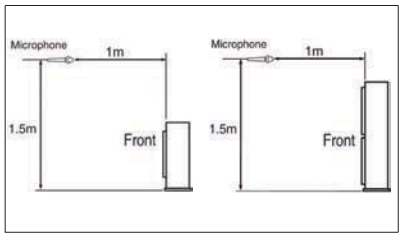


3) AC054KNZDCH/AA (ODU : AC054KXADCH/AA)



6 Sound pressure level

Outdoor



Unit: dB(A)

Model	Cooling
AC018JXADCH/AA (IDU : AC018KNZDCH/AA)	48
AC024JXADCH/AA (IDU : AC024KNZDCH/AA)	50
AC030JXADCH/AA (IDU : AC030KNZDCH/AA)	50
AC036JXADCH/AA (IDU : AC036KNZDCH/AA)	49

Note

* Specifications may be subject to change without prior notice

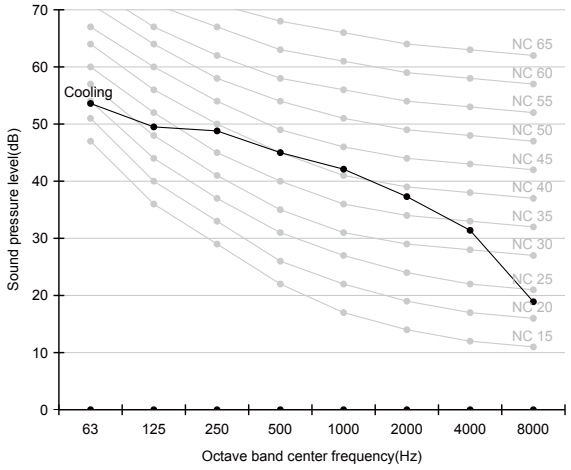
1) These operation values were obtained in an anechoic room.

2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.

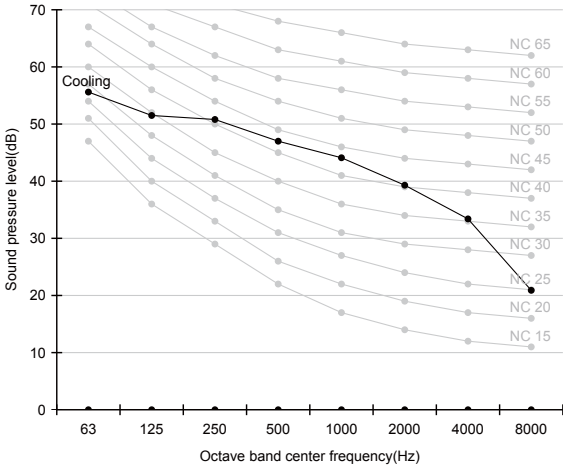
3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

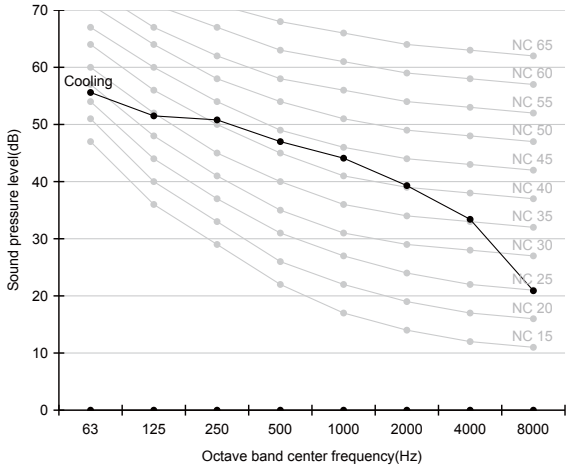
1) AC018JXADCH/AA (IDU : AC018KNZDCH/AA)



