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SUBMITTAL

R-410A Split System up to 20 SEER, Inverter Systems - 60 Hz 4TXU2042A Single Zone Unit

Specifications

MODEL - Heat Pump Only	4UXC2042A10N / 4TXU2042A10N		4UXD2042A10N / 4TXU2042A10N	
	Cooling	Heating	Cooling	Heating
RATED Volts/PH	208 / 230 / 1		208 / 230 / 1	
Frequency (Hz)	60Hz		60Hz	
Rated Cooling / Heating Capacity (Btu/h):	39500	44000	39500	44000
Minimum Cooling Capacity (@95F) (Btu/h):	11000	0	12000	0
Maximum Cooling Capacity (@95F) (Btu/h):	41000	0	42500	0
Minimum Heating Capacity (@47F) (Btu/h):	0	12000	0	13000
Maximum Heating Capacity (@47F) (Btu/h):	0	51000	0	52500
Maximum Heating Capacity (@17F) (Btu/h):	0	24400	0	24800
Total Capacity (W) (High/Standard/Low):	12000 / 11500 / 3300	15000 / 13000 / 3600	12500 / 11500 / 3600	15500 / 13000 / 3900
Nominal Power Input (W)	4400	4450	4150	3900
Nominal Input Current (A)	22.5	22.8	21.2	19.9
SEER / HSPF	16.0	9.0	16.0	9.0
EER / COP (Btu/h)/W	8.9	9.9	9.5	11.3
Air Flow Volume (CFM)	3880		3880	
Dehumidifying Volume (pt./h)	1.75		1.42	
Indoor Unit	CASSETTE 4UXC2042A10N**		DUCTED 4UXD2042A10N	
Fan Motor Speed (rpm) (H/M/L/QUIET)	720/680/600/520		1300/1300/1200/1050	
Evaporator	Aluminum Fin-Copper Tube		Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	0.28		0.37	
Rows - Fin Gap (inch)	2.0 - 0.06		3.0 - 0.07	
Coil length (L) x depth (D) x coil height (H) (inch)	77.4 x 9.8 x 1		38.5 x 12.5 x 2.6	
Fuse Current (A)	5		5	
MOP	15		15	
Fan Motor RLA (A)	0.9		2.1	
Air Flow Volume (CFM) (H/M/L/QUIET)	1100/1030/910/800		1180/1120/1000/820	
Sound PRESSURE Level dB (A) ①	43-51		44-53	
Uncrated Dimension (L/D/H) (inch)	36.1 x 33.1 x 12.6		48.3 x 30.5 x 11.4	
Crated Dimension of Package (L/D/H) (inch)	45.2 x 37.7 x 16.5		52.7 x 34.5 x 12.0	
Net Weight /Gross Weight (lbs)	71 / 97		101 / 117	
Outdoor Unit	4TXU2042A10N		4TXU2042A10N	
Compressor Type	Inverter Rotary		Inverter Rotary	
Compressor RLA(A)	21.2		21.2	
Compressor Power Input(W)	4150		4150	
Throttling Method	EEV		EEV	
Working Temp Range (oF)	0 ~ 118	0 ~ 75	0 ~ 118	0 ~ 75
Condenser	Aluminum Fin-Copper Tube		Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	0.31		0.31	
Rows - Fin Gap (inch)	2.0 - 0.07		2.0 - 0.07	
Coil length (L) x height (H) x coil width (W) (inch)	33.7 x 52 x 1.5		33.7 x 52 x 1.5	
Fan Motor Speed (rpm)	820		820	
Output of Fan Motor (W)	250		250	
Fan Motor FLA (A)	2.0x2		2.0x2	
Air Flow Volume of Outdoor Unit (CFM)	3880		3880	
Fan Diameter (inch)	18.6		18.6	
Defrosting Method	Automatic Defrosting		Automatic Defrosting	
Sound PRESSURE Level dB (A) ①	61		61	
Uncrated Dimension (L/D/H) (inch)	37.7 x 16.2 x 53.1		37.7 x 16.2 x 53.1	
Crated Dimension of Package (L/D/H) (inch)	41.1 x 17.8 x 59.1		41.1 x 17.8 x 59.1	
Net Weight /Gross Weight (lbs)	210 / 232		210 / 232	
Refrigerant Charge (oz)	130.5		130.5	
Fuse Current (A)	5		5	
MCA	31		31	
MOP	50		50	
Connection Pipe				
Gas additional charge(oz/ft)	0.6		0.6	
Outer Diameter Liquid Pipe (inch)	3/8		3/8	
Outer Diameter Gas Pipe (inch)	5/8		5/8	
Max Height Distance (ft)	100		100	
Max Length Distance (ft)	165		165	

