

Job Name:

System Reference:

Date:



Outdoor Unit: NTXMMX60A182AA

FEATURES

- Variable speed INVERTER-driven compressor
- Branch box for simplified piping and installation flexibility
- Up to 8 indoor units connectable, 6 if a PLA-EA7 is connected
- Optional base pan heater
- Quiet outdoor unit operation as low as 58 dB(A)
- High pressure protection
- Compressor thermal protection
- Compressor overcurrent detection
- Fan motor overheating/voltage protection
- Up to 98% of rated heating capacity at 17°F and 84% of rated heating capacity at 5°F (non-ducted, condition dependent)
- Energy Star® certified¹ (non-ducted)

¹ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.

SPECIFICATIONS: NTXMMX60A182AA

Model Number	Outdoor Unit		NTXMMX60A182AA		
	Indoor Unit Type		Non-ducted	Mix	Ducted
Cooling*1	Maximum Capacity	Btu/h	60,000	60,000	60,000
	Rated Capacity	Btu/h	60,000	60,000	60,000
	Minimum Capacity	Btu/h	30,000	30,000	30,000
	Maximum Power Input	W	4,800	5,525	6,250
	Rated Power Input	W	4,800	5,525	6,250
	Power Factor	%	-	-	-
Heating at 47° F*2	Maximum Capacity	Btu/h	66,000	66,000	66,000
	Rated Capacity	Btu/h	66,000	66,000	66,000
	Minimum Capacity	Btu/h	31,000	31,000	31,000
	Maximum Power Input	W	4,870	4,810	7,200
	Rated Power Input	W	4,870	4,810	4,750
	Power Factor	%	-	-	-
Heating at 17° F*3	Maximum Capacity	Btu/h	65,000	61,500	58,000
	Rated Capacity	Btu/h	41,500	41,000	40,500
	Maximum Power Input	W	9,525	8,810	8,095
	Rated Power Input	W	4,860	4,810	4,750
Heating at 5° F*4	Maximum Capacity	Btu/h	57,000	49,500	42,000
	Maximum Power Input	W	8,350	8,200	8,050
Connectable Capacity		Btu/h	12,000 - 78,000	12,000 - 78,000	12,000 - 78,000
Efficiency	SEER		17.40	16.30	15.10
	EER *1		12.50	11.05	9.60
	HSPF (IV)		10.50	10.25	10.00
	COP at 47° F*2		3.40	3.40	3.40
	COP at 17° F*3		2.50	2.50	2.50
	ENERGY STAR® Certified		Yes		
Electrical	Voltage, Phase, Frequency	V AC	208 / 230V, 1-phase, 60 Hz	208 / 230V, 1-phase, 60 Hz	208 / 230V, 1-phase, 60 Hz
	Guaranteed Voltage Range	V AC	187 - 253	187 - 253	187 - 253
	Voltage: Indoor - Outdoor, S1-S2	V AC	208V / 230	208V / 230	208V / 230
	Voltage: Indoor - Outdoor, S2-S3	V AC	24	24	24
	Voltage: Indoor - Remote Controller	V AC	12	12	12
	Recommended Fuse/Breaker Size	A	50	50	50
	Recommended Wire Size (Indoor-Outdoor)	AWG	16	16	16

