Product Catalog

C-Series

Cassette Indoor and Outdoor Units

Indoor unit model number: 4MUC********

Outdoor unit model number: 4TUK********

September 2015

MS-PRC019A-EN

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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Related Documents

For C-Series Concealed (Ducted) Indoor Unit Systems, refer to MS-PRC020*–EN.

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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)
- Auto restart on power fail
- Factory installed condensate pump
- 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
- Isolation ball valve with access port

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

Each air handler is a four-way cassette style indoor unit that recesses into the ceiling with a ceiling grille. Unit ships with a unit mounting template. Each cassette indoor unit is matched with a Trane outdoor unit, rated and tested in accordance with AHRI standard 210/240. Unit are ETL listed.

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 cabinet is a compact, space-saving ceiling-recessed cassette. Each corner portion of the panel cabinet is detachable, providing easy access to adjust the height. The cabinet panel has provisions for a field installed outside air intake and a sub-duct which will allow 20% of the total air flow to be diverted to an additional area.

Discharge Airflow and Distribution System

Each cassette unit has auto swing, horizontal blades on all four sides to optimize the aperture outlet for airflow and air distribution. Blades close automatically when the system is turned off to minimize dust entering the unit. Each blade can be controlled individually.

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

Indoor Unit Model Number Description

4	M	U	C	4	5	1	8	A	1	0	N	0	B	A
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

DIGIT 1 = Refrigerant

4 = R-410a

DIGIT 2 = Product type

M = Mini-split indoor unit

DIGIT 3 = System type

U = C-Series universal match

DIGIT 4 = Configuration type

C = 4–Way cassette

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

DIGIT 10 = Electric power supply characteristics

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

DIGIT 15 = Service digit (not used for ordering)

A = First sequence
B = Second sequence

Outdoor Unit Model Number Descriptions

4	T	U	K	4	5	1	8	A	1	0	N	0	A
1	2	3	4	5	6	7	8	9	10	11	12	13	14

DIGIT 1 = Refrigerant

4 = R-410A

DIGIT 2 = Product type

T = Mini-split outdoor unit

DIGIT 3 = System type

U = C-Series universal match

DIGIT 4 = Configuration type

K = Heat pump

DIGIT 5 = Family

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

DIGIT 10 = Electric power supply characteristics

1 = 208–230/60/1

DIGIT 11 = Reserved for future use

0 = Standard

DIGIT 12 = Region of sale

N = North America market (mini-split models)

DIGIT 13 = Reserved for future use

0 = Standard

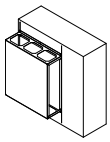
DIGIT 14 = Minor design sequence

A = First design sequence

Controls

Family	Description	Model Number
Zone Controllers	Wireless Remote Control • Mode: Heat/Cool/Auto/Off • Fan: Auto/High/Med/Low • Service Indicator 	TVCTRLTRDH00UT
	Simple Touch Control • Mode: Heat/Cool/Auto/Off • Fan: Auto/High/med/Low • Service indicator 	TVCTRLTWR0002T
	Wired Remote Control • Mode: Heat/Cool/Auto/Off • Fan: Auto/High/Med/Low • Programmable • Service Indicator 	TVCTRLTWRW001T
Centralized Control Systems	VRF Central On/Off Control	TVCTRLTCMA202D
	VRF Touch Screen Control	TVCTRLTCMA300T
Integrated System Management	VRF System Controller	TVCTRLTIMD00A0
	VRF Enterprise Management Software	TVCTRLTSTP3P00
	VRF Power Meter Interface (PIM)	TVCTRLTIMB16A0
Building Management System Gateways	VRF System Controller+BACnet® ***Note:*** *This controller enables BACnet integration.*	TVCTRLTIMB17A0
Interface Modules	VRF External Contact Interface Module/Auxiliary Heat Module	TVCTRLTIMB14A0
Sensors	VRF External Room Temperature Sensor	TVCTRLTRWTA000
Commissioning Utility Kits	VRF Technician Utilities Tool (TUT)	TVCTRLTIMC0300

Accessories

Family	Description		Model Number
Ball Valves	1/2 in. Ball Valve Flare		BVALVE12FLARE1
	1/4 in. Ball Valve Flare		BVALVE14FLARE1
	3/8 in. Ball Valve Flare		BVALVE38FLARE1
	5/8 in. Ball Valve Flare		BVALVE58FLARE1
Cassette Panels	4–Way Cassette Panel		TVEPANPC4NUSET
Wind Baffle	18 MBH Outdoor Unit		CSERWINDBFL18AA
	24, 30 MBH Outdoor Unit		CSERWINDBFL24AA
	36, 42, 48 30 MBH Outdoor Unit		CSERWINDBFL36AA

Product Specifications

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

System model numbers		4MUC4518A10N0A/ 4TUK4518A10N0A		4MUC4524A10N0A/ 4TUK4524A10N0A		4MUC4530A10N0A/ 4TUK4530A10N0A	
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	19,200	N/A	25,200	N/A	32,500
	Rated	N/A	10,900	N/A	15,400	N/A	21,300
Heating capacity @5°F (Btu/h)	Max	N/A	14,700	N/A	20,500	N/A	26,500
Heating capacity @-4°F (Btu/h)	Max	N/A	10,000	N/A	14,500	N/A	19,000
SEER/HSPF	Rated per AHRI 210/240	20.10	10.00	20.50	9.70	19.20	9.80
EER @95°F		11.70	12.50	11.40	10.80	10.40	10.30
Dehumidifying volume	pt./hr.	4.26		6.13		7.03	
Power							
		Cooling	Heating	Cooling	Heating	Cooling	Heating
Rated power input	W	1.54	1.60	2.11	2.50	2.89	3.11
Nominal input current	A	7.1	7.4	9.8	11.6	13.4	14.4

Notes:

1. Nominal capacity based on 25 ft. of equivalent refrigerant piping with 0 ft. level difference.
   Cooling: Indoor temperature 80° F DB, 67° F W; 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 2. System specifications for 36, 42, and 48 MBH capacity units

System model numbers		4MUC4536A10N0A/ 4TUK4536A10N0A		4MUC4542A10N0A/ 4TUK4542A10N0A		4MUC4548A10N0A/ 4TUK4548A10N0A	
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	38,700	N/A	40,500	N/A	41,000
	Rated	N/A	24,000	N/A	28,000	N/A	31,400
Heating capacity @5°F (Btu/h)	Max	N/A	32,000	N/A	33,000	N/A	33,500
Heating capacity @-4°F (Btu/h)	Max	N/A	28,500	N/A	29,000	N/A	29,500
SEER/HSPF	Rated per AHRI 210/240	20.50	9.50	19.60	9.50	18.80	9.50
EER @95°F		12.10	11.50	10.40	10.80	9.70	10.50
Dehumidifying volume	pt/hr	8.24		9.37		12.35	
Power							
		Cooling	Heating	Cooling	Heating	Cooling	Heating
Rated power input	W	2.98	3.48	4.04	4.35	4.95	5.05
Nominal input current	A	13.8	16.1	18.7	20.1	22.9	23.4

Notes:

1. Nominal capacity based on 25 ft. of equivalent refrigerant piping with 0 ft. level difference.
   Cooling: Indoor temperature 80° F DB, 67° F W; 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				4MUC4518A10N0A	4MUC4524A10N0A	4MUC4530A10N0A
Fan	Motor type			BLDC	BLDC	BLDC
	Output		W	65	65	97
	FLA		A	0.33	0.33	0.35
	Fan type			Turbo	Turbo	Turbo
	Motor rpm H/M/L		rpm	460/400/360	460/400/360	480/420/360
	Air flow rate H/M/L (dry coil)		cfm	580/530/440	580/530/440	840/720/600
Coil	Construction			Fin/Copper tube	Fin/Copper tube	Fin/Copper tube
Sound	Sound pressure level (H/M/L)		dBA	36.0/33.0/30.0	36.0/33.0/30.0	38.0/35.0/32.0
	Sound power level		dBA	51	51	53
Standard components	Filter			Washable mesh	Washable mesh	Washable mesh
	Condensate drain pump	Max. lifting height	in. (mm)	29 (736.6)	29 (736.6)	29 (736.6)
		Dis-place-ment	pint (liters)/ hr	50.7 (24)	50.7 (24)	50.7 (24)
Remote control	Wired remote control			TVCTRLTWRWD01T or TVCTRLTWR0002T	TVCTRLTWRWD01T or TVCTRLTWR0002T	TVCTRLTWRWD01T or TVCTRLTWR0002T
	Wireless remote control			TVCTRLTRDH00UT	TVCTRLTRDH00UT	TVCTRLTRDH00UT
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
	Condensate drain		dia., in.	OD 0.98 (VP25), ID 0.79 (VP20)	OD 0.98 (VP25), ID 0.79 (VP20)	OD 0.98 (VP25), ID 0.79 (VP20)
Weight	Net weight		lbs.	34.2	34.2	41.9
	Shipping weight		lbs.	43.0	43.0	52.9
Dimensions	Net dimensions (WxHxD)		in.	33 x 33 x 8	33 x 33 x 8	33 x 33 x 11.35
	Shipping dimensions (WxHxD)		in.	35.4 × 10.8 × 35.4	35.4 × 10.8 × 35.4	35.4 × 14.1 × 35.4
Panel	Model number			TVEPANPC4NUSET	TVEPANPC4NUSET	TVEPANPC4NUSET
	Net weight		lbs.	13	13	13
	Shipping weight		lbs.	19	19	19
	Net dimensions (WxHxD)		in.	37-3/8 x 37-3/8 x 1-3/16	37-3/8 x 37-3/8 x 1-3/16	37-3/8 x 37-3/8 x 1-3/16
	Shipping dimensions (WxHxD)		in.	39.6 × 39.6 x 4	39.6 × 39.6 x 4	39.6 × 39.6 x 4

Notes:
1. Sound pressure was acquired in a dead room. Actual noise level may be different depending on installation requirements.
2. Cassette panels and remote controls must be ordered separately.
3. Indoor unit receives power from the outdoor unit through field-supplied interconnecting wiring.
4. Unit includes an optional drain hose connection.

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

Indoor unit model number				4MUC4536A10N0A	4MUC4542A10N0A	4MUC4548A10N0A
Fan	Motor type			BLDC	BLDC	BLDC
	Output		W	97	97	97
	FLA		A	0.35	0.35	0.35
	Fan type			Turbo	Turbo	Turbo
	Motor rpm H/M/L		rpm	580/480/380	600/500/400	620/520/420
	Air flow rate H/M/L (dry coil)		cfm	1020/930/810	1170/960/780	1230/1090/880
Coil	Construction			Fin/Copper tube	Fin/Copper tube	Fin/Copper tube
Sound	Sound pressure level (H/M/L)		dBA	43.0/38.0/33.0	44.0/40.0/34.0	45.0/41.0/35.0
	Sound power level		dBA	58	59	60
Standard components	Filter			Washable mesh	Washable mesh	Washable mesh
	Condensate drain pump	Max. lifting height	in. (mm)	47.25 (1200)	47.25 (1200)	47.25 (1200)
		Dis-place-ment	pint (liters)/ hr	50.7 (24)	50.7 (24)	50.7 (24)
Remote control	Wired remote control			TVCTRLTWRWD01T or TVCTRLTWR0002T	TVCTRLTWRWD01T or TVCTRLTWR0002T	TVCTRLTWRWD01T or TVCTRLTWR0002T
	Wireless remote control			TVCTRLTRDH00UT	TVCTRLTRDH00UT	TVCTRLTRDH00UT
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
	Condensate drain		dia., in.	OD 0.98 (VP25), ID 0.79 (VP20)	OD 0.98 (VP25), ID 0.79 (VP20)	OD 0.98 (VP25), ID 0.79 (VP20)
Weight	Net weight		lbs.	41.9	41.9	41.9
	Shipping weight		lbs.	52.9	52.9	52.9
Dimensions	Net dimensions (WxHxD)		in.	33 x 33 x 11.35	33 x 33 x 11.35	33 x 33 x 11.35
	Shipping dimensions (WxHxD)		in.	35.4 × 14.1 × 35.4	35.4 × 14.1 × 35.4	35.4 × 14.1 × 35.4
Panel	Model number			TVEPANPC4NUSET	TVEPANPC4NUSET	TVEPANPC4NUSET
	Net weight		lbs.	13	13	13
	Shipping weight		lbs.	19	19	19
	Net dimensions (WxHxD)		in.	37-3/8 x 37-3/8 x 1-3/16	37-3/8 x 37-3/8 x 1-3/16	37-3/8 x 37-3/8 x 1-3/16
	Shipping dimensions (WxHxD)		in.	39.6 × 39.6 x 4	39.6 × 39.6 x 4	39.6 × 39.6 x 4

Notes:
1. Sound pressure was acquired in a dead room. Actual noise level may be different depending on installation requirements.
2. Cassette panels and remote controls must be ordered separately.
3. Indoor unit receives power from the outdoor unit through field-supplied interconnecting wiring.
4. Unit includes an optional drain hose connection.

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

Outdoor Unit Model Number			4TUK4518A10N0A	4TUK4524A10N0A	4TUK4530A10N0A
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	7.7	11.7	19.3
	MOP	A	15.0	20.0	30.0
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.	34.65 x 25.1 x 12.2	37.0 x 39.3 x 13.0	37.0 x 39.3 x 13.0
	Shipping dimensions (WxHxD)	in.	40.25 x 29.5 x 16.25	39.1875 x 43.125 x 16.75	39.1875 x 43.125 x 16.75
Refrigerant	Type		R-410A	R-410A	R-410A
	Control method		EEV	EEV	EEV
	Factory charge	oz.	45.86	74.08	91.71
	Additional charge	g/m	10	10	22
		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.