① Sound PRESSURE Level @ 3.3 ft. dB(A)

Specifications

MODEL - Heat Pump Only

4UXX2042A10N / 4TXU2042A10N

	Cooling	Heating
RATED Volts/PH	208 / 230 / 1	
Frequency (Hz)	60Hz	
Rated Cooling / Heating Capacity (Btu/h):	39500	44000
Minimum Cooling Capacity (@95F) (Btu/h):	12000	0
Maximum Cooling Capacity (@95F) (Btu/h):	42500	0
Minimum Heating Capacity (@47F) (Btu/h):	0	13000
Maximum Heating Capacity (@47F) (Btu/h):	0	52500
Maximum Heating Capacity (@17F) (Btu/h):	0	24800
Total Capacity (W) (High/Standard/Low):	12500 / 11500 / 3600	15500 / 13000 / 3900
Nominal Power Input (W)	4050	4050
Nominal Input Current (A)	20.7	20.7
SEER / HSPF	16.0	9.0
EER / COP (Btu/h)/W	9.7	10.8
Air Flow Volume (CFM)	3880	
Dehumidifying Volume (pt./h)	1.61	

FLOOR/CEILING 4UXX2042A10N

Fan Motor Speed (rpm) (H/M/L/QUIET)	1250/1200/1000/860
Evaporator	Aluminum Fin-Copper Tube
Pipe Diameter (inch)	0.28
Rows - Fin Gap (inch)	4.0 - 0.06
Coil length (L) x Height (H) x Width (W) (inch)	43.3 x 12 x 2
Fuse Current (A)	5
MOP	15
Fan Motor RLA (A)	1.4
Air Flow Volume (CFM) (H/M/L/QUIET)	1120/1060/820/710
Sound PRESSURE Level dB (A) ①	47-55
Uncrated Dimension (L/D/H) (inch)	55.9 x 27.6 x 9.6
Crated Dimension of Package (L/D/H) (inch)	60.9 x 32.6 x 13.6
Net Weight /Gross Weight (lbs)	110 / 128

Outdoor Unit

4TXU2042A10N

Compressor Type	Inverter Rotary
Compressor RLA(A)	21.2
Compressor Power Input(W)	4150
Throttling Method	EEV
Working Temp Range (oF)	0 ~ 118 0 ~ 75
Condenser	Aluminum Fin-Copper Tube
Pipe Diameter (inch)	0.31
Rows - Fin Gap (inch)	2.0 - 0.07
Coil length (L) x height (H) x coil width (W) (inch)	33.7 x 52 x 1.5
Fan Motor Speed (rpm)	820
Output of Fan Motor (W)	250
Fan Motor RLA (A)	2.0x2
Air Flow Volume of Outdoor Unit (CFM)	3880
Fan Diameter (inch)	18.6
Defrosting Method	Automatic Defrosting
Sound PRESSURE Level dB (A) ①	61
Uncrated Dimension (L/D/H) (inch)	37.7 x 16.2 x 53.1
Crated Dimension of Package (L/D/H) (inch)	41.1 x 17.8 x 59.1
Net Weight /Gross Weight (lbs)	210 / 232
Refrigerant Charge (oz)	130.5
Fuse Current (A)	5
MCA	31
MOP	50

Connection Pipe

Gas additional charge(oz/ft)	0.6
Outer Diameter Liquid Pipe (inch)	3/8
Outer Diameter Gas Pipe (inch)	5/8
Max Height Distance (ft)	100
Max Length Distance (ft)	165

① Sound PRESSURE Level @ 3.3 ft. dB(A)

Optional Equipment

See the Service First Mini-Split Accessory Catalog for the complete accessory list.

