



Product Catalog

C-Series

Concealed (Ducted) Indoor and Outdoor Units

**Indoor unit model number:**

4MUD4518A10N0*
4MUD4524A10N0*
4MUD4530A10N0*
4MUD4536A10N0*
4MUD4542A10N0*
4MUD4548A10N0*

Outdoor unit model number:

4TUK4518A10N0*
4TUK4524A10N0*
4TUK4530A10N0*
4TUK4536A10N0*
4TUK4542A10N0*
4TUK4548A10N0*



Introduction

Trane® C-Series ductless systems offer heating and cooling capacities ranging from 1.5 to 4 tons to precisely meet the requirements of indoor spaces while delivering high energy efficiency—up to 20 SEER. A variety of indoor fan coil unit options are available in both ceiling cassette and concealed designs, so your Trane ductless system can be perfectly tailored to the requirements of the space. Trane C-Series systems support pipe runs of up to 98 vertical ft (29.9 m), and up to 245 total ft (74.7 m). All C-Series systems are rated for cooling operation to 0°F (-17.8°C) and heating operation to -4°F (-20°C).

Suitable for a wide variety of applications, Trane C-Series systems can reliably deliver precise temperature control to maintain comfort, as well as ensure the reliability of heat-generating equipment like computer servers, making them perfect for applications like small remote facilities on larger campuses, data centers, machine rooms and more. Trane C-Series systems are also a perfect supplement to larger Trane VRF systems, with the same controls available to both systems.

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Revision History

Revision	Description
B	Updated the outdoor unit MCA and MOP values in the specification tables.



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Features and Benefits

The following is a list of standard features:

- 10 year parts and compressor warranty
- Low ambient cooling to 0°F (-17.8°C) (with baffle)
- Low ambient heating to -4°F (-20°C) (with baffle)
- Auto restart on power fail
- Night time quiet operation mode
- Return air filter standard
- Inverter compressor/condenser fan motor
- BLDC supply fan
- Low pressure cutoff

The following is a list of optional features:

- Low ambient wind baffle
- Wireless remote control
- Wired programmable controller
- Simple touch controller
- Refrigerant line set
- Condenser pad
- Auxiliary heat



Mechanical Specification

Outdoor Unit

This unit is fully charged from the factory for up to 25 ft (7.6 m) of piping. In cooling mode, the system is designed to operate at outdoor ambient temperatures between 23°F and 115°F (-5°C and 46.1°C). With the addition of a wind baffle, cooling capacity is extended down to 0°F (-17.8°C). In heating mode, the system is designed to operate at outdoor ambient temperatures between -4°F (-20°C) and 76°F (24°C). Cooling and heating capacities and efficiencies are AHRI certified. The unit is ETL listed for outdoor application.

Unit Casing

The unit casing is constructed of heavy gauge, galvanized steel and painted with weather-resistant powder paint.

Refrigerant Controls

Refrigeration system controls include condenser fan and compressor relays. Each outdoor unit is completely factory assembled, including a modulating linear expansion valve and suction line multi-function service valve. High and low pressure controls are inherent to the compressor.

Compressor

The compressor has inverter driven technology to modulate capacity. Additional features include internal thermal overload and pressure protection. A total dipping process protects hermetic motor windings. The compressor is mounted to avoid the transmission of vibration and noise.

Condenser Coil

The coil is manufactured with aluminum micro-channel tubing. The coil provides air flow resistance and efficient heat transfer. The coil is protected by the casing and coil guard.

Indoor Unit

Concealed (duct type) air handlers are high-performance ceiling-concealed ducted fan coils with field-adjustable return and a fixed horizontal discharge supply when using field-installed return air filter boxes. These air handlers are UL 1995 certified to serve multiple rooms.

Each indoor unit is completely factory assembled including control circuit board and fan motor. Each indoor unit includes a condensate drain pan and built-in condensate drain pump. The indoor unit is factory and run tested.

Unit Cabinet

The indoor unit has flanges for ducted, air-supply connections and is UL 1995 certified to serve multiple rooms..

Fan

The indoor fan is statically and dynamically balanced to run on a motor with permanently lubricated bearings. The indoor fan motor has available four speeds: High, Medium, Low, and Auto.

Remote Controller

Wired and wireless control is available for all units (sold separately). Available features include (depending on model):

- On/off control
- Mode selection
- Temperature setpoint
- Fan speed setting
- Dirty filter alert
- Scheduling



Model Number Description

Indoor Unit Model Number Description

Digit 1 — Refrigerant

4 = R410A

Digit 2 — Product type

M = Mini-split indoor unit

Digit 3 — System type

U = C-Series universal match

Digit 4 — System type

D = Mid static pressure duct type

Digit 5 — Standard model

4 = Standard model

Digit 6 — Connection type

5 = Flare

Digit 7, 8 — Nominal capacity (Btu/h x 1,000)

18 = 18,000 Btu/h

24 = 24,000 Btu/h

30 = 30,000 Btu/h

36 = 36,000 Btu/h

42 = 42,000 Btu/h

48 = 48,000 Btu/h

Digit 9 — Major development sequence

A = First development sequence

B = Second development sequence

C = Third development sequence

D = Fourth development sequence

Digit 10 — Major development sequence

1 = 208-230/60/1

Digit 11 — Reserved for future use

0 = Standard

Digit 12 — Miscellaneous digit

N = North America market (mini-split models)

Digit 13 — Reserved for future use

0 = Standard

Digit 14 — Minor design sequence

A = First design sequence

B = Second design sequence

C = Third design sequence

D = Fourth design sequence

Outdoor Unit Model Number Description

Digit 1 — Refrigerant

4 = R410A

Digit 2 — Brand name

T = Trane

Digit 3 — System type

U = Universal match heat pump

Digit 4 — Configuration type

K = Outdoor unit

Digit 5 — Efficiency tier and/or special application

4 = Standard model

Digit 6 — Series number

5 = Standard model

Digit 7, 8 — Nominal capacity (Btu/h x 1,000)

18 = 18,000 Btu/h

24 = 24,000 Btu/h

30 = 30,000 Btu/h

36 = 36,000 Btu/h

42 = 42,000 Btu/h

48 = 48,000 Btu/h

Digit 9 — Major development sequence

A = First development sequence

B = Second development sequence

C = Third development sequence

D = Fourth development sequence

Digit 10 — Electric power supply characteristics

1 = 208-230/60/1

Digit 11 — Reserved for future use

0 = Not currently used

Digit 12 — Region of sale

N = North America (UL or ETL)

Digit 13 — Reserved for future use

0 = Not currently used

Digit 14 — Minor design sequence

A = First design sequence

B = Second design sequence

C = Third design sequence

D = Fourth design sequence



Products

Application Matrix

Type		MBH									
		12	15	18	20	24	27	30	32	36	42
High wall unit (12-24 MBH)		X		X	X	X					
High wall unit (30-36 MBH)								X		X	
Circular cassette unit (18-48 MBH)				X		X		X		X	X
4-way cassette unit (18-48 MBH)				X		X		X		X	X
Mid static (concealed) unit (18-48 MBH)				X		X		X		X	X
Convertible air handler (18-48 MBH)				X		X		X		X	X



Products

Controls

Zone Controllers

Type	Figure	Model Number
Wireless remote control <ul style="list-style-type: none">• Mode: heat/cool/auto/off• Fan: auto/high/med/low• Service indicator <p>Note: Requires the use of a duct signal receiver when used with a 4MUD ducted product.</p>		TVCTRLTRDH00UT
Wireless control EcoAir <ul style="list-style-type: none">• Mode: heat/cool/auto/off• Fan: auto/high/med/low• Occupancy/setback• Service indicator EcoTouch <ul style="list-style-type: none">• Mode: heat/cool/auto/off• Fan: auto/high/med/low• Occupancy/setback• Service indicator		TVCTRLTECOAIR1A TVCTRLECOTCH1A
Simple touch wired control <ul style="list-style-type: none">• Mode: heat/cool/auto/off• Fan: auto/high/med/low• Service indicator		TVCTRLTWR0002T
Wired remote control <ul style="list-style-type: none">• Mode: heat/cool/auto/off• Fan: auto/high/med/low• Programmable• Service indicator		TVCTRLTWRWD02T

Centralized Control Systems

Type	Model Number
VRF touch screen control	TVCTRLTCMA300T

Integrated System Management

Type	Model Number
VRF power meter interface (PIM)	TVCTRLTIMB16A0

Building Management System Gateways

Type	Model Number
VRF system controller+BACnet® Note: This controller enables BACnet integration.	TVCTRLSCBB17A0

Interface Modules

Type	Model Number
VRF external contact interface module/auxiliary heat module	TVCTRLTIMB14A0

Sensors

Type	Model Number
VRF external room temperature sensor	TVCTRLTRWTA000

Commissioning Utility Kits

Type	Model Number
VRF Technician Utilities Tool (TUT)	TVCTRLTIMC0300



Products

Accessories

Family	Description	Model Number
Hail Guards	4TVH/R*096-192	TVRGARD002A
Wind Baffles	4TUK4512A10N0A Use when low ambient cooling is required below 23°F outdoor temperature.	CSERWINDBFL12A
	4TUK4518A10N0A	CSERWINDBFL18A
	4TUKL518A10N0A	CSERWINDB4018A
	4TUK4524A10N0A 4TUK4530A10N0A 4TUKL524A10N0A 4TUKL530A10N0A 4TUKL536A10N0A	CSERWINDBFL24A
Low ambient cooling kit	4TUK4536A10N0A 4TUK4542A10N0A 4TUK4548A10N0A	CSERWINDBFL36A
	6 ton model	TVPROCOOLK01A
	8, 10, and 12 ton models	TVPROCOOLK02A



Product Specification

Table 1. System specifications for 18, 24, and 30 MBH capacity units

System model numbers		4MUD4518A10N0*/ 4TUK4518A10N0*		4MUD4524A10N0*/ 4TUK4524A10N0*		4MUD4530A10N0*/ 4TUK4530A10N0*	
Power supply		208–230/60/1		208–230/60/1		208–230/60/1	
Performance							
		Cooling	Heating	Cooling	Heating	Cooling	Heating
Rated cooling/heating capacity (Btu/h)		18,000	20,000	24,000	27,000	30,000	32,000
Cooling capacity @95°F (Btu/h)	Max	21,000	N/A	27,000	N/A	35,000	N/A
	Min	5,000	N/A	7,000	N/A	9,300	N/A
Heating capacity @47°F (Btu/h)	Max	N/A	25,000	N/A	31,000	N/A	38,000
	Min	N/A	3,800	N/A	5,200	N/A	9,000
Heating capacity @17°F (Btu/h)	Max	N/A	16,500	N/A	23,000	N/A	32,000
	Rated	N/A	13,500	N/A	17,000	N/A	20,600
Heating capacity @5°F (Btu/h)	Max	N/A	14,100	N/A	20,500	N/A	29,000
Heating capacity @-4°F (Btu/h)	Max	N/A	10,000	N/A	14,500	N/A	20,000
SEER/HSPF	Rated per AHRI 210/240	19.6	10.3	20.0	10.5	19.1	10.0
EER @95°F		11.2	11.6	12.1	11.5	11.1	12.0
Dehumidifying volume	pt/hr	4.26		6.13		7.03	
Power							
Rated power input	W	1.61	1.73	1.99	2.35	2.70	2.66
Nominal input current	A	7.4	8.0	9.2	10.8	12.0	12.0

Notes:

1. Nominal capacity based on 25 ft (7.6 m) of equivalent refrigerant piping with 0 ft (0 m) level difference.

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. Rated per AHRI-210/240 standard conditions.



Product Specification

Table 2. System capacity specifications for 36, 42, and 48 MBH capacity units

System model numbers		4MUD4536A10N0*/ 4TUK4536A10N0*		4MUD4542A10N0*/ 4TUK4542A10N0*		4MUD4548A10N0*/ 4TUK4548A10N0*	
Power supply		208-230/60/1		208-230/60/1		208-230/60/1	
Performance							
		Cooling	Heating	Cooling	Heating	Cooling	Heating
Rated cooling/heating capacity (Btu/h)		36,000	40,000	42,000	47,000	48,000	53,000
Cooling capacity @95°F (Btu/h)	Max	41,000	N/A	45,000	N/A	51,000	N/A
	Min	14,000	N/A	16,300	N/A	18,600	N/A
Heating capacity @47°F (Btu/h)	Max	N/A	48,000	N/A	50,000	N/A	55,000
	Min	N/A	11,500	N/A	13,400	N/A	15,300
Heating capacity @17°F (Btu/h)	Max	N/A	36,000	N/A	42,000	N/A	42,200
	Rated	N/A	24,000	N/A	29,000	N/A	32,500
Heating capacity @5°F (Btu/h)	Max	N/A	34,000	N/A	39,000	N/A	39,500
Heating capacity @-4°F (Btu/h)	Max	N/A	30,000	N/A	30,000	N/A	30,500
SEER/HSPF	Rated per AHRI 210/240	20.0	10.0	19.0	10.0	18.1	9.6
EER @95°F		12.0	12.1	10.5	11.8	9.7	10.5
Dehumidifying volume	pt/hr	8.24		9.37		12.35	
Power							
Rated power input	W	4.95	5.05				
Nominal input current	A	13.0	14.3	16.4	17.3	21.5	20.0

Notes:

1. Nominal capacity based on 25 ft (7.6 m) of equivalent refrigerant piping with 0 ft (0 m) level difference.
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 W; outdoor temperature 47° F DB, 43° F WB.
2. Rated per AHRI-210/240 standard conditions.

Table 3. Indoor unit specifications for 18, 24, and 30 MBH capacity units

Indoor unit model number			4MUD4518A10N0*	4MUD4524A10N0*	4MUD4530A10N0*
Fan	Motor type		BLDC	BLDC	BLDC
	Output x n		W	183 x 1	183 x 1
	FLA		A	0.85	0.85
	Fan type		Sirocco	Sirocco	Sirocco
	Air flow rate H/M/L (dry coil)		cfm	CFM 565/494/388	CFM 706/618/530
	External static pressure (Min/Std/Max)		in. HO	0.0/0.12/0.6	0.0/0.12/0.6
Coil	Construction		Fin/Copper tube	Fin/Copper tube	Fin/Copper tube
Sound	Sound pressure level (H/M/L)		dBA	34/30/26	36/32/28
	Sound power level		dBA	56	58
Standard components	Filter		Washable mesh	Washable mesh	Washable mesh
	Condensate drain pump	Max. lifting height	in.	29	29
		Displacement	pint/hr.	50.7	50.7
	Wired remote control		TVCTRLTWRWD01T or TVCTRLTWR0002T	TVCTRLTWRWD01T or TVCTRLTWR0002T	TVCTRLTWRWD01T or TVCTRLTWR0002T
Remote control	Wireless remote control		TVCTRLTRDH00UT	TVCTRLTRDH00UT	TVCTRLTRDH00UT
Connections	Type		Flare	Flare	Flare
	Liquid pipe		dia., in.	1/4	1/2
	Gas pipe		dia., in.	1/2	5/8
	Condensate drain		dia., in.	OD.98 (VP25), Id .79 (VP20)	OD.98 (VP25), Id .79 (VP20)
Dimensions	Net weight		lbs.	94.8	136.7
	Shipping weight		lbs.	105.8	147.7
	Net dimensions (WxHxD)		in.	45-3/8 x 12-5/8 x 18-7/8	45-3/8 x 12-5/8 x 18-7/8
	Shipping dimensions (WxHxD)		in.	55-7/8 x 15-3/4 x 23-3/8	57-3/8 x 17-3/8 x 30-3/4

Notes:

1. Sound pressure was acquired in a dead room. Actual noise level may be different depending on installation requirements.
2. Indoor unit receives power from the outdoor unit through field-supplied interconnecting wiring.
3. Unit includes an optional drain hose connection.