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

Outdoor Unit Model Number			4TUK4536A10N0A	4TUK4542A10N0A	4TUK4548A10N0A
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	22.2	22.2	22.2
	MOP	A	35.0	35.0	35.0
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.	37.0 x 47.65 x 13.0	37.0 x 47.65 x 13.0	37.0 x 47.65 x 13.0
	Shipping dimensions (WxHxD)	in.	39.1875 x 54.625 x 16.75	39.1875 x 54.625 x 16.75	39.1875 x 54.625 x 16.75
Refrigerant	Type		R-410A	R-410A	R-410A
	Control method		EEV	EEV	EEV
	Factory charge	oz.	98.77	98.77	98.77
	Additional charge	g/m	33	33	33
		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 specifications for 18, 24, and 30 MBH capacity units

Application Limits			4MUC4518A10N0A/ 4TUK4518A10N0A	4MUC4524A10N0A/ 4TUK4524A10N0A	4MUC4530A10N0A/ 4TUK4530A10N0A
Outdoor 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. (m)		98 (29.9)	164 (50)	164 (50
	Max. length with no additional refrigerant ft. (m)		25 (7.6)	25 (7.6)	25 (7.6)
	Max. height difference ft. (m)		66 (20.1)	98 (29.9)	98 (29.9)

Table 8. Application Limit specifications for 36, 42, and 48 MBH capacity units

Application Limits				4MUC4536A10N0A/ 4TUK4536A10N0A	4MUC4542A10N0A/ 4TUK4542A10N0A	4MUC4548A10N0A/ 4TUK4548A10N0A
Outdoor 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)F
		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 4MUC4518A10N0A and 4TUK4518A10N0A (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	20.0	16.0	20.6	16.5	21.1	16.9	21.5	17.2
10	20.2	16.2	20.8	16.6	21.3	17.1	21.7	17.4
20	20.5	16.4	21.0	16.8	21.6	17.2	22.0	17.6
30	20.7	16.5	21.2	17.0	21.8	17.4	22.2	17.7
40	20.9	16.7	21.4	17.2	22.0	17.6	22.4	17.9
50	21.1	16.9	21.7	17.3	22.2	17.8	22.6	18.1
54	21.2	16.9	21.7	17.4	22.3	17.9	22.7	18.2
58	21.3	17.0	21.8	17.5	22.4	17.9	22.8	18.3
60	21.3	17.0	21.9	17.5	22.5	18.0	22.9	18.3
64	21.4	17.1	22.0	17.6	22.5	18.0	23.0	18.4
67	21.5	17.2	22.0	17.6	22.6	18.1	23.0	18.4
70	21.5	17.2	22.1	17.7	22.7	18.1	23.1	18.5
73	20.9	16.8	21.5	17.2	22.1	17.7	22.5	18.0
77	20.2	16.2	20.7	16.6	21.3	17.0	21.7	17.3
80	19.6	15.7	20.1	16.1	20.7	16.5	21.1	16.8
84	18.9	15.1	19.4	15.5	19.9	15.9	20.2	16.2
88	18.1	14.5	18.6	14.9	19.1	15.3	19.4	15.5
92	17.3	13.9	17.8	14.2	18.3	14.6	18.6	14.9
95	16.8	13.4	17.2	13.8	17.7	14.1	18.0	14.4
99	16.7	13.3	17.1	13.7	17.6	14.1	17.9	14.3
103	16.6	13.3	17.0	13.6	17.5	14.0	17.8	14.2
107	16.5	13.2	16.9	13.5	17.4	13.9	17.7	14.2
111	16.4	13.1	16.8	13.5	17.3	13.8	17.6	14.1
115	16.3	13.0	16.7	13.4	17.2	13.7	17.5	14.0

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 (5 m)
4. Level difference : 0 ft (0 m)

Table 10. Capacity table for 4MUC4518A10N0A and 4TUK4518A10N0A (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	22.0	17.6	22.4	17.9	22.5	18.0
10	22.3	17.8	22.6	18.1	22.8	18.2
20	22.5	18.0	22.8	18.3	23.0	18.4
30	22.7	18.2	23.1	18.5	23.3	18.6
40	23.0	18.4	23.3	18.7	23.5	18.8
50	23.2	18.6	23.6	18.8	23.7	19.0
54	23.3	18.6	23.7	18.9	23.8	19.1
58	23.4	18.7	23.7	19.0	23.9	19.1
60	23.4	18.8	23.8	19.0	24.0	19.2
64	23.5	18.8	23.9	19.1	24.1	19.3
67	23.6	18.9	24.0	19.2	24.2	19.3
70	23.7	18.9	24.0	19.2	24.2	19.4
73	23.1	18.4	23.4	18.7	23.6	18.9
77	22.2	17.8	22.5	18.0	22.7	18.2
80	21.6	17.3	21.9	17.5	22.1	17.7
84	20.8	16.6	21.1	16.8	21.2	17.0
88	19.9	15.9	20.2	16.2	20.4	16.3
92	19.1	15.3	19.4	15.5	19.5	15.6
95	18.5	14.8	18.7	15.0	18.9	15.1
99	18.3	14.7	18.6	14.9	18.8	15.0
103	18.2	14.6	18.5	14.8	18.7	14.9
107	18.1	14.5	18.4	14.7	18.6	14.8
111	18.0	14.4	18.3	14.6	18.5	14.8
115	17.9	14.4	18.2	14.6	18.4	14.7

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 (5 m)
4. Level difference : 0 ft (0 m)

Table 11. Capacity table for 4MUC4518A10N0A and 4TUK4518A10N0A: 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	10.5	10.4	10.2	10.1	10.0
-1.0	12.1	12.0	11.8	11.6	11.5
2	13.7	13.6	13.3	13.2	13.0
6	15.8	15.7	15.4	15.2	15.0
10	17.8	17.7	17.3	17.1	17.0
13	19.7	19.5	19.1	18.9	18.7
17	19.8	19.6	19.2	19.0	18.8
19	19.8	19.6	19.3	19.1	18.9
23	19.9	19.8	19.4	19.2	19.0
26	20.0	19.8	19.4	19.3	19.1
30	20.1	19.9	19.6	19.4	19.2
35	20.3	20.1	19.7	19.5	19.3
39	20.4	20.2	19.8	19.6	19.4
44	20.5	20.3	19.9	19.7	19.5
47	20.6	20.4	20.0	19.8	19.6
51	21.3	21.1	20.7	20.5	20.3
54	21.9	21.7	21.3	21.1	20.9
57	22.5	22.2	21.8	21.6	21.4
60	23.0	22.8	22.4	22.1	21.9
65	24.0	23.7	23.3	23.0	22.8
70	24.9	24.7	24.2	23.9	23.7
75	25.9	25.6	25.1	24.8	24.6

Notes:
1. Capacity index: Total capacity (TC) = 20 MBh
2. Rated heating capacity is 47°F DB/ 43°F WB.
3. Refrigerant piping length: 16.4 ft (5 m)
4. Level difference : 0 ft (0 m)

Table 12. Capacity table for 4MUC4524A10N0A and 4TUK4524A10N0A (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	26.2	20.9	26.9	21.5	27.6	22.1	28.1	22.5
10	26.1	20.9	26.8	21.5	27.6	22.0	28.1	22.4
20	26.1	20.9	26.8	21.4	27.5	22.0	28.0	22.4
30	26.1	20.8	26.8	21.4	27.5	22.0	28.0	22.4
40	26.0	20.8	26.7	21.4	27.4	21.9	27.9	22.3
50	26.0	20.8	26.7	21.3	27.4	21.9	27.9	22.3
54	26.0	20.8	26.7	21.3	27.4	21.9	27.9	22.3
58	25.9	20.8	26.6	21.3	27.4	21.9	27.9	22.3
60	25.9	20.8	26.6	21.3	27.3	21.9	27.8	22.3
64	25.9	20.7	26.6	21.3	27.3	21.9	27.8	22.3
67	25.9	20.7	26.6	21.3	27.3	21.8	27.8	22.3
70	25.9	20.7	26.6	21.3	27.3	21.8	27.8	22.2
73	25.5	20.4	26.2	20.9	26.9	21.5	27.3	21.9
77	24.9	19.9	25.6	20.5	26.3	21.0	26.7	21.4
80	24.5	19.6	25.1	20.1	25.8	20.6	26.3	21.0
84	23.9	19.1	24.6	19.6	25.2	20.2	25.7	20.5
88	23.3	18.7	24.0	19.2	24.6	19.7	25.1	20.1
92	22.8	18.2	23.4	18.7	24.0	19.2	24.5	19.6
95	22.4	17.9	23.0	18.4	23.6	18.9	24.0	19.2
99	22.2	17.8	22.8	18.2	23.4	18.7	23.8	19.1
103	22.0	17.6	22.6	18.1	23.2	18.6	23.6	18.9
107	21.9	17.5	22.4	18.0	23.0	18.4	23.5	18.8
111	21.7	17.4	22.3	17.8	22.9	18.3	23.3	18.6
115	21.5	17.2	22.1	17.7	22.7	18.1	23.1	18.5

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 (5 m)
4. Level difference : 0 ft (0 m)

Table 13. Capacity table for 4MUC4524A10N0A and 4TUK4524A10N0A (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	28.8	23.0	29.2	23.4	29.5	23.6
10	28.8	23.0	29.2	23.4	29.4	23.5
20	28.7	23.0	29.1	23.3	29.4	23.5
30	28.7	22.9	29.1	23.3	29.3	23.5
40	28.6	22.9	29.1	23.2	29.3	23.4
50	28.6	22.9	29.0	23.2	29.2	23.4
54	28.6	22.9	29.0	23.2	29.2	23.4
58	28.5	22.8	29.0	23.2	29.2	23.4
60	28.5	22.8	29.0	23.2	29.2	23.4
64	28.5	22.8	28.9	23.2	29.2	23.3
67	28.5	22.8	28.9	23.1	29.2	23.3
70	28.5	22.8	28.9	23.1	29.2	23.3
73	28.0	22.4	28.4	22.8	28.7	22.9
77	27.4	21.9	27.8	22.3	28.0	22.4
80	26.9	21.5	27.3	21.9	27.6	22.0
84	26.3	21.1	26.7	21.4	26.9	21.5
88	25.7	20.6	26.1	20.9	26.3	21.0
92	25.1	20.1	25.4	20.4	25.6	20.5
95	24.6	19.7	25.0	20.0	25.2	20.1
99	24.4	19.5	24.8	19.8	25.0	20.0
103	24.2	19.4	24.6	19.7	24.8	19.8
107	24.0	19.2	24.4	19.5	24.6	19.7
111	23.9	19.1	24.2	19.4	24.4	19.5
115	23.7	18.9	24.0	19.2	24.2	19.4

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 (5 m)
4. Level difference : 0 ft (0 m)

Table 14. Capacity table for 4MUC4524A10N0A and 4TUK4524A10N0A: 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	16.3	16.1	15.8	15.6	15.5
-1.0	18.0	17.8	17.4	17.3	17.1
2	19.6	19.4	19.1	18.9	18.7
6	21.9	21.7	21.2	21.0	20.8
10	24.0	23.8	23.3	23.1	22.9
13	26.0	25.7	25.2	24.9	24.7
17	26.2	25.9	25.4	25.2	24.9
19	26.3	26.0	25.5	25.3	25.0
23	26.5	26.2	25.7	25.5	25.2
26	26.7	26.4	25.9	25.6	25.4
30	26.9	26.6	26.1	25.8	25.6
35	27.1	26.9	26.4	26.1	25.8
39	27.4	27.1	26.6	26.3	26.0
44	27.6	27.4	26.8	26.6	26.3
47	27.8	27.5	27.0	26.7	26.5
51	28.6	28.3	27.8	27.5	27.2
54	29.2	28.9	28.4	28.1	27.8
57	29.8	29.5	28.9	28.7	28.4
60	30.4	30.1	29.5	29.2	29.0
65	31.5	31.2	30.5	30.2	29.9
70	32.5	32.2	31.5	31.2	30.9
75	33.5	33.2	32.5	32.2	31.9

Notes:
1. Capacity index: Total capacity (TC) = 27 MBh.
2. Rated heating capacity is 47°F DB/ 43°F WB.
3. Refrigerant piping length: 16.4 ft (5 m)
4. Level difference : 0 ft (0 m)

Table 15. Capacity table for 4MUC4530A10N0A and 4TUK4530A10N0A (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	32.8	26.2	33.7	26.9	34.6	27.7	35.2	28.2
10	32.7	26.1	33.6	26.8	34.5	27.6	35.1	28.1
20	32.6	26.1	33.4	26.8	34.3	27.5	35.0	28.0
30	32.5	26.0	33.3	26.7	34.2	27.4	34.9	27.9
40	32.4	25.9	33.2	26.6	34.1	27.3	34.7	27.8
50	32.3	25.8	33.1	26.5	34.0	27.2	34.6	27.7
54	32.2	25.8	33.1	26.5	34.0	27.2	34.6	27.7
58	32.2	25.7	33.0	26.4	33.9	27.1	34.5	27.6
60	32.2	25.7	33.0	26.4	33.9	27.1	34.5	27.6
64	32.1	25.7	33.0	26.4	33.8	27.1	34.5	27.6
67	32.1	25.7	32.9	26.3	33.8	27.1	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	26.9	21.6	27.7	22.1	28.4	22.7	28.9	23.1
103	25.9	20.7	26.6	21.3	27.3	21.9	27.8	22.3
107	24.9	19.9	25.6	20.5	26.3	21.0	26.8	21.4
111	23.9	19.1	24.6	19.6	25.2	20.2	25.7	20.5
115	22.9	18.3	23.5	18.8	24.2	19.3	24.6	19.7

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 (5 m)
4. Level difference : 0 ft (0 m)

Table 16. Capacity table for 4MUC4530A10N0A and 4TUK4530A10N0A (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	36.1	28.9	36.6	29.3	36.9	29.5
10	36.0	28.8	36.5	29.2	36.8	29.4
20	35.8	28.7	36.4	29.1	36.7	29.3
30	35.7	28.6	36.3	29.0	36.6	29.2
40	35.6	28.5	36.1	28.9	36.4	29.1
50	35.5	28.4	36.0	28.8	36.3	29.1
54	35.4	28.4	36.0	28.8	36.3	29.0
58	35.4	28.3	35.9	28.7	36.2	29.0
60	35.4	28.3	35.9	28.7	36.2	29.0
64	35.3	28.3	35.9	28.7	36.1	28.9
67	35.3	28.2	35.8	28.7	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	29.6	23.7	30.1	24.1	30.3	24.3
103	28.5	22.8	29.0	23.2	29.2	23.4
107	27.4	21.9	27.8	22.3	28.1	22.5
111	26.3	21.1	26.7	21.4	26.9	21.5
115	25.2	20.2	25.6	20.5	25.8	20.6

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 (5 m)
4. Level difference : 0 ft (0 m)

Table 17. Capacity table for 4MUC4530A10N0A and 4TUK4530A10N0A: 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	21.1	20.9	20.5	20.3	20.1
-1.0	21.8	21.6	21.2	21.0	20.8
2	22.5	22.3	21.8	21.6	21.4
6	23.4	23.2	22.7	22.5	22.3
10	24.3	24.1	23.6	23.4	23.1
13	33.5	33.2	32.5	32.2	31.9
17	33.4	33.1	32.4	32.1	31.8
19	33.4	33.1	32.4	32.1	31.8
23	33.3	33.0	32.4	32.0	31.7
26	33.3	33.0	32.3	32.0	31.7
30	33.2	32.9	32.3	31.9	31.6
35	33.1	32.8	32.2	31.9	31.5
39	33.1	32.8	32.1	31.8	31.5
44	33.0	32.7	32.0	31.7	31.4
47	33.0	32.6	32.0	31.7	31.4
51	34.2	33.9	33.2	32.9	32.6
54	35.2	34.9	34.2	33.9	33.5
57	36.2	35.8	35.1	34.8	34.4
60	37.1	36.8	36.1	35.7	35.3
65	38.8	38.4	37.7	37.3	36.9
70	40.4	40.0	39.2	38.8	38.5
75	42.0	41.6	40.8	40.4	40.0

Notes:
1. Capacity index: Total capacity (TC) = 32 MBh
2. Rated heating capacity is 47°F DB/ 43°F WB.
3. Refrigerant piping length: 16.4 ft (5 m)
4. Level difference : 0 ft (0 m)