Optional outdoor unit accessories

Model		4TXU20 Single Zone up to 20 SEER
Number	Description	
TAYREFLN560	Lineset Kit 1/4 x 1/2 - 25'	✓
TAYREFLN565	Lineset Kit 1/4 x 1/2 - 35'	✓
TAYREFLN570	Lineset Kit 1/4 x 1/2 - 50'	✓
TAYREFLN575	Lineset Kit 1/4 x 1/2 - 100'	✓
TAYREFLN955	Lineset Kit 3/8 x 5/8 - 25'	✓
TAYREFLN960	Lineset Kit 3/8 x 5/8 - 35'	✓
TAYREFLN965	Lineset Kit 3/8 x 5/8 - 50'	✓
TAYREFLN970	Lineset Kit 3/8 x 5/8 - 100'	✓

Optional indoor unit accessories

Model		4UXD20 Single Zone Indoor up to 20 SEER	4UXC20 Single Zone Indoor up to 20 SEER	4UXX20 Single Zone Indoor up to 20 SEER
Number	Description			
TREMOTE2AHANDAA	Wireless controller.....	✓	✓	✓

Indoor Cassette	Cassette Cover (Sold Separately)
4UXC2018A10N0A	4UXL2018A10N0A
4UXC2024A10N0A	4UXL2042A10N0A
4UXC2030A10N0A	
4UXC2036A10N0A	
4UXC2042A10N0A	
4UXC2048A10N0A	4UXL2048A10N0A

Airflow

Airflow at Rated Conditions (CFM)						
Ducted	18K	24K	30K	36K	42K	48K
SH	590	820	820	1180	1180	1470
H	530	770	770	1120	1120	1350
M	410	710	710	1000	1000	1210
L	380	530	530	820	820	940
Cassette	18K	24K	30K	36K	42K	48K
SH	450	770	880	1100	1100	1350
H	420	740	820	1030	1030	1300
M	380	670	770	910	910	1120
L	290	590	590	800	800	880
Floor/Ceiling	18K	24K	30K	36K	42K	48K
SH	590	710	880	1120	1120	1350
H	550	680	820	1060	1060	1240
M	480	620	800	820	820	1060
L	410	480	590	710	710	880

Air Throw for Indoor Units		
Max Horizontal Distance		
Unit: ft. (m)		
Model	Cooling Mode	Heating Mode
Cassette Models	9.8 (3.0)	9.8 (3.0)
Floor / Ceiling	16.4 (5.0)	16.4 (5.0)

Airflow

Airflow in CFM for ductwork with total ESP of 0.1" or less (**Setting 05**)

Model	in. W.C.	Low	Med	High	Super High
4UXD2018A10N0A	0"	400	500	600	650
4UXD2024A10N0A	0"	700	850	950	1000
	0.1"	600	750	800	900
4UXD2030A10N0A	0"	700	850	950	1000
	0.1"	600	750	800	900
4UXD2036A10N0A	0"	1050	1200	1300	1400
	0.1"	900	1050	1200	1250
4UXD2042A10N0A	0"	1050	1200	1300	1400
	0.1"	900	1050	1200	1250
4UXD2048A10N0A	0"	1400	1600	1750	1850
	0.1"	1200	1400	1550	1700

Airflow in CFM for ductwork with total ESP not to exceed value listed in the "in. W.C." column below (**Setting 07**)