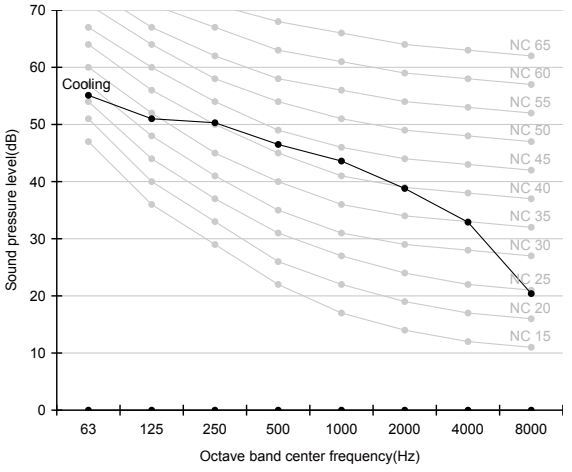
2) AC024JXADCH/AA (IDU : AC024KNZDCH/AA)



3) AC030JXADCH/AA (IDU : AC030KNZDCH/AA)

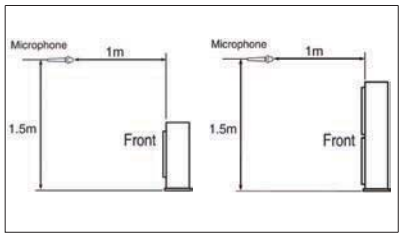


4) AC036JXADCH/AA (IDU : AC036KNZDCH/AA)



6 Sound pressure level

Outdoor



Unit: dB(A)

Model	Cooling
AC042JXADCH/AA (IDU : AC042KNZDCH/AA)	51
AC048JXADCH/AA (IDU : AC048KNZDCH/AA)	53
AC054KXADCH/AA (IDU : AC054KNZDCH/AA)	56

Note

* Specifications may be subject to change without prior notice

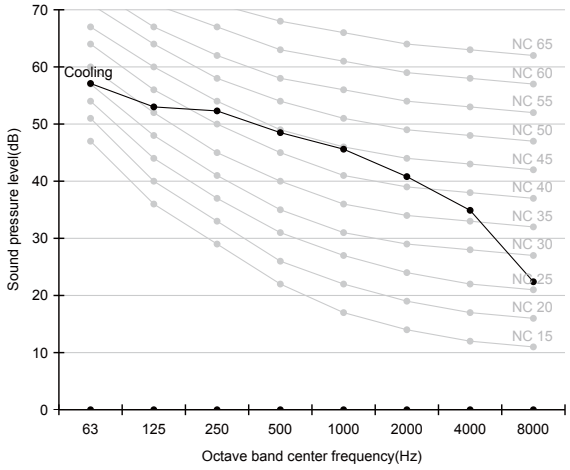
1) These operation values were obtained in an anechoic room.

2) Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.

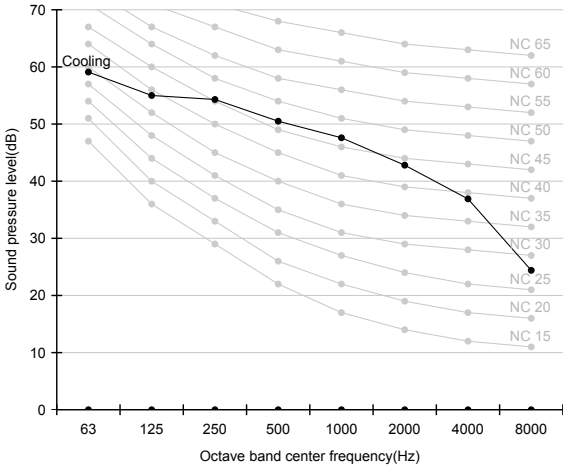
3) Operation sound level may differ depending on operation and ambient conditions.