Capacity Tables

Table 18. Capacity table for 4MUC4536A10N0A and 4TUK4536A10N0A (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	37.0	29.6	38.0	30.4	38.7	30.9
30	36.0	28.8	37.0	29.6	38.0	30.4	38.7	30.9
40	36.0	28.8	37.0	29.6	37.9	30.4	38.6	30.9
50	36.0	28.8	36.9	29.6	37.9	30.3	38.6	30.9
54	36.0	28.8	36.9	29.6	37.9	30.3	38.6	30.9
58	36.0	28.8	36.9	29.5	37.9	30.3	38.6	30.9
60	36.0	28.8	36.9	29.5	37.9	30.3	38.6	30.9
64	36.0	28.8	36.9	29.5	37.9	30.3	38.6	30.9
67	36.0	28.8	36.9	29.5	37.9	30.3	38.6	30.9
70	36.0	28.8	36.9	29.5	37.9	30.3	38.6	30.9
73	35.7	28.5	36.6	29.3	37.6	30.1	38.3	30.6
77	35.3	28.2	36.2	29.0	37.2	29.8	37.9	30.3
80	35.0	28.0	35.9	28.7	36.9	29.5	37.6	30.0
84	34.6	27.7	35.5	28.4	36.5	29.2	37.1	29.7
88	34.2	27.4	35.1	28.1	36.1	28.9	36.7	29.4
92	33.8	27.1	34.7	27.8	35.7	28.5	36.3	29.0
95	33.5	26.8	34.4	27.5	35.4	28.3	36.0	28.8
99	31.5	25.2	32.3	25.9	33.2	26.6	33.8	27.1
103	29.5	23.6	30.3	24.2	31.1	24.9	31.6	25.3
107	27.4	22.0	28.2	22.5	28.9	23.1	29.5	23.6
111	25.4	20.3	26.1	20.9	26.8	21.4	27.3	21.8
115	23.4	18.7	24.0	19.2	24.6	19.7	25.1	20.1

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 (5 m)
4. Level difference : 0 ft (0 m)

Table 19. Capacity table for 4MUC4536A10N0A and 4TUK4536A10N0A (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	39.7	31.7	40.2	32.2	40.6	32.5
20	39.6	31.7	40.2	32.2	40.6	32.4
30	39.6	31.7	40.2	32.2	40.5	32.4
40	39.6	31.7	40.2	32.2	40.5	32.4
50	39.6	31.7	40.2	32.2	40.5	32.4
54	39.6	31.7	40.2	32.1	40.5	32.4
58	39.6	31.7	40.2	32.1	40.5	32.4
60	39.6	31.7	40.2	32.1	40.5	32.4
64	39.6	31.7	40.2	32.1	40.5	32.4
67	39.6	31.7	40.2	32.1	40.5	32.4
70	39.6	31.7	40.2	32.1	40.5	32.4
73	39.2	31.4	39.8	31.9	40.2	32.1
77	38.8	31.1	39.4	31.5	39.7	31.8
80	38.5	30.8	39.1	31.3	39.4	31.5
84	38.1	30.5	38.6	30.9	39.0	31.2
88	37.6	30.1	38.2	30.6	38.5	30.8
92	37.2	29.8	37.8	30.2	38.1	30.5
95	36.9	29.5	37.5	30.0	37.8	30.2
99	34.7	27.7	35.2	28.1	35.5	28.4
103	32.4	25.9	32.9	26.3	33.2	26.5
107	30.2	24.2	30.6	24.5	30.9	24.7
111	28.0	22.4	28.4	22.7	28.6	22.9
115	25.7	20.6	26.1	20.9	26.3	21.1

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 (5 m)
4. Level difference : 0 ft (0 m)

Table 20. Capacity table for 4MUC4536A10N0A and 4TUK4536A10N0A: 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	26.3	26.0	25.5	25.2	25.0
-1.0	28.6	28.3	27.8	27.5	27.2
2	30.9	30.6	30.0	29.7	29.4
6	34.0	33.7	33.0	32.7	32.4
10	37.0	36.6	35.9	35.5	35.2
13	39.7	39.3	38.5	38.1	37.7
17	39.8	39.4	38.7	38.3	37.9
19	39.9	39.5	38.8	38.4	38.0
23	40.1	39.7	38.9	38.5	38.2
26	40.2	39.9	39.1	38.7	38.3
30	40.4	40.0	39.3	38.9	38.5
35	40.6	40.3	39.5	39.1	38.7
39	40.8	40.4	39.6	39.2	38.9
44	41.1	40.7	39.9	39.5	39.1
47	41.2	40.8	40.0	39.6	39.2
51	42.2	41.8	41.0	40.6	40.1
54	43.0	42.5	41.7	41.3	40.9
57	43.7	43.2	42.4	42.0	41.6
60	44.4	44.0	43.1	42.7	42.3
65	45.7	45.3	44.4	43.9	43.5
70	47.0	46.5	45.6	45.1	44.7
75	48.2	47.7	46.8	46.3	45.9

Notes:
1. Capacity index: Total capacity (TC) = 40 MBh
2. Rated heating capacity is 47°F DB/ 43°F WB.
3. Refrigerant piping length: 16.4 ft (5 m)
4. Level difference : 0 ft (0 m)

Table 21. Capacity table for 4MUC4542A10N0A and 4TUK4542A10N0A (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	36.6	29.2	37.5	30.0	38.5	30.8	39.2	31.4
103	34.0	27.2	34.9	27.9	35.8	28.7	36.5	29.2
107	31.4	25.1	32.3	25.8	33.1	26.5	33.7	27.0
111	28.8	23.1	29.6	23.7	30.4	24.3	31.0	24.8
115	26.3	21.0	27.0	21.6	27.7	22.2	28.2	22.6

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 (5 m)
4. Level difference : 0 ft (0 m)

Table 22. Capacity table for 4MUC4542A10N0A and 4TUK4542A10N0A (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	40.2	32.2	40.8	32.7	41.2	32.9
103	37.4	29.9	38.0	30.4	38.3	30.6
107	34.6	27.7	35.1	28.1	35.4	28.3
111	31.7	25.4	32.2	25.8	32.5	26.0
115	28.9	23.1	29.3	23.5	29.6	23.7

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 (5 m)
4. Level difference : 0 ft (0 m)

Table 23. Capacity table for 4MUC4542A10N0A and 4TUK4542A10N0A: 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	49.6	49.2	48.2	47.7	47.2
54	50.6	50.1	49.1	48.6	48.1
57	51.5	51.0	50.0	49.5	49.0
60	52.5	51.9	50.9	50.4	49.9
65	54.0	53.5	52.5	51.9	51.4
70	55.6	55.1	54.0	53.4	52.9
75	57.2	56.6	55.5	54.9	54.4

Notes:
1. Capacity index: Total capacity (TC) = 47 MBh
2. Rated heating capacity is 47°F DB/ 43°F WB.
3. Refrigerant piping length: 16.4 ft (5 m)
4. Level difference : 0 ft (0 m)

Table 24. Capacity table for 4MUC4548A10N0A and 4TUK4548A10N0A (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	48.9	39.1	50.2	40.2	51.6	41.2	52.5	42.0
10	48.8	39.0	50.1	40.1	51.4	41.1	52.3	41.9
20	48.6	38.9	49.9	39.9	51.2	41.0	52.2	41.7
30	48.5	38.8	49.8	39.8	51.1	40.9	52.0	41.6
40	48.3	38.7	49.6	39.7	50.9	40.8	51.9	41.5
50	48.2	38.5	49.5	39.6	50.8	40.6	51.7	41.4
54	48.1	38.5	49.4	39.5	50.7	40.6	51.7	41.3
58	48.1	38.4	49.3	39.5	50.7	40.5	51.6	41.3
60	48.0	38.4	49.3	39.5	50.6	40.5	51.6	41.2
64	48.0	38.4	49.3	39.4	50.6	40.5	51.5	41.2
67	47.9	38.3	49.2	39.4	50.5	40.4	51.4	41.2
70	47.9	38.3	49.2	39.3	50.5	40.4	51.4	41.1
73	47.5	38.0	48.8	39.0	50.1	40.1	51.0	40.8
77	47.0	37.6	48.3	38.6	49.5	39.6	50.4	40.4
80	46.6	37.3	47.9	38.3	49.1	39.3	50.0	40.0
84	46.1	36.9	47.3	37.9	48.6	38.9	49.5	39.6
88	45.6	36.5	46.8	37.5	48.1	38.5	49.0	39.2
92	45.1	36.1	46.3	37.0	47.5	38.0	48.4	38.7
95	44.7	35.8	45.9	36.7	47.1	37.7	48.0	38.4
99	41.8	33.4	42.9	34.3	44.1	35.2	44.9	35.9
103	38.9	31.1	39.9	31.9	41.0	32.8	41.7	33.4
107	35.9	28.8	36.9	29.5	37.9	30.3	38.6	30.9
111	33.0	26.4	33.9	27.1	34.8	27.8	35.4	28.4
115	30.1	24.1	30.9	24.7	31.7	25.4	32.3	25.8

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 (5 m)
4. Level difference : 0 ft (0 m)

Table 25. Capacity table for 4MUC4548A10N0A and 4TUK4548A10N0A (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	53.8	43.1	54.6	43.7	55.1	44.0
10	53.7	42.9	54.5	43.6	54.9	43.9
20	53.5	42.8	54.3	43.4	54.7	43.8
30	53.3	42.7	54.1	43.3	54.6	43.6
40	53.2	42.5	54.0	43.2	54.4	43.5
50	53.0	42.4	53.8	43.0	54.2	43.4
54	52.9	42.4	53.7	43.0	54.2	43.3
58	52.9	42.3	53.7	42.9	54.1	43.3
60	52.8	42.3	53.6	42.9	54.1	43.3
64	52.8	42.2	53.6	42.9	54.0	43.2
67	52.7	42.2	53.5	42.8	54.0	43.2
70	52.7	42.1	53.5	42.8	53.9	43.1
73	52.3	41.8	53.1	42.4	53.5	42.8
77	51.7	41.4	52.5	42.0	52.9	42.3
80	51.3	41.0	52.1	41.6	52.5	42.0
84	50.7	40.6	51.5	41.2	51.9	41.5
88	50.2	40.1	50.9	40.7	51.3	41.1
92	49.6	39.7	50.4	40.3	50.8	40.6
95	49.2	39.4	49.9	40.0	50.3	40.3
99	46.0	36.8	46.7	37.3	47.0	37.6
103	42.8	34.2	43.4	34.7	43.8	35.0
107	39.5	31.6	40.1	32.1	40.5	32.4
111	36.3	29.1	36.9	29.5	37.2	29.7
115	33.1	26.5	33.6	26.9	33.9	27.1

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 (5 m)
4. Level difference : 0 ft (0 m)

Table 26. Capacity table for 4MUC4548A10N0A and 4TUK4548A10N0A: heating

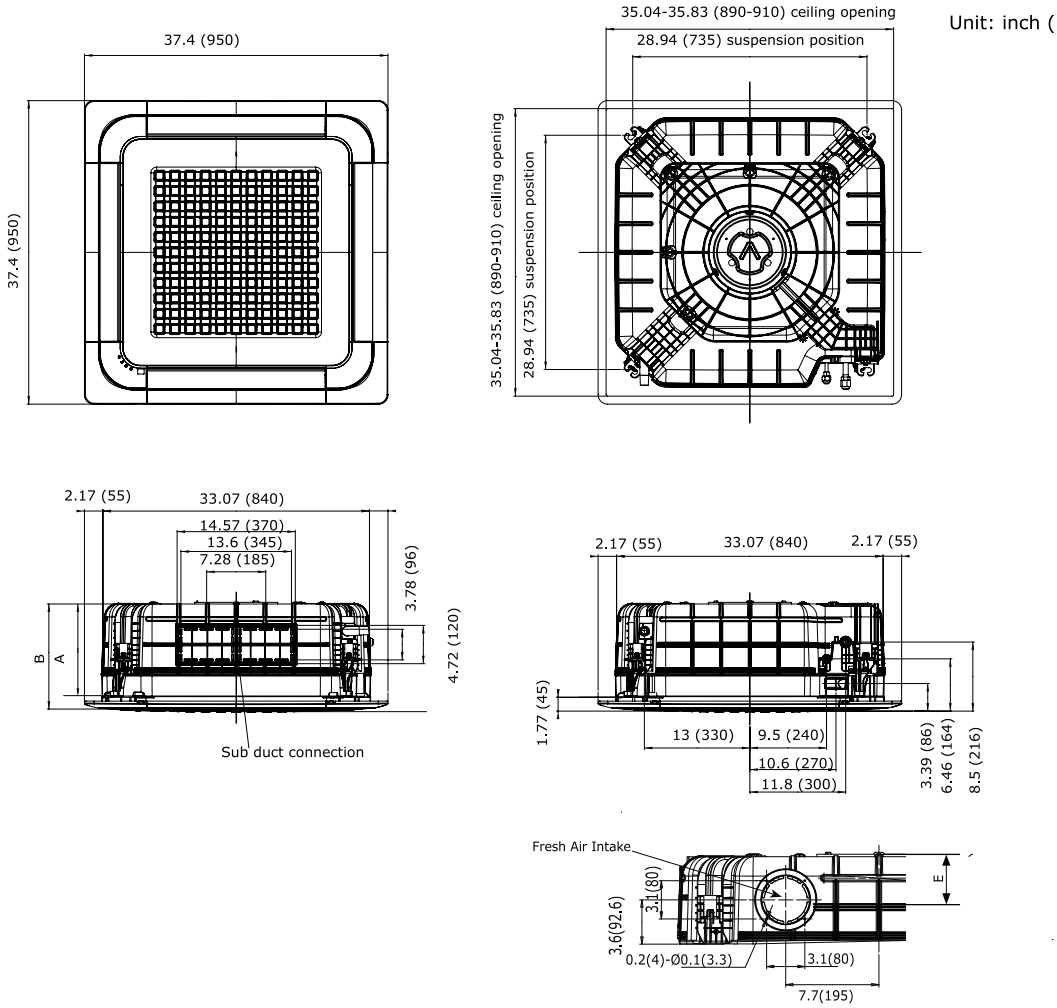
Outdoor Air Temp. (°F)	Indoor temperature (°F DB)				
	61 (16.1°C)	65 (16.1°C)	70 (21.1°C)	72 (22.2°C)	75 (23.8°C)
	TC	TC	TC	TC	TC
DB	Btu/h	Btu/h	Btu/h	Btu/h	Btu/h
-4.0	26.9	26.6	26.1	25.8	25.6
-1.0	29.4	29.1	28.5	28.2	27.9
2	31.8	31.5	30.9	30.6	30.2
6	35.1	34.7	34.0	33.7	33.4
10	38.2	37.8	37.1	36.7	36.3
13	41.0	40.6	39.8	39.4	39.0
17	42.6	42.2	41.3	40.9	40.5
19	43.4	43.0	42.1	41.7	41.3
23	45.0	44.5	43.7	43.2	42.8
26	46.2	45.8	44.9	44.4	44.0
30	47.8	47.3	46.4	45.9	45.5
35	49.7	49.3	48.3	47.8	47.3
39	51.3	50.8	49.8	49.3	48.8
44	53.4	52.8	51.8	51.3	50.8
47	54.6	54.1	53.0	52.5	51.9
51	55.0	54.4	53.4	52.8	52.3
54	55.2	54.7	53.6	53.1	52.6
57	55.5	55.0	53.9	53.3	52.8
60	55.8	55.2	54.2	53.6	53.1
65	56.2	55.7	54.6	54.1	53.5
70	56.7	56.2	55.1	54.5	54.0
75	57.2	56.6	55.5	54.9	54.4