SPECIFICATIONS: NTXMMX60A182AA

Model Number	Outdoor Unit		NTXMMX60A182AA		
	Indoor Unit Type		Non-ducted	Mix	Ducted
Outdoor Unit	MCA	A	46	46	46
	Fan Motor Full Load Amperage	A	-	-	-
	Fan Motor Output	W	0.2 + 0.2	0.2 + 0.2	0.2 + 0.2
	Airflow Rate	CFM	4879	4879	4879
	Refrigerant Control		Linear Expansion Valve	Linear Expansion Valve	Linear Expansion Valve
	Defrost Method		Reverse Cycle	Reverse Cycle	Reverse Cycle
	Heat Exchanger Type		Plate Fin Coil	Plate Fin Coil	Plate Fin Coil
	Sound Pressure Level, Cooling*1	dB(A)	58	58	58
	Sound Pressure Level, Heating*2	dB(A)	59	59	59
	Compressor Type		Hermetic	Hermetic	Hermetic
	Compressor Model		ANB66FFZMT	ANB66FFZMT	ANB66FFZMT
	Compressor Motor Output	kW	4.2	4.2	4.2
	Compressor Rated Load Amps	A	-	-	-
	Compressor Locked Rotor Amps	A	-	-	-
	Compressor Oil Type // Charge	oz.	FV50S // 78	FV50S // 78	FV50S // 78
	External Finish Color		Munsell 3Y 7.8/ 1.1	Munsell 3Y 7.8/ 1.1	Munsell 3Y 7.8/ 1.1
	Base Pan Heater		Optional (PAC-SJ20BH-E)	Optional (PAC-SJ20BH-E)	Optional (PAC-SJ20BH-E)
	Unit Dimensions	W: In. [mm]	41-11/32 [1,050]	41-11/32 [1,050]	41-11/32 [1,050]
		D: In. [mm]	13+1 [330+25]	13+1 [330+25]	13+1 [330+25]
		H: In. [mm]	52-11/16 [1,338]	52-11/16 [1,338]	52-11/16 [1,338]
	Package Dimensions	W: In. [mm]	42-15/16 [1,090]	42-15/16 [1,090]	42-15/16 [1,090]
		D: In. [mm]	17-11/16 [450]	17-11/16 [450]	17-11/16 [450]
		H: In. [mm]	56-1/4 [1,428]	56-1/4 [1,428]	56-1/4 [1,428]
	Unit Weight	Lbs. [kg]	309 [140]	309 [140]	309 [140]
	Package Weight	Lbs. [kg]	333 [151]	333 [151]	333 [151]
Outdoor unit operating temperature range	Cooling Intake Air Temp (Maximum / Minimum)	°F	115 DB / 23 DB	115 DB / 23 DB	115 DB / 23 DB
	Heating Intake Air Temp (Maximum / Minimum)	°F	70 DB / -4 DB	70 DB / -4 DB	70 DB / -4 DB
	Thermal Lock-out / Re-start Temperatures	°F	n/a	n/a	n/a

SPECIFICATIONS: NTXMMX60A182AA

Model Number	Outdoor Unit		NTXMMX60A182AA		
	Indoor Unit Type		Non-ducted	Mix	Ducted
Refrigerant	Type		R410A	R410A	R410A
	Charge	Lbs. Oz.	11 lbs, 4 oz	11 lbs, 4 oz	11 lbs, 4 oz
Indoor Unit Connection	Maximum Number of Connected IDU		8 (6 ^{*A})	8 (6 ^{*A})	8 (6 ^{*A})
	Minimum Number of Connected IDU		2	2	2
	Maximum Connected Capacity	Btu/h	78,000	78,000	78,000
	Minimum Connected Capacity	Btu/h	12,000	12,000	12,000
Piping	Gas Pipe Size O.D. (Flared)	In. [mm]	3/4 [19.05]	3/4 [19.05]	3/4 [19.05]
	Liquid Pipe Size O.D. (Flared)	In. [mm]	3/8 [9.52]	3/8 [9.52]	3/8 [9.52]
	Total Piping Length	Ft. [m]	492 [150]	492 [150]	492 [150]
	Maximum Height Difference ^{*B} , ODU above IDU	Ft. [m]	164 [50]	164 [50]	164 [50]
	Maximum Height Difference ^{*B} , ODU below IDU	Ft. [m]	131 [40]	131 [40]	131 [40]
	Maximum Height Difference ^{*B} , between branch boxes	Ft. [m]	49 [15]	49 [15]	49 [15]
	Max. Piping Length between ODU and Branch Box	Ft. [m]	180 [55]	180 [55]	180 [55]
	Farthest Piping Length from ODU to IDU	Ft. [m]	262 [80]	262 [80]	262 [80]
	Farthest Piping Length after Branch Box	Ft. [m]	82 [25]	82 [25]	82 [25]
	Total Piping Length between Branch Boxes and IDU	Ft. [m]	311 [95]	311 [95]	311 [95]
	Maximum Number of Bends		15	15	15
AHRI Rated Conditions (Rated data is determined at a fixed compressor speed)	*1 Cooling (Indoor // Outdoor)	°F	80 DB, 67 WB // 95 DB, 75 WB		
	*2 Heating at 47°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 47 DB, 43 WB		
	*3 Heating at 17°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 17 DB, 15 WB		
Conditions	*4 Heating at 5°F (Indoor // Outdoor)	°F	70 DB, 60 WB // 5 DB, 5 WB		
Notes *5°F DB - 115°F DB when optional wind baffles are installed *A when 1 or more PLA-A-EA7 connected *B Branch box should be placed within the level between the outdoor unit and indoor units.					
For reference to connected capacity charts, please refer NTXMMX60A182AA Operational Performance.					