NC curve

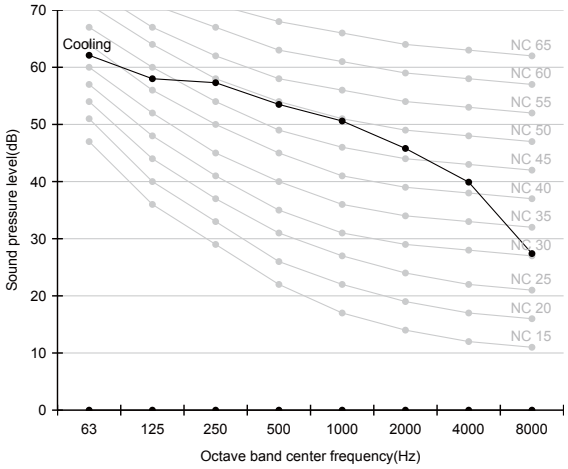
1) AC042JXADCH/AA (IDU : AC042KNZDCH/AA)



2) AC048JXADCH/AA (IDU : AC048KNZDCH/AA)



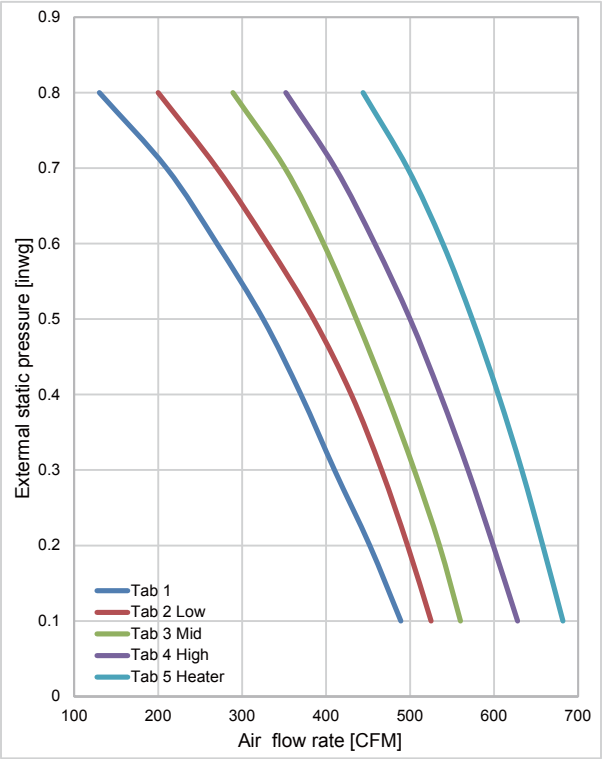
3) AC054KXADCH/AA (IDU : AC054KNZDCH/A



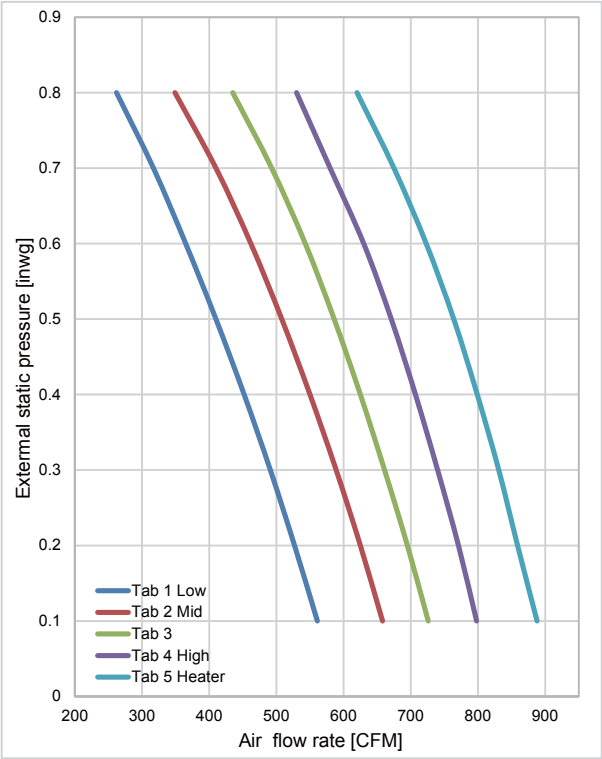
7 Recommended operation range