Product Specification

Table 4. Indoor unit specifications for 36, 42, and 48 MBH capacity units

Indoor unit model number			4MUD4536A10N0*	4MUD4542A10N0*	4MUD4548A10N0*
Fan	Motor type		BLDC	BLDC	BLDC
	Output x n		W	183 x 2	183 x 2
	FLA		A	#1 FLA 1.9 / #2 FLA 1.9	#1 FLA 1.9 / #2 FLA 1.9
	Fan type		Sirocco	Sirocco	Sirocco
	Air flow rate H/M/L (dry coil)		cfm	1130/954/777	1413/1271/1148
	External static pressure (Min/Std/Max)		in. HO	0.12/0.16/0.8	42-48 ESP 0.16/0.2/.08
Coil	Construction		Fin/Copper tube	Fin/Copper tube	Fin/Copper tube
Sound	Sound pressure level (H/M/L)		dBA	38/34/30	40/37/34
	Sound power level		dBA	60	62
Standard components	Filter		Washable mesh	Washable mesh	Washable mesh
	Max. lifting height	in.	29	29	29
	Condensate drain pump	Displacement	pint /hr	50.7	50.7
Remote control	Wired remote control		TVCTRLTWRWD02T or TVCTRLTWR001T	TVCTRLTWRWD02T or TVCTRLTWR001T	TVCTRLTWRWD02T or TVCTRLTWR001T
	Wireless remote control		TVCTRLTRDH00UT	TVCTRLTRDH00UT	TVCTRLTRDH00UT
Connections	Type		Flare	Flare	Flare
	Liquid pipe		dia., in.	3/8	3/8
	Gas pipe		dia., in.	5/8	5/8
	Condensate drain		dia., in.	OD.98 (VP25), Id .79 (VP20)	OD.98 (VP25), Id .79 (VP20)
Dimensions	Net weight		lbs.	136.7	136.7
	Shipping weight		lbs.	147.7	147.7
	Net dimensions (WxHxD)		in.	47-1/4 x 141/4 x 25-5/8	47-1/4 x 14-1/4 x 25-5/8
	Shipping dimensions (WxHxD)		in.	57-3/8 x 17-3/8 x 30-3/4	57-3/8 x 17-3/8 x 30-3/4

Notes:

1. Sound pressure was acquired in a dead room. Actual noise level may be different depending on installation requirements.
2. Indoor unit receives power from the outdoor unit through field-supplied interconnecting wiring.
3. Unit includes an optional drain hose connection.

Table 5. Outdoor unit specifications for 18, 24, and 30 MBH capacity units

Outdoor Unit Model Number			4TUK4518A10N0*	4TUK4524A10N0*	4TUK4530A10N0*
Compressor	Type		Rotary inverter	Rotary inverter	Rotary inverter
	Oil		POE	POE	POE
	RLA	A	6.1	9.0	15.1
Fan	Motor type		BLDC	BLDC	BLDC
	Output x n	W	39 x 1	125 x 1	125 x 1
	FLA	A	0.13	0.48	0.48
	Fan type		Propeller	Propeller	Propeller
	Air flow rate	cfm	1550	2190	2220
Electrical	MCA	A	10.0	14.0	24.0
	MOP	A	15	20	30
Coil	Construction		Aluminum micro channel	Aluminum micro channel	Aluminum micro channel
Sound	Sound pressure level (Clg/Htg)	dBA	48/48	50/50	50/52
	Sound power level	dBA	62	65	65
Connections	Type		Flare	Flare	Flare
	Liquid pipe	dia., in.	1/4	1/4	3/8
	Gas pipe	dia., in.	1/2	5/8	5/8
Dimensions	Net weight	lbs.	99.2	142.2	154.3
	Shipping weight	lbs.	105.8	153.2	163.1
	Net dimensions (WxHxD)	in.	34-5/8 x 25-1/8 x 57-3/8 x 17-3/8 x 30-3/4 x 12-1/4	37 x 39-3/8 x 13	37 x 39-3/8 x 13
	Shipping dimensions (WxHxD)	in.	40-1/4 x 29-1/2 x 16-1/4	39-1/4 x 43-1/8 x 16-3/4	39-1/4 x 43-1/8 x 16-3/4
Refrigerant	Type		R-410A	R-410A	R-410A
	Control method		EEV	EEV	EEV
	Factory charge	oz.	45.86	74.08	91.71
	Additional charge	oz./ft	0.11	0.11	0.24

Note: Sound pressure was acquired in a dead room. Actual noise level may be different depending on installation requirements.



Product Specification

Table 6. Outdoor unit specifications for 36, 42, and 48 capacity units

Outdoor Unit Model Number			4TUK4536A10N0*	4TUK4542A10N0*	4TUK4548A10N0*
Compressor	Type		Rotary inverter	Rotary inverter	Rotary inverter
	Oil		POE	POE	POE
	RLA	A	17.0	17.0	17.0
Fan	Motor type		BLDC	BLDC	BLDC
	Output x n	W	125 x 2	125 x 2	125 x 2
	FLA	A	0.48 x 2	0.48 x 2	0.48 x 2
	Fan type		Propeller	Propeller	Propeller
	Air flow rate	cfm	3040	3040	3040
Electrical	MCA	A	26.5	26.5	26.5
	MOP	A	35	35	35
Coil	Construction		Aluminum micro channel	Aluminum micro channel	Aluminum micro channel
Sound	Sound pressure level (Clg/Htg)	dBA	49/51	51/53	53/55
	Sound power level	dBA	65	66	67
Connections	Type		Flare	Flare	Flare
	Liquid pipe	dia., in.	3/8	3/8	3/8
	Gas pipe	dia., in.	5/8	5/8	5/8
Dimensions	Net weight	lbs.	194	194	194
	Shipping weight	lbs.	216.1	216.1	216.1
	Net dimensions (WxHxD)	in.	37 x 47-5/8 x 13	37 x 47-5/8 x 13	37 x 47-5/8 x 13
	Shipping dimensions (WxHxD)	in.	39-1/4 x 54-5/8 x 16-3/4	39-1/4 x 54-5/8 x 16-3/4	39-1/4 x 54-5/8 x 16-3/4
Refrigerant	Type		R-410A	R-410A	R-410A
	Control method		EEV	EEV	EEV
	Factory charge	oz.	98.77	98.77	98.77
	Additional charge	oz./ft	0.35	0.35	0.35

Note: Sound pressure was acquired in a dead room. Actual noise level may be different depending on installation requirements.

Table 7. Application limit specification for 18, 24, and 30 capacity units

Application limits			4MUD4518A10N0*/ 4TUK4518A10N0*	4MUD4524A10N0*/ 4TUK4524A10N0*	4MUD4530A10N0*/ 4TUK4530A10N0*
Outdoor unit operating range	Cooling	Without wind baffle	23–115° F (-5–46.1°C)	23–115° F (-5–46.1°C)	23–115° F (-5–46.1°C)
		With wind baffle	0–115° F (-17.8–46.1°C)	0–115° F (-17.8–46.1°C)	0–115° F (-17.8–46.1°C)
	Heating	-4–75° F (-20–23.9°C)		-4–75° F (-20–23.9°C)	-4–75° F (-20–23.9°C)
Refrigerant piping	Max. length ft	98		164	164
	Max. length with no additional refrigerant ft	25		25	25
	Max. height difference ft	66		98	98

Table 8. Application limit specification for 36, 42 and 48 capacity units

Application limits			4MUD4536A10N0*/ 4TUK4536A10N0*	4MUD4542A10N0*/ 4TUK4542A10N0*	4MUD4548A10N0*/ 4TUK4548A10N0*
Outdoor unit operating range	Cooling	Without wind baffle	23–115° F (-5–46.1°C)	23–115° F (-5–46.1°C)F	23–115° F (-5–46.1°C)
		With wind baffle	0–115° F (-17.8–46.1°C)	0–115° F (-17.8–46.1°C)	0–115° F (-17.8–46.1°C)
	Heating	-4–75° F (-20–23.9°C)		-4–75° F (-20–23.9°C)	-4–75° F (-20–23.9°C)
Refrigerant piping	Max. length ft	246		246	246
	Max. length with no additional refrigerant ft	25		25	25
	Max. height difference ft	98		98	98



Capacity Tables

Table 9. Capacity table for 4MUD4518A10N0* and 4TUK4518A10N0* (68°F, 73°F, 79°F, and 80°F): cooling

Outdoor Air Temp. (°F DB)	Indoor Temperature (°F)							
	68 (20.0°C, DB)		73 (22.8°C, DB)		79 (26.1°C, DB)		80 (26.7°C, DB)	
	57 (13.9°C, WB)		61 (19.4°C, WB)		64 (17.8°C, WB)		67 (19.4°C, WB)	
	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)
0	19.7	15.7	20.2	16.1	20.7	16.6	21.1	16.9
10	19.9	15.9	20.4	16.3	20.9	16.8	21.3	17.1
20	20.1	16.1	20.6	16.5	21.2	16.9	21.6	17.2
30	20.3	16.2	20.8	16.7	21.4	17.1	21.8	17.4
40	20.5	16.4	21.1	16.8	21.6	17.3	22.0	17.6
50	20.7	16.6	21.3	17.0	21.8	17.5	22.2	17.8
54	20.8	16.6	21.4	17.1	21.9	17.5	22.3	17.9
58	20.9	16.7	21.4	17.2	22.0	17.6	22.4	17.9
60	20.9	16.7	21.5	17.2	22.1	17.7	22.5	18.0
64	21.0	16.8	21.6	17.3	22.2	17.7	22.6	18.1
67	21.1	16.9	21.6	17.3	22.2	17.8	22.6	18.1
70	21.1	16.9	21.7	17.4	22.3	17.8	22.7	18.2
73	20.6	16.5	21.2	16.9	21.7	17.4	22.1	17.7
77	19.9	15.9	20.5	16.4	21.0	16.8	21.4	17.1
80	19.4	15.5	19.9	15.9	20.4	16.4	20.8	16.7
84	18.7	15.0	19.2	15.4	19.7	15.8	20.1	16.1
88	18.0	14.4	18.5	14.8	19.0	15.2	19.3	15.5
92	17.3	13.8	17.8	14.2	18.2	14.6	18.6	14.9
95	16.8	13.4	17.2	13.8	17.7	14.1	18.0	14.4
99	16.3	13.0	16.7	13.4	17.2	13.7	17.5	14.0
103	15.8	12.7	16.3	13.0	16.7	13.4	17.0	13.6
107	15.4	12.3	15.8	12.6	16.2	13.0	16.5	13.2
111	14.9	11.9	15.3	12.2	15.7	12.6	16.0	12.8
115	14.4	11.6	14.8	11.9	15.2	12.2	15.5	12.4

Notes:

1. Capacity index: Total capacity (TC) = 18 MBh; sensible heat capacity (SHC) = 14.4 MBh.
2. Indoor air temperatures (F° DB/WB) in cooling mode: 68/57, 72/61, 77/64, 80/67, 86/72, 90/75.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft

Table 10. Capacity table for 4MUD4518A10N0* and 4TUK4518A10N0* (85°F, 87°F, and 89°F): cooling

Outdoor Air Temp. (°F DB)	Indoor Temperature (°F)					
	85 (29.4°C, DB)		87 (30.6°C, DB)		89 (31.7°C, DB)	
	70 (21.1°C, WB)		72 (22.2°C, WB)		75 (23.9°C, WB)	
	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)
0	21.6	17.3	22.0	17.6	22.1	17.7
10	21.9	17.5	22.2	17.8	22.4	17.9
20	22.1	17.7	22.4	17.9	22.6	18.1
30	22.3	17.9	22.7	18.1	22.8	18.3
40	22.6	18.1	22.9	18.3	23.1	18.5
50	22.8	18.2	23.1	18.5	23.3	18.7
54	22.9	18.3	23.2	18.6	23.4	18.7
58	23.0	18.4	23.3	18.7	23.5	18.8
60	23.0	18.4	23.4	18.7	23.6	18.9
64	23.1	18.5	23.5	18.8	23.7	18.9
67	23.2	18.6	23.5	18.8	23.7	19.0
70	23.3	18.6	23.6	18.9	23.8	19.0
73	22.7	18.2	23.0	18.4	23.2	18.6
77	21.9	17.5	22.2	17.8	22.4	17.9
80	21.3	17.1	21.7	17.3	21.8	17.5
84	20.6	16.5	20.9	16.7	21.0	16.8
88	19.8	15.8	20.1	16.1	20.3	16.2
92	19.0	15.2	19.3	15.5	19.5	15.6
95	18.5	14.8	18.7	15.0	18.9	15.1
99	17.9	14.4	18.2	14.6	18.4	14.7
103	17.4	13.9	17.7	14.1	17.8	14.3
107	16.9	13.5	17.2	13.7	17.3	13.8
111	16.4	13.1	16.6	13.3	16.8	13.4
115	15.9	12.7	16.1	12.9	16.3	13.0

Notes:

1. Capacity index: Total capacity (TC) = 18 MBh; sensible heat capacity (SHC) = 14.4 MBh.
2. Indoor air temperatures (F° DB/WB) in cooling mode: 68/57, 72/61, 77/64, 80/67, 86/72, 90/75.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft



Capacity Tables

Table 11. Capacity tables for 4MUD4518A10N0* and 4TUK4518A10N0*: heating

Outdoor Air Temp. (°F)	Indoor temperature (°F DB)				
	61 (16.1°C)	65 (16.1°C)	70 (21.1°C)	72 (22.2°C)	75 (23.8°C)
	TC	TC	TC	TC	TC
DB	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h
-4.0	9.9	9.8	9.6	9.5	9.4
-1.0	11.1	11.0	10.7	10.6	10.5
2	12.2	12.1	11.9	11.7	11.6
6	13.8	13.6	13.4	13.2	13.1
10	15.2	15.1	14.8	14.7	14.5
13	16.6	16.4	16.1	15.9	15.8
17	17.1	16.9	16.6	16.4	16.2
19	17.3	17.1	16.8	16.6	16.5
23	17.8	17.6	17.2	17.1	16.9
26	18.1	17.9	17.6	17.4	17.2
30	18.6	18.4	18.1	17.9	17.7
35	19.2	19.0	18.6	18.4	18.2
39	19.6	19.4	19.1	18.9	18.7
44	20.2	20.0	19.6	19.5	19.3
47	20.6	20.4	20.0	19.8	19.6
51	21.3	21.1	20.6	20.4	20.2
54	21.8	21.6	21.2	20.9	20.7
57	22.3	22.1	21.6	21.4	21.2
60	22.8	22.6	22.1	21.9	21.7
65	23.6	23.4	23.0	22.7	22.5
70	24.5	24.3	23.8	23.5	23.3
75	25.3	25.1	24.6	24.4	24.1

Notes:

1. Capacity index: Total capacity (TC) = 20 MBh
2. Rated heating capacity is at 47°F DB/ 43°F WB.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft

Table 12. Capacity table for 4MUD4524A10N0* and 4TUK4524A10N0* (68°F, 73°F, 79°F, and 80°F): cooling

Outdoor Air Temp. (°F DB)	Indoor Temperature (°F)							
	68 (20.0°C, DB)		73 (22.8°C, DB)		79 (26.1°C, DB)		80 (26.7°C, DB)	
	57 (13.9°C, WB)		61 (19.4°C, WB)		64 (17.8°C, WB)		67 (19.4°C, WB)	
	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)
0	25.2	20.2	25.9	20.7	26.6	21.3	27.1	21.7
10	25.3	20.2	26.0	20.8	26.7	21.3	27.2	21.7
20	25.4	20.3	26.0	20.8	26.7	21.4	27.2	21.8
30	25.4	20.3	26.1	20.9	26.8	21.4	27.3	21.8
40	25.5	20.4	26.1	20.9	26.8	21.5	27.3	21.9
50	25.5	20.4	26.2	21.0	26.9	21.5	27.4	21.9
54	25.5	20.4	26.2	21.0	26.9	21.5	27.4	21.9
58	25.6	20.4	26.2	21.0	26.9	21.6	27.4	21.9
60	25.6	20.5	26.2	21.0	26.9	21.6	27.4	22.0
64	25.6	20.5	26.3	21.0	27.0	21.6	27.5	22.0
67	25.6	20.5	26.3	21.0	27.0	21.6	27.5	22.0
70	25.6	20.5	26.3	21.0	27.0	21.6	27.5	22.0
73	25.2	20.2	25.9	20.7	26.6	21.3	27.1	21.7
77	24.7	19.8	25.4	20.3	26.0	20.8	26.5	21.2
80	24.3	19.5	25.0	20.0	25.6	20.5	26.1	20.9
84	23.8	19.0	24.4	19.5	25.1	20.1	25.5	20.4
88	23.3	18.6	23.9	19.1	24.5	19.6	25.0	20.0
92	22.7	18.2	23.4	18.7	24.0	19.2	24.4	19.5
95	22.4	17.9	23.0	18.4	23.6	18.9	24.0	19.2
99	22.1	17.7	22.7	18.1	23.3	18.6	23.7	19.0
103	21.8	17.4	22.4	17.9	23.0	18.4	23.4	18.7
107	21.5	17.2	22.1	17.7	22.7	18.1	23.1	18.5
111	21.2	17.0	21.8	17.4	22.4	17.9	22.8	18.2
115	21.0	16.8	21.5	17.2	22.1	17.7	22.5	18.0

Notes:

1. Capacity index: Total capacity (TC) = 24 MBh; sensible heat capacity (SHC) = 19.2 MBh.
2. Indoor air temperatures (F° DB/WB) in cooling mode: 68/57, 72/61, 77/64, 80/67, 86/72, 90/75.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft



Capacity Tables

Table 13. Capacity table for 4MUD4524A10N0* and 4TUK4524A10N0* (85°F, 87°F, and 89°F): cooling