ACCESSORIES: NTXMMX60A182AA

Distribution Pipe for Flare Connection (necessary for installing two branch boxes)		☐ MSDD-50AR-E
Distribution Pipe for Brazed Connection (necessary for installing two branch boxes)		☐ MSDD-50BR-E
Joint Pipe - Port Adapter size: 3/8 x 5/8		☐ PAC-SG76RJ-E
Joint Pipe - Port Adapter size: 1/4 x 3/8		☐ PAC-493PI
Joint Pipe - Port Adapter size: 3/8 x 1/2		☐ MAC-A454JP-E
Joint Pipe - Port Adapter size: 3/8 x 1/2		☐ MAC-A455JP-E
Joint Pipe - Port Adapter size: 1/2 x 5/8		☐ MAC-A456JP-E
Joint Pipe - Port Adapter size: 5/8 x 3/4		☐ ADP-5834
Three-port Branch Box		☐ TAC-MKA31BC
Five-port Branch Box		☐ TAC-MKA51BC
Branch Box Enclosure		☐ BBE-1
Air Outlet Guide		☐ MAC-881SG
Air Outlet Guide		☐ PAC-ADG096AA-E (two pieces are required)
Front Wind Baffle		☐ WB-PA3 (two pieces are required)
Drain Socket		☐ PAC-SG61DS-E
Defrost Heater		☐ PAC-SJ20BH-E
Centralized Drain Pan		☐ PAC-SH97DP-E
Refrigeration Ball Valve-Flare/Schrader/Insulated—1/2 size		☐ BV12FFSI2
Refrigeration Ball Valve-Flare/Schrader/Insulated—1/4 size		☐ BV14FFSI2
Refrigeration Ball Valve-Flare/Schrader/Insulated—3/8 size		☐ BV38FFSI2
Refrigeration Ball Valve-Flare/Schrader/Insulated—5/8 size		☐ BV58FFSI2
Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic		☐ DSD-400P
Condensing Unit Mounting Pad 16 x 36 x 3		☐ ULTRILITE1
Outdoor Unit Stand—12 High		☐ QSMS1201M
Outdoor Unit Stand—18 High		☐ QSMS1801M
Outdoor Unit Stand—24 High		☐ QSMS2401M
Heavy Duty Wall Mounting Bracket for Outdoor Units—Coated Steel		☐ QSWB2000M-1
Heavy Duty Wall Mounting Bracket for Outdoor Units—316 Series Stainless Steel		☐ QSWBSS
Diamondback Linesets ¹	1/4 x 1/2 x 15' / 1/2 Lineset (Twin-Tube Insulation)	☐ MLS141212T-15
	1/4 x 1/2 x 30' / 1/2 Lineset (Twin-Tube Insulation)	☐ MLS141212T-30
	1/4 x 1/2 x 50' / 1/2 Lineset (Twin-Tube Insulation)	☐ MLS141212T-50
	1/4 x 1/2 x 65' / 1/2 Lineset (Twin-Tube Insulation)	☐ MLS141212T-65
	1/4 x 1/2 x 100' / 1/2 Lineset (Twin-Tube Insulation)	☐ MLS141212T-100
	3/8 x 5/8 x 10' / 1/2 Lineset (Twin-Tube Insulation)	☐ MPLS385812T-10
	3/8 x 5/8 x 15' / 1/2 Lineset (Twin-Tube Insulation)	☐ MPLS385812T-15
	3/8 x 5/8 x 30' / 1/2 Lineset (Twin-Tube Insulation)	☐ MPLS385812T-30
	3/8 x 5/8 x 50' / 1/2 Lineset (Twin-Tube Insulation)	☐ MPLS385812T-50
	3/8 x 5/8 x 65' / 1/2 Lineset (Twin-Tube Insulation)	☐ MPLS385812T-65
	3/8 x 5/8 x 100' / 1/2 Lineset (Twin-Tube Insulation)	☐ MPLS385812T-100

¹ Linesets are indoor unit specific and will be listed in the IDU information - the Joint Pipe adaptors are used in this application