Multi-position AHU

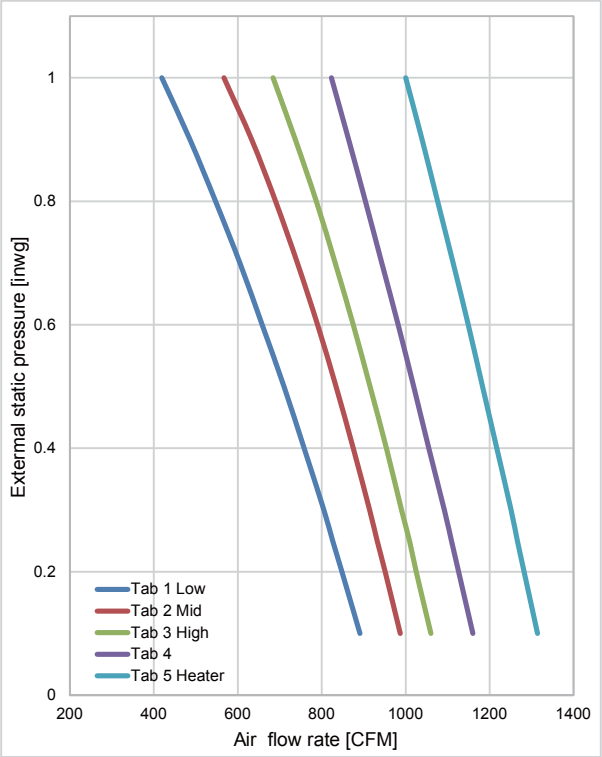
1) AC018KNZDCH/AA



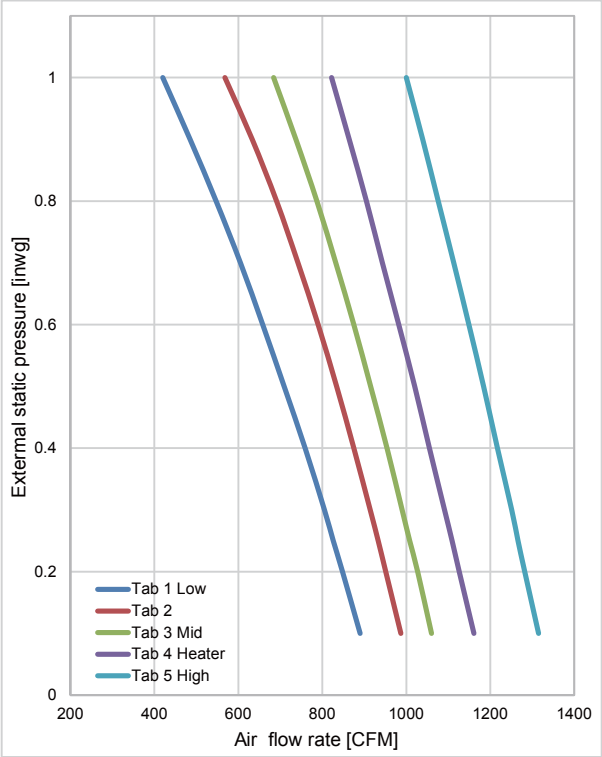
2) AC024KNZDCH/AA



3) AC030KNZDCH/AA



4) AC036KNZDCH/AA



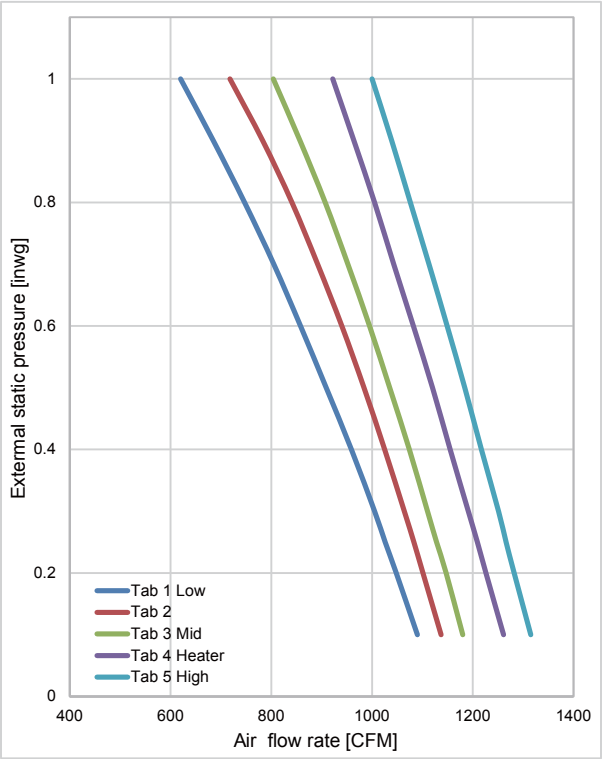
Note

- The speed taps can be adjusted according to installation conditions.