Outdoor Air Temp. (°F DB)	Indoor Temperature (°F)					
	85 (29.4°C, DB)		87 (30.6°C, DB)		89 (31.7°C, DB)	
	70 (21.1°C, WB)		72 (22.2°C, WB)		75 (23.9°C, WB)	
	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)
0	27.8	22.2	28.2	22.6	28.4	22.7
10	27.8	22.3	28.3	22.6	28.5	22.8
20	27.9	22.3	28.3	22.7	28.5	22.8
30	28.0	22.4	28.4	22.7	28.6	22.9
40	28.0	22.4	28.4	22.7	28.7	22.9
50	28.1	22.5	28.5	22.8	28.7	23.0
54	28.1	22.5	28.5	22.8	28.7	23.0
58	28.1	22.5	28.5	22.8	28.8	23.0
60	28.1	22.5	28.6	22.8	28.8	23.0
64	28.2	22.5	28.6	22.9	28.8	23.0
67	28.2	22.5	28.6	22.9	28.8	23.1
70	28.2	22.6	28.6	22.9	28.8	23.1
73	27.8	22.2	28.2	22.5	28.4	22.7
77	27.2	21.7	27.6	22.1	27.8	22.2
80	26.8	21.4	27.2	21.7	27.4	21.9
84	26.2	20.9	26.6	21.3	26.8	21.4
88	25.6	20.5	26.0	20.8	26.2	21.0
92	25.0	20.0	25.4	20.3	25.6	20.5
95	24.6	19.7	25.0	20.0	25.2	20.1
99	24.3	19.4	24.7	19.7	24.9	19.9
103	24.0	19.2	24.3	19.5	24.5	19.6
107	23.7	18.9	24.0	19.2	24.2	19.4
111	23.4	18.7	23.7	19.0	23.9	19.1
115	23.1	18.5	23.4	18.7	23.6	18.9

Notes:

1. Capacity index: Total capacity (TC) = 24 MBh; sensible heat capacity (SHC) = 19.2 MBh.
2. Indoor air temperatures (F° DB/WB) in cooling mode: 68/57, 72/61, 77/64, 80/67, 86/72, 90/75.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft

Table 14. Capacity tables for 4MUD4524A10N0* and 4TUK4524A10N0*: heating

Outdoor Air Temp. (°F)	Indoor temperature (°F DB)				
	61 (16.1°C)	65 (16.1°C)	70 (21.1°C)	72 (22.2°C)	75 (23.8°C)
	TC	TC	TC	TC	TC
DB	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h
-4.0	14.9	14.8	14.5	14.4	14.2
-1.0	15.9	15.8	15.5	15.3	15.2
2	16.9	16.8	16.4	16.3	16.1
6	18.3	18.1	17.7	17.6	17.4
10	19.5	19.4	19.0	18.8	18.6
13	20.7	20.5	20.1	19.9	19.7
17	21.5	21.3	20.9	20.7	20.5
19	22.0	21.7	21.3	21.1	20.9
23	22.8	22.6	22.1	21.9	21.7
26	23.4	23.2	22.7	22.5	22.3
30	24.3	24.0	23.6	23.3	23.1
35	25.3	25.0	24.5	24.3	24.1
39	26.1	25.9	25.3	25.1	24.8
44	27.2	26.9	26.4	26.1	25.9
47	27.8	27.5	27.0	26.7	26.5
51	29.0	28.7	28.2	27.9	27.6
54	30.0	29.7	29.1	28.8	28.5
57	30.9	30.6	30.0	29.7	29.4
60	31.8	31.5	30.9	30.6	30.3
65	33.4	33.1	32.4	32.1	31.8
70	34.9	34.6	33.9	33.6	33.2
75	36.5	36.1	35.4	35.0	34.7

Notes:

1. Capacity index: Total capacity (TC) = 27 MBh.
2. Rated heating capacity is at 47°F DB/ 43°F WB.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft



Capacity Tables

Table 15. Capacity table for 4MUD4530A10N0* and 4TUK4530A10N0* (68°F, 73°F, 79°F, and 80°F): cooling

Outdoor Air Temp. (°F DB)	Indoor Temperature (°F)							
	68 (20.0°C, DB)		73 (22.8°C, DB)		79 (26.1°C, DB)		80 (26.7°C, DB)	
	57 (13.9°C, WB)		61 (19.4°C, WB)		64 (17.8°C, WB)		67 (19.4°C, WB)	
	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)
0	32.4	25.9	33.3	26.6	34.2	27.3	34.8	27.8
10	32.4	25.9	33.2	26.6	34.1	27.3	34.7	27.8
20	32.3	25.9	33.2	26.5	34.1	27.2	34.7	27.7
30	32.3	25.8	33.1	26.5	34.0	27.2	34.6	27.7
40	32.2	25.8	33.1	26.5	33.9	27.2	34.6	27.7
50	32.2	25.7	33.0	26.4	33.9	27.1	34.5	27.6
54	32.1	25.7	33.0	26.4	33.9	27.1	34.5	27.6
58	32.1	25.7	33.0	26.4	33.8	27.1	34.5	27.6
60	32.1	25.7	33.0	26.4	33.8	27.1	34.5	27.6
64	32.1	25.7	32.9	26.3	33.8	27.1	34.4	27.5
67	32.1	25.7	32.9	26.3	33.8	27.0	34.4	27.5
70	32.0	25.6	32.9	26.3	33.8	27.0	34.4	27.5
73	31.6	25.2	32.4	25.9	33.3	26.6	33.9	27.1
77	30.9	24.7	31.7	25.4	32.6	26.1	33.2	26.5
80	30.4	24.3	31.2	25.0	32.1	25.6	32.6	26.1
84	29.8	23.8	30.5	24.4	31.4	25.1	31.9	25.5
88	29.1	23.3	29.9	23.9	30.7	24.5	31.2	25.0
92	28.4	22.8	29.2	23.4	30.0	24.0	30.5	24.4
95	27.9	22.4	28.7	23.0	29.5	23.6	30.0	24.0
99	27.0	21.6	27.7	22.2	28.4	22.8	29.0	23.2
103	26.0	20.8	26.7	21.4	27.4	21.9	27.9	22.3
107	25.0	20.0	25.7	20.6	26.4	21.1	26.9	21.5
111	24.1	19.3	24.7	19.8	25.4	20.3	25.8	20.7
115	23.1	18.5	23.7	19.0	24.4	19.5	24.8	19.8

Notes:

1. Capacity index: Total capacity (TC) = 30 MBh; sensible heat capacity (SHC) = 24 MBh.
2. Indoor air temperatures (F° DB/WB) in cooling mode: 68/57, 72/61, 77/64, 80/67, 86/72, 90/75.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft

Table 16. Capacity table for 4MUD4530A10N0* and 4TUK4530A10N0* (85°F, 87°F, and 89°F): cooling

Outdoor Air Temp. (°F DB)	Indoor Temperature (°F)					
	85 (29.4°C, DB)		87 (30.6°C, DB)		89 (31.7°C, DB)	
	70 (21.1°C, WB)		72 (22.2°C, WB)		75 (23.9°C, WB)	
	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)
0	35.7	28.5	36.2	29.0	36.5	29.2
10	35.6	28.5	36.1	28.9	36.4	29.1
20	35.6	28.4	36.1	28.9	36.4	29.1
30	35.5	28.4	36.0	28.8	36.3	29.1
40	35.4	28.3	36.0	28.8	36.3	29.0
50	35.4	28.3	35.9	28.7	36.2	29.0
54	35.4	28.3	35.9	28.7	36.2	28.9
58	35.3	28.3	35.9	28.7	36.1	28.9
60	35.3	28.3	35.8	28.7	36.1	28.9
64	35.3	28.2	35.8	28.7	36.1	28.9
67	35.3	28.2	35.8	28.6	36.1	28.9
70	35.3	28.2	35.8	28.6	36.1	28.9
73	34.7	27.8	35.2	28.2	35.5	28.4
77	34.0	27.2	34.5	27.6	34.8	27.8
80	33.5	26.8	34.0	27.2	34.2	27.4
84	32.7	26.2	33.2	26.6	33.5	26.8
88	32.0	25.6	32.5	26.0	32.8	26.2
92	31.3	25.0	31.8	25.4	32.0	25.6
95	30.8	24.6	31.2	25.0	31.5	25.2
99	29.7	23.7	30.1	24.1	30.4	24.3
103	28.6	22.9	29.0	23.2	29.3	23.4
107	27.6	22.0	28.0	22.4	28.2	22.6
111	26.5	21.2	26.9	21.5	27.1	21.7
115	25.4	20.3	25.8	20.6	26.0	20.8

Notes:

1. Capacity index: Total capacity (TC) = 30 MBh; sensible heat capacity (SHC) = 24 MBh.
2. Indoor air temperatures (F° DB/WB) in cooling mode: 68/57, 72/61, 77/64, 80/67, 86/72, 90/75.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft



Capacity Tables

Table 17. Capacity tables for 4MUD4530A10N0* and 4TUK4530A10N0*: heating

Outdoor Air Temp. (°F)	Indoor temperature (°F DB)				
	61 (16.1°C)	65 (16.1°C)	70 (21.1°C)	72 (22.2°C)	75 (23.8°C)
	TC	TC	TC	TC	TC
DB	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h
-4.0	19.8	19.6	19.2	19.0	18.8
-1.0	20.6	20.4	20.0	19.8	19.6
2	21.3	21.1	20.7	20.5	20.3
6	22.3	22.1	21.7	21.5	21.3
10	23.3	23.1	22.6	22.4	22.2
13	35.1	34.8	34.1	33.8	33.4
17	34.9	34.5	33.9	33.5	33.2
19	34.7	34.4	33.7	33.4	33.1
23	34.5	34.2	33.5	33.2	32.8
26	34.3	34.0	33.3	33.0	32.6
30	34.0	33.7	33.1	32.7	32.4
35	33.7	33.4	32.7	32.4	32.1
39	33.5	33.2	32.5	32.2	31.9
44	33.2	32.8	32.2	31.9	31.5
47	33.0	32.6	32.0	31.7	31.4
51	34.4	34.1	33.4	33.1	32.7
54	35.5	35.2	34.5	34.2	33.8
57	36.6	36.2	35.5	35.2	34.8
60	37.7	37.4	36.6	36.3	35.9
65	39.6	39.2	38.4	38.1	37.7
70	41.4	41.0	40.2	39.8	39.4
75	43.3	42.8	42.0	41.6	41.2

Notes:

1. Capacity index: Total capacity (TC) = 32 MBh
2. Rated heating capacity is at 47°F DB/ 43°F WB.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft



Table 18. Capacity table for 4MUD4536A10N0* and 4TUK4536A10N0* (68°F, 73°F, 79°F, and 80°F): cooling

Outdoor Air Temp. (°F DB)	Indoor Temperature (°F)							
	68 (20.0°C, DB)		73 (22.8°C, DB)		79 (26.1°C, DB)		80 (26.7°C, DB)	
	57 (13.9°C, WB)		61 (19.4°C, WB)		64 (17.8°C, WB)		67 (19.4°C, WB)	
	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)
0	36.1	28.8	37.0	29.6	38.0	30.4	38.7	31.0
10	36.0	28.8	37.0	29.6	38.0	30.4	38.7	30.9
20	36.0	28.8	36.9	29.5	37.9	30.3	38.6	30.9
30	35.9	28.7	36.9	29.5	37.9	30.3	38.6	30.9
40	35.9	28.7	36.9	29.5	37.8	30.3	38.5	30.8
50	35.9	28.7	36.8	29.4	37.8	30.2	38.5	30.8
54	35.8	28.7	36.8	29.4	37.8	30.2	38.5	30.8
58	35.8	28.7	36.8	29.4	37.8	30.2	38.5	30.8
60	35.8	28.7	36.8	29.4	37.8	30.2	38.4	30.8
64	35.8	28.6	36.8	29.4	37.7	30.2	38.4	30.7
67	35.8	28.6	36.7	29.4	37.7	30.2	38.4	30.7
70	35.8	28.6	36.7	29.4	37.7	30.2	38.4	30.7
73	35.5	28.4	36.5	29.2	37.4	29.9	38.1	30.5
77	35.1	28.1	36.1	28.9	37.0	29.6	37.7	30.2
80	34.9	27.9	35.8	28.6	36.8	29.4	37.4	30.0
84	34.5	27.6	35.4	28.4	36.4	29.1	37.1	29.6
88	34.2	27.3	35.1	28.1	36.0	28.8	36.7	29.3
92	33.8	27.0	34.7	27.8	35.6	28.5	36.3	29.0
95	33.5	26.8	34.4	27.5	35.4	28.3	36.0	28.8
99	31.4	25.1	32.2	25.8	33.1	26.5	33.7	26.9
103	29.2	23.4	30.0	24.0	30.8	24.6	31.4	25.1
107	27.1	21.6	27.8	22.2	28.5	22.8	29.0	23.2
111	24.9	19.9	25.6	20.4	26.2	21.0	26.7	21.4
115	22.7	18.2	23.3	18.7	24.0	19.2	24.4	19.5

Notes:

1. Capacity index: Total capacity (TC) = 36 MBh; sensible heat capacity (SHC) = 28.8 MBh
2. Indoor air temperatures (F° DB/WB) in cooling mode: 68/57, 72/61, 77/64, 80/67, 86/72, 90/75.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft



Capacity Tables

Table 19. Capacity table for 4MUD4536A10N0* and 4TUK4536A10N0* (85°F, 87°F, and 89°F): cooling

Outdoor Air Temp. (°F DB)	Indoor Temperature (°F)					
	85 (29.4°C, DB)		87 (30.6°C, DB)		89 (31.7°C, DB)	
	70 (21.1°C, WB)		72 (22.2°C, WB)		75 (23.9°C, WB)	
	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)
0	39.7	31.7	40.3	32.2	40.6	32.5
10	39.6	31.7	40.2	32.2	40.5	32.4
20	39.6	31.7	40.2	32.1	40.5	32.4
30	39.5	31.6	40.1	32.1	40.4	32.4
40	39.5	31.6	40.1	32.1	40.4	32.3
50	39.4	31.6	40.0	32.0	40.4	32.3
54	39.4	31.5	40.0	32.0	40.3	32.3
58	39.4	31.5	40.0	32.0	40.3	32.3
60	39.4	31.5	40.0	32.0	40.3	32.3
64	39.4	31.5	40.0	32.0	40.3	32.2
67	39.4	31.5	40.0	32.0	40.3	32.2
70	39.4	31.5	40.0	32.0	40.3	32.2
73	39.1	31.3	39.7	31.7	40.0	32.0
77	38.7	30.9	39.3	31.4	39.6	31.7
80	38.4	30.7	39.0	31.2	39.3	31.4
84	38.0	30.4	38.6	30.8	38.9	31.1
88	37.6	30.1	38.2	30.5	38.5	30.8
92	37.2	29.8	37.8	30.2	38.1	30.4
95	36.9	29.5	37.5	30.0	37.8	30.2
99	34.5	27.6	35.0	28.0	35.3	28.3
103	32.1	25.7	32.6	26.1	32.9	26.3
107	29.8	23.8	30.2	24.2	30.5	24.4
111	27.4	21.9	27.8	22.2	28.0	22.4
115	25.0	20.0	25.4	20.3	25.6	20.5

Notes:

1. Capacity index: Total capacity (TC) = 36 MBh; sensible heat capacity (SHC) = 28.8 MBh
2. Indoor air temperatures (F° DB/WB) in cooling mode: 68/57, 72/61, 77/64, 80/67, 86/72, 90/75.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft

Table 20. Capacity tables for 4MUD4536A10N0* and 4TUK4536A10N0*: heating

Outdoor Air Temp. (°F)	Indoor temperature (°F DB)				
	61 (16.1°C)	65 (16.1°C)	70 (21.1°C)	72 (22.2°C)	75 (23.8°C)
	TC	TC	TC	TC	TC
DB	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h
-4.0	30.5	30.2	29.6	29.3	29.0
-1.0	31.8	31.5	30.9	30.6	30.2
2	33.1	32.7	32.1	31.8	31.5
6	34.8	34.4	33.8	33.4	33.1
10	36.4	36.1	35.4	35.0	34.7
13	37.9	37.5	36.8	36.4	36.1
17	38.3	37.9	37.2	36.8	36.4
19	38.5	38.1	37.4	37.0	36.6
23	38.9	38.5	37.7	37.4	37.0
26	39.2	38.8	38.0	37.6	37.3
30	39.6	39.2	38.4	38.0	37.6
35	40.0	39.6	38.9	38.5	38.1
39	40.4	40.0	39.2	38.8	38.5
44	40.9	40.5	39.7	39.3	38.9
47	41.2	40.8	40.0	39.6	39.2
51	42.3	41.9	41.1	40.7	40.3
54	43.2	42.8	42.0	41.5	41.1
57	44.0	43.6	42.8	42.3	41.9
60	44.9	44.5	43.6	43.2	42.7
65	46.4	45.9	45.0	44.6	44.1
70	47.8	47.3	46.4	45.9	45.5
75	49.2	48.8	47.8	47.3	46.8

