Product Catalog

C-Series

Low Ambient Cooling Indoor and Outdoor Units

Indoor Models:
4MUW4518A10N0*
4MUW4524A10N0*
4MUW4530A10N0*
4MUW4536A10N0*

Outdoor Models:
4TUK4518A10N0*
4TUK4524A10N0*
4TUK4530A10N0*
4TUK4536A10N0*

February 2018

MS-PRC037A-EN

Introduction

Read this manual thoroughly before operating or servicing this unit.

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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

W = High-wall

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

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

L = Low ambient cooling only unit

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

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						
		18	20	24	27	30	32	36
High wall unit		X		X		x		x

Controls

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

Commissioning Utility Kits

Type	Model Number
VRF Technician Utilities Tool (TUT)	TVCTRLTIMC0300

Accessories

Family	Description	Model Number
Wind Baffles	4TUK4518A10N0A	CSERWINDBFL18A
	4TUKL518A10N0A	CSERWINDB4018A
	4TUK4524A10N0A 4TUK4530A10N0A 4TUKL524A10N0A 4TUKL530A10N0A 4TUKL536A10N0A	CSERWINDBFL24A
	4TUK4536A10N0A	CSERWINDBFL36A

Product Specification

Table 1. Product Specification: 4MUW4518A10N0* and 4MUW4524A10N0*

Model Name		Indoor Unit			4MUW4518A10N0*	4MUW4524A10N0*
		Outdoor Unit			4TUK4518A10N0*	4TUK4524A10N0*
System	Mode			-	Cooling Only	Cooling Only
	Performance	Capacity (min/std/max)	Cooling	Btu/h	4,000 / 18,000 / 20,000	7,000 / 24,000 / 27,000
			Heating	Btu/h	-	-
	Power	Power Input (min/std/max)	Cooling	kW	0.23 / 1.99 / 2.42	0.32 / 2.27 / 3.5
			Heating		-	-
		Current input (min/std/max)	Cooling	A	1.5 / 8.5 / 10.5	1.8 / 10.0 / 15.0
			Heating		-	-
		Current	MCA	A	10	14
			MOP		15	20
	Energy efficiency	EER	Cooling	(Btu/h)/W	9.05	10.57
		COP	Heating	W/W	-	-
		SEER		-	18.8	18.3
	Piping connections	Liquid pipe		Type	Flare connection	Flare connection
				inch	1/4	1/4
		Gas pipe		Type	Flare connection	Flare connection
				inch	1/2	5/8
		Heat insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	ft	24.6	24.6
			Max.	ft	98.4	164.0
			Elevation	ft	65.6	98.4
			Chargeless	ft	24.6	24.6
	Wiring connections	Communication	Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Refrigerant	Type		-	R410A	R410A
		Control method		-	EEV	EEV
		Factory charging		lbs	2.87	4.41

Table 1. Product Specification: 4MUW4518A10N0* and 4MUW4524A10N0* (continued)

Model Name		Indoor Unit				4MUW4518A10N0*	4MUW4524A10N0*
		Outdoor Unit				4TUK4518A10N0*	4TUK4524A10N0*
Indoor unit	Power supply				C, #,V, Hz	1,2,208-230,60	1,2,208-230,60
	Heat exchanger	Type			-	Fin & tube	Fin & tube
		Material		Fin	-	Al	Al
				Tube	-	Cu	Cu
		Fin treatment			-	Silica	Silica
	Fan	Type			-	Crossflow fan	Crossflow fan
		Quantity			EA	1	1
		Air flow rate		H/M/L	CMM	11.5 /9.5 /7.5	15.6 / 13.5 / 11.6
					CFM	406 / 336 / 265	551 / 477 / 410
					l/s	192 / 158 / 125	260 / 225 / 193
	Fan motor	Type			-	BLDC motor	BLDC motor
		Output			Wxn	27 x 1	27 x 1
	Drain	Drain pipe			inch	ID 5/8	ID 5/8
	Sound	Sound pressure	High/mid/low/(silent)		dB(A)	42 / 37 / 32 / 29	43 / 39 / 35 / 32
		Sound power	Cooling std high		dB(A)	-	-
	External dimension	Net weight			lbs	24	32
		Shipping weight			lbs	27	37
		Net dimensions (WxHxD)			inch	35-3/8 x 10-3/8 x 10-3/8	41-7/8 x 11-7/8 x 11-5/8
		Shipping dimensions (WxHxD)			inch	37-5/8 x 12-1/2 x 13-1/4	44-1/4 x 13-7/8 x 15-1/8
	Casing	Material			-	HIPS	HIPS
	Control System	Infrared hand-held remote			-	TVCTRLTRDH00U*	TVCTRLTRDH00U*
		Wired remote control			-	TVCTRLTRTWRWD02*	TVCTRLTRTWRWD02*

Table 1. Product Specification: 4MUW4518A10N0* and 4MUW4524A10N0* (continued)

Model Name		Indoor Unit				4MUW4518A10N0*	4MUW4524A10N0*
		Outdoor Unit				4TUK4518A10N0*	4TUK4524A10N0*
Outdoor unit	Power supply				C, #,V, Hz	1,2,208-230,60	1,2,208-230,60
	Heat exchanger	Type		-		Fin & Tube	Fin & Tube
		Material	Fin	-		Al	Al
			Tube	-		Cu	Cu
		Fin treatment		-		Anti-corrosion	Anti-corrosion
	Compressor	Model name		-		Twin BLDC	Twin BLDC
		Type		-		UG9TK3150FE4	UG4T200FUAE4
		Output		kW		1.42	1.79
		Oil	Type	-		PVE	PVE
			Initial charge	cc		500	650
	Fan	Type		-		Propeller	Propeller
		Discharge direction		-		Front	Front
		Quantity		EA		1	1
		Air flow rate		CMM		40	51
				CFM		1,412	1,801
				l/s		667	850
	Fan Motor	Type		-		BLDC motor	BLDC motor
		Output		Wxn		125 x 1	125 x 1
	Sound	Sound pressure cooling		dB(A)		48	50
	External dimension	Net weight		lbs		94	115
		Shipping weight		lbs		101	122
		Net dimensions (WxHxD)		inch		34-5/8 x 25-1/8 x 12-1/4	34-5/8 x 25-1/8 x 12-1/4
		Shipping dimensions (WxHxD)		inch		40-3/8 x 28-3/4 x 16-3/8	40-3/8 x 35-7/8 x 16-3/8

Table 1. Product Specification: 4MUW4518A10N0* and 4MUW4524A10N0* (continued)

Model Name		Indoor Unit				4MUW4518A10N0*	4MUW4524A10N0*
		Outdoor Unit				4TUK4518A10N0*	4TUK4524A10N0*
Outdoor unit (continued)	Casing	Material	Body	-		EGI steel plate	EGI steel plate
	Operating Temp. Range	Cooling	Standard range	( )		23°F (-5°C) — 115°F (46°C)	23°F (-5°C) — 115°F (46°C)
			Range with wind baffle	( )		-40°F(-40°C) — 115°F (46°C)	-40°F(-40°C) — 115°F (46°C)

Notes:

- *Specification may be subject to change without prior notice.*
- *Capacities are based on equivalent refrigerant piping 24.6 ft, level differences 0 ft*
- ***Indoor temperature** : 80°F(26.7°C) DB, 67°F(19.4°C) WB /*
- ***Outdoor temperature** : 95°F(35°C) DB, 75°F (23.9°C) WB*
- *Select wire size based on the value of MCA*
- *Sound pressure level is obtained in an anechoic room.*
  - *Sound pressure level is a relative value, depending on the distance and acoustic environment.*
  - *Sound pressure level may differ depending on operation condition.*
  - *dBA = A-weighted sound pressure level*
  - *Reference acoustic pressure 0 dB = 20uPa*
- *Sound power level is an absolute value that a sound source generates.*
  - *dBA = A-weighted sound power level*
  - *Reference power : 1pW*
  - *Measured according to ISO 3741*

Table 2. Product Specification: 4MUW4530A10N0* and 4MUW4536A10N0*

Model Name		Indoor Unit			4MUW4530A10N0*	4MUW4536A10N0*
		Outdoor Unit			4TUK4530A10N0*	4TUK4536A10N0*
System	Mode			-	Cooling Only	Cooling Only
	Performance	Capacity (min/std/max)	Cooling	Btu/h	9,000 / 30,000 / 37,000	10,000 / 36,000 / 38,000
			Heating	Btu/h	-	-
	Power	Power Input (min/std/max)	Cooling	kW	0.55 / 2.94 / 4.8	0.6 / 4.44 / 4.8
			Heating		-	-
		Current input (min/std/max)	Cooling	A	2.7 / 13.1 / 21.0	3.0 / 19.5 / 21.0
			Heating		-	-
		Current	MCA	A	24	26.5
			MOP		30	40
	Energy efficiency	EER	Cooling	(Btu/h)/W	10.2	8.11
		COP	Heating	W/W	-	-
		SEER		-	19.7	18
	Piping connections	Liquid pipe		Type	Flare connection	Flare connection
				inch	3/8	3/8
		Gas pipe		Type	Flare connection	Flare connection
				inch	5/8	5/8
		Heat insulation		-	Both liquid and gas pipes	Both liquid and gas pipes
		Piping length (ODU-IDU)	Standard	ft	24.6	24.6
			Max.	ft	164.0	164.0
			Elevation	ft	98.4	98.4
			Chargeless	ft	24.6	24.6
	Wiring connections	Communication	Min.	mm²	0.75	0.75
			Remark	-	F1, F2	F1, F2
	Refrigerant	Type		-	R410A	R410A
		Control method		-	EEV	EEV
		Factory charging		lbs	5.29	5.29