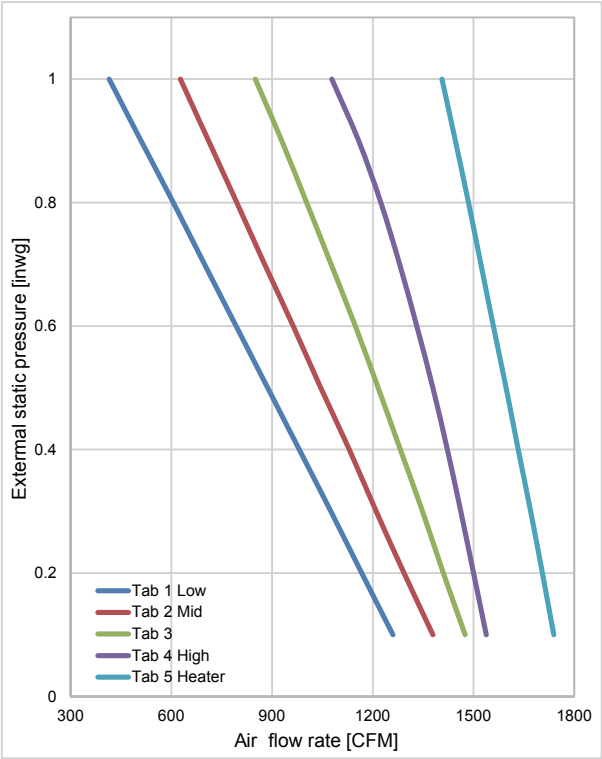
7 Recommended operation range

Multi-position AHU

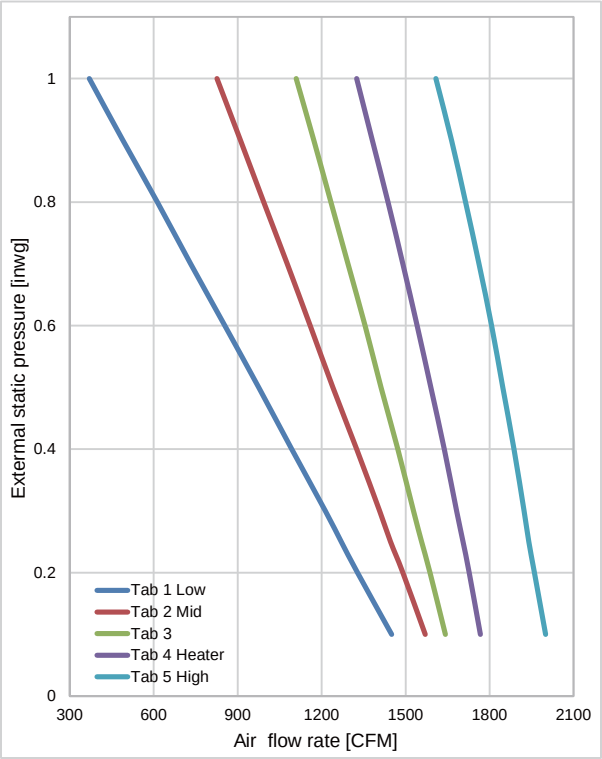
5) AC042KNZDCH/AA