Model	in. W.C.	Low	Med	High	Super High
4UXD2018A10N0A	0"	500	600	650	700
	0.1"	400	500	550	600
4UXD2024A10N0A	0"	850	950	1000	1050
	0.1"	750	800	900	900
	0.2"	600	650	700	750
4UXD2030A10N0A	0"	850	950	1000	1050
	0.1"	750	800	900	900
	0.2"	600	650	700	750
4UXD2036A10N0A	0"	1200	1300	1400	1400
	0.1"	1050	1200	1250	1250
	0.2"	800	950	1050	1050
4UXD2042A10N0A	0"	1200	1300	1400	1400
	0.1"	1050	1200	1250	1250
	0.2"	800	950	1050	1050
4UXD2048A10N0A	0"	1600	1750	1900	2000
	0.1"	1400	1550	1700	1800
	0.2"	1200	1350	1450	1600
	0.3"	950	1100	1250	1350

Notes:

- (1) Options below fan speed "05" are not recommended for this product.
- (2) For indoor units that have "B" as the 15th digit of the model number (4UXD20**A10N0A**B**) the default airflow setting will be "07".
- (3) Low, Med, High and Super High denote the fan settings that the user can select during normal operation of the ducted unit.
- (4) 4UXD2018 models must use fan speed setting "07" for all applications with ductwork.

Unit Capacities

Cassette Capacities - Btu/h

Temp.(°F)		4TXU2018	4TXU2024	4TXU2030	4TXU2036	4TXU2042	4TXU2048
		4UXC2018	4UXC2024	4UXC2030	4UXC2036	4UXC2042	4UXC2048
Heat Mode	0	12000	16700	20400	24800	27400	32000
	5	13000	18200	21800	26800	30000	34600
	10	13900	19600	23000	29000	32400	37200
	15	14800	20800	24200	31000	34600	39500
	20	15200	21600	25000	31600	35600	40000
	25	15500	22200	25600	32600	36800	41000
	30	15900	22800	26200	33600	38500	43000
	35	16500	24000	27400	35600	41000	45000
	40	17200	25400	28800	38000	43000	48000
	45	18700	26800	30800	40000	45000	52000
	50	20400	29000	33400	43500	49000	56000

Temp.(°F)		4TXU2018	4TXU2024	4TXU2030	4TXU2036	4TXU2042	4TXU2048
		4UXC2018	4UXC2024	4UXC2030	4UXC2036	4UXC2042	4UXC2048
Cool Mode	70	16100	21800	22800	31800	33400	43000
	75	16800	22600	23600	33000	35200	44500
	80	17500	23800	25400	34600	37000	46500
	85	18200	25200	27600	36400	39000	49500
	90	18100	24800	27400	36000	38500	49000
	95	17700	24000	26800	35200	37400	47500
	100	17200	23400	25800	34000	36200	46000
	105	16400	22200	24600	32400	34400	43500
	110	14900	20000	22200	29400	31400	39500
	115	13400	17800	19800	26200	28200	35400
	118	12600	16500	18300	24200	26200	33000

Ducted Capacities - Btu/h

Temp.(°F)		4TXU2018	4TXU2024	4TXU2030	4TXU2036	4TXU2042	4TXU2048
		4UXD2018	4UXD2024	4UXD2030	4UXD2036	4UXD2042	4UXD2048
Heat Mode	0	12700	16700	20400	24800	27400	32000
	5	13400	18200	21800	26800	30000	34600
	10	14100	19600	23000	29000	32400	37200
	15	14800	20800	24200	31000	34600	39500
	20	15200	21600	25000	31600	35600	40000
	25	15500	22200	25600	32600	36800	41000
	30	15900	22800	26200	33600	38500	43000
	35	16500	24000	27400	35600	41000	45000
	40	17200	25400	28800	38000	43000	48000
	45	18700	26800	30800	40000	45000	52000
	50	20400	29000	33400	43500	49000	56000