Table 2. Product Specification: 4MUW4530A10N0* and 4MUW4536A10N0* (continued)

Model Name		Indoor Unit				4MUW4530A10N0*	4MUW4536A10N0*
		Outdoor Unit				4TUK4530A10N0*	4TUK4536A10N0*
Indoor unit	Power supply				C, #,V, Hz	1,2,208-230,60	1,2,208-230,60
	Heat exchanger	Type			-	Fin & tube	Fin & tube
		Material		Fin	-	Al	Al
				Tube	-	Cu	Cu
		Fin treatment			-	Silica	Silica
	Fan	Type			-	Crossflow fan	Crossflow fan
		Quantity			EA	1	1
		Air flow rate		H/M/L	CMM	22.0 / 20.5 / 19.0	23.5 / 21.3 / 19.8
					CFM	777 / 724 / 671	830 / 752 / 699
					l/s	367 / 342 / 317	392 / 355 / 330
	Fan motor	Type			-	BLDC motor	BLDC motor
		Output			Wxn	58 x 1	58 x 1
	Drain	Drain pipe			Inch	ID 5/8	ID 5/8
	Sound	Sound pressure	High/mid/low/(silent)		dB(A)	49 / 47 / 45 / 37	51 / 48 / 46 / 38
		Sound power	Cooling std high		dB(A)	-	-
	External dimension	Net weight			lbs	41	41
		Shipping weight			lbs	48	48
		Net dimensions (WxHxD)			inch	50-3/8 x 13-5/8 x 10	50-3/8 x 13-5/8 x 10
		Shipping dimensions (WxHxD)			inch	53-1/4 x 12-7/8 x 16-1/2	53-1/4 x 12–7/8 x 16-1/2
	Casing	Material			-	HIPS	HIPS
	Control System	Infrared hand-held remote			-	TVCTRLTRDH00U*	TVCTRLTRDH00U*
		Wired remote control			-	TVCTRLTRTWRWD02*	TVCTRLTRTWRWD02*

Table 2. Product Specification: 4MUW4530A10N0* and 4MUW4536A10N0* (continued)

Model Name		Indoor Unit				4MUW4530A10N0*	4MUW4536A10N0*
		Outdoor Unit				4TUK4530A10N0*	4TUK4536A10N0*
Outdoor unit	Power supply				C, #,V, Hz	1,2,208-230,60	1,2,208-230,60
	Heat exchanger	Type		-		Fin & Tube	Fin & Tube
		Material	Fin	-		Al	Al
			Tube	-		Cu	Cu
		Fin treatment		-		Anti-corrosion	Anti-corrosion
	Compressor	Model name		-		Twin BLDC	Twin BLDC
		Type		-		UG8T300FUBJU	UG8T300FUBJU
		Output		kW		2.82	2.82
		Oil	Type	-		PVE	PVE
			Initial charge	cc		1200	1200
	Fan	Type		-		Propeller	Propeller
		Discharge direction		-		Front	Front
		Quantity		EA		1	1
		Air flow rate		CMM		78	78
				CFM		2,754	2,754
				l/s		1,300	1,300
	Fan Motor	Type		-		BLDC motor	BLDC motor
		Output		Wxn		125 x 1	125 x 1
	Sound	Sound pressure cooling		dB(A)		52	54
	External dimension	Net weight		lbs		160	160
		Shipping weight		lbs		168	168
		Net dimensions (WxHxD)		inch		37 x 39-3/8 x 13	37 x 47-5/8 x 13
		Shipping dimensions (WxHxD)		inch		39-1/4 x 43-1/8 x 16-7/8	9-1/4 x 43-1/8 x 16-7/8

Table 2. Product Specification: 4MUW4530A10N0* and 4MUW4536A10N0* (continued)

Model Name		Indoor Unit				4MUW4530A10N0*	4MUW4536A10N0*
		Outdoor Unit				4TUK4530A10N0*	4TUK4536A10N0*
Outdoor unit (continued)	Casing	Material	Body	-		EGI steel plate	EGI steel plate
	Operating Temp. Range	Cooling	Standard range	( )		23°F (-5°C) — 115°F (46°C)	23°F (-5°C) — 115°F (46°C)
			Range with wind baffle	( )		-40°F(-40°C) — 115°F (46°C)	-40°F(-40°C) — 115°F (46°C)

Notes:

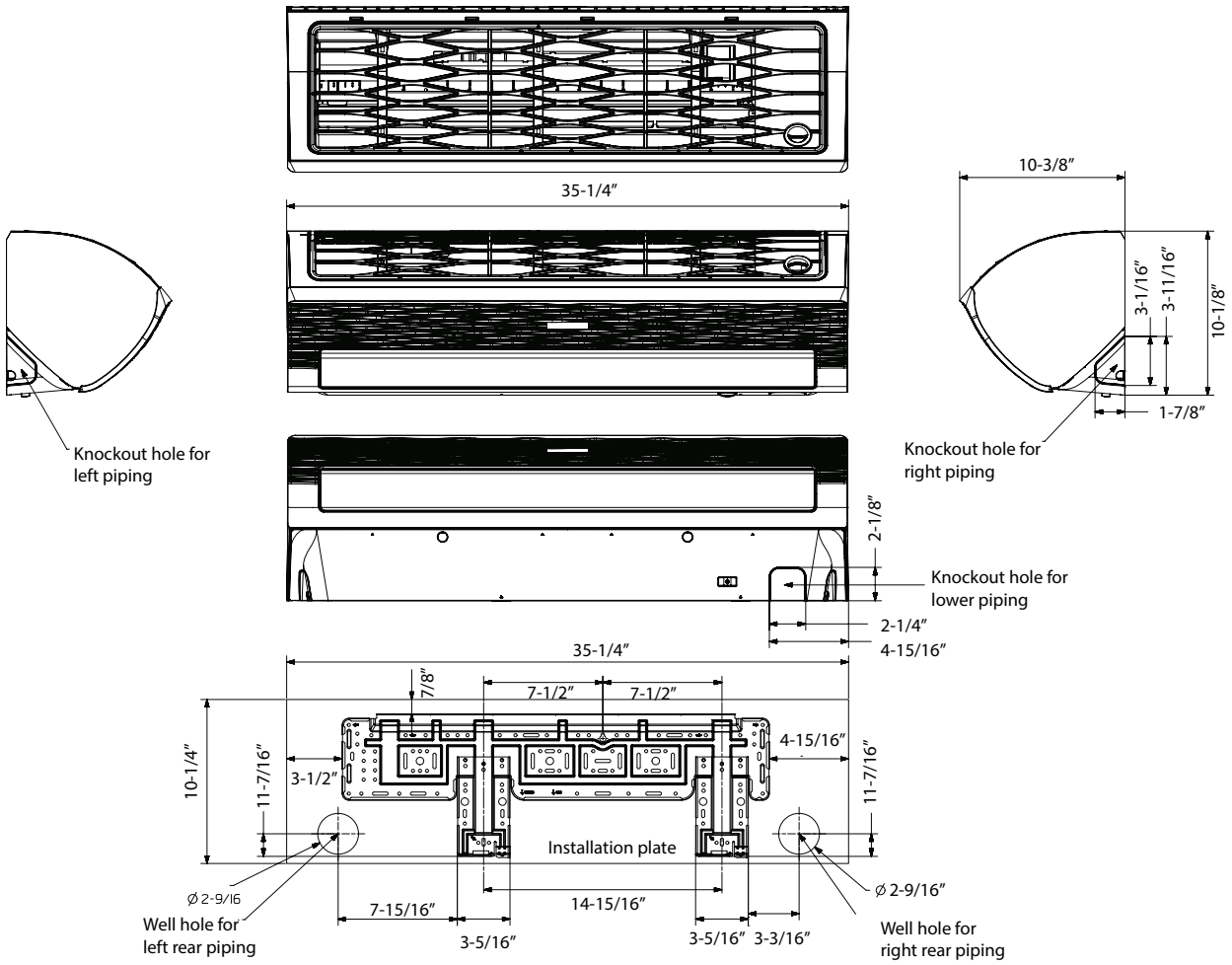
- *Specification may be subject to change without prior notice.*
- *Capacities are based on equivalent refrigerant piping 24.6 ft, level differences 0 ft*
- ***Indoor temperature** : 80°F(26.7°C) DB, 67°F(19.4°C) WB /*
- ***Outdoor temperature** : 95°F(35°C) DB, 75°F (23.9°C) WB*
- *Select wire size based on the value of MCA*
- *Sound pressure level is obtained in an anechoic room.*
  - *Sound pressure level is a relative value, depending on the distance and acoustic environment.*
  - *Sound pressure level may differ depending on operation condition.*
  - *dBA = A-weighted sound pressure level*
  - *Reference acoustic pressure 0 dB = 20uPa*
- *Sound power level is an absolute value that a sound source generates.*
  - *dBA = A-weighted sound power level*
  - *Reference power : 1pW*
  - *Measured according to ISO 3741*