NTXMMX60A182AA SYSTEM DESIGN

Outdoor unit			NTXMPH36A142AA	NTXMPH42A152AA	NTXMPH48A182AA NTXMMX48A182AA	NTXMMX60A182AA
			4HP	4.5HP	5HP	7HP
Rated capacity (kBTU/h)	Cooling		36	42	48	60
	Heating		45	48	54	66
	Refrigerant		R410A			
Connectable indoor unit			Type 06 to Type 36			
			Caution: The indoor unit which rated capacity exceeds 36 kBTU/h (Type 36) can NOT be connected.			
	Number of units		2(*1) to 4 units	2(*1) to 5 units	2(*1) to 8 units	2(*1) to 8 units
Connectable branch box	Total system wide capacity		33 to 130% of outdoor unit capacity (12 to 46.8 kBTU/h)	29 to 130% of outdoor unit capacity (12 to 54.6 kBTU/h)	25 to 130% of outdoor unit capacity (12 to 62.4 kBTU/h)	20 to 130% of outdoor unit capacity (12 to 78 kBTU/h)
	Number of units		1 or 2 units			

Connectable indoor unit lineups (Heat pump inverter type)										
	Model type	Model name	Capacity class [kBTU/h]							
			06	09	12	15	18	24	30	36
Wall mounted	Deluxe	NTXWPH06/09/12/15/18B112AA	●	●	●	●	●			
		NTXWPH06/09/12/15/18A112AA	●	●	●	●	●			
	Designer	MSZ-EF09/12/15/18NA(W/B/S)		●	●	●	●			
	Standard	NTXWPH06/09/12/15/18/24B112AA	●	●	●	●	●	●		
		NTXWST06/09/12/15/18/24A112AA	●	●	●	●	●	●		
Ceiling concealed	Low static pressure*3	NTXDKS09/12/15/18A112AA		●	●	●	●			
	Middle static pressure*3	PEAD-A24/30/36AA5						●	●	●
4-way ceiling cassette	2 by 2 type	NTXCKS09/12/15A112AA		●	●	●	●			
	Standard	PLA-A12/18/24/30/36BA6			●		●	●	●	●
		PLA-A12/18/24/30/36EA7*4			●		●	●	●	●
Floor standing		NTXUKS09/12/15/18A112AA		●	●		●			
		NTXFKS09/12/15/18A112AA		●	●	●	●			
Multi-position*2		NTXAMT(12/18/24/30/36)A112AA			●		●	●	●	●

Branch box	TAC-MKA51BC	TAC-MKA31BC
Number of branches (Indoor unit that can be connected)	5 branches (MAX. 5 units)	3 branches (MAX. 3 units)

Note: A maximum of 2 branch boxes can be connected to 1 outdoor unit.

2- branch pipe (joint): Optional parts									
In case of using 1- branch box	No need								
In case of using 2- branch boxes	<table><tr><th>Model name</th><th>Connection method</th></tr><tr><td>MSDD-50AR-E</td><td>flare</td></tr><tr><td>MSDD-50BR-E</td><td>brazing</td></tr></table>		Model name	Connection method	MSDD-50AR-E	flare	MSDD-50BR-E	brazing	Select a model according to the connection method.
	Model name	Connection method							
	MSDD-50AR-E	flare							
	MSDD-50BR-E	brazing							

Option	Optional accessories for indoor units and outdoor units are available.
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*1 1 for NTXAMT model. Single unit connection is possible with NTXAMT-series unit.

*2 When connecting a multi-position unit(s), set additional constraints as follows. For connections other than those specified below, consult your dealer.

		(For each connected branch box)	
Number of connecting multi-position unit	Constraints	Number of connecting multi-position unit	Constraints
2	Any indoor units other than multi-position models are not connectable.	2	Any indoor units other than multi-position models are not connectable.
1	None (Only the ordinal constraints apply.)	1	- The total system wide capacity should be 100% or below including the NTXAMT-series unit. - Only 1 NTXDKS or 1 PEAD can be included in the connection.