Temp.(°F)		4TXU2018	4TXU2024	4TXU2030	4TXU2036	4TXU2042	4TXU2048
		4UXD2018	4UXD2024	4UXD2030	4UXD2036	4UXD2042	4UXD2048
Cool Mode	70	16100	21800	22800	31800	33400	43000
	75	16800	22600	23600	33000	35200	44500
	80	17500	23800	25400	34600	37000	46500
	85	18200	25200	27600	36400	39000	49500
	90	18100	24800	27400	36000	38500	49000
	95	17700	24000	26800	35200	37400	47500
	100	17200	23400	25800	34000	36200	46000
	105	16400	22200	24600	32400	34400	43500
	110	14900	20000	22200	29400	31400	39500
	115	13400	17800	19800	26200	28200	35400
	118	12600	16500	18300	24200	26200	33000

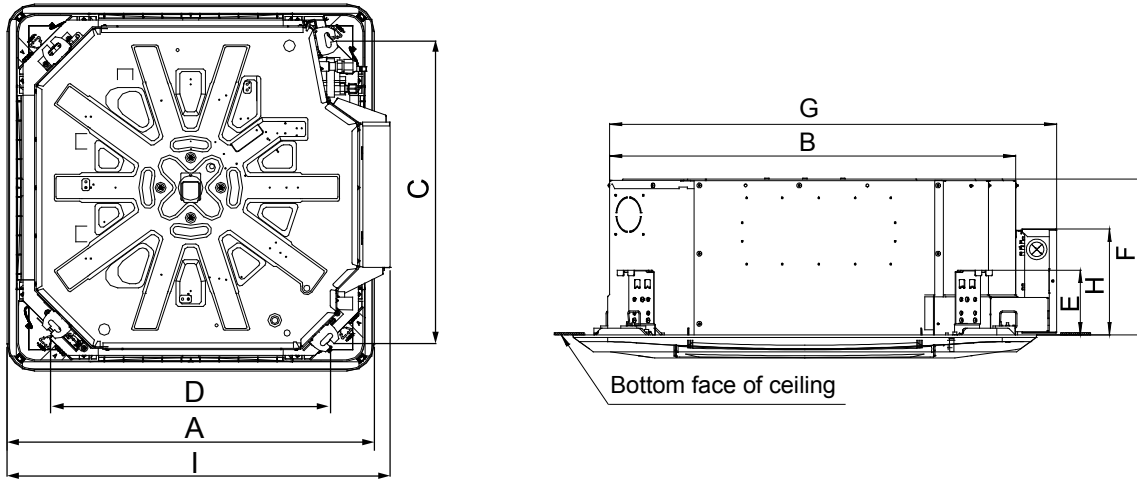
Floor/Ceiling Capacities - Btu/h

Temp.(°F)		4TXU2018	4TXU2024	4TXU2030	4TXU2036	4TXU2042	4TXU2048
		4UXX2018	4UXX2024	4UXX2030	4UXX2036	4UXX2042	4UXX2048
Heat Mode	0	12000	16700	20400	24800	27400	32000
	5	13000	18200	21800	26800	30000	34600
	10	13900	19600	23000	29000	32400	37200
	15	14800	20800	24200	31000	34600	39500
	20	15200	21600	25000	31600	35600	40000
	25	15500	22200	25600	32600	36800	41000
	30	15900	22800	26200	33600	38500	43000
	35	16500	24000	27400	35600	41000	45000
	40	17200	25400	28800	38000	43000	48000
	45	18700	26800	30800	40000	45000	52000
	50	20400	29000	33400	43500	49000	56000