6) AC048KNZDCH/AA



7) AC054KNZDCH/AA



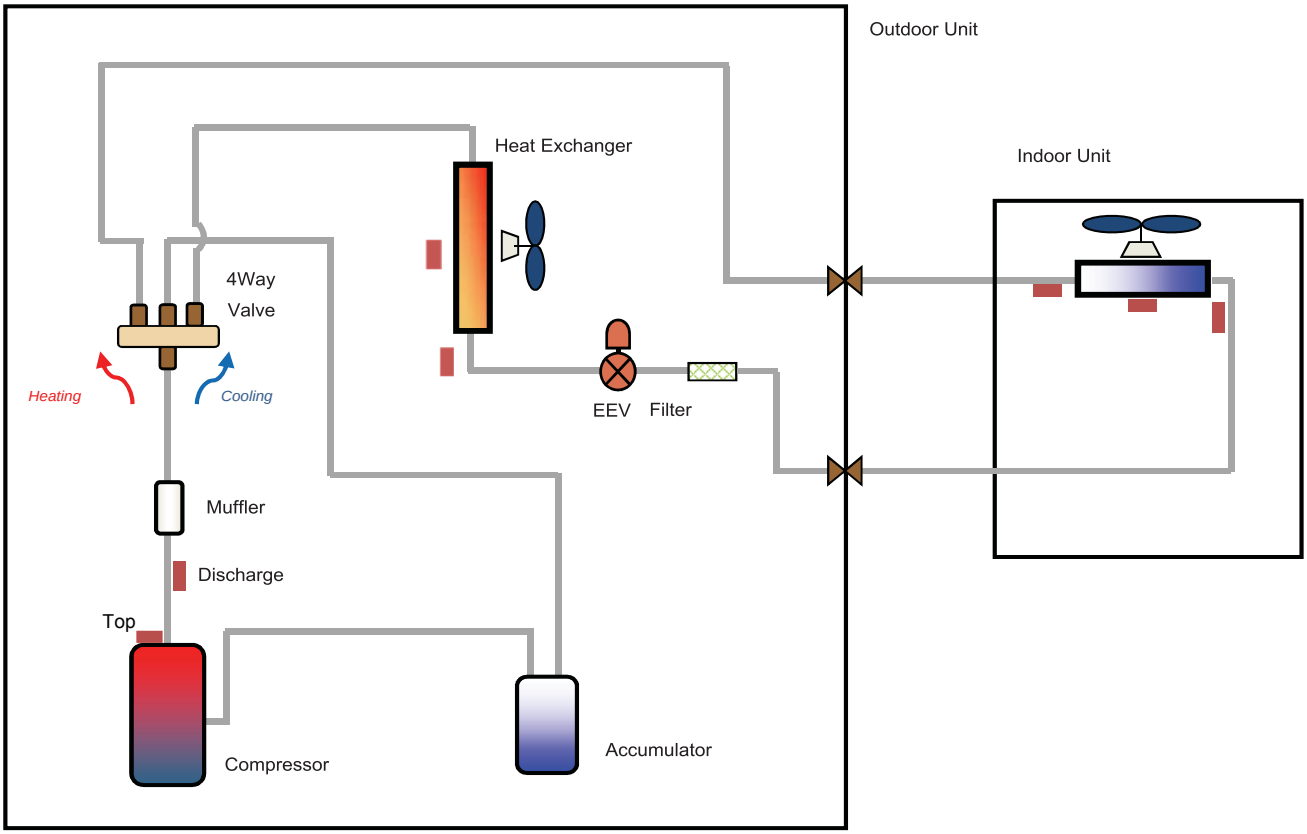
Note

- The speed taps can be adjusted according to installation conditions.