Dimensions and Weights

Indoor Units

Figure 1. Indoor unit dimensions: 4MUW4518A10N0*

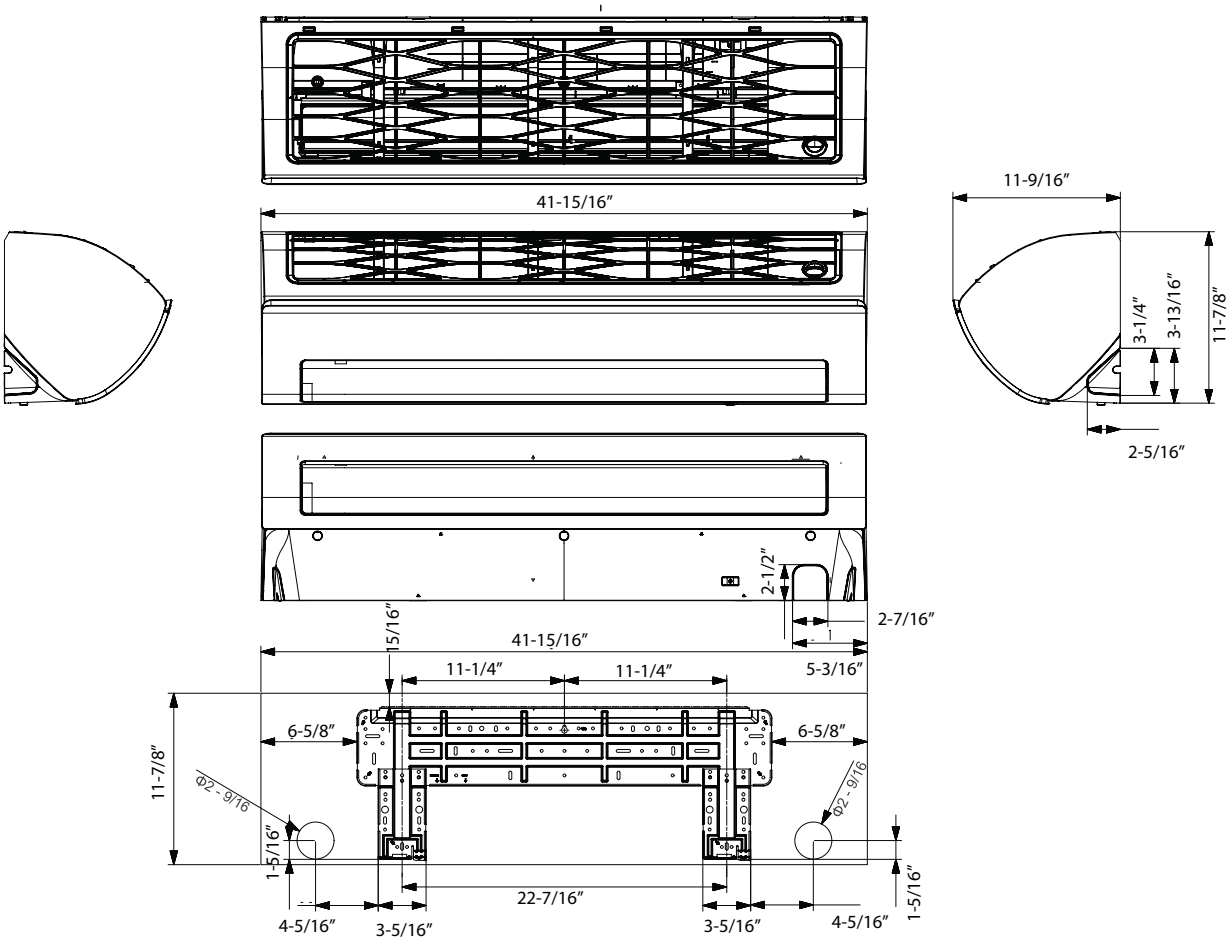
Unit: inch



Number	Name	Description
1	Liquid pipe connection	1/4
2	Gas pipe connection	1/2
3	Drain connection	ID 5/8
4	Power supply and communication wiring conduit	—

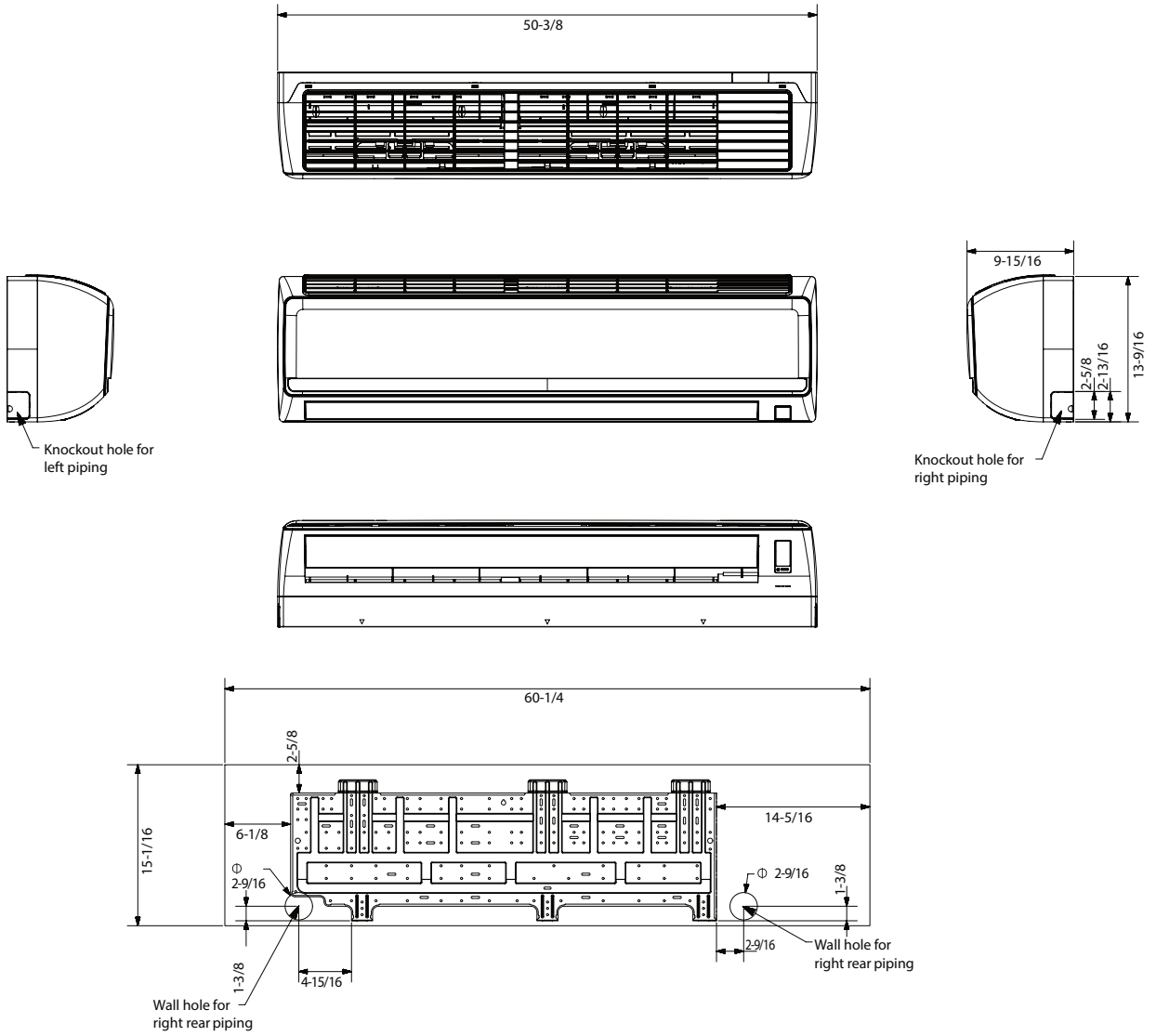
Figure 2. Indoor unit dimensions: 4MUW4524A10N0*

Unit: inch



Number	Name	Description
1	Liquid pipe connection	1/4
2	Gas pipe connection	5/8
3	Drain connection	ID 5/8
4	Power supply and communication wiring conduit	—

Figure 3. Indoor unit dimensions: 4MUW4530A10N0* and 4MUW4536A10N0*



Number	Name	Description
1	Liquid pipe connection	3/8
2	Gas pipe connection	5/8
3	Drain connection	ID 5/8
4	Power supply and communication wiring conduit	—

Outdoor Units

Table 3. Dimensions and weights for 4TUK4518A10N0*

Outdoor unit capacity (MBH)	Model number	Dimensions: WxHxD (in)	Weight (lb)	Shipping dimensions: WxHxD (in)	Shipping weight (lb)
18	4TUKL518A10N0*	34-5/8 x 25-1/8 x 12-1/4	94.4	40-1/4 x 28-3/4 x 16-1/4	101.0

Figure 4. Dimensional drawing: 4TUK4518A10N0*

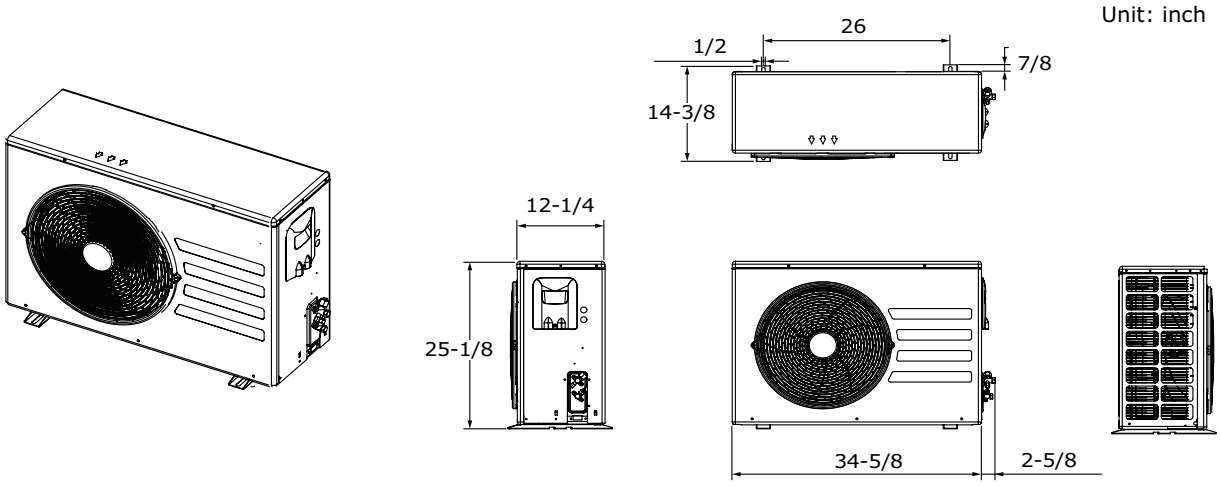


Table 4. Dimensions and weights for 4TUK4524A10N0*

Outdoor unit capacity (MBH)	Model number	Dimensions: WxHxD (in)	Weight (lb)	Shipping dimensions: WxHxD (in)	Shipping weight (lb)
24	4TUKL524A10N0*	34-5/8 x 31-3/8 x 12-1/4	114.6	40-1/4 x 35-7/8 x 16-1/4	121.9