Temp.(°F)		4TXU2018	4TXU2024	4TXU2030	4TXU2036	4TXU2042	4TXU2048
		4UXX2018	4UXX2024	4UXX2030	4UXX2036	4UXX2042	4UXX2048
Cool Mode	70	16100	21800	22800	31800	33400	43000
	75	16800	22600	23600	33000	35200	44500
	80	17500	23800	25400	34600	37000	46500
	85	18200	25200	27600	36400	39000	49500
	90	18100	24800	27400	36000	38500	49000
	95	17700	24000	26800	35200	37400	47500
	100	17200	23400	25800	34000	36200	46000
	105	16400	22200	24600	32400	34400	43500
	110	14900	20000	22200	29400	31400	39500
	115	13400	17800	19800	26200	28200	35400
	118	12600	16500	18300	24200	26200	33000

Unit Dimensions

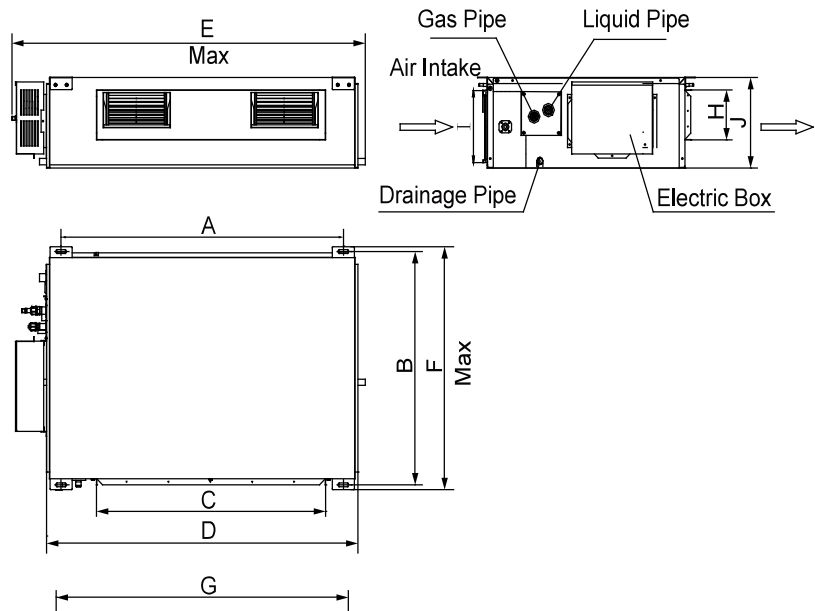
Cassette Unit Dimensions 24-42K:



Unit: mm(inch)

Model	A	B	C	D	E	F	G	H	I
4UXC2042A	950 (37.4)	833 (32.8)	780 (30.7)	680 (26.8)	160 (6.3)	320 (12.6)	917 (36.1)	215 (8.5)	993 (39.1)

Concealed Unit Dimensions 24K-42K:

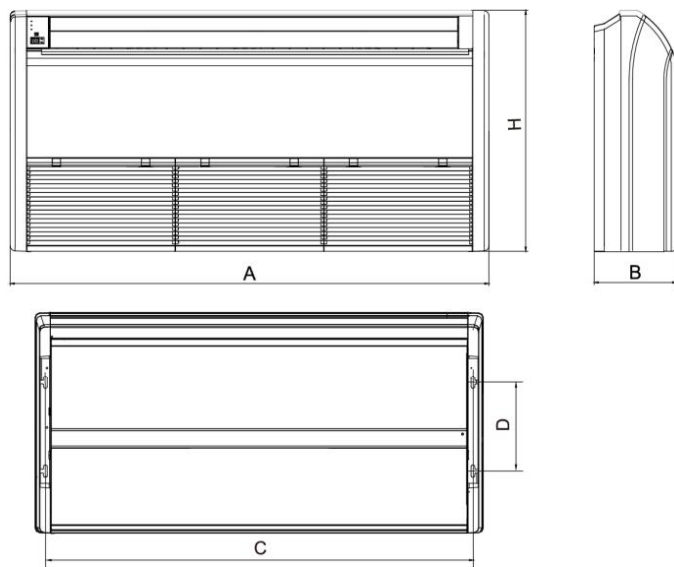


Unit: mm(inch)