Notes:

1. Capacity index: Total capacity (TC) = 40 MBh
2. Rated heating capacity is at 47°F DB/ 43°F WB.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft



Capacity Tables

Table 21. Capacity table for 4MUD4542A10N0* and 4TUK4542A10N0* (68°F, 73°F, 79°F, and 80°F): cooling

Outdoor Air Temp. (°F DB)	Indoor Temperature (°F)							
	68 (20.0°C, DB)		73 (22.8°C, DB)		79 (26.1°C, DB)		80 (26.7°C, DB)	
	57 (13.9°C, WB)		61 (19.4°C, WB)		64 (17.8°C, WB)		67 (19.4°C, WB)	
	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)
0	42.0	33.6	43.1	34.5	44.3	35.4	45.1	36.1
10	41.9	33.5	43.0	34.4	44.1	35.3	44.9	36.0
20	41.7	33.4	42.8	34.3	44.0	35.2	44.8	35.8
30	41.6	33.3	42.7	34.1	43.8	35.1	44.6	35.7
40	41.4	33.1	42.5	34.0	43.7	34.9	44.5	35.6
50	41.3	33.0	42.4	33.9	43.5	34.8	44.3	35.5
54	41.2	33.0	42.3	33.9	43.5	34.8	44.3	35.4
58	41.2	32.9	42.3	33.8	43.4	34.7	44.2	35.4
60	41.1	32.9	42.2	33.8	43.4	34.7	44.2	35.3
64	41.1	32.9	42.2	33.7	43.3	34.6	44.1	35.3
67	41.0	32.8	42.1	33.7	43.3	34.6	44.0	35.2
70	41.0	32.8	42.1	33.7	43.2	34.6	44.0	35.2
73	40.8	32.6	41.9	33.5	43.0	34.4	43.8	35.0
77	40.5	32.4	41.5	33.2	42.7	34.1	43.4	34.8
80	40.2	32.2	41.3	33.1	42.4	33.9	43.2	34.6
84	39.9	32.0	41.0	32.8	42.1	33.7	42.9	34.3
88	39.6	31.7	40.7	32.6	41.8	33.4	42.6	34.0
92	39.4	31.5	40.4	32.3	41.5	33.2	42.2	33.8
95	39.1	31.3	40.2	32.1	41.2	33.0	42.0	33.6
99	37.0	29.6	38.0	30.4	39.0	31.2	39.7	31.8
103	34.8	27.9	35.8	28.6	36.7	29.4	37.4	29.9
107	32.7	26.2	33.6	26.9	34.5	27.6	35.1	28.1
111	30.6	24.4	31.4	25.1	32.2	25.8	32.8	26.2
115	28.4	22.7	29.2	23.3	30.0	24.0	30.5	24.4

Notes:

1. Capacity index: Total capacity (TC) = 42 MBh; sensible heat capacity (SHC) = 33.6 MBh
2. Indoor air temperatures (F° DB/WB) in cooling mode: 68/57, 72/61, 77/64, 80/67, 86/72, 90/75.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft

Table 22. Capacity table for 4MUD4542A10N0* and 4TUK4542A10N0* (85°F, 87°F, and 89°F): cooling

Outdoor Air Temp. (°F DB)	Indoor Temperature (°F)					
	85 (29.4°C, DB)		87 (30.6°C, DB)		89 (31.7°C, DB)	
	70 (21.1°C, WB)		72 (22.2°C, WB)		75 (23.9°C, WB)	
	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)
0	46.2	37.0	46.9	37.5	47.3	37.8
10	46.1	36.9	46.8	37.4	47.1	37.7
20	45.9	36.7	46.6	37.3	47.0	37.6
30	45.7	36.6	46.4	37.1	46.8	37.4
40	45.6	36.5	46.3	37.0	46.6	37.3
50	45.4	36.3	46.1	36.9	46.5	37.2
54	45.4	36.3	46.0	36.8	46.4	37.1
58	45.3	36.2	46.0	36.8	46.3	37.1
60	45.3	36.2	45.9	36.8	46.3	37.0
64	45.2	36.2	45.9	36.7	46.2	37.0
67	45.1	36.1	45.8	36.7	46.2	37.0
70	45.1	36.1	45.8	36.6	46.1	36.9
73	44.9	35.9	45.5	36.4	45.9	36.7
77	44.5	35.6	45.2	36.2	45.6	36.4
80	44.3	35.4	44.9	36.0	45.3	36.2
84	44.0	35.2	44.6	35.7	45.0	36.0
88	43.6	34.9	44.3	35.4	44.6	35.7
92	43.3	34.6	43.9	35.2	44.3	35.4
95	43.1	34.4	43.7	35.0	44.0	35.2
99	40.7	32.6	41.3	33.0	41.6	33.3
103	38.3	30.7	38.9	31.1	39.2	31.4
107	36.0	28.8	36.5	29.2	36.8	29.4
111	33.6	26.9	34.1	27.3	34.4	27.5
115	31.3	25.0	31.7	25.4	32.0	25.6

Notes:

1. Capacity index: Total capacity (TC) = 42 MBh; sensible heat capacity (SHC) = 33.6 MBh
2. Indoor air temperatures (F° DB/WB) in cooling mode: 68/57, 72/61, 77/64, 80/67, 86/72, 90/75.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft



Capacity Tables

Table 23. Capacity tables for 4MUD4542A10N0* and 4TUK4542A10N0*: heating

Outdoor Air Temp. (°F)	Indoor temperature (°F DB)				
	61 (16.1°C)	65 (16.1°C)	70 (21.1°C)	72 (22.2°C)	75 (23.8°C)
	TC	TC	TC	TC	TC
DB	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h
-4.0	26.9	26.6	26.1	25.8	25.6
-1.0	29.4	29.1	28.5	28.2	27.9
2	31.8	31.5	30.9	30.6	30.2
6	35.1	34.7	34.0	33.7	33.4
10	38.2	37.8	37.1	36.7	36.3
13	41.0	40.6	39.8	39.4	39.0
17	41.9	41.5	40.6	40.2	39.8
19	42.3	41.9	41.1	40.7	40.2
23	43.2	42.7	41.9	41.5	41.1
26	43.8	43.4	42.6	42.1	41.7
30	44.7	44.3	43.4	43.0	42.5
35	45.8	45.3	44.4	44.0	43.5
39	46.6	46.2	45.3	44.8	44.4
44	47.7	47.3	46.3	45.9	45.4
47	48.4	47.9	47.0	46.5	46.1
51	49.1	48.6	47.7	47.2	46.7
54	49.6	49.2	48.2	47.7	47.2
57	50.2	49.7	48.7	48.2	47.7
60	50.7	50.2	49.2	48.7	48.2
65	51.6	51.1	50.1	49.6	49.1
70	52.5	52.0	50.9	50.4	49.9
75	53.4	52.8	51.8	51.3	50.8

Notes:

1. Capacity index: Total capacity (TC) = 47 MBh
2. Rated heating capacity is at 47°F DB/ 43°F WB.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft



Table 24. Capacity table for 4MUD4548A10N0* and 4TUK4548A10N0* (68°F, 73°F, 79°F, and 80°F): cooling

Outdoor Air Temp. (°F DB)	Indoor Temperature (°F)							
	68 (20.0°C, DB)		73 (22.8°C, DB)		79 (26.1°C, DB)		80 (26.7°C, DB)	
	57 (13.9°C, WB)		61 (19.4°C, WB)		64 (17.8°C, WB)		67 (19.4°C, WB)	
	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)
0	50.1	40.1	51.5	41.2	52.8	42.3	53.8	43.0
10	50.0	40.0	51.3	41.1	52.7	42.2	53.7	42.9
20	49.9	39.9	51.2	40.9	52.6	42.0	53.5	42.8
30	49.7	39.8	51.0	40.8	52.4	41.9	53.4	42.7
40	49.6	39.7	50.9	40.7	52.3	41.8	53.2	42.6
50	49.5	39.6	50.8	40.6	52.1	41.7	53.1	42.5
54	49.4	39.5	50.7	40.6	52.1	41.7	53.0	42.4
58	49.3	39.5	50.7	40.5	52.0	41.6	53.0	42.4
60	49.3	39.5	50.6	40.5	52.0	41.6	52.9	42.4
64	49.3	39.4	50.6	40.5	51.9	41.5	52.9	42.3
67	49.2	39.4	50.5	40.4	51.9	41.5	52.8	42.3
70	49.2	39.4	50.5	40.4	51.8	41.5	52.8	42.2
73	48.7	38.9	50.0	40.0	51.3	41.0	52.2	41.8
77	47.9	38.3	49.2	39.4	50.5	40.4	51.5	41.2
80	47.4	37.9	48.7	38.9	50.0	40.0	50.9	40.7
84	46.7	37.3	47.9	38.3	49.2	39.4	50.1	40.1
88	46.0	36.8	47.2	37.8	48.5	38.8	49.3	39.5
92	45.3	36.2	46.5	37.2	47.7	38.2	48.6	38.9
95	44.7	35.8	45.9	36.7	47.1	37.7	48.0	38.4
99	41.6	33.3	42.7	34.2	43.8	35.1	44.6	35.7
103	38.5	30.8	39.5	31.6	40.5	32.4	41.3	33.0
107	35.3	28.3	36.3	29.0	37.2	29.8	37.9	30.3
111	32.2	25.8	33.1	26.4	33.9	27.2	34.6	27.6
115	29.1	23.3	29.8	23.9	30.6	24.5	31.2	25.0

Notes:

1. Capacity index: Total capacity (TC) = 48 MBh; sensible heat capacity (SHC) = 38.4 MBh
2. Indoor air temperatures (F° DB/WB) in cooling mode: 68/57, 72/61, 77/64, 80/67, 86/72, 90/75.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft



Capacity Tables

Table 25. Capacity table for 4MUD4548A10N0* and 4TUK4548A10N0* (85°F, 87°F, and 89°F): cooling

Outdoor Air Temp. (°F DB)	Indoor Temperature (°F)					
	85 (29.4°C, DB)		87 (30.6°C, DB)		89 (31.7°C, DB)	
	70 (21.1°C, WB)		72 (22.2°C, WB)		75 (23.9°C, WB)	
	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)	TC (Btu/h)	SHC (Btu/h)
0	55.1	44.1	56.0	44.8	56.4	45.1
10	55.0	44.0	55.8	44.7	56.3	45.0
20	54.9	43.9	55.7	44.5	56.1	44.9
30	54.7	43.8	55.5	44.4	56.0	44.8
40	54.6	43.6	55.4	44.3	55.8	44.7
50	54.4	43.5	55.2	44.2	55.7	44.5
54	54.4	43.5	55.2	44.1	55.6	44.5
58	54.3	43.4	55.1	44.1	55.6	44.4
60	54.3	43.4	55.1	44.1	55.5	44.4
64	54.2	43.4	55.0	44.0	55.5	44.4
67	54.2	43.3	55.0	44.0	55.4	44.3
70	54.1	43.3	54.9	43.9	55.4	44.3
73	53.5	42.8	54.3	43.5	54.8	43.8
77	52.7	42.2	53.5	42.8	54.0	43.2
80	52.2	41.7	52.9	42.3	53.4	42.7
84	51.4	41.1	52.1	41.7	52.6	42.0
88	50.6	40.5	51.3	41.1	51.7	41.4
92	49.8	39.8	50.5	40.4	50.9	40.8
95	49.2	39.4	49.9	40.0	50.3	40.3
99	45.8	36.6	46.4	37.2	46.8	37.5
103	42.3	33.8	42.9	34.4	43.3	34.6
107	38.9	31.1	39.5	31.6	39.8	31.8
111	35.4	28.3	36.0	28.8	36.2	29.0
115	32.0	25.6	32.5	26.0	32.7	26.2

Notes:

1. Capacity index: Total capacity (TC) = 48 MBh; sensible heat capacity (SHC) = 38.4 MBh
2. Indoor air temperatures (F° DB/WB) in cooling mode: 68/57, 72/61, 77/64, 80/67, 86/72, 90/75.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft

Table 26. Capacity table for 4MUD4548A10N0* and 4TUK4548A10N0*: heating

Outdoor Air Temp. (°F)	Indoor temperature (°F DB)				
	61 (16.1°C)	65 (16.1°C)	70 (21.1°C)	72 (22.2°C)	75 (23.8°C)
	TC	TC	TC	TC	TC
DB	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h
-4.0	29.0	28.8	28.2	27.9	27.6
-1.0	31.6	31.3	30.7	30.4	30.1
2	34.1	33.8	33.1	32.8	32.4
6	37.5	37.1	36.4	36.0	35.6
10	40.7	40.3	39.5	39.1	38.7
13	43.6	43.1	42.3	41.9	41.5
17	44.9	44.4	43.6	43.1	42.7
19	45.5	45.1	44.2	43.7	43.3
23	46.8	46.3	45.4	45.0	44.5
26	47.8	47.3	46.4	45.9	45.5
30	49.1	48.6	47.7	47.2	46.7
35	50.7	50.2	49.2	48.7	48.2
39	52.0	51.4	50.4	49.9	49.4
44	53.6	53.1	52.0	51.5	51.0
47	54.6	54.1	53.0	52.5	51.9
51	55.8	55.2	54.1	53.6	53.1
54	56.7	56.1	55.0	54.5	53.9
57	57.5	56.9	55.8	55.3	54.7
60	58.4	57.8	56.7	56.1	55.6
65	59.9	59.3	58.1	57.6	57.0
70	61.4	60.8	59.6	59.0	58.4
75	62.8	62.2	61.0	60.4	59.8

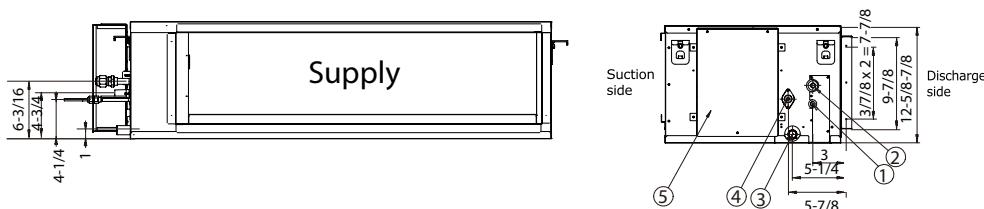
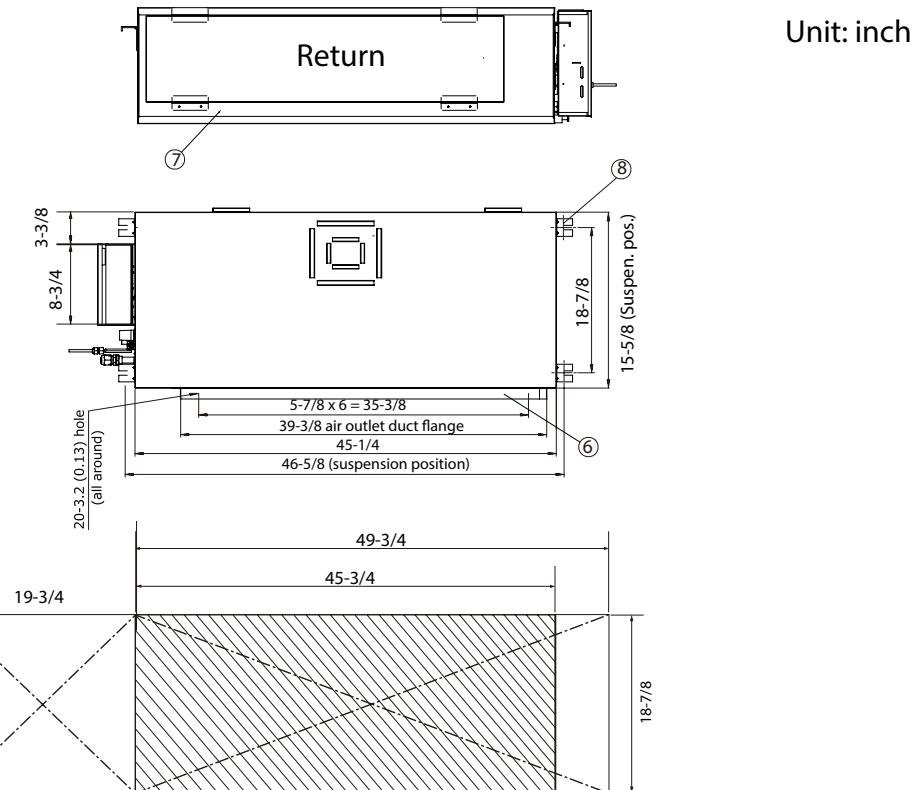
Notes:

1. Capacity index: Total capacity (TC) = 53 MBh
2. Rated heating capacity is at 47°F DB/ 43°F WB.
3. Refrigerant piping length: 16.4 ft
4. Level difference : 0 ft