8 Cycle diagram

Outdoor

AC018JXADCH/AA, AC024JXADCH/AA, AC030JXADCH/AA, AC036JXADCH/AA, AC042JXADCH/AA, AC048JXADCH/AA, AC054KXADCH/AA



Category		Symbol	Description
Compressor			Rotary Inveter Compressor
Heat Exchanger			Condensing(FMC)/Evaporating unit
Accumulator			Accumulator
Filter			Filter
Valve	Expansion		Electronic Expansion Valve(EEV)
	Reversing		4 Way valve (Reversing valve)
	Service		Service valve
Senser	Temperature		Pipe/Air Temperature sensor

9 Capacity correction

Outdoor

AC018KNZDCH/AA + AC018JXADCH/AA

Cooling

Level Difference (ft)	Pipe Length (ft)					
	16	33	49	66	82	98
66	-	-	-	0.96	0.94	0.93
49	-	-	0.97	0.96	0.94	0.93
33	-	0.99	0.97	0.96	0.94	0.93
16	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	1.00	0.98	0.97	0.95	0.94	0.92
-33	-	0.97	0.96	0.95	0.94	0.92
-49	-	-	0.96	0.94	0.93	0.92
-66	-	-	-	0.94	0.92	0.91

Heating

Level Difference (ft)	Pipe Length (ft)					
	16	33	49	66	82	98
66	-	-	-	0.94	0.92	0.90
49	-	-	0.96	0.94	0.92	0.90
33	-	0.98	0.96	0.94	0.92	0.90
16	1.00	0.98	0.96	0.94	0.92	0.90
0	1.00	0.98	0.96	0.94	0.92	0.90
-16	1.00	0.98	0.96	0.94	0.92	0.90
-33	-	0.98	0.96	0.94	0.92	0.90
-49	-	-	0.96	0.94	0.92	0.90
-66	-	-	-	0.94	0.92	0.90

AC024KNZDCH/AA + AC024JXADCH/AA

Cooling

Level Difference (ft)	Pipe Length (ft)									
	16	33	49	66	82	98	115	131	148	164
98	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90
82	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
66	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
49	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
33	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
16	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-16	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90	0.88
-33	-	0.98	0.97	0.96	0.95	0.94	0.92	0.91	0.89	0.87
-49	-	-	0.97	0.96	0.94	0.93	0.92	0.90	0.88	0.85
-66	-	-	-	0.95	0.94	0.93	0.91	0.89	0.87	0.83
-82	-	-	-	-	0.94	0.92	0.91	0.89	0.86	0.82
-98	-	-	-	-	-	0.92	0.90	0.88	0.85	0.80

Heating

Level Difference (ft)	Pipe Length (ft)									
	16	33	49	66	82	98	115	131	148	164
98	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90
82	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
66	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
49	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
33	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
16	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-16	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-33	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-49	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-66	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-82	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
-98	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90

9 Capacity correction

Outdoor

AC030KNZDCH/AA + AC030JXADCH/AA

Cooling

Level Difference (ft)	Pipe Length (ft)									
	16	33	49	66	82	98	115	131	148	164
98	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90
82	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
66	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
49	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
33	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
16	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-16	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90	0.88
-33	-	0.98	0.97	0.96	0.95	0.94	0.92	0.91	0.89	0.87
-49	-	-	0.97	0.96	0.94	0.93	0.92	0.90	0.88	0.85
-66	-	-	-	0.95	0.94	0.93	0.91	0.89	0.87	0.83
-82	-	-	-	-	0.94	0.92	0.91	0.89	0.86	0.82
-98	-	-	-	-	-	0.92	0.90	0.88	0.85	0.80