Model	A	B	C	D	E	F	G	H	I	J
4UXD2042A	1011 (39.8)	748 (29.4)	820 (32.3)	1115 (43.9)	1226 (48.3)	775 (30.5)	979 (38.5)	160 (6.3)	231 (9.1)	290 (11.4)

Unit Dimensions

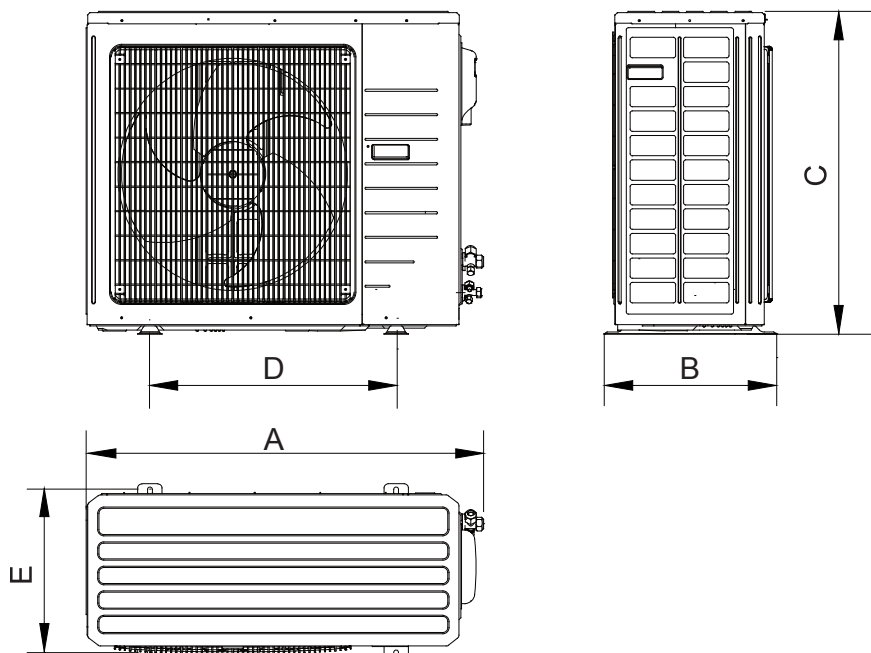
Floor / Ceiling Unit Dimensions:



Unit: mm (inch)

Model	A	B	C	D	H
4UXX2042A	1420 (55.9)	245 (9.6)	1354 (53.3)	280 (11)	700 (27.5)

Outdoor Unit Dimension Data



Unit: mm(inch)

Model	A	B	C	D	E
4TXU2042A	958 (37.7)	412 (16.2)	1349 (53.1)	572 (22.5)	376 (14.8)

Mechanical Specifications

Cassette Type Indoor Unit

General

The Cassette type air handler shall be completely factory assembled including coil, condensate drain pan, built-in condensate drain pump, fan motor, washable filter, and electric controls to be used with a wired controller. Unit shall be paired with a matching outdoor unit, rated and tested in accordance with AHRI standard. Unit shall be ETL listed.

Unit Casing

Casing shall be provided with drain hose to facilitate piping and electrical connection on the right of the unit. An electrical service cover shall be provided to permit easy access to the electrical terminal strip.

Discharge Airflow and Distribution System

Unit shall have auto swing, horizontal blades on each of the units four sides to optimize the aperture outlet for airflow and air distribution. Blades shall close automatically when the air conditioner is turned off to minimize dust entering the unit. Five-Step preset program on the remote controller shall be available to control the blade angle.

Manually adjusted wide-angle louvers shall be provided to adjust the coverage and direction of airflow.

Controls

Units shall have the capability to be controlled with the supplied wired control unit. The optional wireless remote may be used to operate the wall-mounted control.