Unit Dimensions

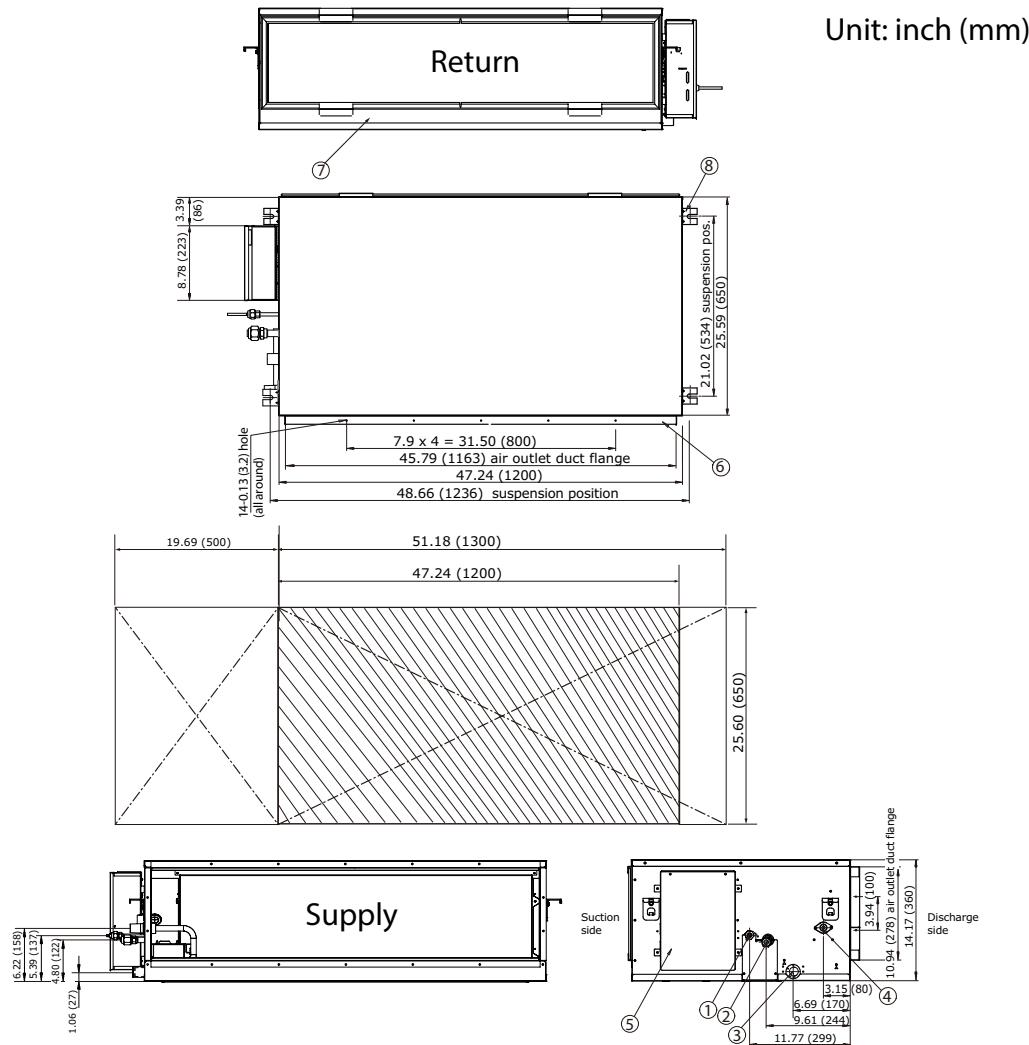
Indoor Unit Dimensions

Figure 1. Indoor unit dimensions: 4MUD4518A10N0* and 4MUD4524A10N0*



No.	Name	Description
1	Liquid pipe connection	1/4
2	Gas pipe connection	18 MBH: 1/2; 24 MBH: 5/8
3	Drain pipe connection (without optional drain pump)	OD 1, ID 3/4
4	Drain pipe connection (with optional drain pump)	OD 1, ID 3/4
5	Power supply/communications connection	—
6	Air discharge grill flange	—
7	Air filter	—
8	Mounting hooks	M8-M10

Figure 2. Indoor unit dimensions: 4MUD4530A10N0*, 4MUD4536A10N0*, 4MUD4542A10N0* and 4MUD4548A10N0*



No.	Name	Description
1	Liquid pipe connection	3/8
2	Gas pipe connection	5/8
3	Drain pipe connection (without optional drain pump)	OD 1, ID 3/4
4	Drain pipe connection (with optional drain pump)	OD 1, ID 3/4
5	Power supply/communications connection	—
6	Air discharge grill flange	—
7	Air filter	—
8	Mounting hooks	M8–M10



Unit Dimensions

Outdoor Unit Dimensions

Figure 3. Dimensional drawing for 18 MBH capacity units

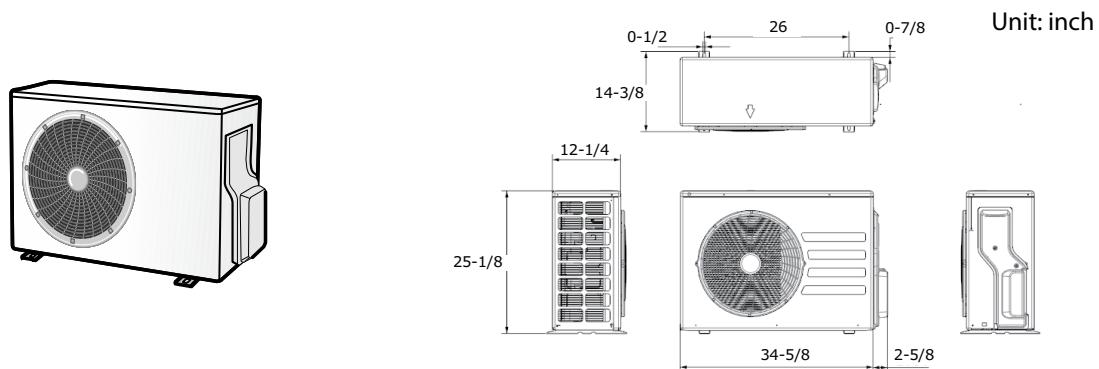


Figure 4. Dimensional drawing for 24 and 30 MBH capacity units

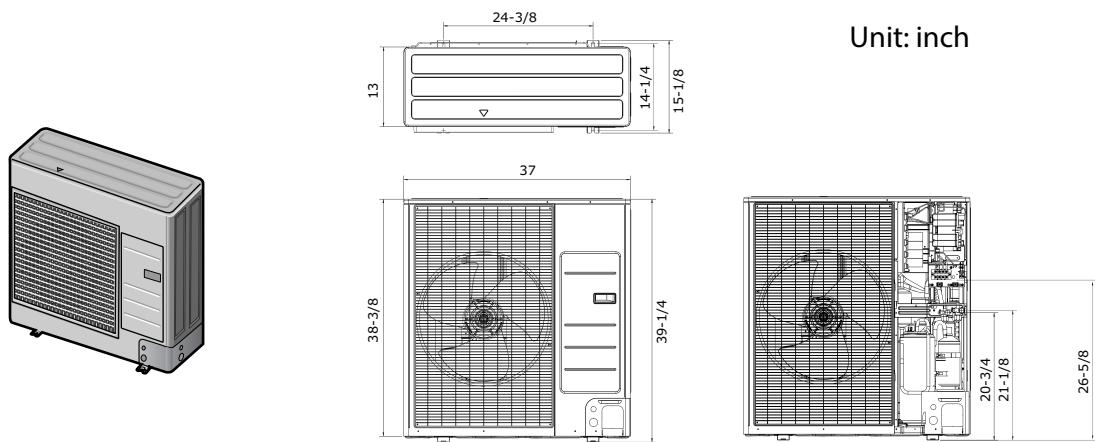
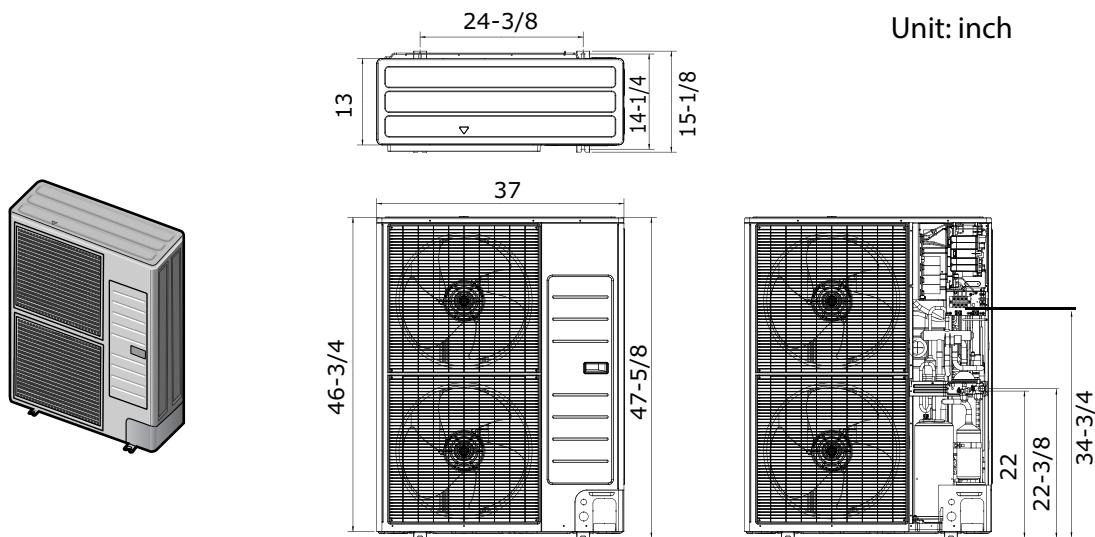


Figure 5. Dimensional drawing for 36, 42, and 48 MBH capacity units





Wiring Diagrams

Indoor Unit

Figure 6. Indoor unit electrical wiring: 4MUD4518A10N0* and 4MUD4524A10N0*

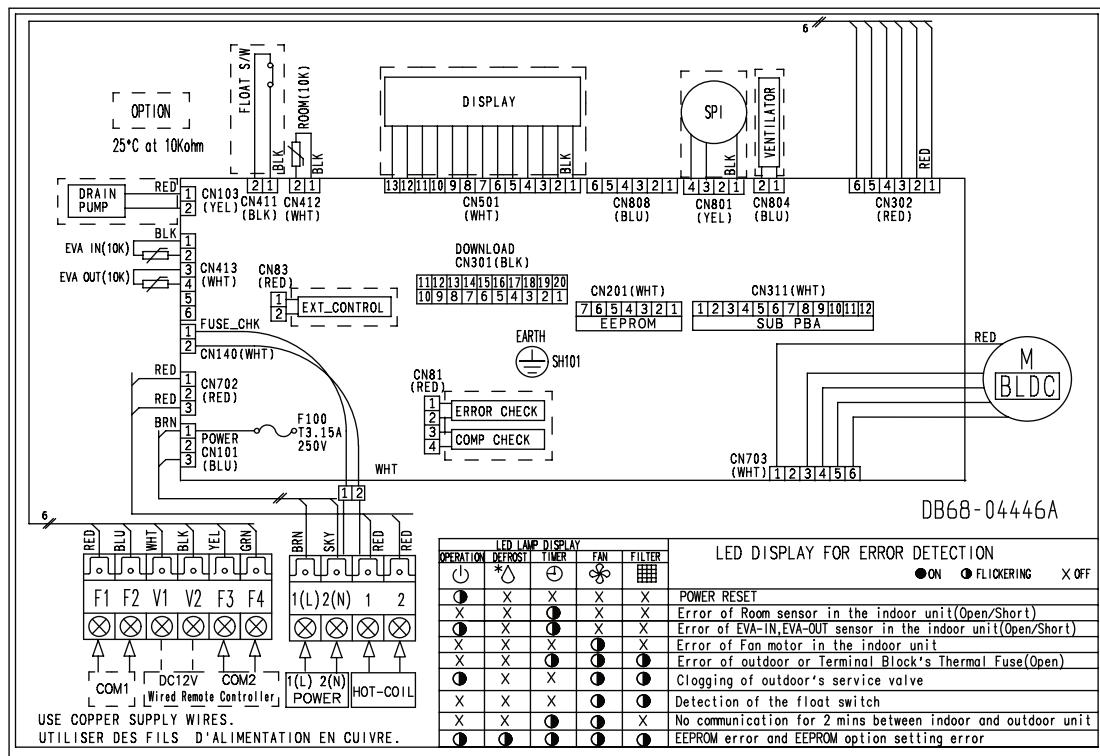
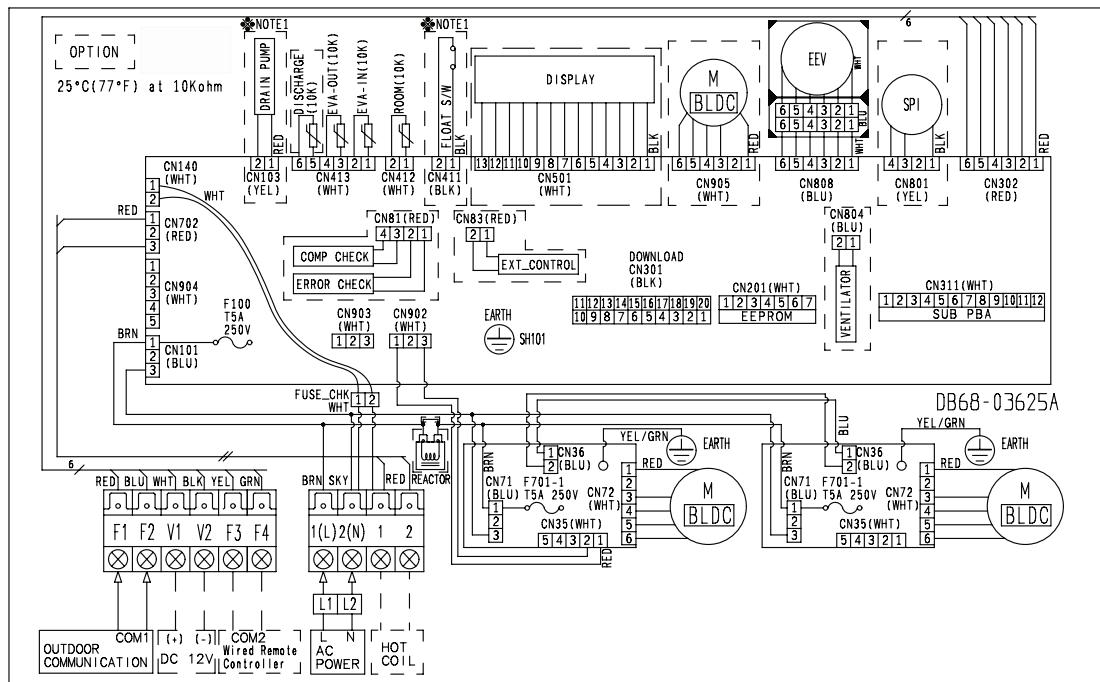


Figure 7. Indoor unit electrical wiring: 4MUD4530A10N0*, 4MUD4536A10N0*, 4MUD4542A10N0* and 4MUD4548A10N0*