Figure 5. Dimensional drawing: 4TUK4524A10N0*

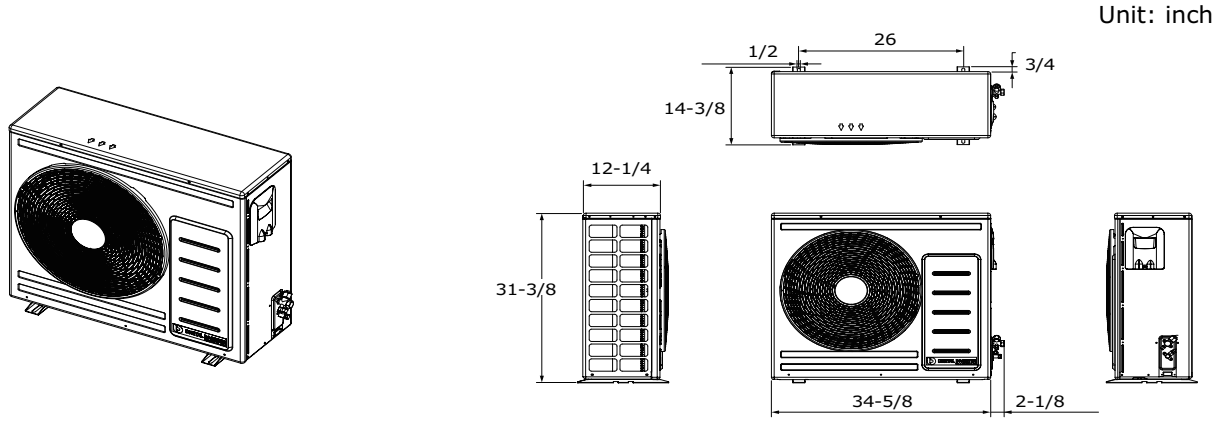
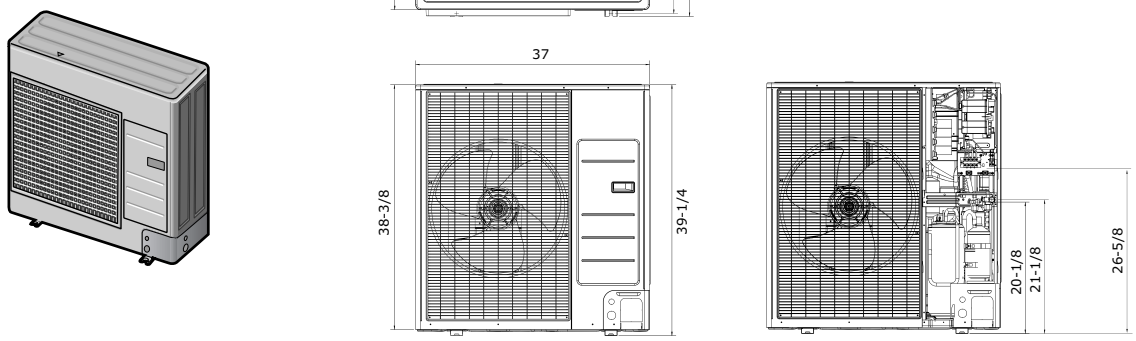


Table 5. Dimensions and weights for 4TUK4530A10N0* and 4TUK4536A10N0*

Outdoor unit capacity (MBH)	Model number	Dimensions: WxHxD (in)	Weight (lb)	Shipping dimensions: WxHxD (in)	Shipping weight (lb)
30	4TUKL530A10N0*	37 x 39-1/4 x 13	142.2	39-3/8 x 43-1/8 x 16-3/4	153.22
36	4TUKL536A10N0*		154.22		163.14

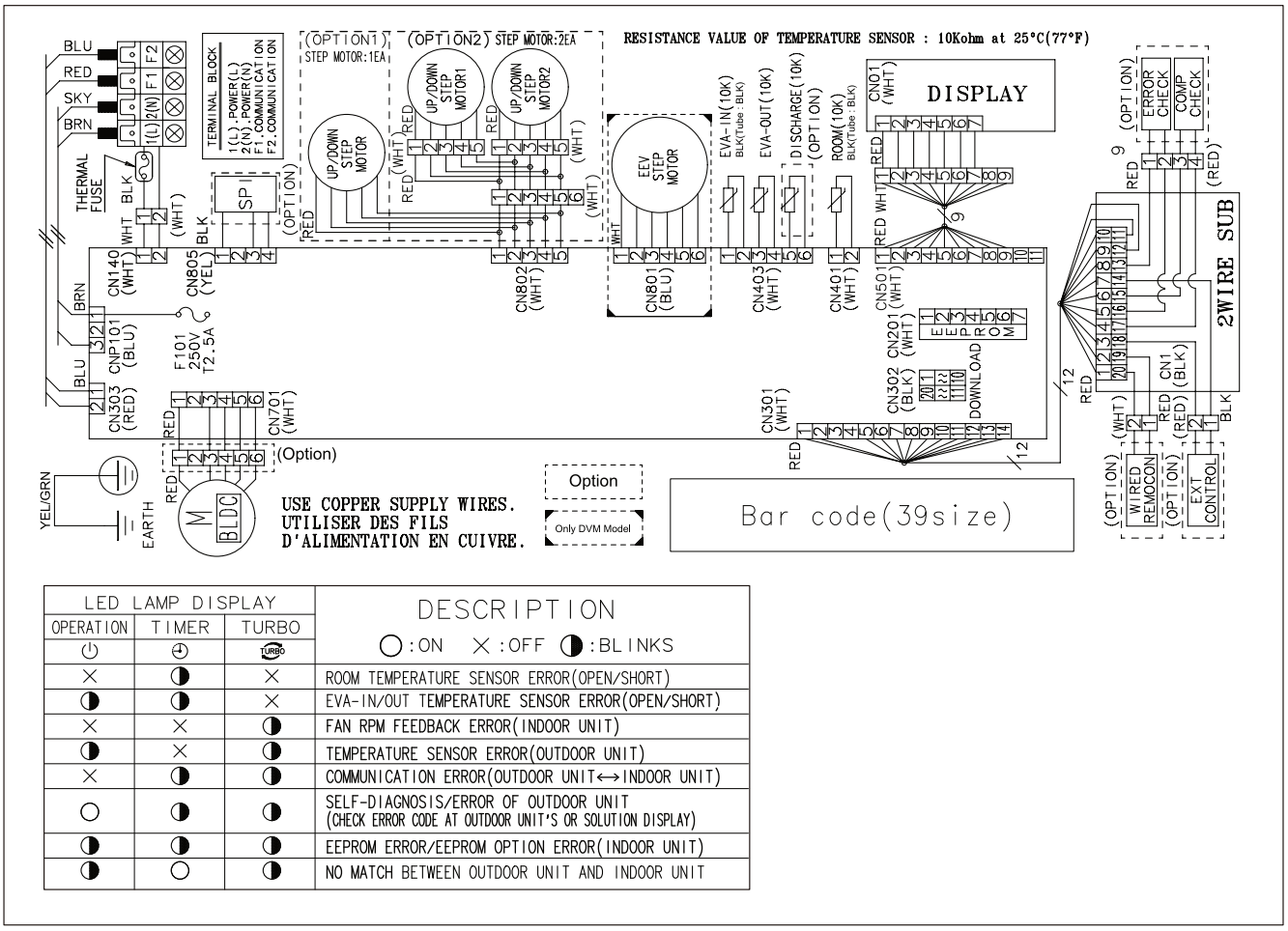
Figure 6. Dimensional drawing for 4TUK4530A10N0*30 and 4TUK4536A10N0*