Notes:
1. Capacity index: Total capacity (TC) = 53 MBh
2. Rated heating capacity is 47°F DB/ 43°F WB.
3. Refrigerant piping length: 16.4 ft (5 m)
4. Level difference : 0 ft (0 m)

Unit Dimensions

Unit Dimensions

Unit: inch (mm)



Dimension/Weight/ Diameter	Model		
	4MUC4518A10N0A	**4MUC4524A10NOA**	**4MUC4530A10N0A 4MUC4536A10N0A 4MUC4542A10N0A 4MUC4548A10N0A**
A	8 (204)		11.3 (288)
B	10 (253)		13.3 (337)
Net dimension	33 x 8 x 33 (840 x 204 x 840)		33 x 11.3 x 33 (840 x 288 x 840)
Net weight	34.2 lb (15.5 kg)		41.9 lb (19 kg)
Liquid pipe connection	1/4 (6.35)	1/4 (6.35)	3/8 (9.52)
Gas pipe connection	1/2 (12.70)	5/8 (15.88)	5/8 (15.88)
Drain hose connection	OD: 0.98 (25), ID: 0.79 (20)		

Outdoor Unit Dimensions

Figure 1. Dimensional drawing for 18 MBH capacity units

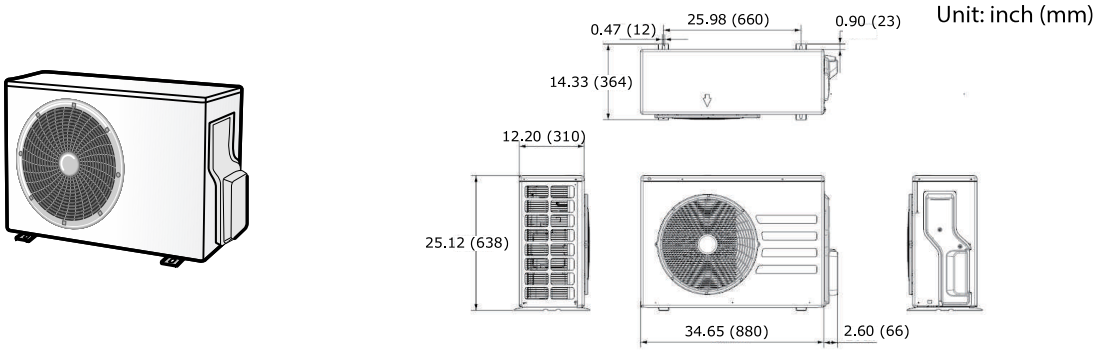


Figure 2. Dimensional drawing for 24 and 30 MBH capacity units

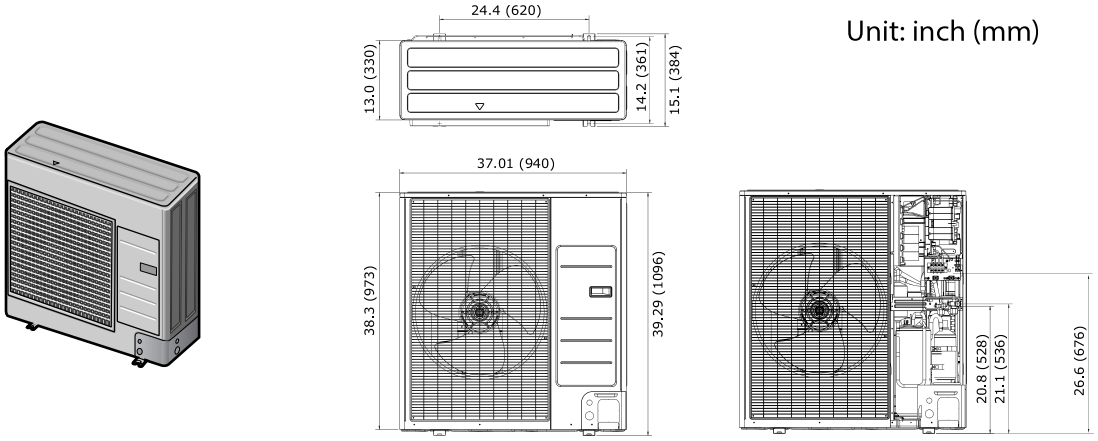
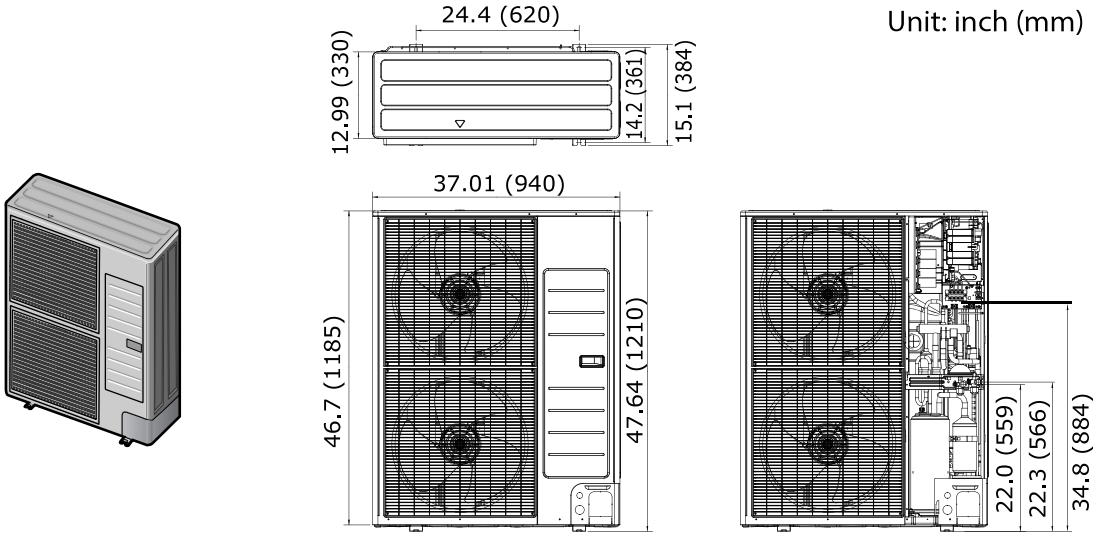


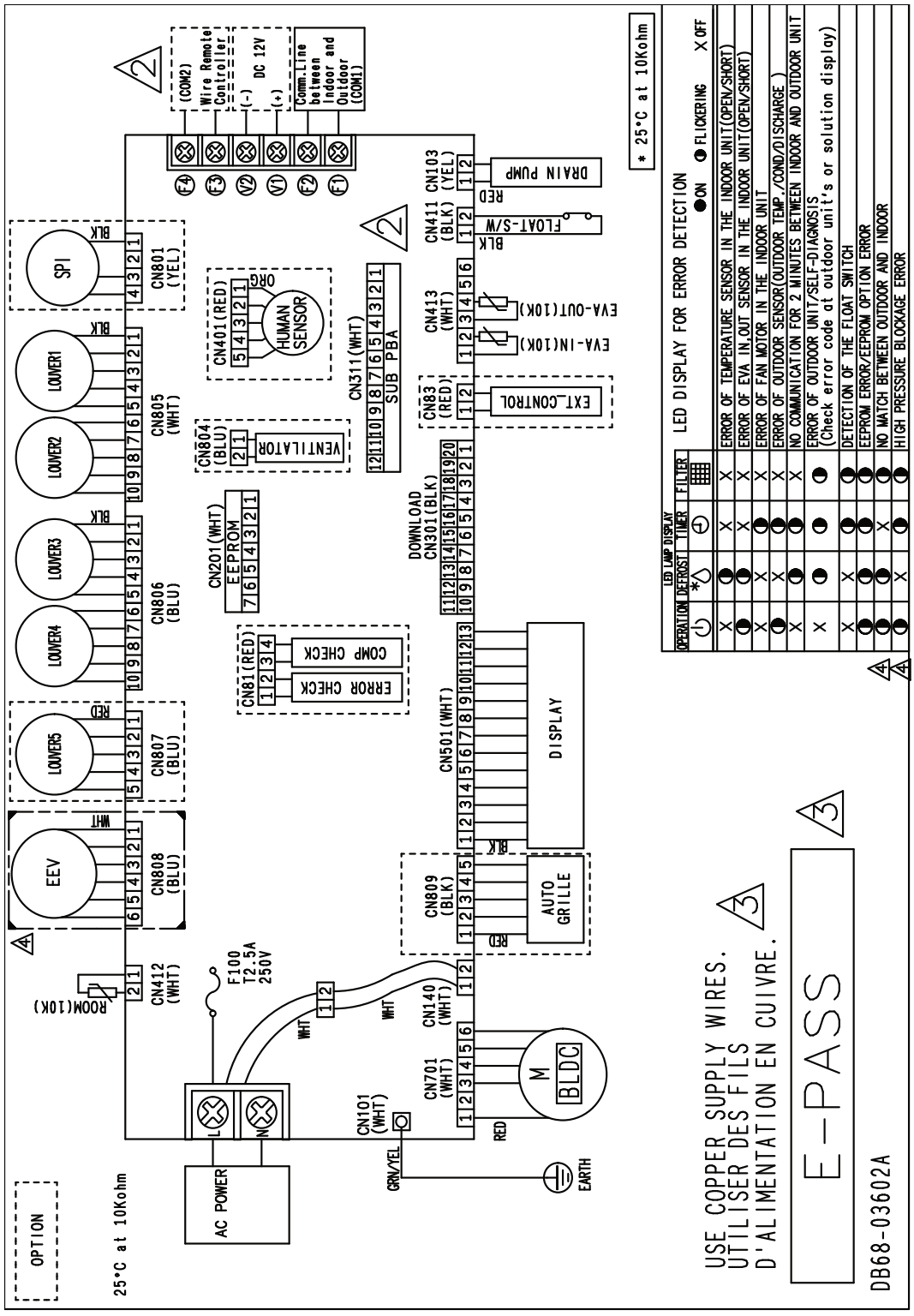
Figure 3. Dimensional drawing for 36, 42, and 48 MBH capacity units