Outdoor Unit

Figure 8. Outdoor unit electrical wiring: 4TUK4518A10N0*

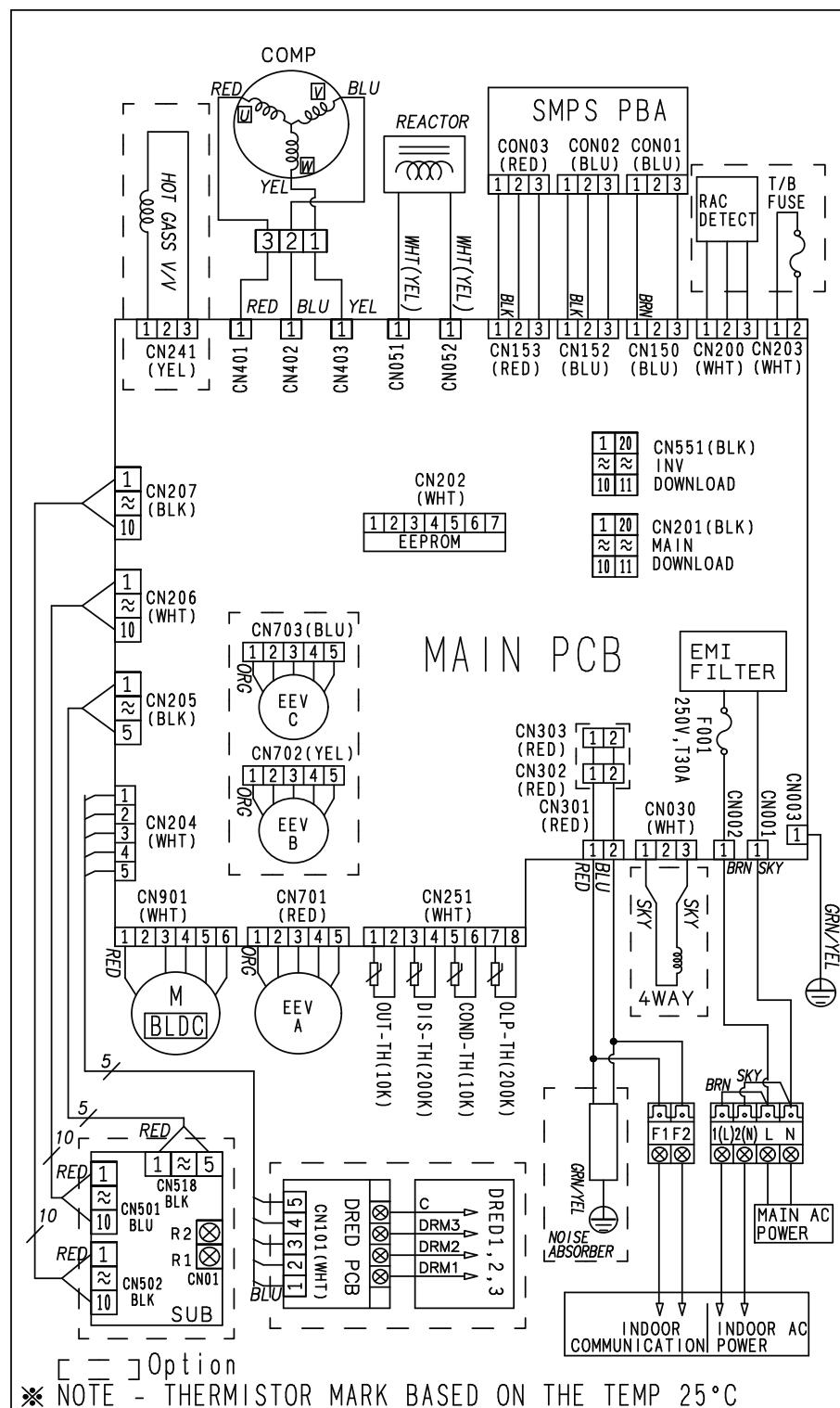
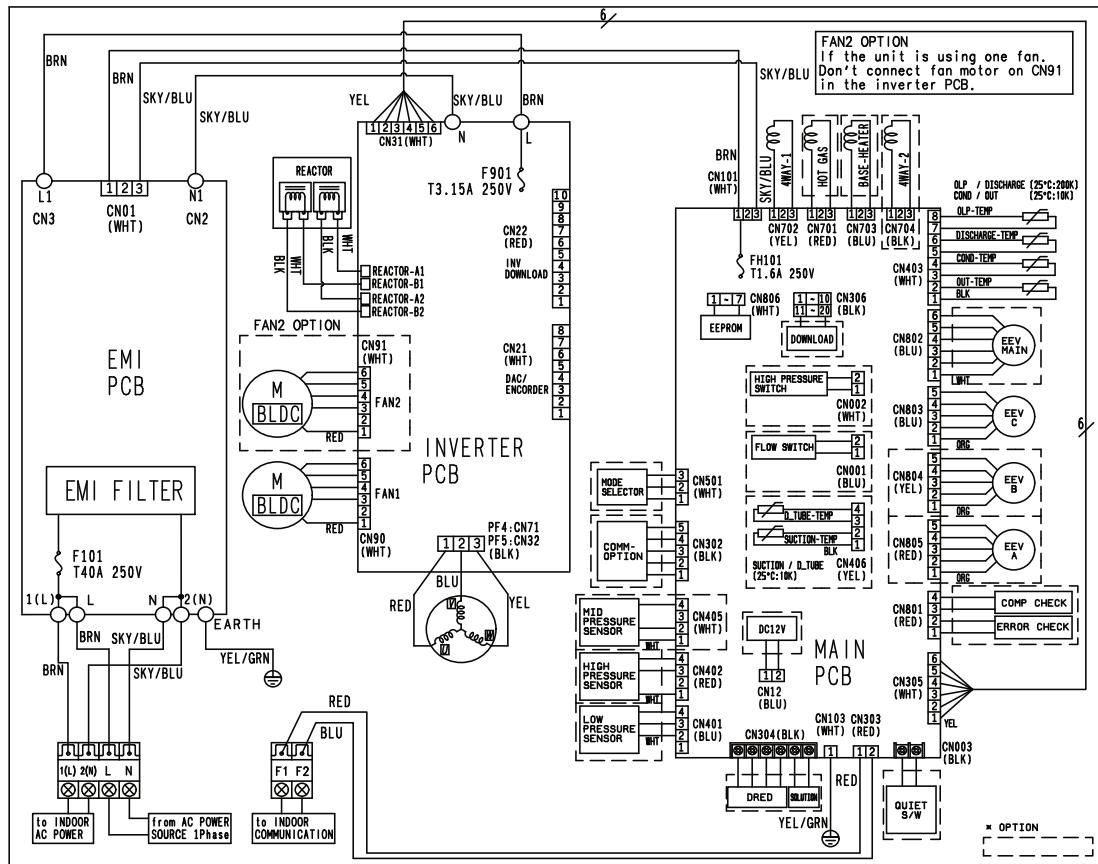
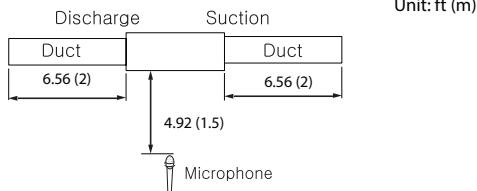


Figure 9. Outdoor unit electrical wiring: 4TUK4524A10N0*, 4TUK4530A10N0*, 4TUK4536A10N0*, 4TUK4542A10N0*, and 4TUK4548A10N0*



Sound Levels

Indoor Unit

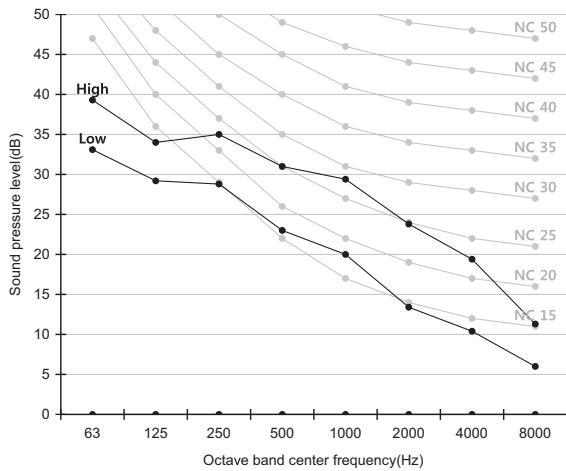


Model		High	Low
Indoor	Outdoor	dBA	
4MUD4518A10N0*	4TUK4518A10N0*	34.0	26.0
4MUD4524A10N0*	4TUK4524A10N0*	36.0	28.0
4MUD4530A10N0*	4TUK4530A10N0*	37.0	29.0
4MUD4536A10N0*	4TUK4536A10N0*	37.0	30.0
4MUD4542A10N0*	4TUK4542A10N0*	40.0	34.0
4MUD4548A10N0*	4TUK4548A10N0*	43.0	37.0

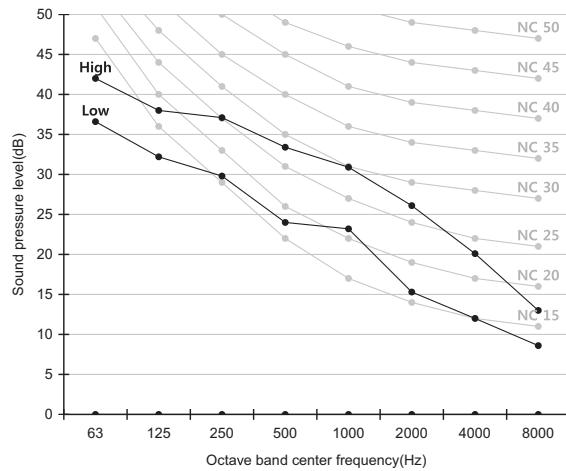
Notes:

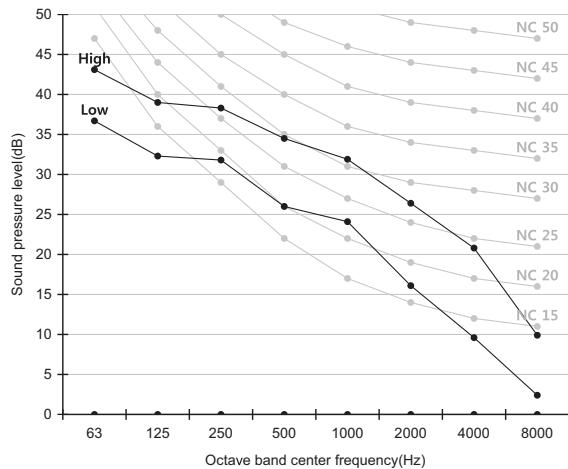
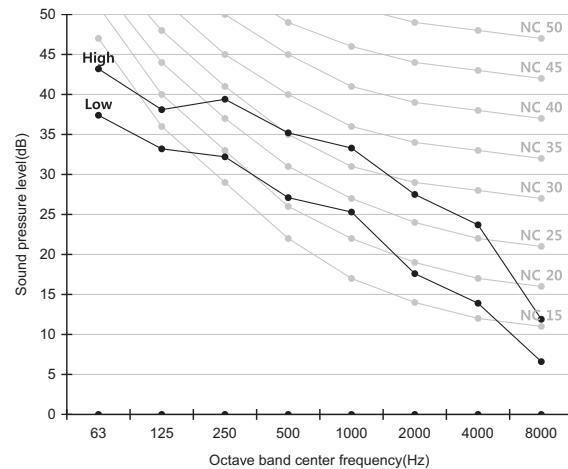
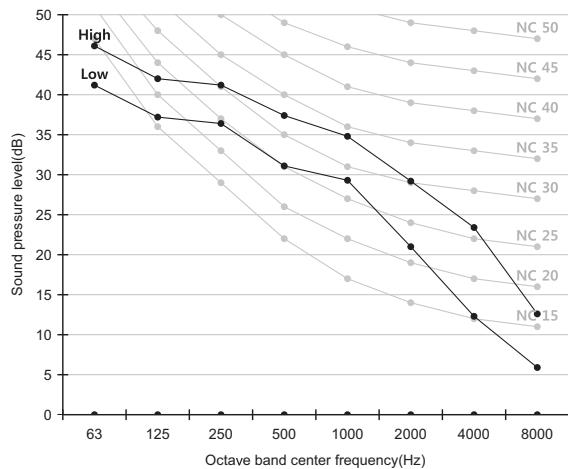
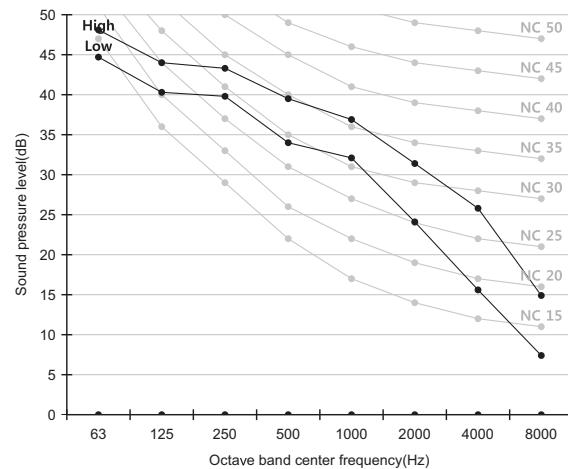
- These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.
- Operation sound level may differ depending on operation and ambient conditions.

4MUD4518A10N0* (ODU: 4TUK4518A10N0*)



4MUD4524A10N0* (ODU: 4TUK4524A10N0*)

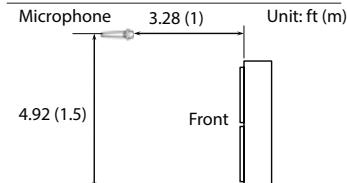


4MUD4530A10N0* (ODU: 4TUK4530A10N0*)

4MUD4536A10N0* (ODU: 4TUK4536A10N0*)

4MUD4542A10N0* (ODU: 4TUK4542A10N0*)

4MUD4548A10N0* (ODU: 4TUK4548A10N0*)




Sound Levels

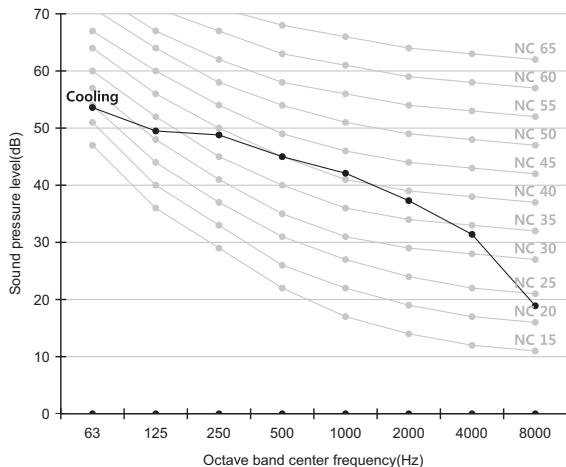
Outdoor Unit



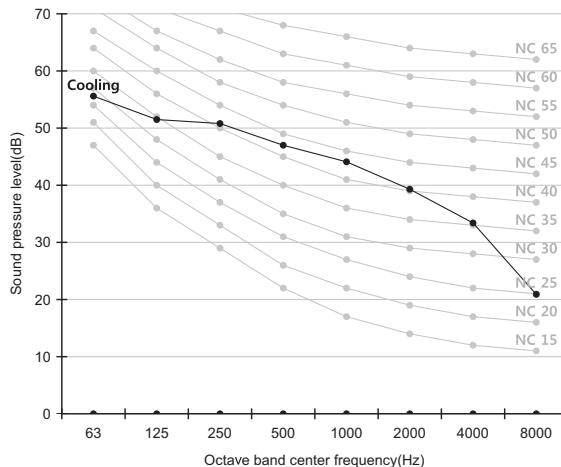
Model		Cooling	Heating
Indoor	Outdoor	dBA	
4MUD4518A10N0*	4TUK4518A10N0*	48.0	48.0
4MUD4524A10N0*	4TUK4524A10N0*	50.0	50.0
4MUD4530A10N0*	4TUK4530A10N0*	50.0	52.0
4MUD4536A10N0*	4TUK4536A10N0*	49.0	51.0
4MUD4542A10N0*	4TUK4542A10N0*	51.0	53.0
4MUD4548A10N0*	4TUK4548A10N0*	53.0	55.0

NC Curve

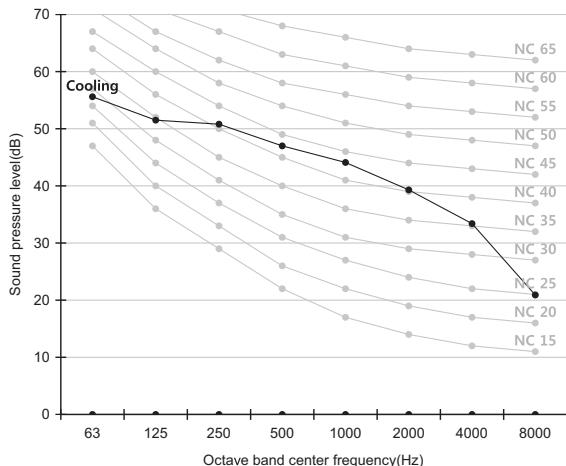
4TUK4518A10N0* (IDU: 4MUD4518A10N0*)



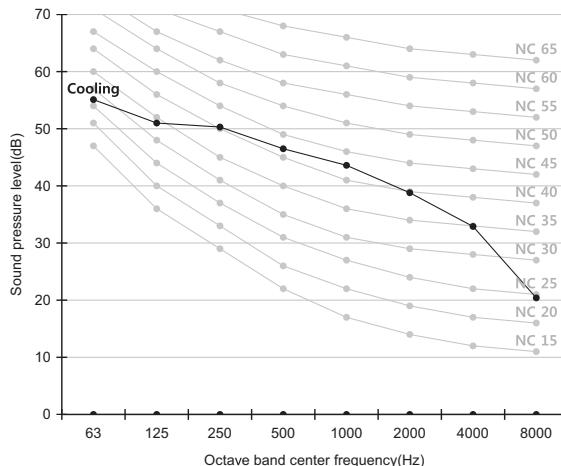
4TUK4524A10N0* (IDU: 4MUD4524A10N0*)