Remote Controller

The unit may have an optional wireless infrared remote controller with an easily readable digital display panel to start, stop and regulate the supplied wired control from a distance.

The wireless controller is available for all units. **(Sold separately)**

Washable Filtration

The unit shall have an easy clean, washable filter which allows for cleaning when needed. Clean filters provide optimum efficiency and fresh air into the room.

Duct Type Indoor Unit

General

The Duct Type concealed air handler shall be completely factory assembled including coil, condensate drain pan, built-in condensate drain pump, fan motor and electric controls to be used with a wired remote controller. Unit shall be paired with a matching outdoor unit, rated and tested in accordance with AHRI standard. Unit shall be ETL listed.

Unit Casing

Casing shall be provided with drain hose to facilitate piping and electrical connection on the right and left of the unit. An electrical service cover shall be provided to permit easy access to the electrical terminal strip.

Discharge Airflow and Distribution System

The unit is shipped configured for connection to rectangular ductwork. Round ductwork may be used with a field supplied transition duct.

This ducted system is designed for customers that want a concealed system. It is not intended for air handler use to multiple rooms.

The system may be configured for either backward return air (default set-up) or by changing the flange and return cover plate the unit can be configured for downward return air.

Controls

Units shall have the capability to be controlled with the supplied wired control unit. The optional wireless remote may be used to operate the wall-mounted control.

Remote Controller

The unit may have an optional wireless infrared remote controller with an easily readable digital display panel to start, stop and regulate the supplied wired control from a distance.

The wireless controller is available for all units. **(Sold separately)**

Mechanical Specifications

Floor and Ceiling Type Indoor Unit

General

The Floor and Ceiling type air handler shall be completely factory assembled including coil, condensate drain pan, fan motor, washable filter and electric controls to be used with a remote controller. Unit shall be paired with a matching outdoor unit, rated and tested in accordance with AHRI standard. Unit shall be ETL listed.

Unit Casing

Casing shall be provided with drain hose to facilitate piping and electrical connection on the right side of the unit. An electrical service cover shall be provided to permit easy access to the electrical terminal strip.

Discharge airflow and Distribution System

Unit shall have auto swing, dual horizontal blades to optimize the aperture outlet for vertical airflow and air distribution. Blade shall close automatically when the air conditioner is turned off to minimize dust entering the unit. Five-Step preset program on the remote controller shall be available to control the blade angle.

Manually adjusted wide-angle louvers shall be provided to adjust the coverage and direction of airflow.

Controls

Units shall have the capability to be controlled with the supplied wired control unit. The optional wireless remote may be used to operate the wall-mounted control.

Remote Controller

The unit may have an optional wireless infrared remote controller with an easily readable digital display panel to start, stop and regulate the supplied wired control from a distance.

The wireless controller is available for all units. **(Sold separately)**

Washable Filtration

The unit shall have an easy clean, washable filter which allows for cleaning when needed. Clean filters provide optimum efficiency and fresh air into the room.

Single Zone Outdoor Unit

General

This unit is fully charged from the factory for 25 feet of piping. This unit is designed to operate at outdoor ambient temperatures as high as 118°F. Cooling capacities with the Pro Series mini-split air handler shown in the catalog 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 a weather-resistant powder paint.

Refrigerant Controls

Refrigeration system controls include condenser fan and compressor relay. High and low pressure controls are inherent to the compressor. A suction line multi function service valve is standard

Compressor

The compressor features internal over temperature and pressure protection; total dipped hermetic motor windings. Other features include: centrifugal oil pump and low vibration and noise.

Condenser Coil

The coil shall consist of aluminum finned coils brazed to copper tubing. The coil provides air flow resistance and efficient heat transfer. The coil is protected by the casing.

Low Ambient Cooling

Matched Pro Series ductless products, have a cooling and heating capability to 0° F.



06/15



The Manufacturer has a policy of continuous product and product data improvement and it reserves the right to change design and specifications without notice.