Wiring Diagrams

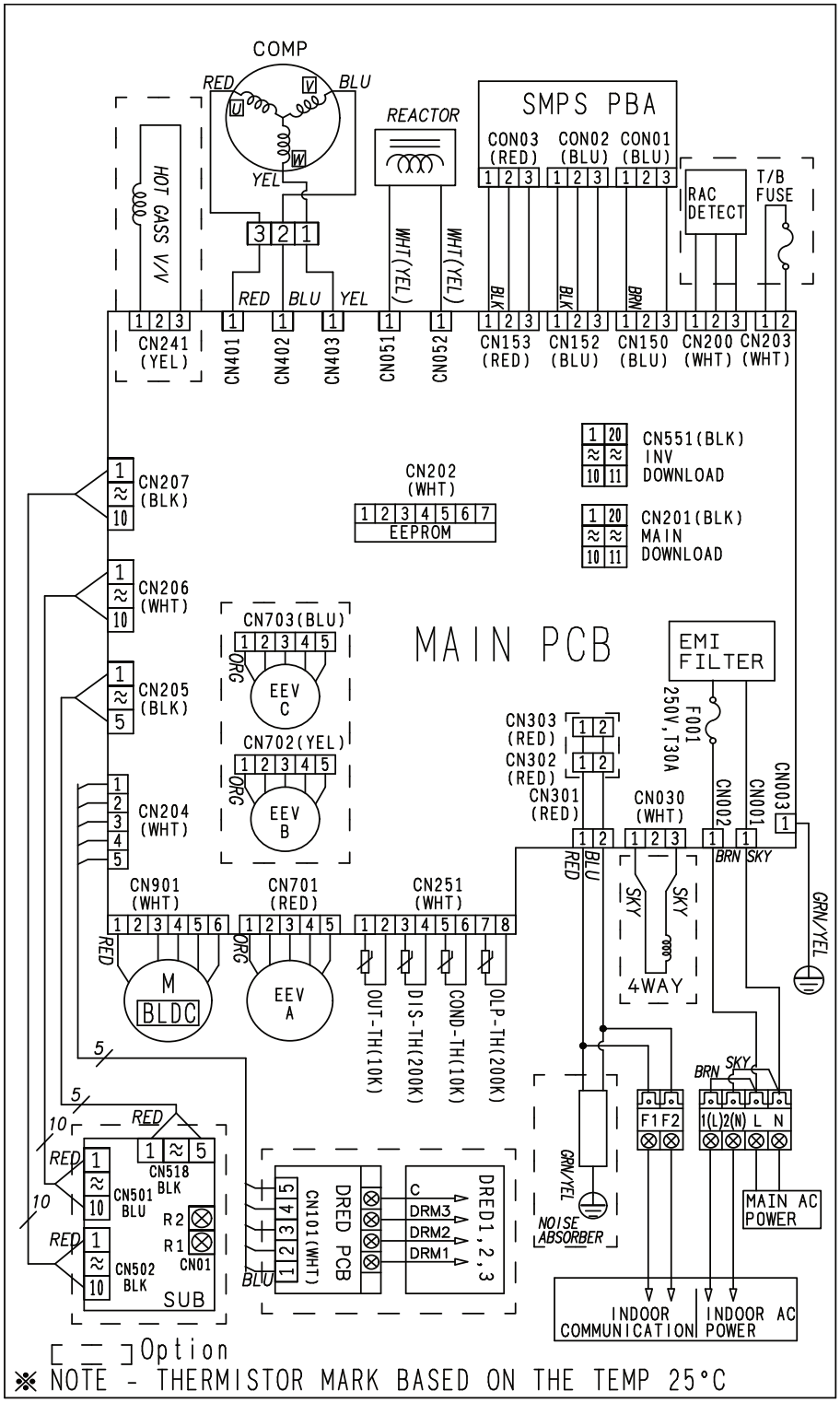
Indoor Unit

4MUC4518A10N0A, 4MUC4524A10N0A, 4MUC4530A10N0A, 4MUC4536A10N0A, 4MUC4542A10N0A, and 4MUC4548A10N0A

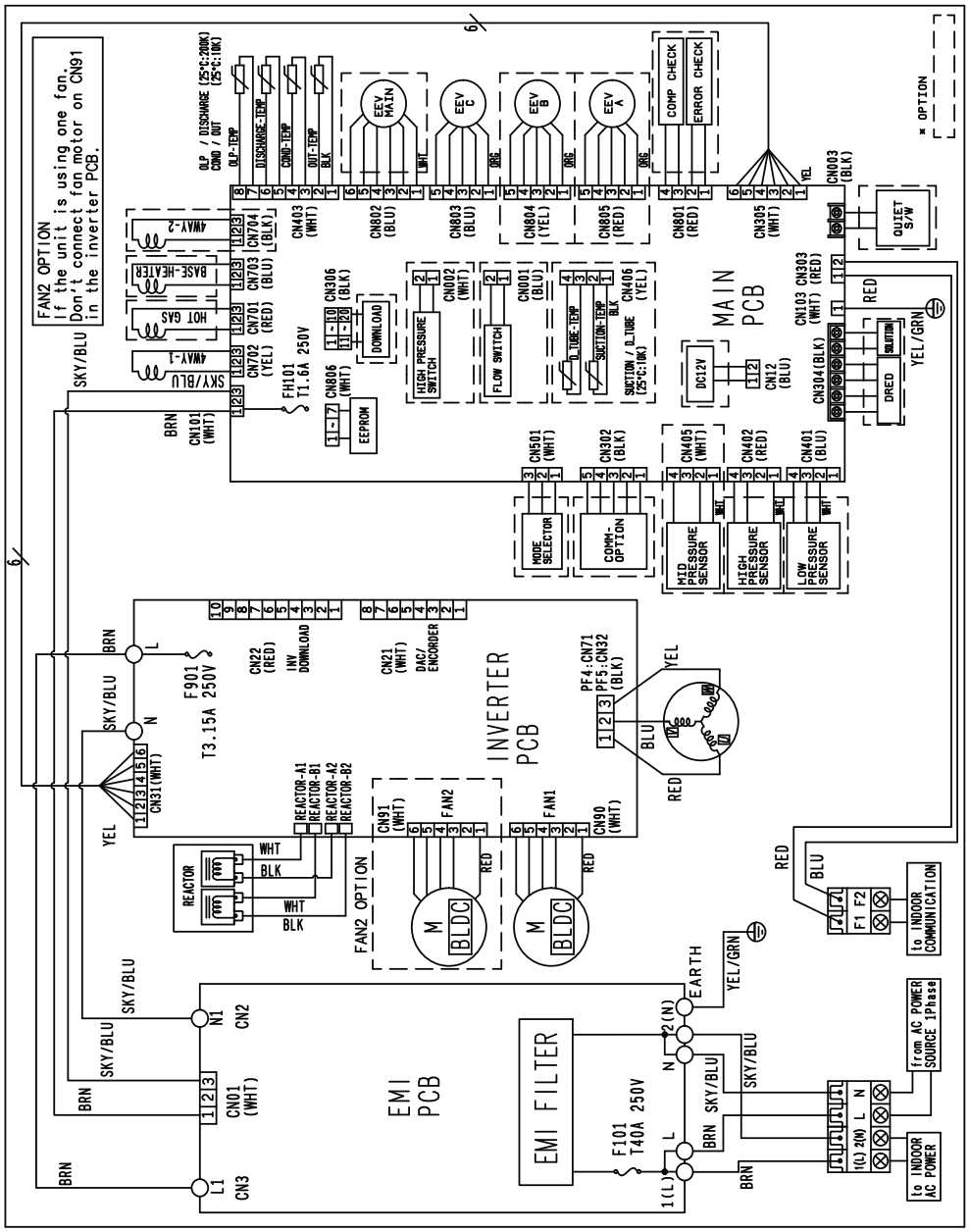


Outdoor Unit

4TUK4518A10N0A



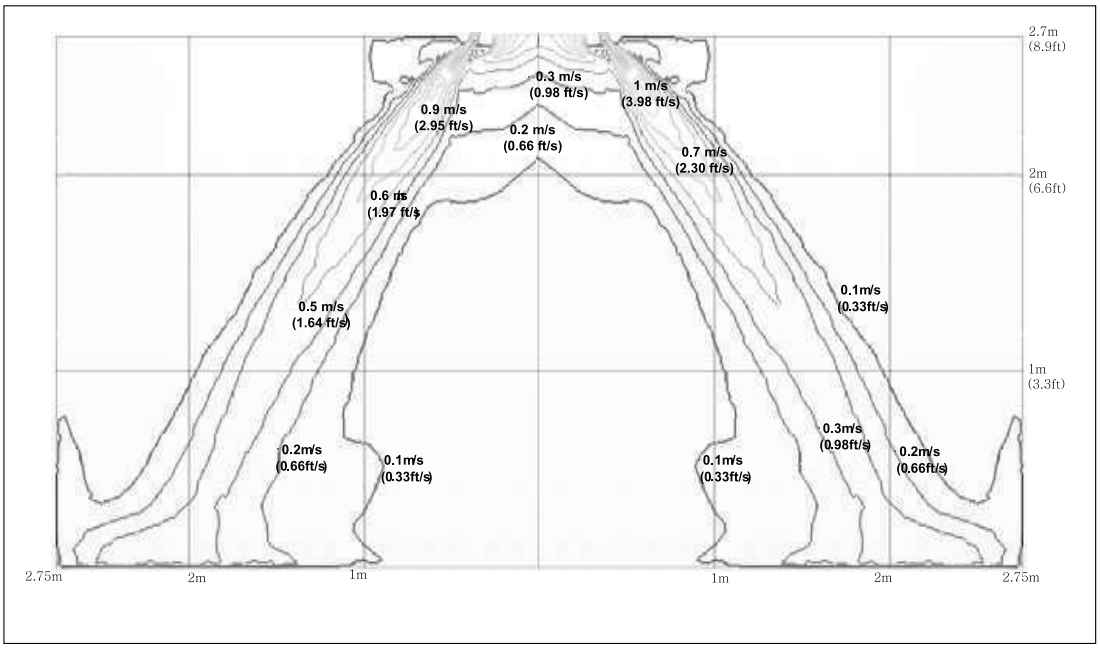
4TUK4524A10N0A, 4TUK4530A10N0A, 4TUK4536A10N0A, 4TUK4542A10N0A, and 4TUK4548A10N0A