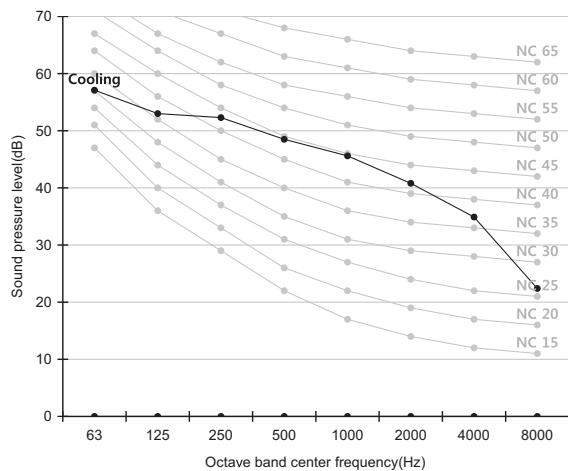
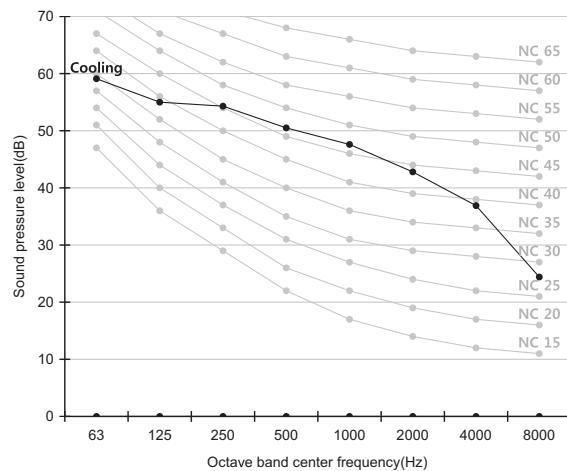


4TUK4530A10N0* (IDU: 4MUD4530A10N0*)



4TUK4536A10N0* (IDU: 4MUD4536A10N0*)



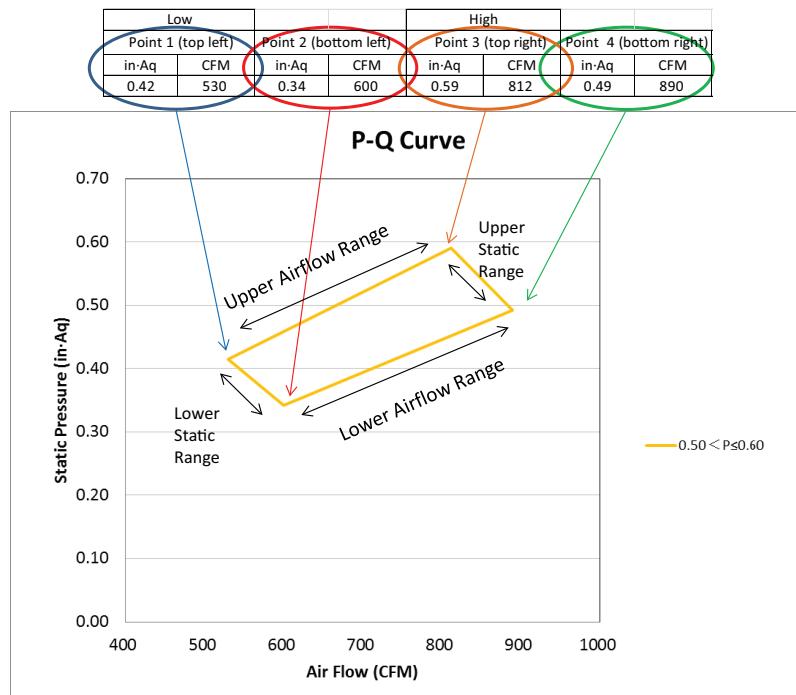
4TUK4542A10N0* (IDU: 4MUD4542A10N0*)

4TUK4548A10N0* (IDU: 4MUD4548A10N0*)


Airflow Diagrams

How to Interpret P-Q Tables and Graphs

The following figure shows an example of how to interpret the P-Q curve tables and graphs. Each box represents a static pressure range setpoint and shows its specific fan curve. Point 3 represents the highest available static pressure for each specific setting. When the fan is set to Auto, the fan tracks from right to left within the box.

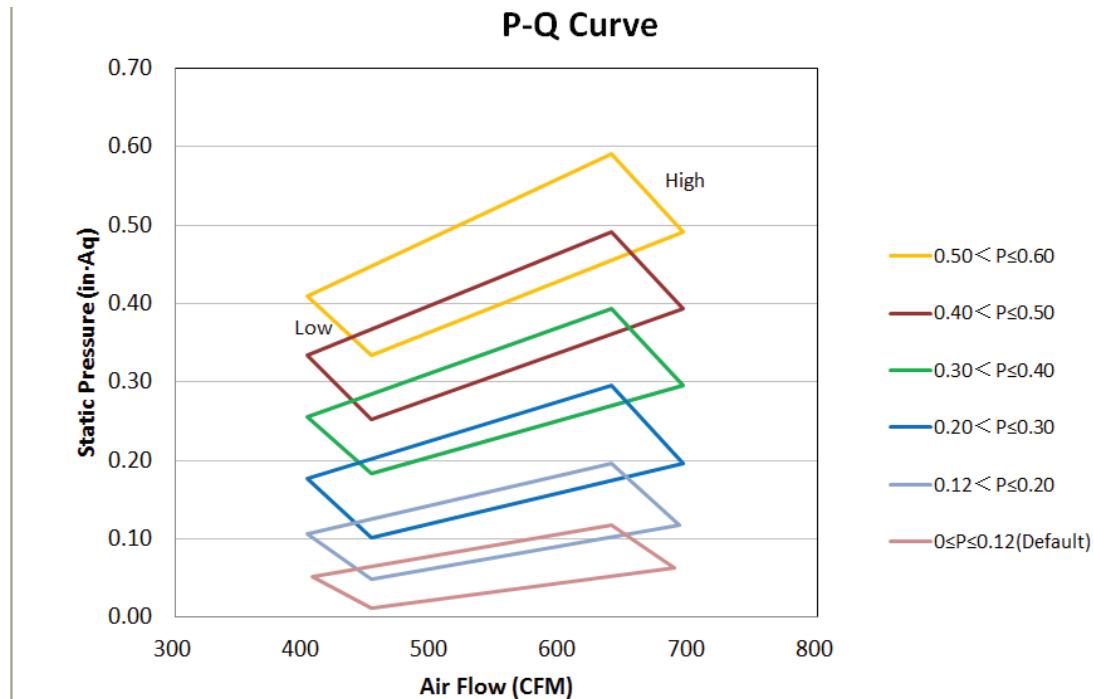
Figure 10. P-Q Curve Example



4MUD4518A10N0*

P-Q data	Low				High			
External Static pressure(in·Aq)	Point 1 (top, left)		Point 2 (bottom, left)		Point 3 (top, right)		Point 4 (bottom, right)	
	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0≤P≤0.12(Default)	0.05	406	0.01	452	0.12	639	0.06	689
0.12<P≤0.20	0.11	403	0.05	452	0.20	639	0.12	692
0.20<P≤0.30	0.18	403	0.10	452	0.30	639	0.20	696
0.30<P≤0.40	0.26	403	0.18	452	0.39	639	0.30	696
0.40<P≤0.50	0.33	403	0.25	452	0.49	639	0.39	696
0.50<P≤0.60	0.41	403	0.33	452	0.59	639	0.49	696

Figure 11. 4MUD4518A10N0* P-Q Curve Example



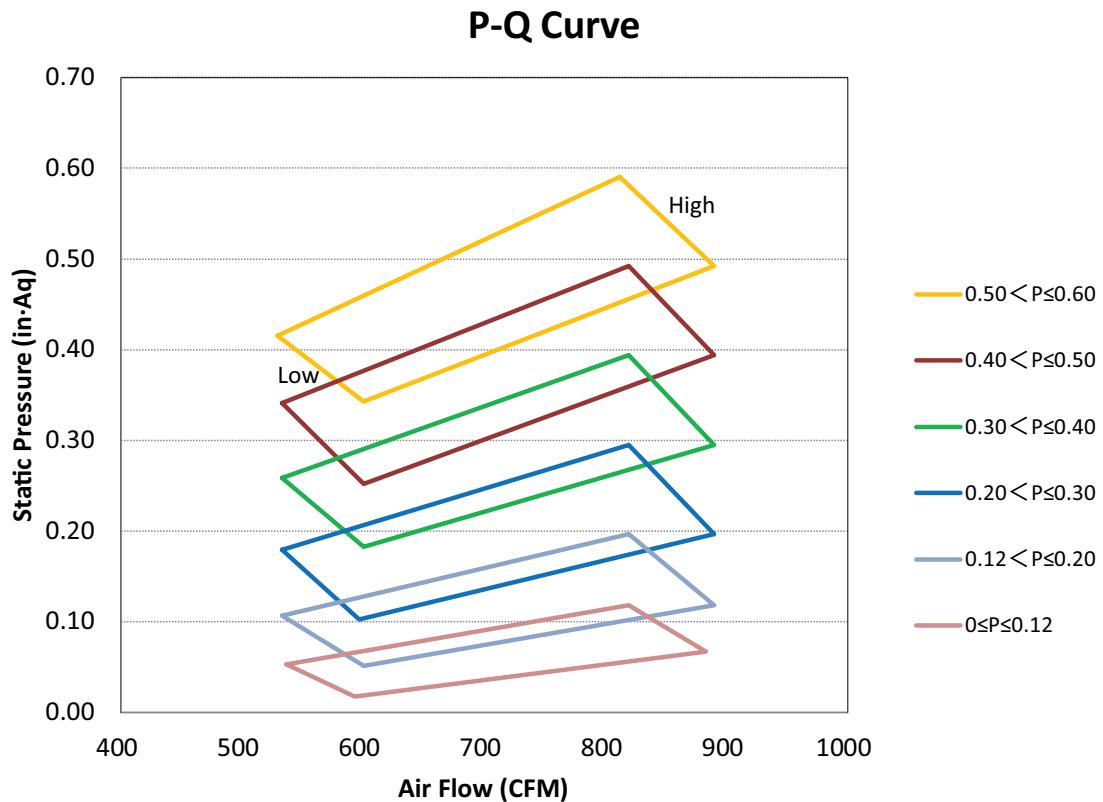


Airflow Diagrams

4MUD4524A10N0*

P-Q data in·Aq	Low				High			
	Point 1 (top, left)		Point 2 (bottom, left)		Point 3 (top, right)		Point 4 (bottom, right)	
	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0≤P≤0.12	0.05	537	0.02	593	0.12	819	0.07	883
0.12<P≤0.20	0.11	533	0.05	600	0.20	819	0.12	890
0.20<P≤0.30	0.18	533	0.10	597	0.30	819	0.20	890
0.30<P≤0.40	0.26	533	0.18	600	0.39	819	0.30	890
0.40<P≤0.50	0.34	533	0.25	600	0.49	819	0.39	890
0.50<P≤0.60	0.42	530	0.34	600	0.59	812	0.49	890

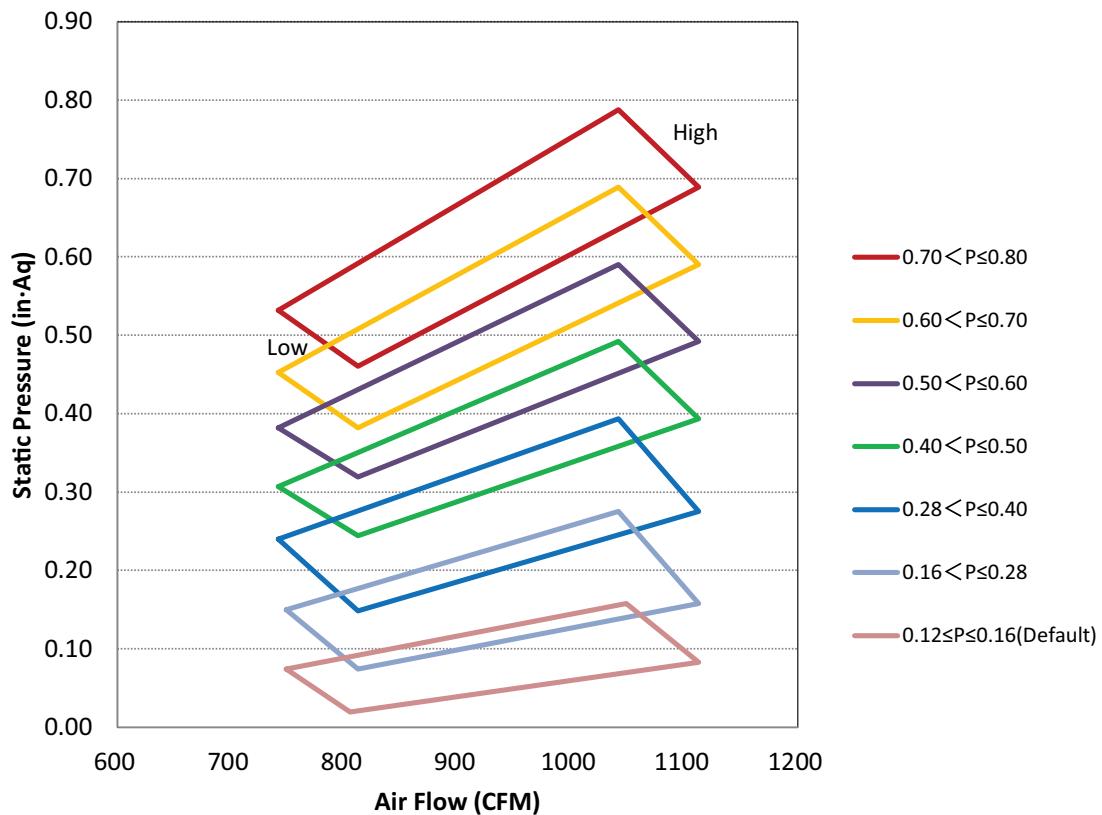
Figure 12. 4MUD4524A10N0* P-Q Curve Example



4MUD4530A10N0*

P-Q data	Low				High			
	Point 1 (top, left)		Point 2 (bottom, left)		Point 3 (top, right)		Point 4 (bottom, right)	
	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0.12≤P≤0.16 (Default)	0.07	749	0.02	805	0.16	1049	0.08	1112
0.16<P≤0.28	0.15	749	0.07	812	0.28	1042	0.16	1112
0.28<P≤0.40	0.24	742	0.15	812	0.39	1042	0.28	1112
0.40<P≤0.50	0.31	742	0.24	812	0.49	1042	0.39	1112
0.50<P≤0.60	0.38	742	0.32	812	0.59	1042	0.49	1112
0.60<P≤0.70	0.45	742	0.38	812	0.69	1042	0.59	1112
0.70<P≤0.80	0.53	742	0.46	812	0.79	1042	0.69	1112

Figure 13. 4MUD4530A10N0* P-Q Curve Example

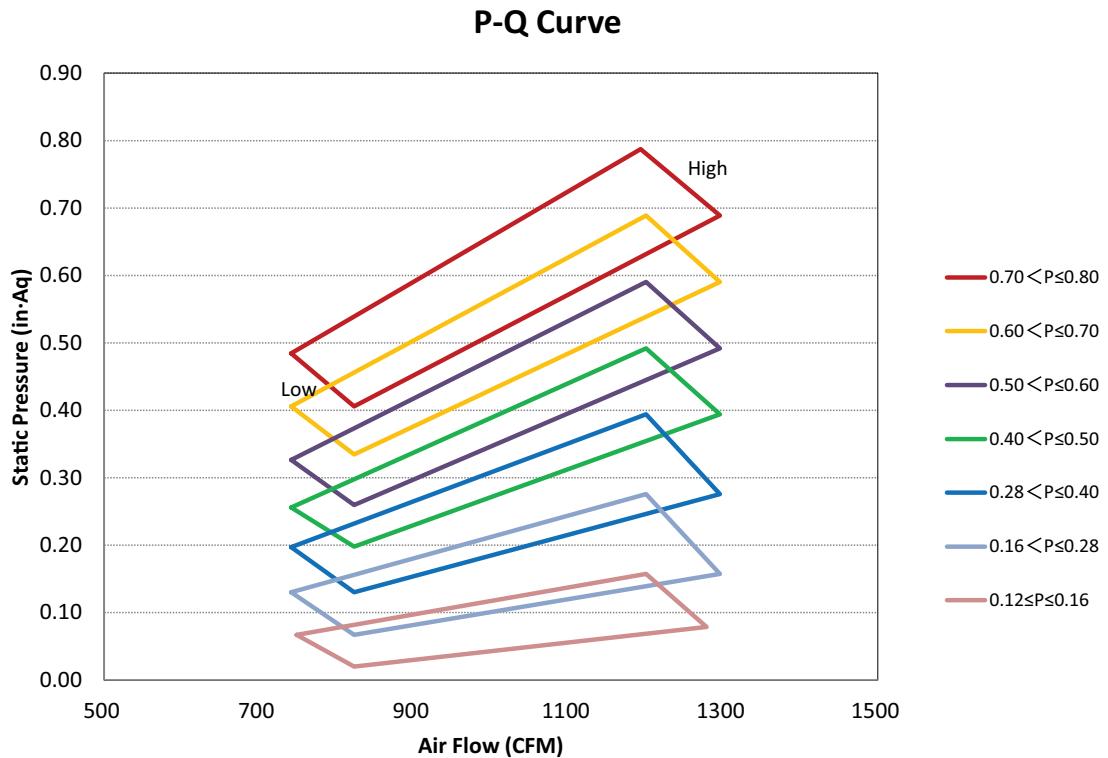
P-Q Curve


Airflow Diagrams

4MUD4536A10N0*

P-Q data	Low				High			
	Point 1 (top, left)		Point 2 (bottom, right)		Point 3 (top, left)		Point 4 (bottom, right)	
External Static pressure(in·Aq)	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0.12≤P≤0.16	0.07	749	0.02	823	0.16	1201	0.08	1278
0.16<P≤0.28	0.13	742	0.07	823	0.28	1201	0.16	1296
0.28<P≤0.40	0.20	742	0.13	823	0.39	1201	0.28	1296
0.40<P≤0.50	0.26	742	0.20	823	0.49	1201	0.39	1296
0.50<P≤0.60	0.33	742	0.26	823	0.59	1201	0.49	1296
0.60<P≤0.70	0.41	742	0.33	823	0.69	1201	0.59	1296
0.70<P≤0.80	0.48	742	0.41	823	0.79	1194	0.69	1296