Heating

Level Difference (ft)	Pipe Length (ft)									
	16	33	49	66	82	98	115	131	148	164
98	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90
82	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
66	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
49	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
33	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
16	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-16	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-33	-	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-49	-	-	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-66	-	-	-	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-82	-	-	-	-	0.96	0.94	0.93	0.92	0.91	0.90
-98	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90

AC036KNZDCH/AA + AC036JXADCH/AA

Cooling

Level Difference (ft)	Pipe Length (ft)														
	16	33	49	66	82	98	115	131	148	164	180	197	213	230	246
98	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
82	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
66	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
49	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
33	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
16	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-16	1.00	0.99	0.98	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
-33	-	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.92	0.91	0.90	0.89	0.87	0.85
-49	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84
-66	-	-	-	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.83
-82	-	-	-	-	0.95	0.94	0.93	0.92	0.92	0.91	0.90	0.88	0.87	0.85	0.81
-98	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84	0.80

Heating

Level Difference (ft)	Pipe Length (ft)														
	16	33	49	66	82	98	115	131	148	164	180	197	213	230	246
98	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
82	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
66	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
49	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
33	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
16	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-16	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-33	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-49	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-66	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-82	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-98	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88

9 Capacity correction

Outdoor

AC042KNZDCH/AA + AC042JXADCH/AA

Cooling

Level Difference (ft)	Pipe Length (ft)														
	16	33	49	66	82	98	115	131	148	164	180	197	213	230	246
98	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
82	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
66	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
49	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
33	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
16	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-16	1.00	0.99	0.98	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
-33	-	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.92	0.91	0.90	0.89	0.87	0.85
-49	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84
-66	-	-	-	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.83
-82	-	-	-	-	0.95	0.94	0.93	0.92	0.92	0.91	0.90	0.88	0.87	0.85	0.81
-98	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84	0.80

Heating

Level Difference (ft)	Pipe Length (ft)														
	16	33	49	66	82	98	115	131	148	164	180	197	213	230	246
98	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
82	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
66	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
49	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
33	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
16	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-16	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-33	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-49	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-66	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-82	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-98	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88

AC048KNZDCH/AA + AC048JXADCH/AA

Cooling

Level Difference (ft)	Pipe Length (ft)														
	16	33	49	66	82	98	115	131	148	164	180	197	213	230	246
98	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
82	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
66	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
49	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
33	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
16	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-16	1.00	0.99	0.98	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
-33	-	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.92	0.91	0.90	0.89	0.87	0.85
-49	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84
-66	-	-	-	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.83
-82	-	-	-	-	0.95	0.94	0.93	0.92	0.92	0.91	0.90	0.88	0.87	0.85	0.81
-98	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84	0.80

Heating

Level Difference (ft)	Pipe Length (ft)														
	16	33	49	66	82	98	115	131	148	164	180	197	213	230	246
98	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
82	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
66	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
49	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
33	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
16	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-16	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-33	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-49	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-66	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-82	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-98	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88

9 Capacity correction

Outdoor

AC054KNZDCH/AA + AC054KXADCH/AA

Cooling

Level Difference (ft)	Pipe Length (ft)														
	16	33	49	66	82	98	115	131	148	164	180	197	213	230	246
98	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
82	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
66	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
49	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
33	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
16	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-16	1.00	0.99	0.98	0.97	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
-33	-	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.92	0.91	0.90	0.89	0.87	0.85
-49	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84
-66	-	-	-	0.96	0.95	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.83
-82	-	-	-	-	0.95	0.94	0.93	0.92	0.92	0.91	0.90	0.88	0.87	0.85	0.81
-98	-	-	-	-	-	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.86	0.84	0.80

Heating

Level Difference (ft)	Pipe Length (ft)														
	16	33	49	66	82	98	115	131	148	164	180	197	213	230	246
98	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
82	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
66	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
49	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
33	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
16	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
0	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-16	1.00	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-33	-	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-49	-	-	0.98	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-66	-	-	-	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-82	-	-	-	-	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-98	-	-	-	-	-	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88

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