Unit: inch



Electrical Wiring

Figure 7. Electrical wiring: indoor unit



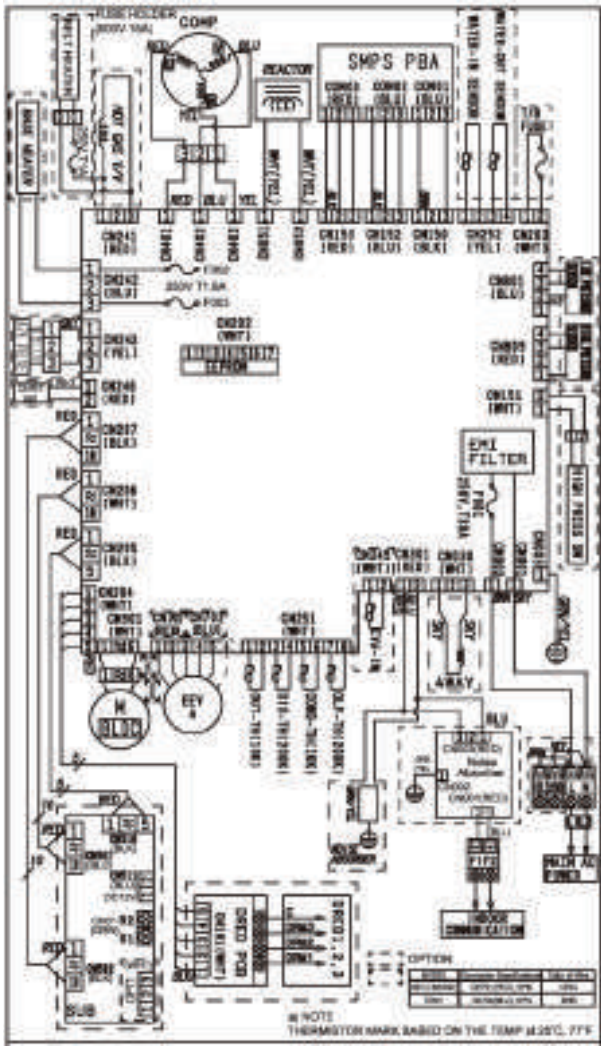
LED LAMP DISPLAY			DESCRIPTION
OPERATION	TIMER	TURBO	○:ON ×:OFF ◑:BLINKS
×	◑	×	ROOM TEMPERATURE SENSOR ERROR(OPEN/SHORT)
◑	◑	×	EVA-IN/OUT TEMPERATURE SENSOR ERROR(OPEN/SHORT)
×	×	◑	FAN RPM FEEDBACK ERROR(INDOOR UNIT)
◑	×	◑	TEMPERATURE SENSOR ERROR(OUTDOOR UNIT)
×	◑	◑	COMMUNICATION ERROR(OUTDOOR UNIT↔INDOOR UNIT)
○	◑	◑	SELF-DIAGNOSIS/ERROR OF OUTDOOR UNIT (CHECK ERROR CODE AT OUTDOOR UNIT'S OR SOLUTION DISPLAY)
◑	◑	◑	EEPROM ERROR/EEPROM OPTION ERROR(INDOOR UNIT)
◑	○	◑	NO MATCH BETWEEN OUTDOOR UNIT AND INDOOR UNIT

MAIN PCB	Print circuit board (MAIN)	**EEV**	Electronics expansion valve	**EVA-IN TEMP**	Thermistor EVAPORATE
DISPLAY	Print circuit board (DISPLAY)	**M-BLDC**	BLDC motor	**EVA-OUT TEMP**	Thermistor EVAPORATE
2WIRE SUB	Print circuit board (SUB COMM)	**ROOM-TEMP**	Thermistor AMBIENT		

Notes:

- *This wiring diagram applies only to the indoor unit.*
- *Colors blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue.*
- *When operating, don't shortciruit the protection device (High Pressure switch).*
- *For connection wiring indoor-outdoor transmission F1-F2, outdoor-outdoor transmission OF1-OF2, refer to the installation manual.*

Figure 8. Electrical wiring: ODU, 4TUKL518A10N0* and 4TUKL524A10N0*

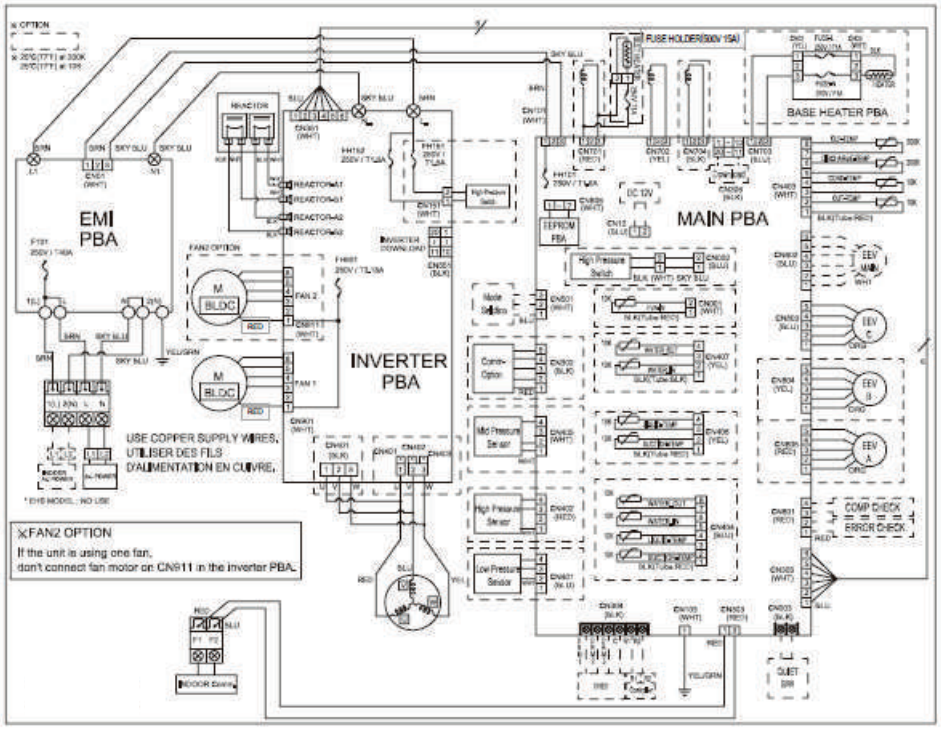


MAIN PCB	Printed circuit board (MAIN)	**EEV**	Electronics expansion valve	**DIS-TH(200K)**	Thermistor DISCHARGE
DRED PCB	Printed circuit board (DRED)	**M-BLDC**	BLDC motor	**OUT-TH(10K)**	Thermistor AMBIENT
SMPS	Printed circuit board (SMPS)	**OLT-TH9200K)**	Thermistor OLP	**COND-TH(10K)**	Thermistor CONDENSOR
SUB	Printed circuit board (SUB)	**BELT HEATER**	Comp belt heater		

Notes:

- *This wiring diagram applies only to the outdoor unit.*
- *Symbols show as follow: blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue, grn: green.*
- *For connection wiring indoor-outdoor transmission F1-F2*

Figure 9. Electrical wiring: ODU, 4TUKL530A10N0* and 4TUKL536A10N0*



MAIN PCP	Printed circuit board (MAIN)	**EEV**	Electronics expansion valve	**DIS-TH(200K)**	Thermistor DISCARGE
INVERTER PCB	Printed circuit board (INVERTER)	**M-BLDC**	BLDC motor	**OUT-TH(10K)**	Thermistor AMBIENT
EMI	Printed circuit board (EMI)	**OLT-TH(200K)**	Thermistor OLP	**COND-TH(10K)**	Thermistor CONDENSOR
		BELT HEATER	Comp belt heater		

Notes:

- *This wiring diagram applies only to the outdoor unit.*
- *Symbols show as follow: blk: black, red: red, blu: blue, wht: white, yel: yellow, brn: brown, sky: skyblue, grn: green.*
- *For connection wiring indoor-outdoor transmission F1-F2.*

Temperature and Air Flow

4TUKL518A10N0*

Figure 10. Cooling air velocity distribution: 4TUKL518A10N0*

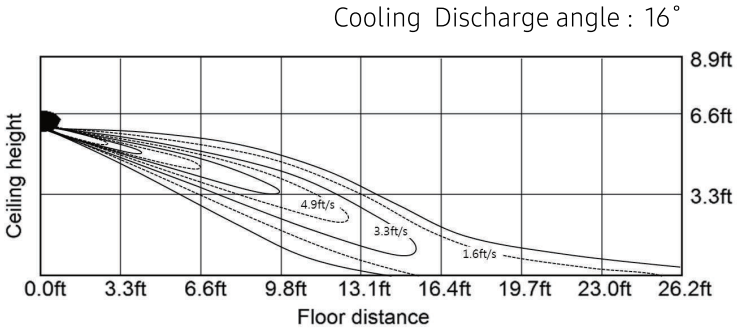


Figure 11. Cooling temperature distribution: 4TUKL518A10N0*

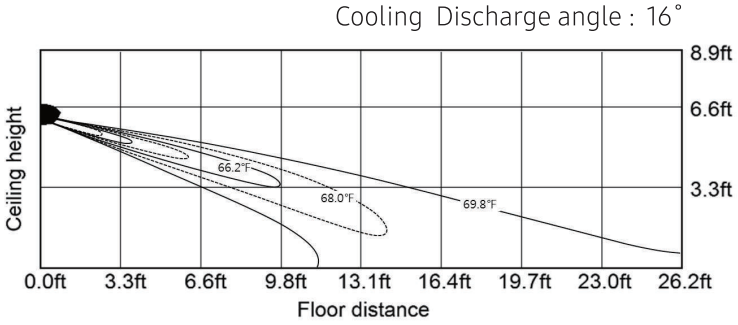


Figure 12. Heating air velocity distribution: 4TUKL518A10N0*

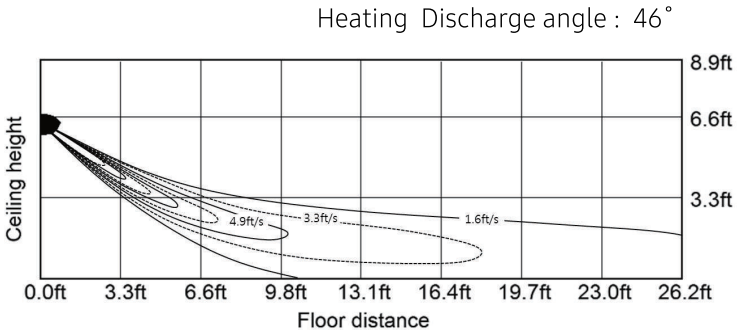
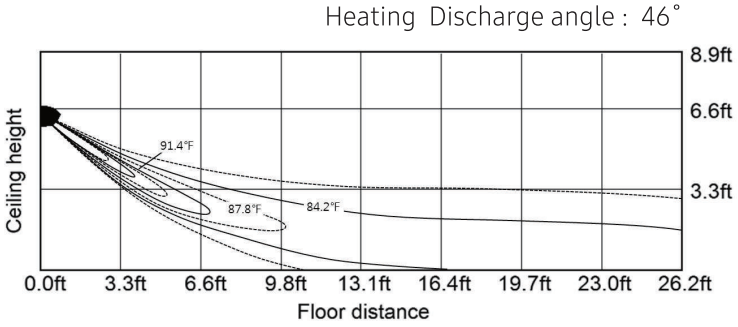