Figure 14. 4MUD4536A10N0* P-Q Curve Example

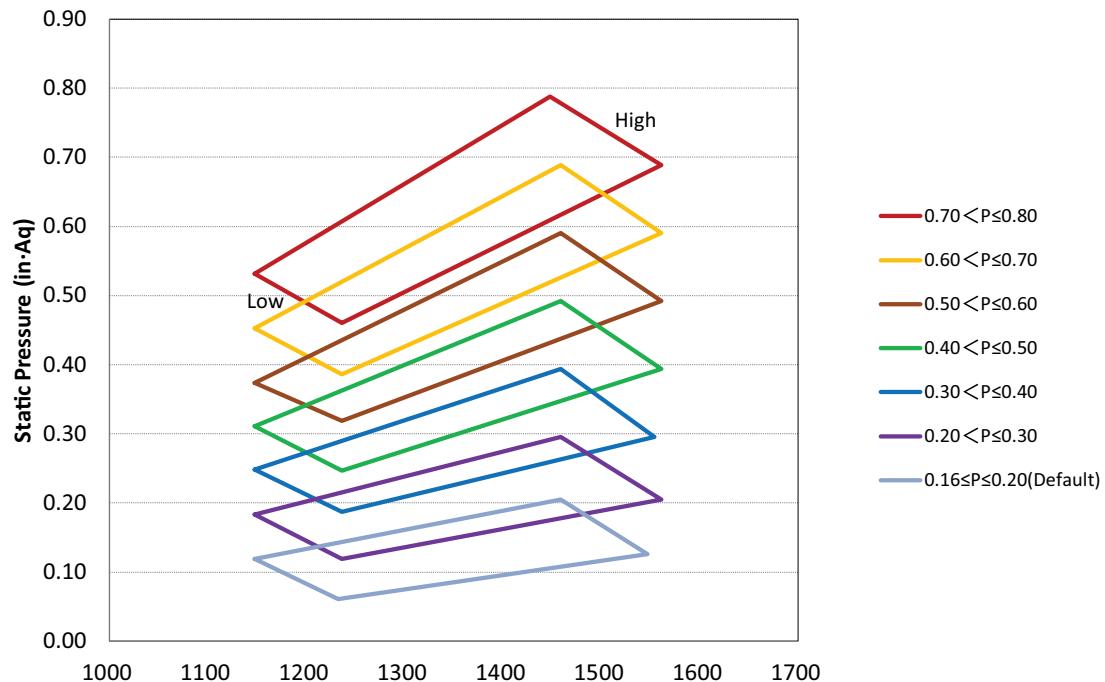


4MUD4542A10N0*

P-Q data	Low				High			
	Point 1 (top, left)		Point 2 (bottom, left)		Point 3 (top,right)		Point 4 (bottom,right)	
External Static pressure(in·Aq)	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0.16≤P≤0.20	0.12	1148	0.06	1233	0.20	1459	0.13	1547
0.20<P≤0.30	0.18	1148	0.12	1236	0.30	1459	0.20	1561
0.30<P≤0.40	0.25	1148	0.19	1236	0.39	1459	0.30	1554
0.40<P≤0.50	0.31	1148	0.25	1236	0.49	1459	0.39	1561
0.50<P≤0.60	0.37	1148	0.32	1236	0.59	1459	0.49	1561
0.60<P≤0.70	0.45	1148	0.39	1236	0.69	1459	0.59	1561
0.70<P≤0.80	0.53	1148	0.46	1236	0.79	1448	0.69	1561

Figure 15. 4MUD4542A10N0* P-Q Curve Example

P-Q Curve



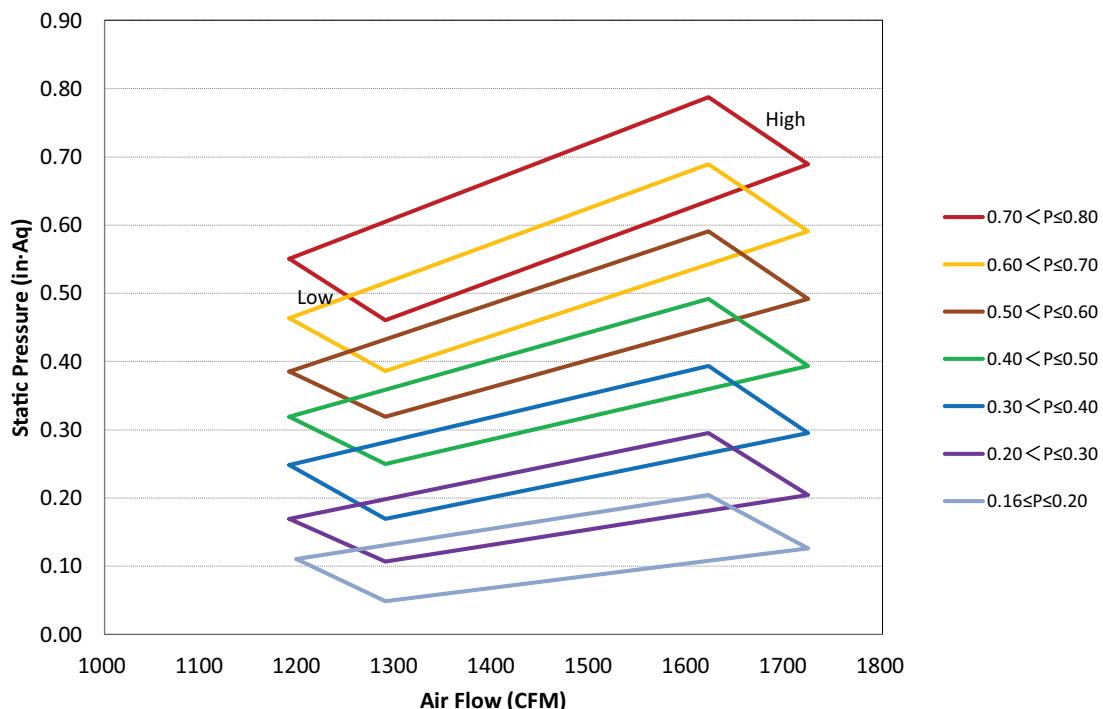
Airflow Diagrams

4MUD4548A10N0*

P-Q data	Low				High			
	Point 1 (top, left)		Point 2 (bottom, left)		Point 3 (top,right)		Point 4 (bottom,right)	
External Static pressure(in·Aq)	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM	in·Aq	CFM
0.16≤P≤0.20	0.11	1197	0.05	1289	0.20	1621	0.13	1723
0.20<P≤0.30	0.17	1190	0.11	1289	0.30	1621	0.20	1723
0.30<P≤0.40	0.25	1190	0.17	1289	0.39	1621	0.30	1723
0.40<P≤0.50	0.32	1190	0.25	1289	0.49	1621	0.39	1723
0.50<P≤0.60	0.39	1190	0.32	1289	0.59	1621	0.49	1723
0.60<P≤0.70	0.46	1190	0.39	1289	0.69	1621	0.59	1723
0.70<P≤0.80	0.55	1190	0.46	1289	0.79	1621	0.69	1723

Figure 16. 4MUD4548A10N0* P-Q Curve Example

P-Q Curve





Capacity Correction Tables

4MUD4518A10N0* and 4TUK4518A10N0*

Cooling

Level Difference (ft)	Pipe length (ft)					
	16.4	32.8	49.2	65.6	82	98.4
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
0.0	1.00	0.99	0.97	0.96	0.94	0.93
-16.4	1.00	0.98	0.97	0.95	0.94	0.93
-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

Heating

Level Difference (ft)	Pipe length (ft)					
	16.4	32.8	49.2	65.6	82	98.4
65.6	—	—	—	0.94	0.92	0.90
49.2	—	—	0.96	0.94	0.92	0.90
32.8	—	0.98	0.96	0.94	0.92	0.90
16.4	1.00	0.98	0.96	0.94	0.92	0.90
0.0	1.00	0.98	0.96	0.94	0.92	0.90
-16.4	1.00	0.98	0.96	0.94	0.92	0.90
-32.8	—	0.98	0.96	0.94	0.92	0.90
-49.2	—	—	0.96	0.94	0.92	0.90
-65.6	—	—	—	0.94	0.92	0.90



Capacity Correction Tables

4MUD4524A10N0* and 4TUK4524A10N0*

Cooling

Level Difference (ft)	Pipe length (ft)									
	16.4	32.8	49.2	65.6	82	98.4	114.8	131.2	147.6	164.0
98.4	—	—	—	—	—	0.94	0.93	0.92	0.91	0.90
82.0	—	—	—	—	0.96	0.94	0.93	0.92	0.91	0.90
65.6	—	—	—	0.97	0.96	0.94	0.93	0.92	0.91	0.90
49.2	—	—	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
32.8	—	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
16.4	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
0.0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-16.4	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90	0.88
-32.8	—	0.98	0.97	0.96	0.95	0.94	0.92	0.91	0.89	0.87
-49.2	—	—	0.97	0.96	0.94	0.93	0.92	0.90	0.88	0.85
-65.6	—	—	—	0.95	0.94	0.93	0.91	0.89	0.87	0.83
-82.0	—	—	—	—	0.94	0.92	0.91	0.89	0.86	0.82
-98.4	—	—	—	—	—	0.92	0.90	0.88	0.85	0.80

Heating

Level Difference (ft)	Pipe length (ft)									
	16.4	32.8	49.2	65.6	82	98.4	114.8	131.2	147.6	164.0
98.4	—	—	—	—	—	0.94	0.93	0.92	0.91	0.90
82.0	—	—	—	—	0.96	0.94	0.93	0.92	0.91	0.90
65.6	—	—	—	0.97	0.96	0.94	0.93	0.92	0.91	0.90
49.2	—	—	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
32.8	—	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
16.4	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
0.0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-16.4	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-32.8	—	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-49.2	—	—	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-65.6	—	—	—	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-82.0	—	—	—	—	0.96	0.94	0.93	0.92	0.91	0.90
-98.4	—	—	—	—	—	0.94	0.93	0.92	0.91	0.90

4MUD4530A10N0* and 4TUK4530A10N0*
Cooling

Level Difference (ft)	Pipe length (ft)									
	16.4	32.8	49.2	65.6	82	98.4	114.8	131.2	147.6	164.0
98.4	—	—	—	—	—	0.94	0.93	0.92	0.91	0.90
82.0	—	—	—	—	0.96	0.94	0.93	0.92	0.91	0.90
65.6	—	—	—	0.97	0.96	0.94	0.93	0.92	0.91	0.90
49.2	—	—	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
32.8	—	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
16.4	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
0.0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-16.4	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90	0.88
-32.8	—	0.98	0.97	0.96	0.95	0.94	0.92	0.91	0.89	0.87
-49.2	—	—	0.97	0.96	0.94	0.93	0.92	0.90	0.88	0.85
-65.6	—	—	—	0.95	0.94	0.93	0.91	0.89	0.87	0.83
-82.0	—	—	—	—	0.94	0.92	0.91	0.89	0.86	0.82
-98.4	—	—	—	—	—	0.92	0.90	0.88	0.85	0.80

Heating

Level Difference (ft)	Pipe length (ft)									
	16.4	32.8	49.2	65.6	82	98.4	114.8	131.2	147.6	164.0
98.4	—	—	—	—	—	0.94	0.93	0.92	0.91	0.90
82.0	—	—	—	—	0.96	0.94	0.93	0.92	0.91	0.90
65.6	—	—	—	0.97	0.96	0.94	0.93	0.92	0.91	0.90
49.2	—	—	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
32.8	—	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
16.4	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
0.0	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-16.4	1.00	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-32.8	—	0.99	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-49.2	—	—	0.98	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-65.6	—	—	—	0.97	0.96	0.94	0.93	0.92	0.91	0.90
-82.0	—	—	—	—	0.96	0.94	0.93	0.92	0.91	0.90
-98.4	—	—	—	—	—	0.94	0.93	0.92	0.91	0.90



Capacity Correction Tables

4MUD4536A10N0* and 4TUK4536A10N0*

Cooling

Level Difference (ft)	Pipe length (ft)														
	16.4	32.8	49.2	65.6	82	98.4	114.8	131.2	147.6	164.0	180.4	196.9	213.3	229.7	246.1
98.4	—	—	—	—	—	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
82.0	—	—	—	—	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
65.6	—	—	—	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
49.2	—	—	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
32.8	—	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
16.4	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
0.0	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
-16.4	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
-32.8	—	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.87	0.85
-49.2	—	—	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
-65.6	—	—	—	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	—	—	—	—	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.88	0.87	0.85	0.81
-98.4	—	—	—	—	—	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)														
	16.4	32.8	49.2	65.6	82	98.4	114.8	131.2	147.6	164.0	180.4	196.9	213.3	229.7	246.1
98.4	—	—	—	—	—	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
82.0	—	—	—	—	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
65.6	—	—	—	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
49.2	—	—	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
32.8	—	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
16.4	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
0.0	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
-16.4	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	0.88	0.88
-32.8	—	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
-49.2	—	—	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
-65.6	—	—	—	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	—	—	—	—	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-98.4	—	—	—	—	—	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88

4MUD4542A10N0* and 4TUK4542A10N0*
Cooling

Level Difference (ft)	Pipe length (ft)														
	16.4	32.8	49.2	65.6	82	98.4	114.8	131.2	147.6	164.0	180.4	196.9	213.3	229.7	246.1
98.4	—	—	—	—	—	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
82.0	—	—	—	—	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
65.6	—	—	—	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
49.2	—	—	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
32.8	—	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
16.4	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
0.0	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
-16.4	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
-32.8	—	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.87	0.85
-49.2	—	—	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
-65.6	—	—	—	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	—	—	—	—	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.88	0.87	0.85	0.81
-98.4	—	—	—	—	—	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)														
	16.4	32.8	49.2	65.6	82	98.4	114.8	131.2	147.6	164.0	180.4	196.9	213.3	229.7	246.1
98.4	—	—	—	—	—	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
82.0	—	—	—	—	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
65.6	—	—	—	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
49.2	—	—	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
32.8	—	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
16.4	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
0.0	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
-16.4	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	0.88	0.88
-32.8	—	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
-49.2	—	—	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
-65.6	—	—	—	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	—	—	—	—	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-98.4	—	—	—	—	—	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88



Capacity Correction Tables

4MUD4548A10N0* and 4TUK4548A10N0*

Cooling

Level Difference (ft)	Pipe length (ft)														
	16.4	32.8	49.2	65.6	82	98.4	114.8	131.2	147.6	164.0	180.4	196.9	213.3	229.7	246.1
98.4	—	—	—	—	—	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
82.0	—	—	—	—	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
65.6	—	—	—	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
49.2	—	—	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
32.8	—	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
16.4	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
0.0	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
-16.4	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
-32.8	—	0.98	0.98	0.97	0.96	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.89	0.87	0.85
-49.2	—	—	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
-65.6	—	—	—	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	—	—	—	—	0.95	0.94	0.93	0.93	0.92	0.91	0.90	0.88	0.87	0.85	0.81
-98.4	—	—	—	—	—	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)														
	16.4	32.8	49.2	65.6	82	98.4	114.8	131.2	147.6	164.0	180.4	196.9	213.3	229.7	246.1
98.4	—	—	—	—	—	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
82.0	—	—	—	—	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
65.6	—	—	—	0.97	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
49.2	—	—	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
32.8	—	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
16.4	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
0.0	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
-16.4	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	0.88	0.88
-32.8	—	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
-49.2	—	—	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
-65.6	—	—	—	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	—	—	—	—	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88
-98.4	—	—	—	—	—	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.90	0.89	0.88



Notes



Notes



Notes



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