*3 For NTXMMX60A182AA; When connecting the NTXDKS and PEAD-series units, the total system wide capacity per 1 branch box should be 100% or below including the NTXDKS and PEAD-series units. (Only if connecting to PAC-MKA50BC/TAC-MKA51BC)

*4 When the system includes even 1 unit of PLA-A-EA7, the number of the maximum connectable indoor units is decreased as follows: 3 for NTXMPH36A142AA, 4 for NTXMPH42A152AA, and 6 for NTXMMX48A182AA and NTXMMX60A182AA

NTXMMX60A182AA SYSTEM DESIGN

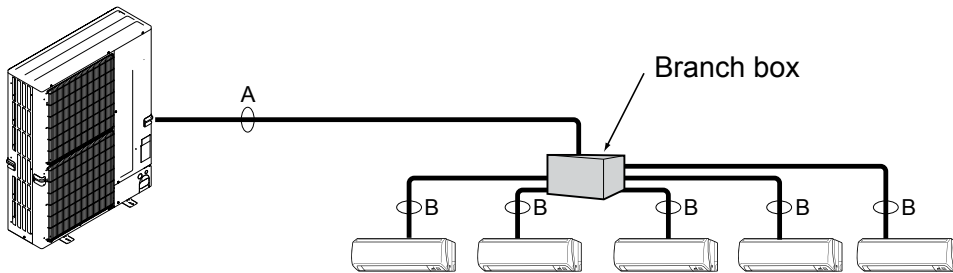
Piping connection size

	A	B
Liquid	3/8 inch [9.52 mm]	The piping connection size differs according to the type and capacity of indoor units. Match the piping connection size of branch box with indoor unit. If the piping connection size of branch box does not match the piping connection size of indoor unit, use optional different-diameter (deformed) joints to the branch box side. (Connect deformed joint directly to the branch box side.)
Gas	5/8 inch [15.88 mm] / 3/4 inch* [19.05 mm]	

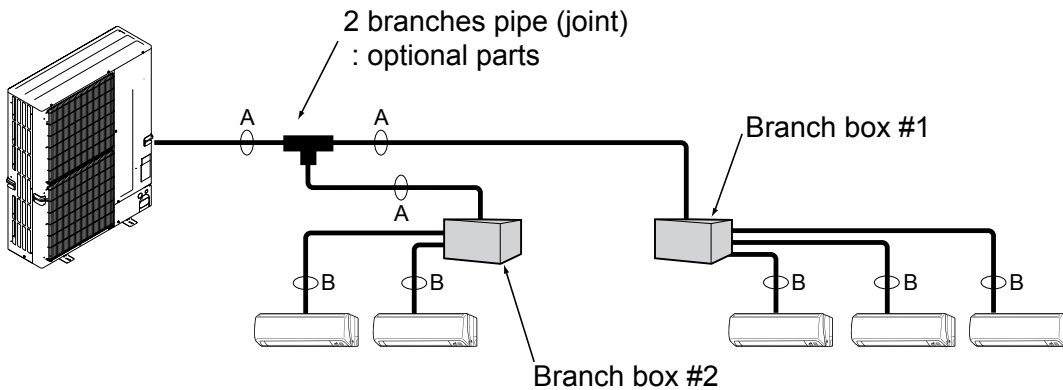
* NTXMMX60A182AA only

Flare connection employed. (No brazing!)

- In case of using 1-branch box
Flare connection employed (No brazing)



- In case of using 2-branch boxes



- Installation procedure (2 branches pipe (joint))
Refer to the installation manuals of MSDD-50AR-E and MSDD-50BR-E.