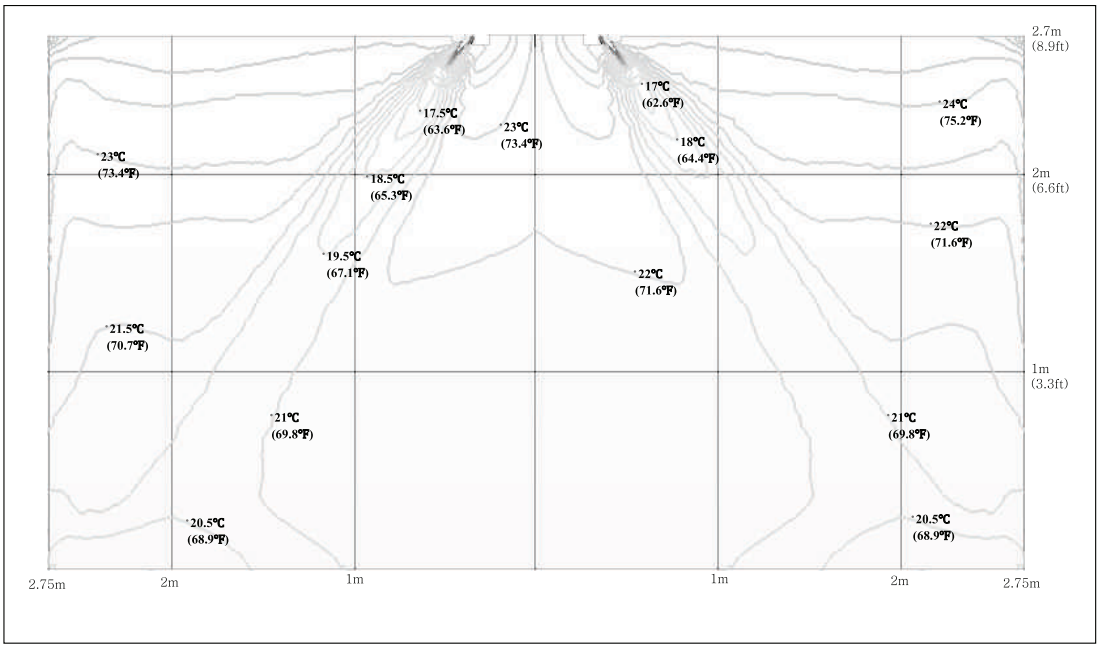
Temperature and Air Flow

4MUC4518A100NA

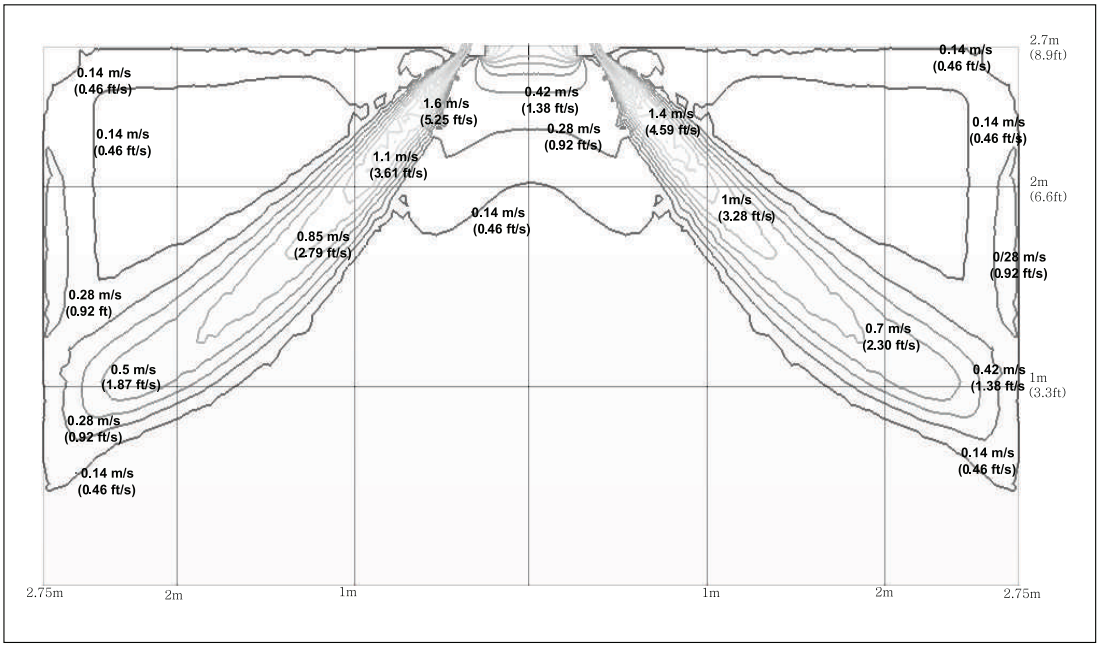
Cooling Air Velocity Distribution



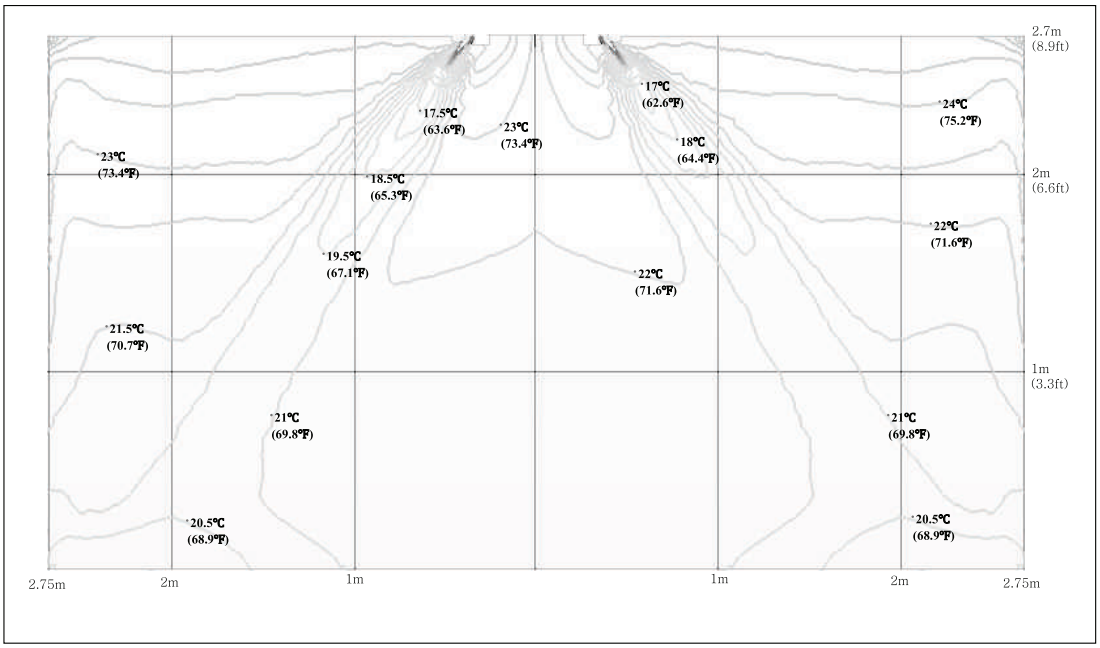
Cooling Temperature Distribution



Heating Air Velocity Distribution

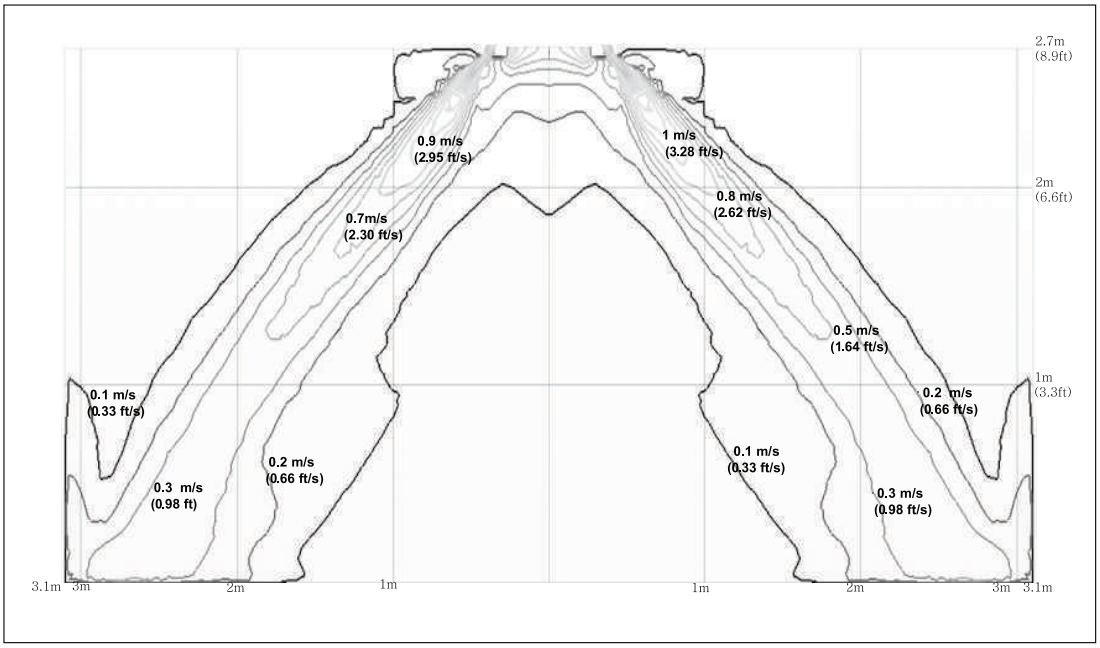


Heating Temperature Distribution

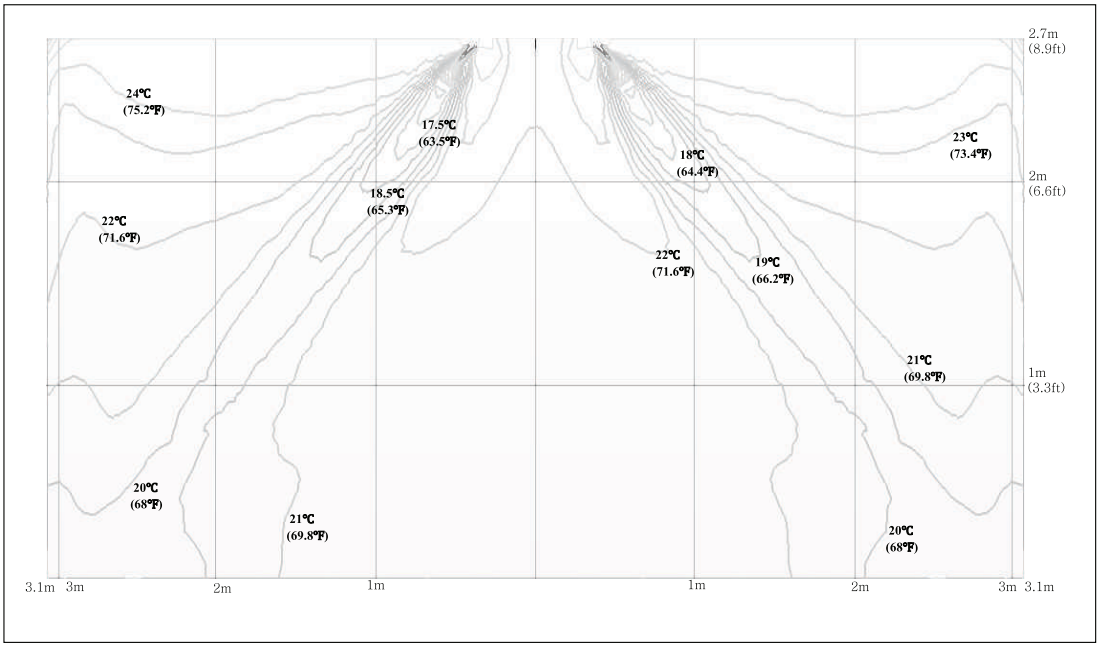


4MUC4524A100NA

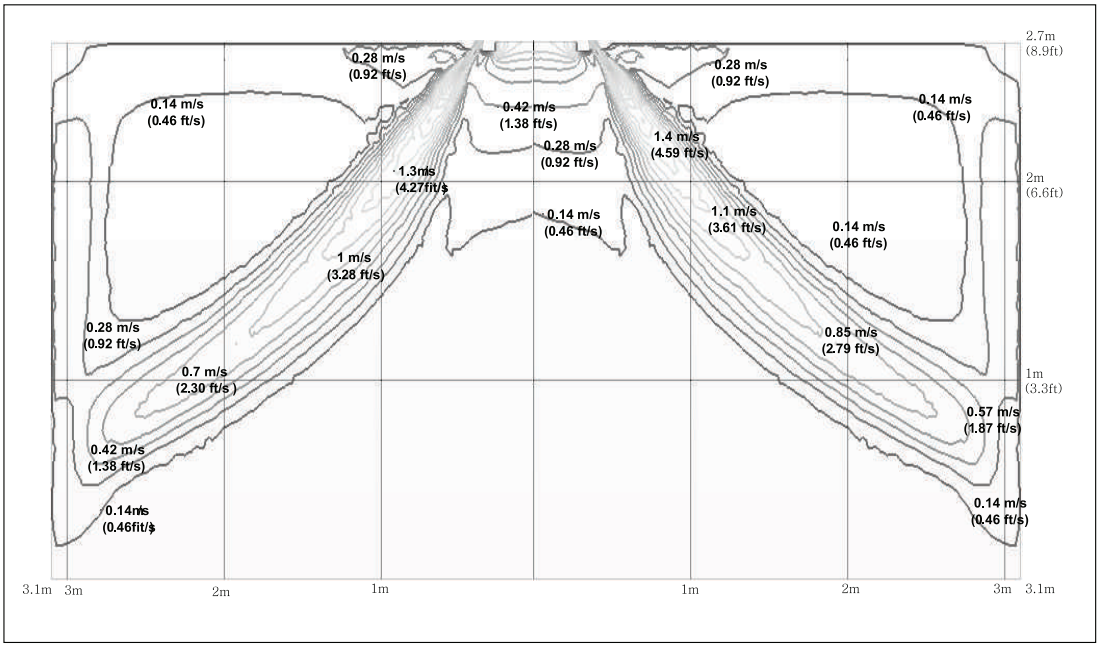
Cooling Air Velocity Distribution



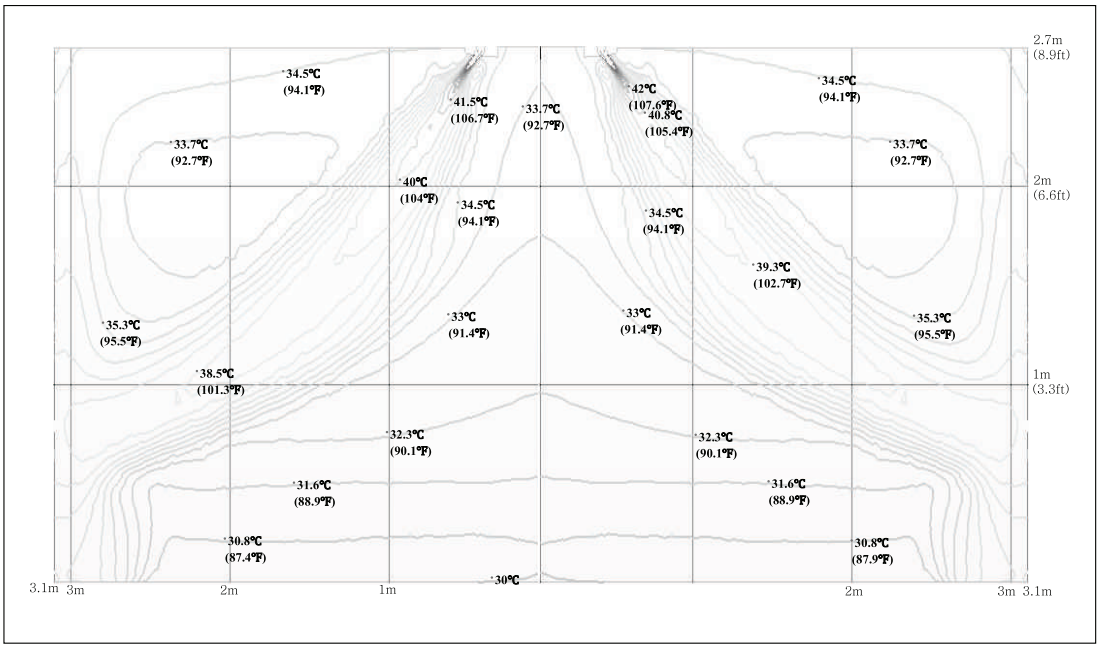
Cooling Temperature Distribution



Heating Air Velocity Distribution



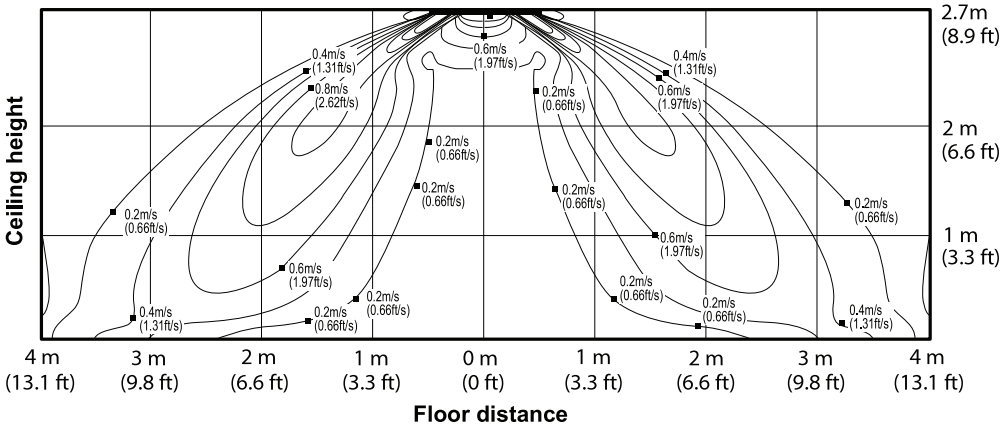
Heating Temperature Distribution



4MUC4530A100NA

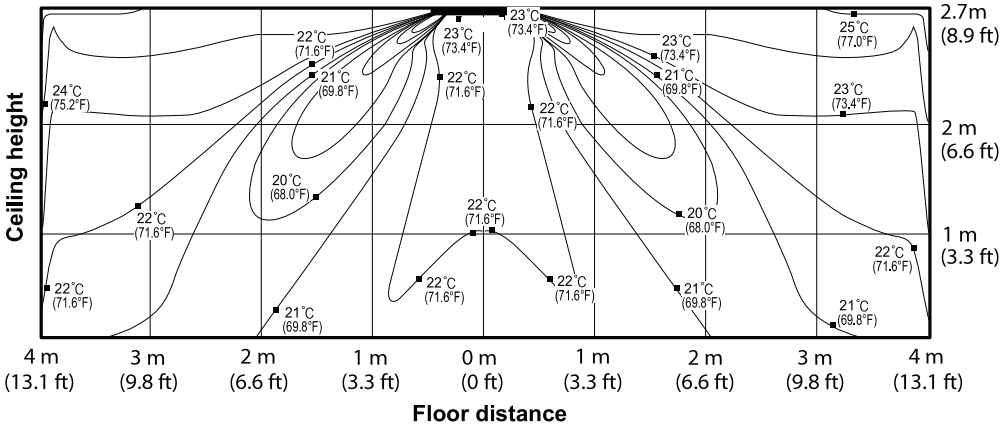
Cooling Air Velocity Distribution

Discharge angle : 45°



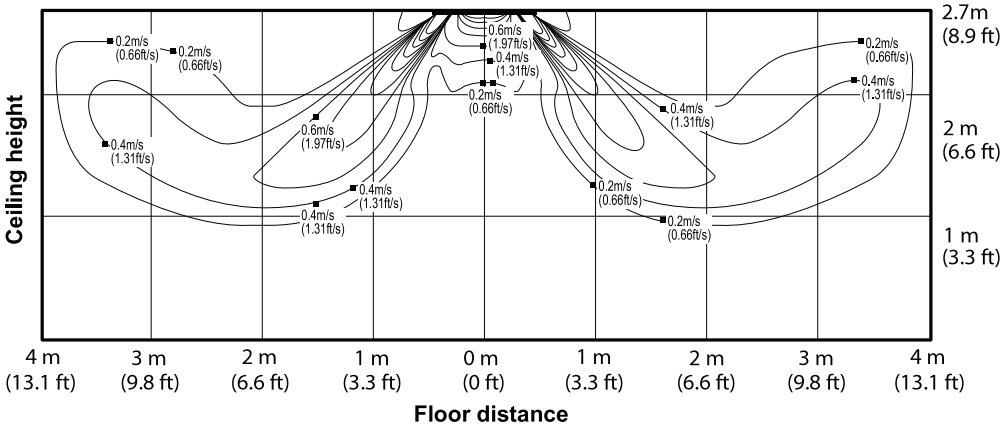
Cooling Temperature Distribution

Discharge angle : 45°



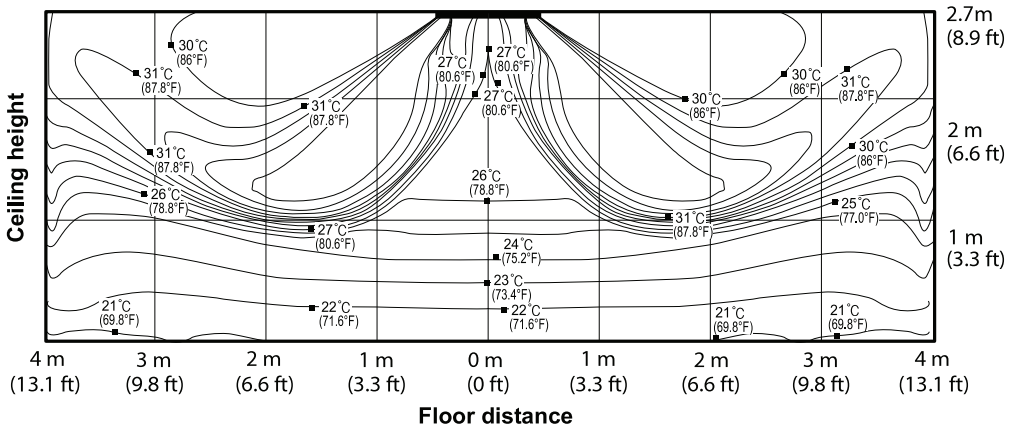
Heating Air Velocity Distribution

Discharge angle : 52°



Heating Temperature Distribution

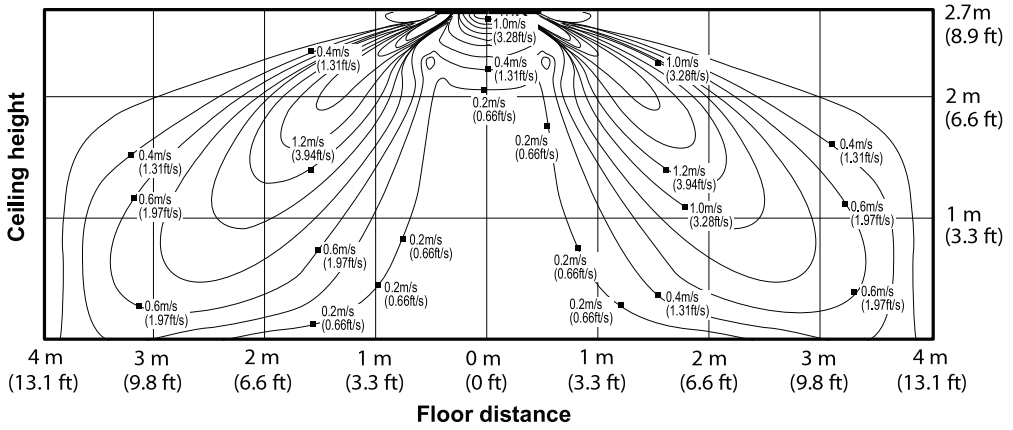
Discharge angle : 52°



4MUC4536A100NA

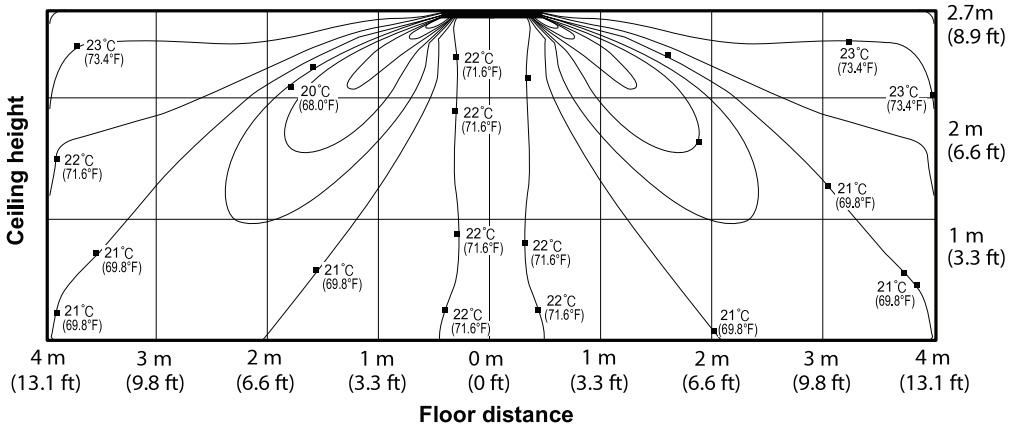
Cooling Air Velocity Distribution

Discharge angle : 45°



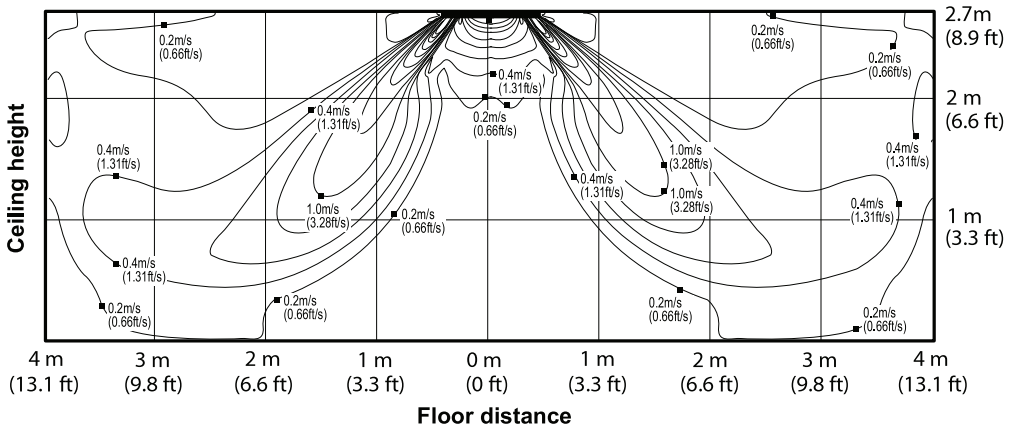
Cooling Temperature Distribution

Discharge angle : 45°



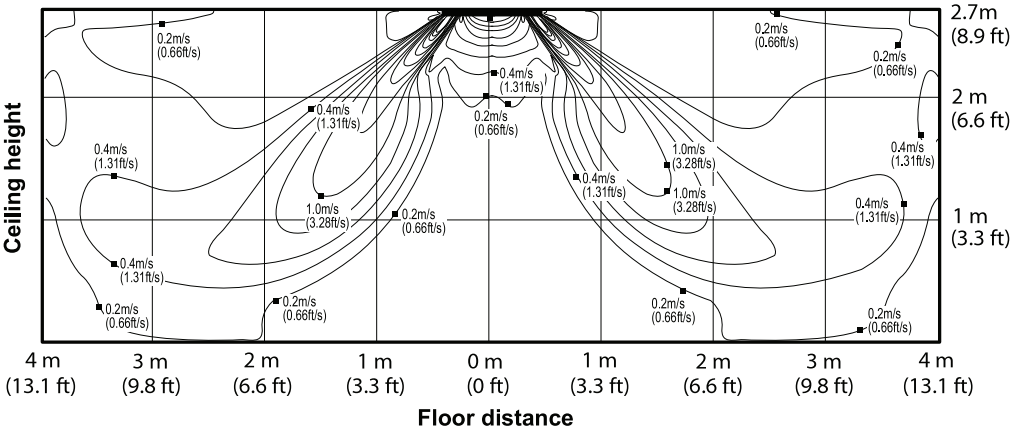