Figure 13. Heating temperature distribution: 4TUKL518A10N0*



4TUKL524A10N0*

Figure 14. Cooling air velocity distribution: 4TUKL524A10N0*

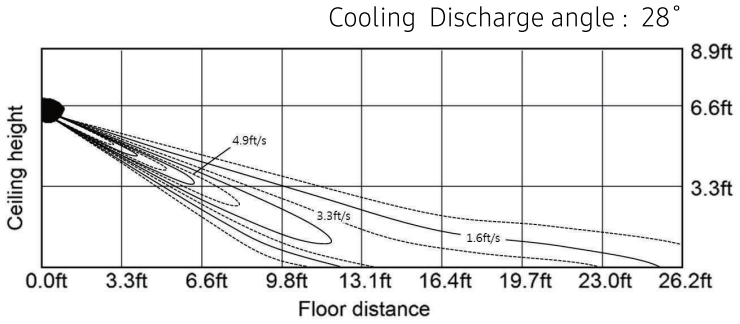


Figure 15. Cooling temperature distribution: 4TUKL524A10N0*

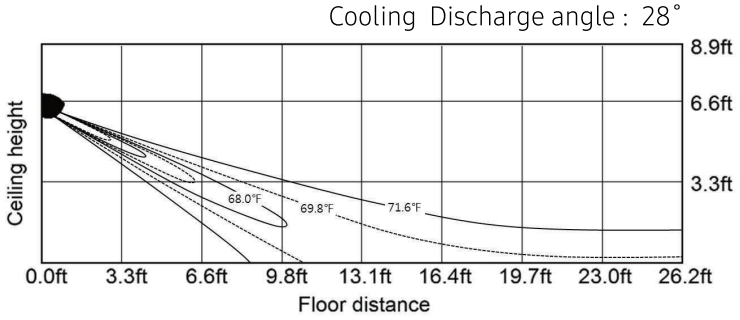


Figure 16. Heating air velocity distribution: 4TUKL524A10N0*

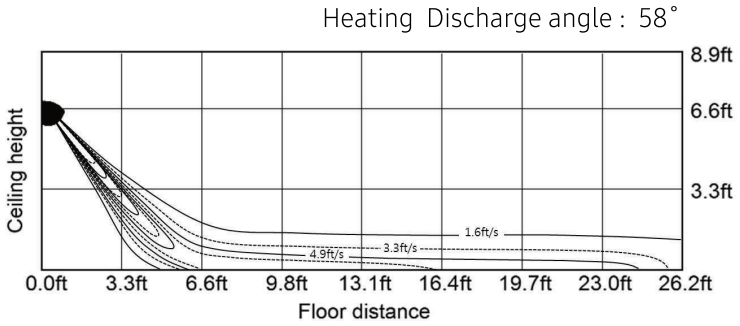
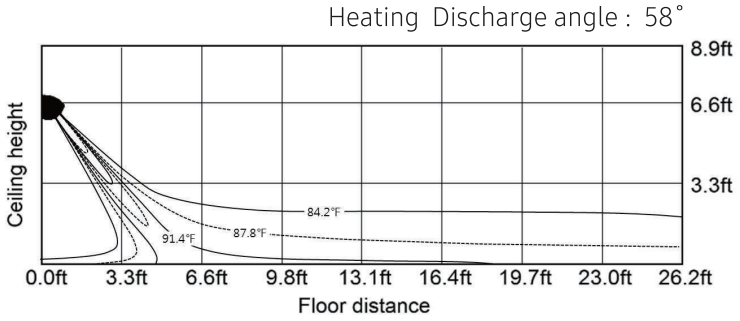


Figure 17. Heating temperature distribution: 4TUKL524A10N0*



4TUKL530A10N0*

Figure 18. Cooling air velocity distribution: 4TUKL530A10N0*

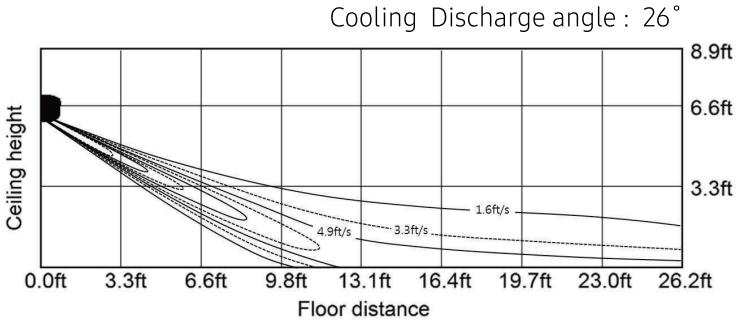


Figure 19. Cooling temperature distribution: 4TUKL530A10N0*

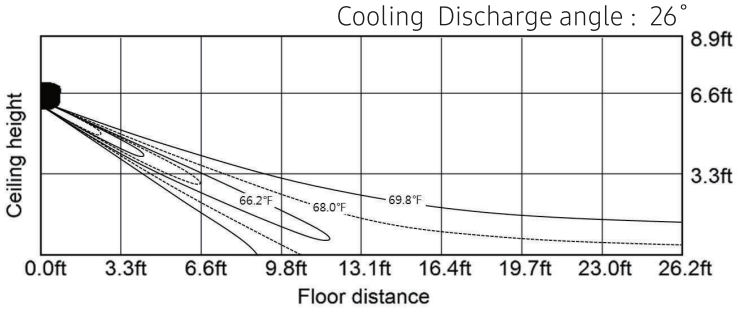


Figure 20. Heating air velocity distribution: 4TUKL530A10N0*

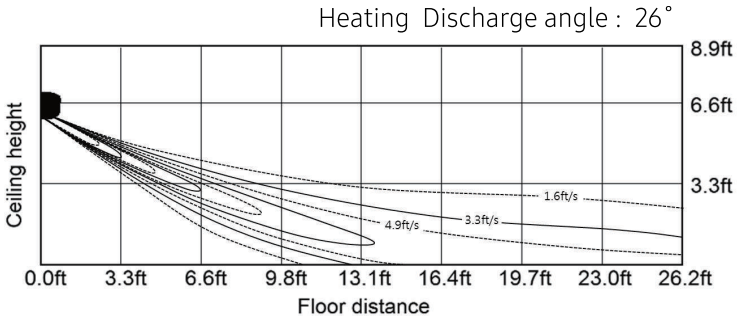
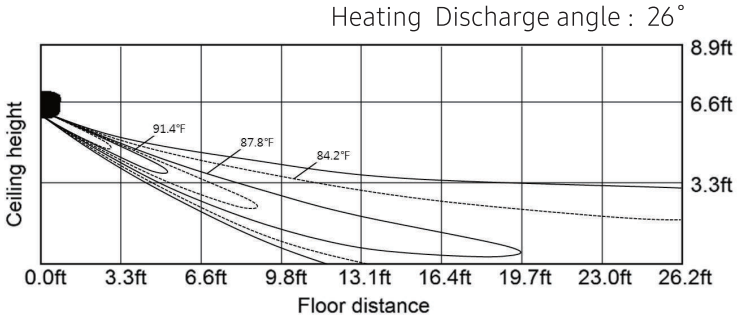