DIMENSIONS: TAC-MKA51BC AND TAC-MKA31BC BRANCH BOXES

TAC-MKA51BC

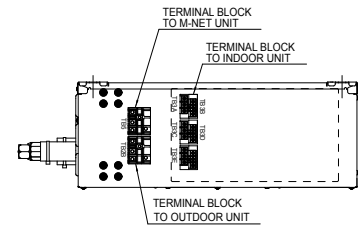
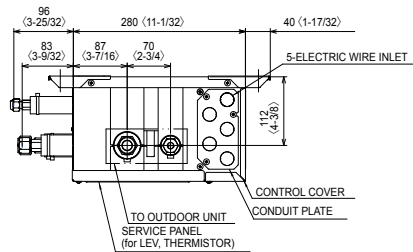
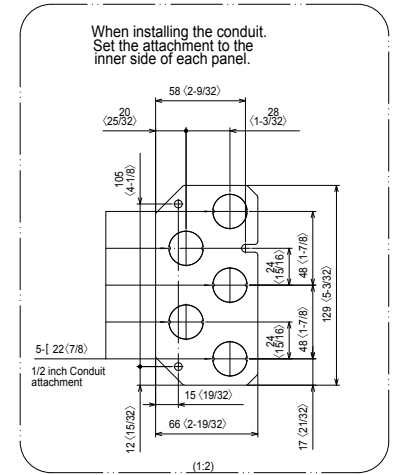
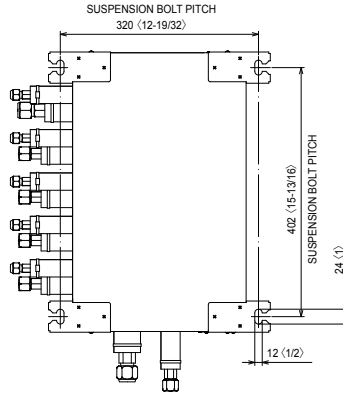
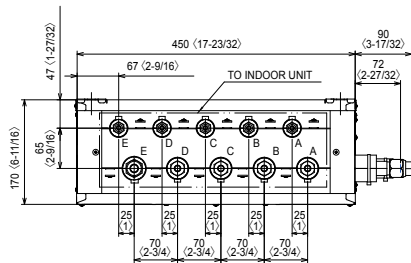
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SUSPENSION BOLT : W3/8(M10)

REFRIGERANT PIPE FLARED CONNECTION

Unit: inch

	A	B	C	D	E	TO OUTDOOR UNIT
LIQUID PIPE	1/4F	1/4F	1/4F	1/4F	1/4F	3/8F
GAS PIPE	3/8F	3/8F	3/8F	3/8F	1/2F	5/8F



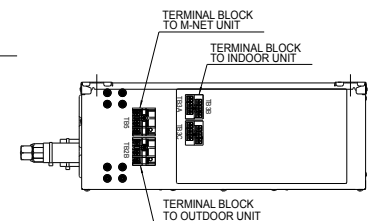
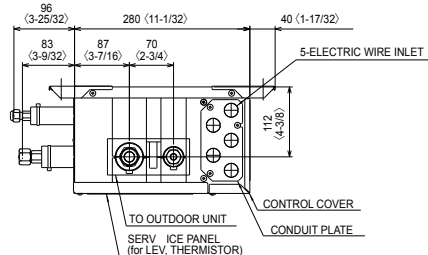
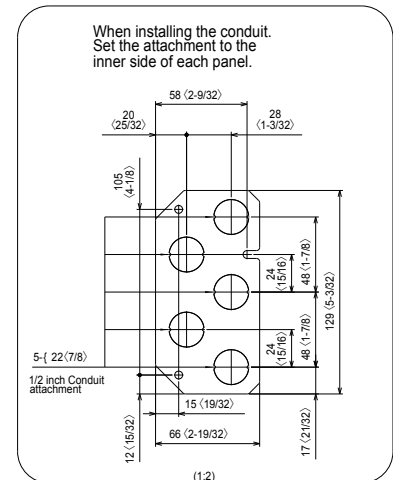
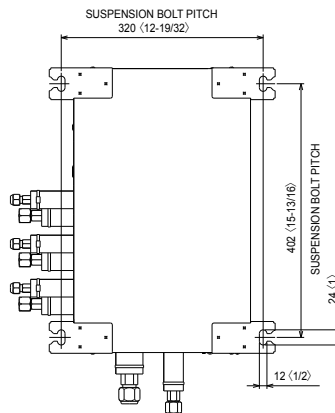
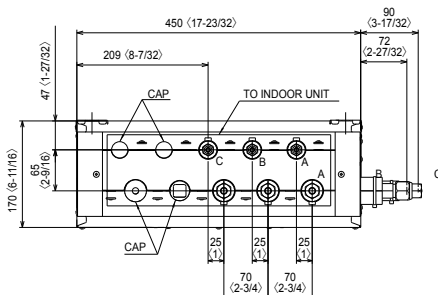
TAC-MKA31BC

SUSPENSION BOLT : W3/8(M10)

REFRIGERANT PIPE FLARED CONNECTION

Unit: inch

	A	B	C	TO OUTDOOR UNIT
LIQUID PIPE	1/4F	1/4F	1/4F	3/8F
GAS PIPE	3/8F	3/8F	3/8F	5/8F



DIMENSIONS: NTXMMX60A182AA

Unit: mm <inch>