Heating Air Velocity Distribution

Discharge angle : 52°



Heating Temperature Distribution

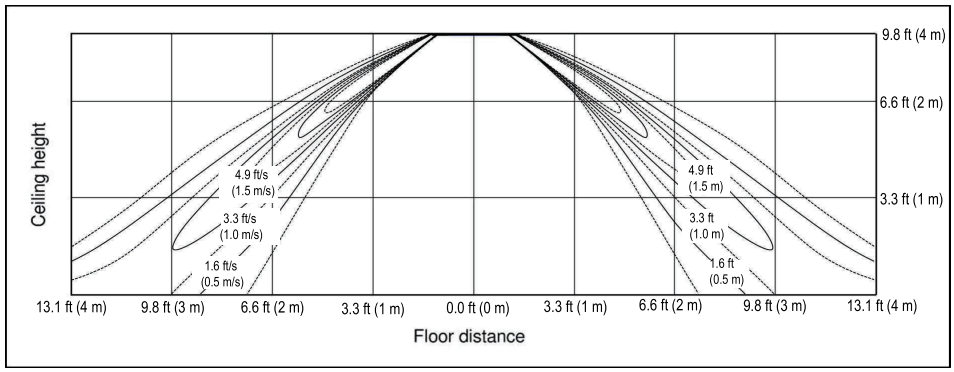
Discharge angle : 52°



4MUC4542A100NA

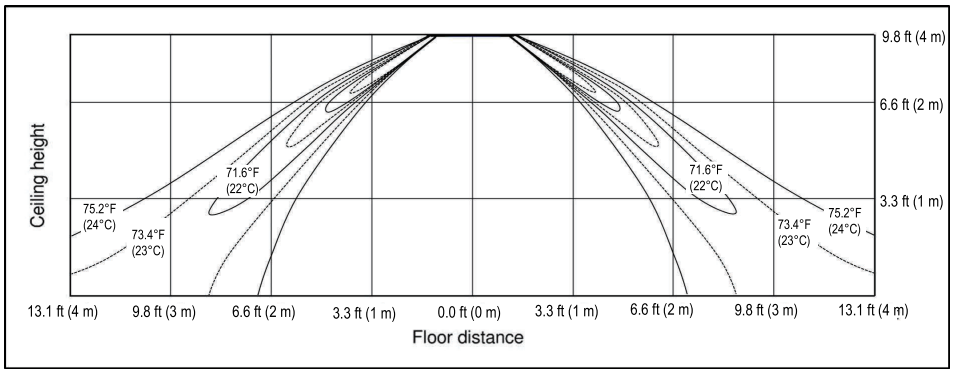
Cooling Air Velocity Distribution

Discharge angle : 38º



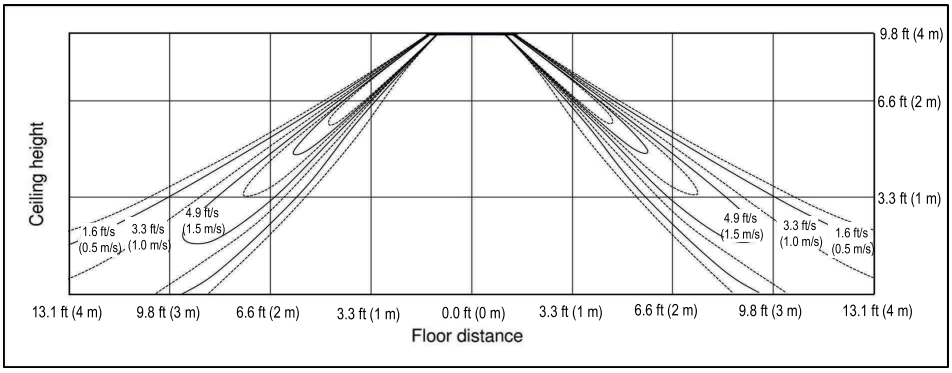
Cooling Temperature Distribution

Discharge angle : 38º



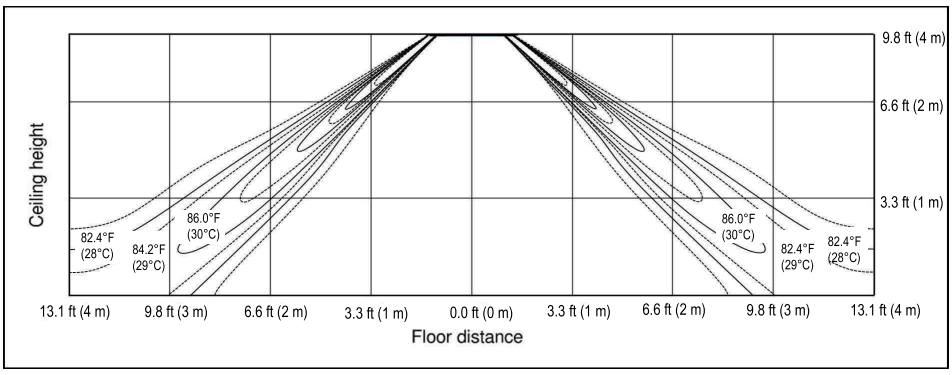
Heating Air Velocity Distribution

Discharge angle : 43º



Heating Temperature Distribution

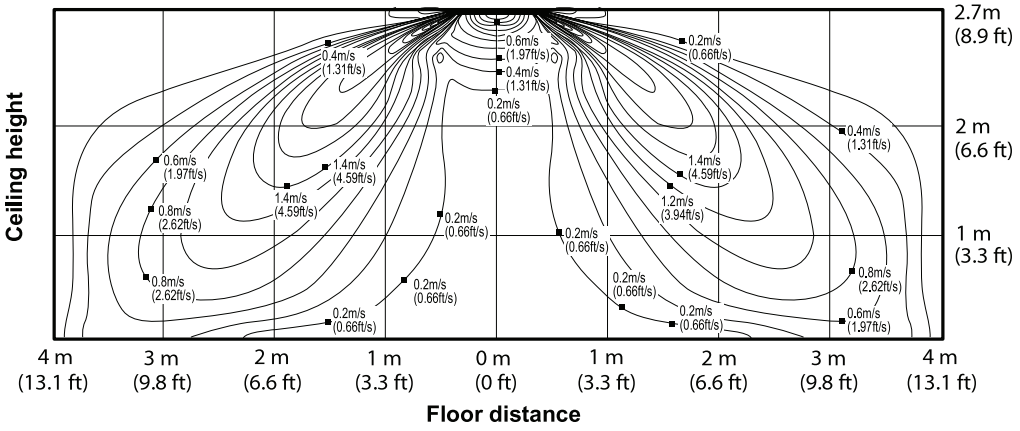
Discharge angle : 43º



4MUC4548A100NA

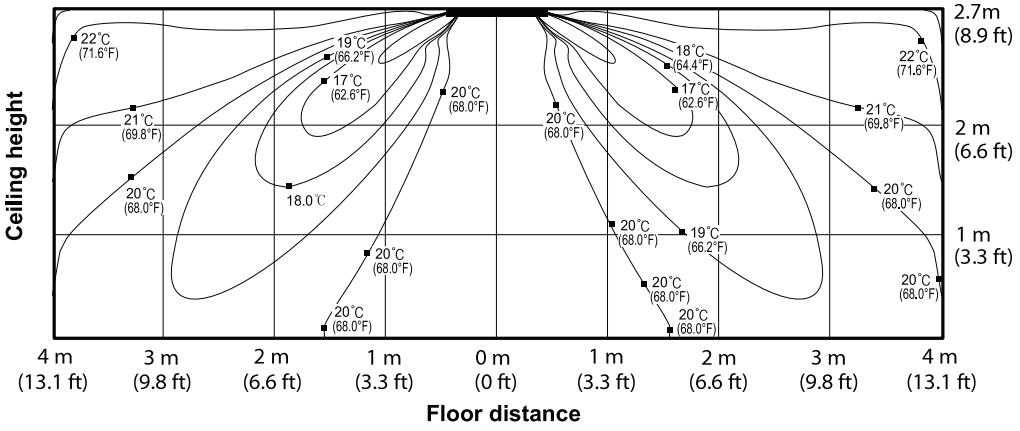
Cooling Air Velocity Distribution

Discharge angle : 45°



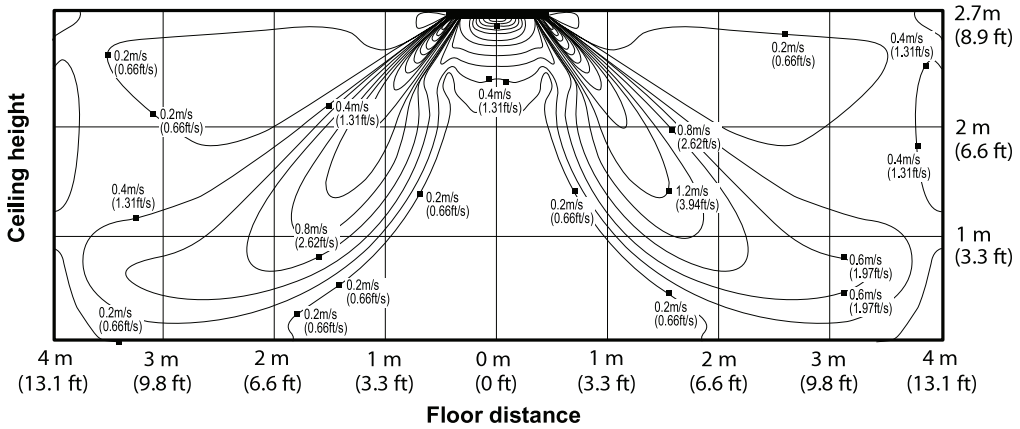
Cooling Temperature Distribution

Discharge angle : 45°



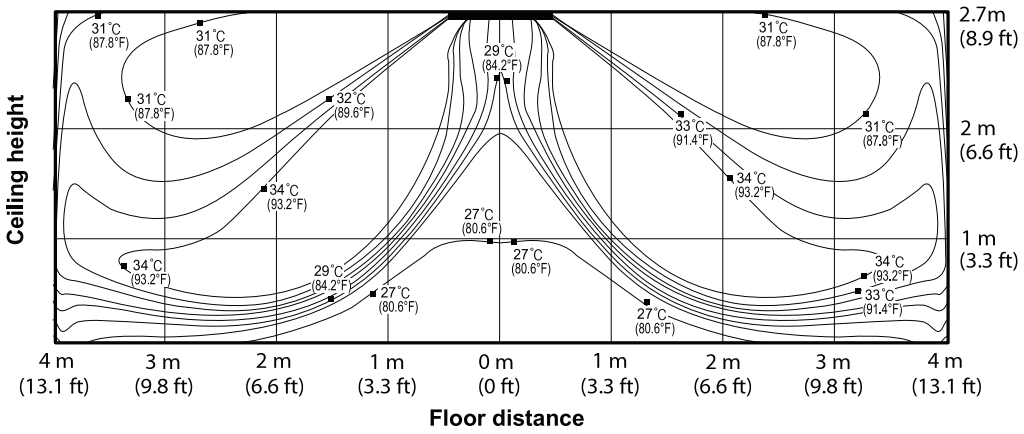
Heating Air Velocity Distribution

Discharge angle : 52°



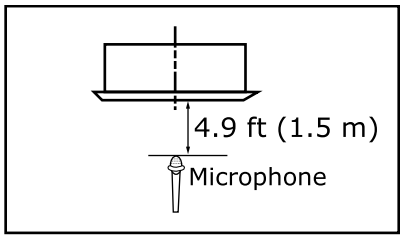
Heating Temperature Distribution

Discharge angle : 52°



Sound Levels

Indoor Unit



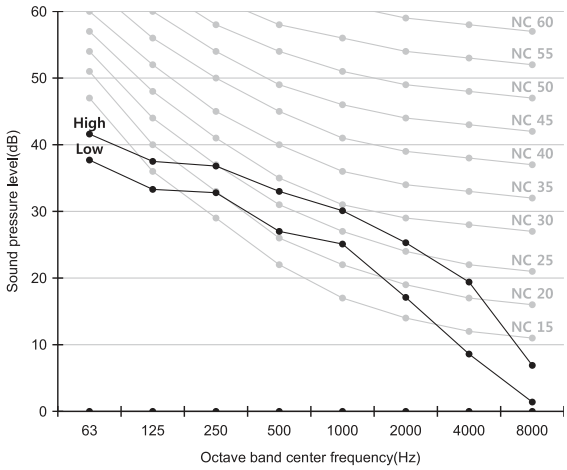
Model		High	Low
Indoor	Outdoor	dBA	
4MUC4518A10N0A	4TUK4518A10N0A	36.0	30.0
4MUC4524A10N0A	4TUK4524A10N0A	36.0	30.0
4MUC4530A10N0A	4TUK4530A10N0A	38.0	32.0
4MUC4536A10N0A	4TUK4536A10N0A	43.0	33.0
4MUC4542A10N0A	4TUK4542A10N0A	44.0	34.0
4MUC4548A10N0A	4TUK4548A10N0A	45.0	35.0