Figure 21. Heating temperature distribution



4TUKL536A10N0*

Figure 22. Cooling air velocity distribution: 4TUKL536A10N0*

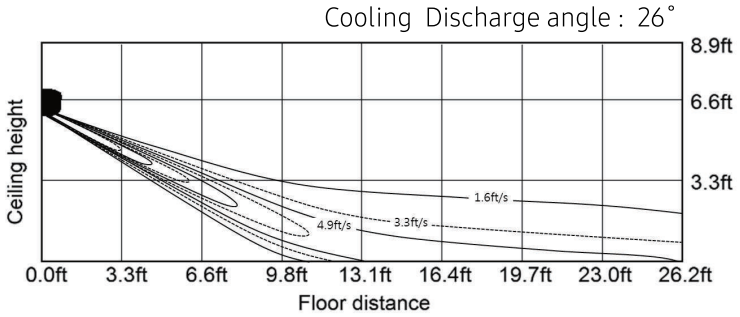


Figure 23. Cooling temperature distribution: 4TUKL536A10N0*

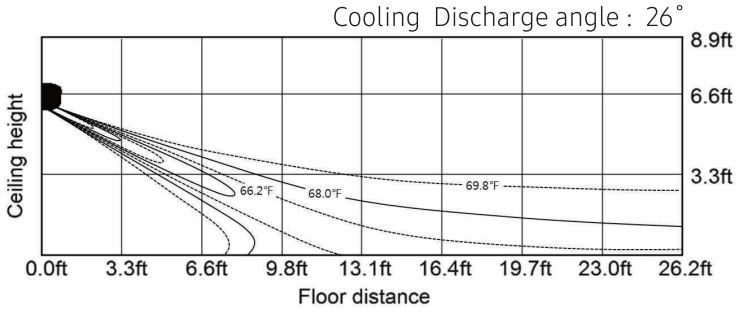


Figure 24. Heating air velocity distribution: 4TUKL536A10N0*

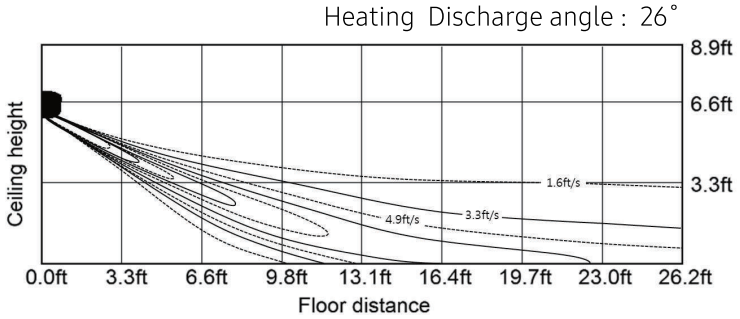
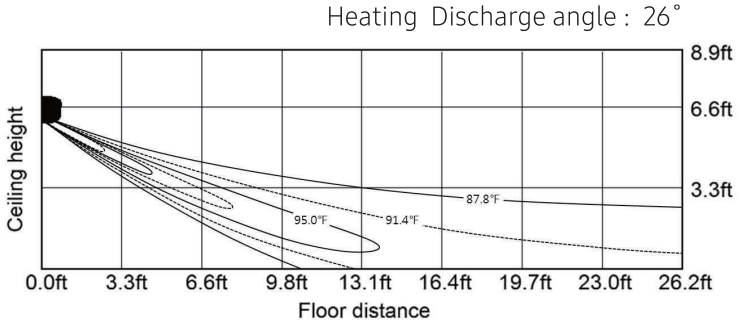
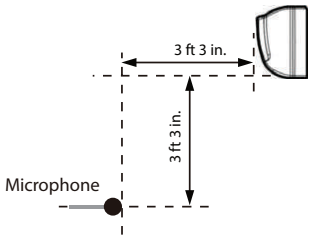


Figure 25. Heating temperature distribution: 4TUKL536A10N0*



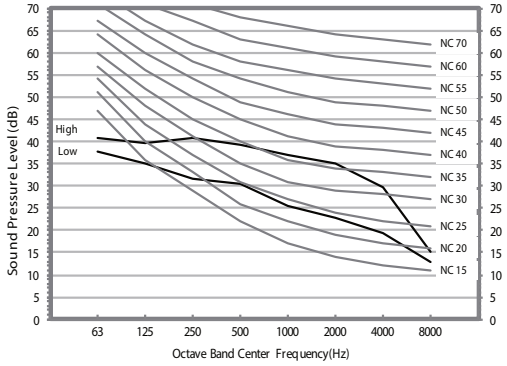
Sound Data

Sound Pressure Level: Indoor Unit

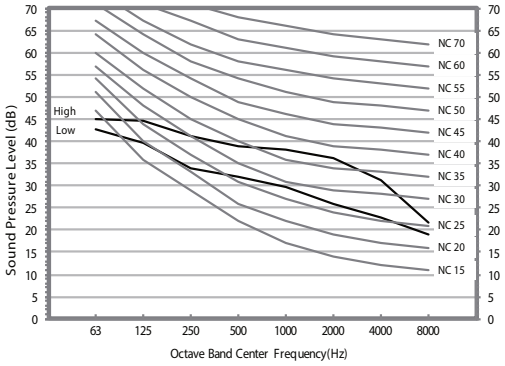


Model	High	Mid	Low
4TUKL518A10N0*	42	37	32
4TUKL524A10N0*	43	39	35
4TUKL530A10N0*	49	47	45
4TUKL536A10N0*	51	48	46

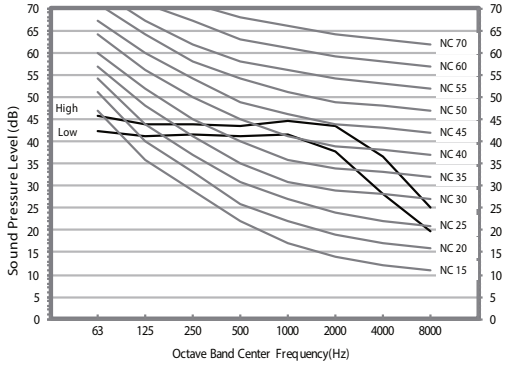
4TUKL518A10N0*



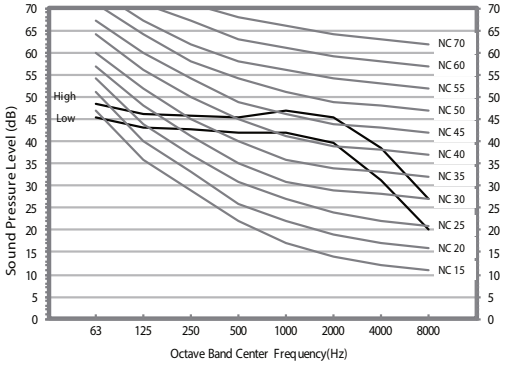
4TUKL524A10N0*



4TUKL530A10N0*



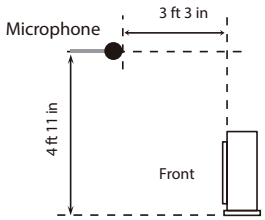
4TUKL536A10N0*



Notes:

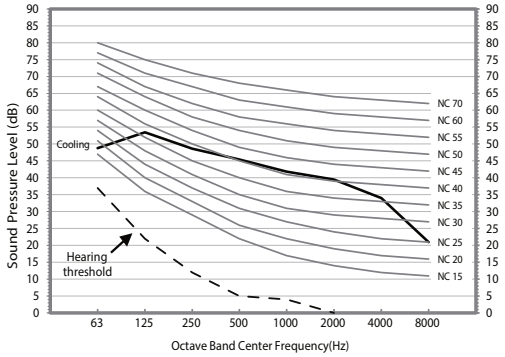
- *Specifications may be subject to change without prior notice.*
- *Sound pressure Level:*
  - *Sound pressure level is obtained in an anechoic room.*
  - *Sound pressure level is a relative value, depending on the distance and acoustic environment.*
  - *Sound pressure level may differ depending on operation condition.*
  - *dBA = A weighted sound pressure level*
  - *Reference acoustic pressure 0 dB = 20uPA*

Sound Pressure Level: Outdoor Unit

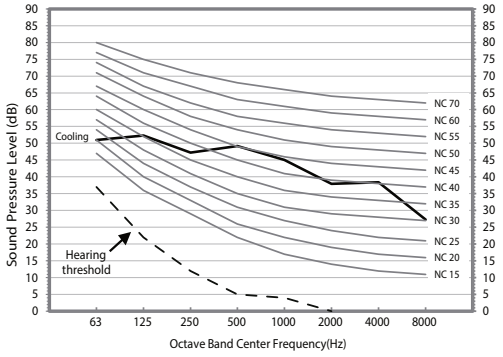


Model	Cooling dBA
4TUKL518A10N0*	48
4TUKL524A10N0*	50
4TUKL530A10N0*	52
4TUKL536A10N0*	44

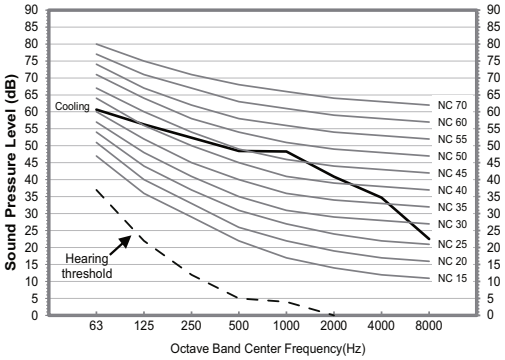
4TUKL518A10N0*



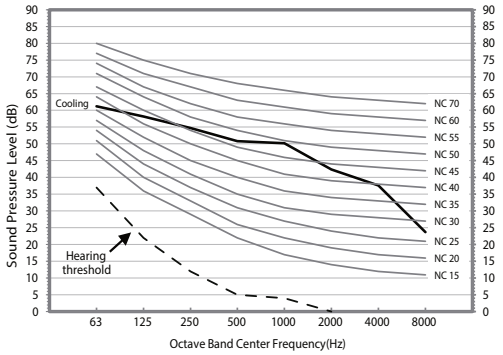
4TUKL524A10N0*



4TUKL530A10N0*



4TUKL536A10N0*



Notes:

- *Specifications may be subject to change without prior notice.*
- *Sound pressure Level:*
  - *Sound pressure level is obtained in an anechoic room.*
  - *Sound pressure level is a relative value, depending on the distance and acoustic environment.*
  - *Sound pressure level may differ depending on operation condition.*
  - *dBA = A weighted sound pressure level*
  - *Reference acoustic pressure 0 dB = 20uPA*

Capacity Tables

Table 6. Cooling capacity table: 4MUW4518A10N0*

	Indoor Temperature (, DB / WB)											
	68 / 57			72 / 61			77 / 64			80 / 67		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
OAT	OATM-BH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
-40	16	11.6	1.36	16.9	11.9	1.39	17.6	12.3	1.42	18.1	12.7	1.45
-4	16.8	11.9	1.4	17.7	12.2	1.43	18.4	12.6	1.46	19	13	1.49
70	18	12.9	1.42	18.9	13.3	1.45	19.7	13.7	1.48	20.3	14.1	1.51
95	15.9	11.4	1.87	16.8	11.8	1.91	17.5	12.1	1.95	18	12.5	1.99
115	15.1	11.2	2.72	15.9	11.6	2.78	16.6	11.9	2.83	17.1	12.3	2.89