Notes:

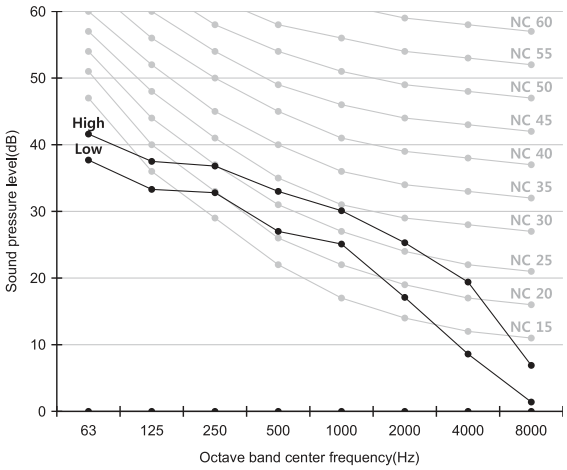
- *These operation values were obtained in an anechoic room. Sound pressure level will vary depending on a range of factors such as the construction of the particular room where the equipment is installed.*
- *Operation sound level may differ depending on operation and ambient conditions.*

NC Curve

4MUC4518A10N0A (ODU: 4TUK4518A10N0A)



4MUC4524A10N0A (ODU: 4TUK4524A10N0A)



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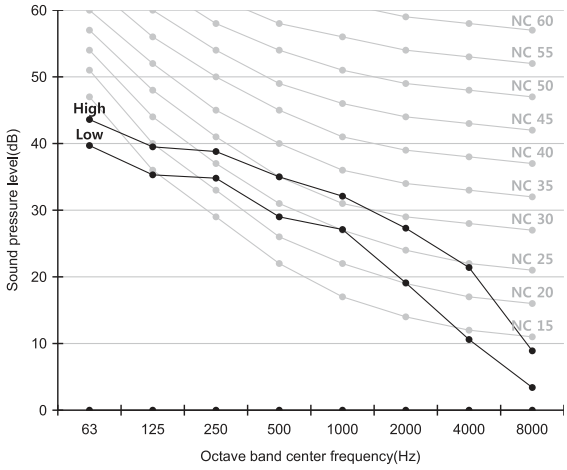
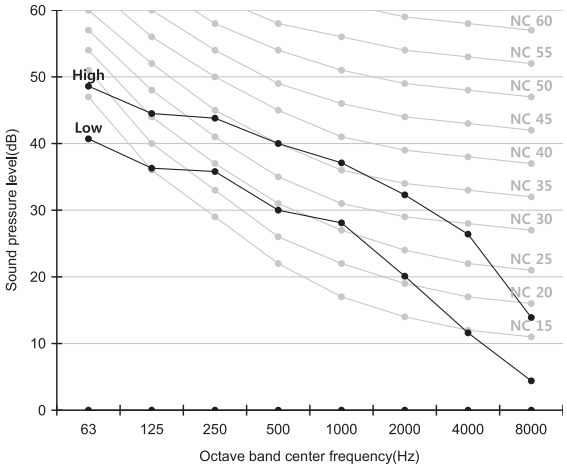
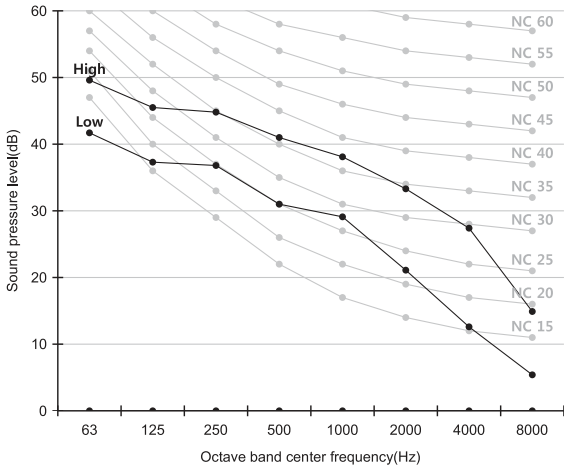


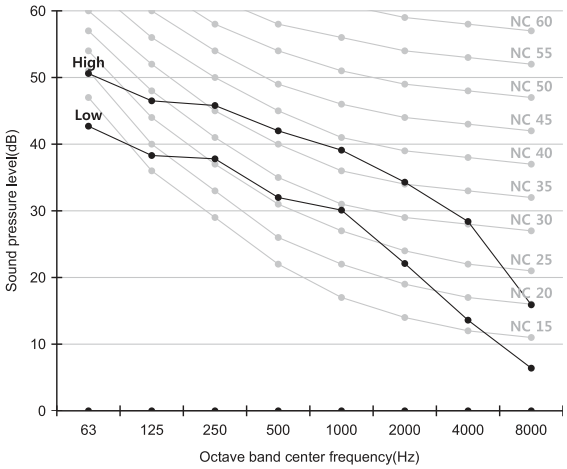
4MUC4536A10N0A (ODU: 4TUK4536A10N0A)



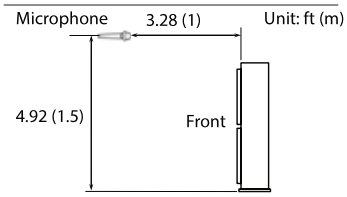
4MUC4542A10N0A (ODU: 4TUK4542A10N0A)



4MUC4548A10N0A (ODU: 4TUK4548A10N0A)



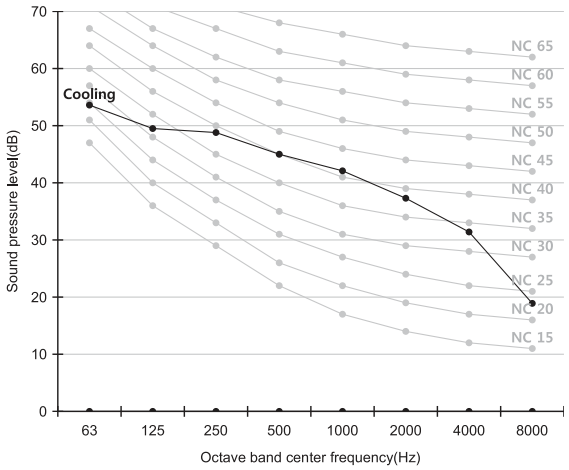
Outdoor Unit



Model		Cooling	Heating
Indoor	Outdoor	dBA	
4MUC4518A10N0A	4TUK4518A10N0A	48.0	48.0
4MUC4524A10N0A	4TUK4524A10N0A	50.0	50.0
4MUC4530A10N0A	4TUK4530A10N0A	50.0	52.0
4MUC4536A10N0A	4TUK4536A10N0A	49.0	51.0
4MUC4542A10N0A	4TUK4542A10N0A	51.0	53.0
4MUC4548A10N0A	4TUK4548A10N0A	53.0	55.0

NC Curve

4TUK4518A10N0A (IDU: 4MUC4518A10N0A)



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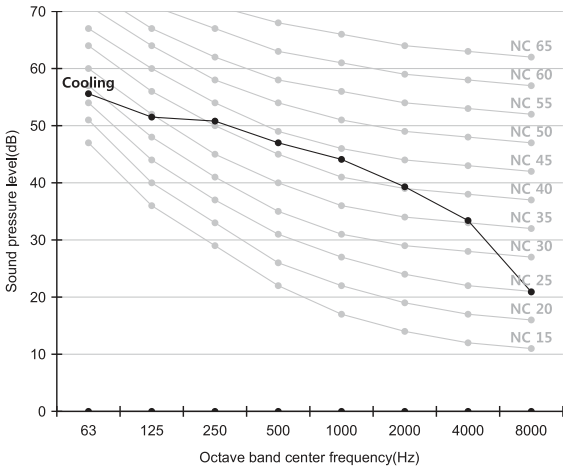
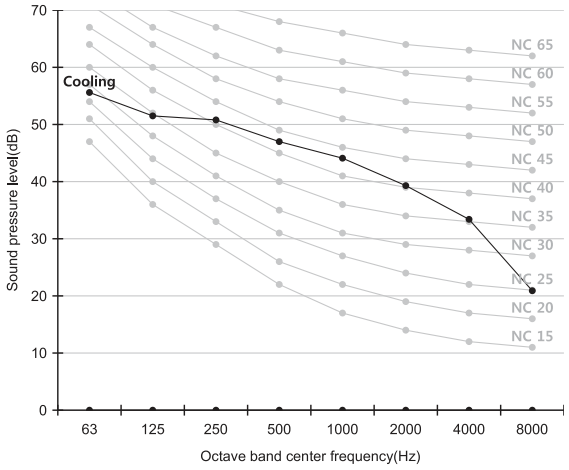
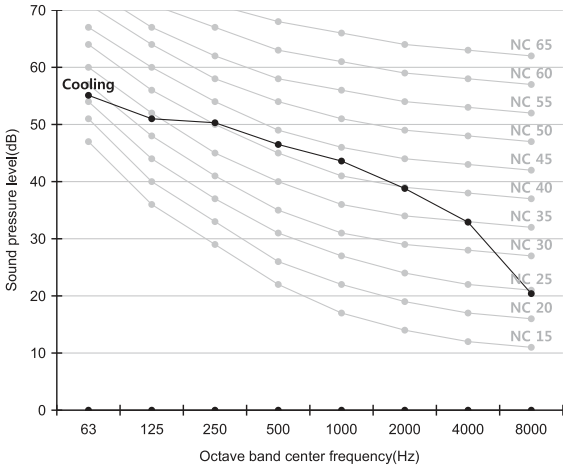


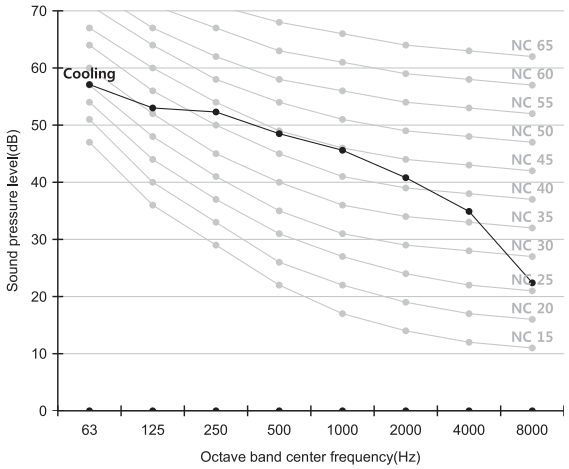
4TUK4530A10N0A (IDU: 4MUC4530A10N0A)



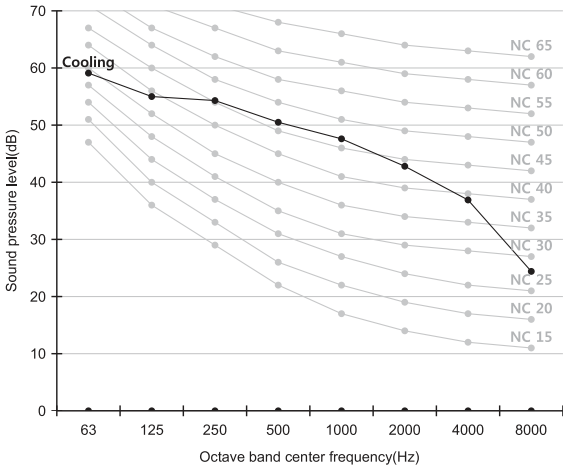
4TUK4536A10N0A (IDU: 4MUC4536A10N0A)



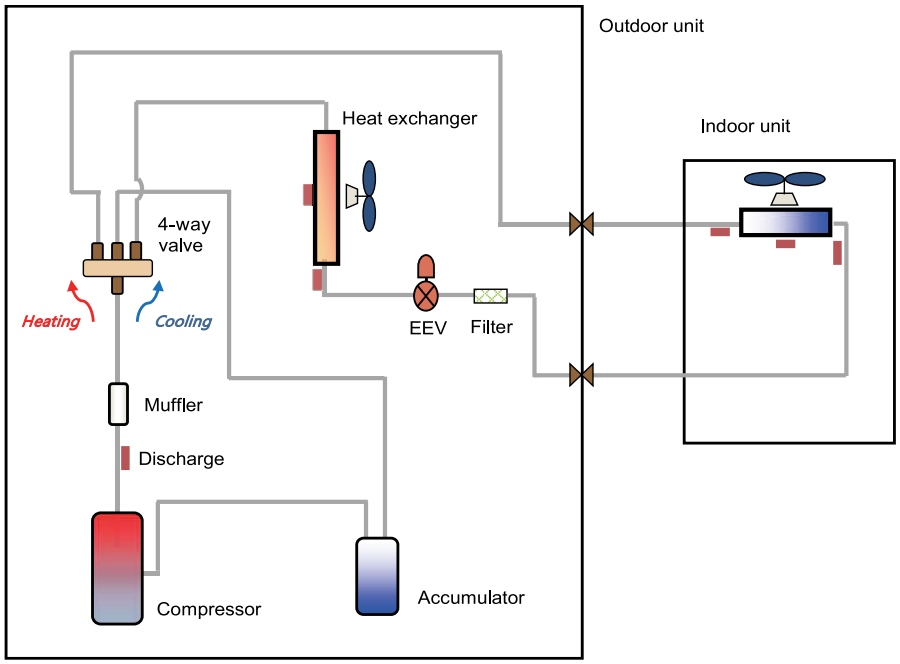
4TUK4542A10N0A (IDU: 4MUC4542A10N0A)



4TUK4548A10N0A (IDU: 4MUC4548A10N0A)



Refrigerant Cycle Diagram



Category		Symbol	Description
Compressor			Rotary inverter compressor
Heat exchanger			Condensing/evaporating unit
Accumulator			Accumulator
Filter			Filter
Valve	Expansion		Electronic expansion valve (EEV)
	Reversing		4-way valve (reversing valve)
	Service		Service valve
Sensor	Temperature		Pipe/air temperature sensor

Capacity Correction Tables

4MUC4518A10N0A and 4TUK4518A10N0A

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

4MUC4524A10N0A and 4TUK4524A10N0A

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

4MUC4530A10N0A and 4TUK4530A10N0A

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

4MUC4536A10N0A and 4TUK4536A10N0A

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

4MUC4542A10N0A and 4TUK4542A10N0A

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

4MUC4548A10N0A and 4TUK4548A10N0A

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

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MS-PRC019A-EN 22 Sep 2015
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