	82 / 70			86 / 72			90 / 75		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
OAT	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
-40	18.5	12.6	1.46	19.4	12.4	1.48	20.4	12.2	1.51
-4	19.4	12.9	1.5	20.3	12.7	1.52	21.4	12.5	1.55
70	20.7	14	1.53	21.7	13.8	1.54	22.8	13.5	1.57
95	18.4	12.4	2.01	19.3	12.3	2.03	20.2	12	2.07
115	17.4	12.2	2.92	18.3	12.1	2.95	19.2	11.8	3.01

Notes:

- *TC = Total capacity.*
- *SHC = Sensible heat capacity.*
- *PI = Power input.*
- *OAT = Outdoor air temperature*
- *Capacities are based on following conditions:*
  - *Refrigerant pipe length: 24.6 ft.*
  - *Level difference : 0 ft.*

Table 7. Cooling capacity table: 4MUW4524A10N0*

OAT	Indoor Temperature (, DB / WB)											
	68 / 57			72 / 61			77 / 64			80 / 67		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
-40	21.4	15.4	1.42	22.5	15.9	1.45	23.5	16.4	1.48	24.2	16.9	1.51
-4	23.1	15.8	1.47	24.3	16.3	1.5	25.3	16.8	1.53	26.1	17.3	1.56
70	23.3	15.9	1.55	24.5	16.4	1.58	25.5	16.9	1.62	26.3	17.4	1.65
95	21.2	15.2	2.14	22.3	15.6	2.18	23.3	16.1	2.22	24	16.6	2.27
115	19.5	14	2.76	20.5	14.4	2.81	21.3	14.8	2.87	22	15.3	2.93

OD Temp	82 / 70			86 / 72			90 / 75		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
-40	24.7	16.7	1.53	25.9	16.6	1.54	27.2	16.2	1.57
-4	26.6	17.1	1.58	28	17	1.59	29.4	16.6	1.62
70	26.8	17.2	1.67	28.2	17.1	1.68	29.6	16.7	1.72
95	24.5	16.4	2.29	25.7	16.3	2.32	27	15.9	2.36
115	22.4	15.1	2.96	23.6	15	2.99	24.7	14.7	3.05

Notes:

- *TC = Total capacity.*
- *SHC = Sensible heat capacity.*
- *PI = Power input.*
- *OAT = Outdoor air temperature*
- *Capacities are based on following conditions:*
  - *Refrigerant pipe length: 24.6 ft.*
  - *Level difference : 0 ft.*

Capacity Tables

Table 8. Cooling capacity table: 4MUW4530A10N0*

	Indoor Temperature (, DB / WB)											
	68 / 57			72 / 61			77 / 64			80 / 67		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
OAT	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
-40	27.6	19.8	3.28	29.1	20.4	3.34	30.3	21	3.41	31.2	21.7	3.48
-4	29.6	21.5	3.25	31.2	22.2	3.31	32.5	22.9	3.38	33.5	23.6	3.45
70	33.3	23	2.96	35	23.7	3.03	36.5	24.4	3.09	37.6	25.2	3.15
95	26.5	19.7	2.77	27.9	20.3	2.82	29.1	21	2.88	30	21.6	2.94
115	24.4	18	3.41	25.7	18.5	3.48	26.8	19.1	3.55	27.6	19.7	3.62

	82 / 70			86 / 72			90 / 75		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
OAT	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
-40	31.8	21.4	3.51	33.4	21.2	3.55	35.1	20.8	3.62
-4	34.2	23.4	3.48	35.9	23.1	3.52	37.7	22.7	3.59
70	38.4	24.9	3.18	40.3	24.7	3.21	42.3	24.2	3.28
95	30.6	21.4	2.97	32.1	21.2	3	33.7	20.7	3.06
115	28.2	19.5	3.66	29.6	19.3	3.69	31	18.9	3.77

Notes:

- *TC = Total capacity.*
- *SHC = Sensible heat capacity.*
- *PI = Power input.*
- *OAT = Outdoor air temperature*
- *Capacities are based on following conditions:*
  - *Refrigerant pipe length: 24.6 ft.*
  - *Level difference : 0 ft.*

Table 9. Cooling capacity table: 4MUW4536A10N0*

	Indoor Temperature (, DB / WB)											
	68 / 57			72 / 61			77 / 64			80 / 67		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
OAT	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
-40	28.8	20.8	3.41	30.3	21.5	3.48	31.5	22.1	3.55	32.5	22.8	3.62
-4	31.7	23.5	3.38	33.3	24.2	3.45	34.7	24.9	3.52	35.8	25.7	3.59
70	35.1	24.1	3.12	37	24.8	3.18	38.5	25.6	3.24	39.7	26.4	3.31
95	31.8	22.5	4.18	33.5	23.2	4.26	34.9	24	4.35	36	24.7	4.44
115	25.6	18.9	3.5	26.9	19.5	3.57	28	20.1	3.65	28.9	20.7	3.72

	82 / 70			86 / 72			90 / 75		
	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
OAT	MBH	MBH	kW	MBH	MBH	kW	MBH	MBH	kW
-40	33.2	22.6	3.66	34.8	22.3	3.69	36.5	21.9	3.77
-4	36.5	25.4	3.63	38.3	25.2	3.66	40.3	24.7	3.74
70	40.5	26.1	3.34	42.5	25.9	3.38	44.6	25.4	3.44
95	36.7	24.5	4.48	38.6	24.2	4.53	40.5	23.7	4.62
115	29.5	20.5	3.76	31	20.3	3.79	32.5	19.9	3.87

Notes:

- *TC = Total capacity.*
- *SHC = Sensible heat capacity.*
- *PI = Power input.*
- *OAT = Outdoor air temperature*
- *Capacities are based on following conditions:*
  - *Refrigerant pipe length: 24.6 ft.*
  - *Level difference : 0 ft.*

Capacity Correction Tables

Table 10. Capacity correction table: 4MUW4518A10N0*

		Pipe Length (ft)					
		16.4	32.8	49.2	65.6	82	98.4
Level Difference (ft)	65.6	–	–	–	0.97	0.96	0.95
	49.2	–	–	0.98	0.97	0.96	0.95
	32.8	–	0.99	0.98	0.97	0.96	0.95
	16.4	1	0.99	0.98	0.97	0.96	0.95
	0	1	0.99	0.98	0.97	0.96	0.95
	–16.4	1	0.99	0.98	0.97	0.96	0.94
	–32.8	–	0.98	0.97	0.96	0.95	0.93
	–49.2	–	–	0.97	0.96	0.95	0.92
	–65.6	–	–	–	0.96	0.94	0.91

Table 11. Capacity correction table: 4MUW4524A10N0*

		Pipe Length (ft)									
		16.4	32.8	49.2	65.6	82	98.4	114.8	131.2	147.6	164
Level Difference (ft)	98.4	–	–	–	–	–	0.97	0.97	0.96	0.96	0.95
	82	–	–	–	–	0.98	0.97	0.97	0.96	0.96	0.95
	65.6	–	–	–	0.98	0.98	0.97	0.97	0.96	0.96	0.95
	49.2	–	–	0.99	0.98	0.98	0.97	0.97	0.96	0.96	0.95
	32.8	–	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.96	0.95
	16.4	1	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.96	0.95
	0	1	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.96	0.95
	–16.4	1	0.99	0.99	0.98	0.98	0.97	0.96	0.96	0.95	0.93
	–32.8	–	0.99	0.99	0.98	0.97	0.97	0.96	0.95	0.94	0.92
	–49.2	–	–	0.99	0.98	0.97	0.96	0.96	0.94	0.93	0.9
	–65.6	–	–	–	0.98	0.97	0.96	0.95	0.94	0.92	0.88
	–82	–	–	–	–	0.97	0.96	0.95	0.93	0.91	0.87
	–98.4	–	–	–	–	–	0.96	0.94	0.93	0.9	0.85

Table 12. Capacity correction table: 4MUW4530A10N0* and 4MUW4536A10N0*

			Pipe Length (ft)									
			16.4	32.8	49.2	65.6	82	98.4	114.8	131.2	147.6	164
	Level Difference (ft)	98.4	–	–	–	–	–	0.97	0.97	0.96	0.96	0.9
		82	–	–	–	–	0.98	0.97	0.97	0.96	0.96	0.9
		65.6	–	–	–	0.98	0.98	0.97	0.97	0.96	0.96	0.9
		49.2	–	–	0.99	0.98	0.98	0.97	0.97	0.96	0.96	0.9
		32.8	–	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.96	0.9
		16.4	1	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.96	0.9
		0	1	0.99	0.99	0.98	0.98	0.97	0.97	0.96	0.96	0.9
		–16.4	1	0.99	0.99	0.98	0.98	0.97	0.96	0.95	0.94	0.88
		–32.8	–	0.99	0.99	0.98	0.97	0.96	0.96	0.94	0.92	0.87
		–49.2	–	–	0.98	0.98	0.97	0.96	0.95	0.93	0.9	0.85
		–65.6	–	–	–	0.98	0.97	0.96	0.94	0.92	0.89	0.83
		–82	–	–	–	–	0.96	0.95	0.94	0.91	0.87	0.82
		–98.4	–	–	–	–	–	0.95	0.93	0.9	0.85	0.8

Notes

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