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# SUBMITTAL

## R-410A Ducted Split System 20 Series, Inverter Systems - 60 Hz 4MXA2024A1 / 4TXD2036A1 and 4MXA2036A1 / 4TXD2036A1

### Specifications - IP

MODEL – Heat Pump	4MXA2024A1 / 4TXD2036A1	
	Cooling	Heating
RATED Volts/PH	208 / 230 / 1	
Frequency (Hz)	60Hz	
Rated Cooling / Heating Capacity (Btu/h):	24000	24000
Minimum Cooling Capacity (@95°F) (Btu/h): ②	9000	-
Maximum Cooling Capacity (@95°F) (Btu/h): ②	25000	-
Minimum Heating Capacity (@47°F) (Btu/h): ②	-	9500
Maximum Heating Capacity (@47°F) (Btu/h): ②	-	26000
Rated Heating Capacity (@17°F) (Btu/h): ②	-	16300
Total Capacity (W):	7030	7030
Nominal Power Input (W)	1920	1760
Nominal Input Current (A)	7.0	7.0
SEER / HSPF	20.0	10.5
EER / COP (Btu/h/W)	12.5	13.65
Air Flow Volume (CFM)	3000	
Dehumidifying Volume (pt./h)	6.03	
<b>Indoor Unit</b>	<b>4MXA2024A1</b>	
Fan Motor Speed (r/min)	750	
Fan Motor RLA(A)	2.1	
Evaporator	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	5/16	
Rows - Fins per inch	4 - 16	
Coil length (L) x height (H) x coil width (W) (inch)	16 11/32 x 2 x 18	
Sound PRESSURE Level dB (A) ①	45	
Uncrated Dimension (HxWxD) (inch)	21 1/4 x 21 1/4 x 48 1/4	
Crated Dimension of Package (L/W/H) (inch)	26 x 23 3/4 x 50 3/8	
Net Weight /Gross Weight (lbs)	156.5 / 169.8	
<b>Outdoor Unit</b>	<b>4TXD2036A1</b>	
Compressor Type	Inverter Rotary	
Compressor Oil Type	FW68DA or equivalent	
Compressor RLA(A)	16.0	
Compressor Power Input(W)	3680	
Throttling Method	EEV	
Working Temp Range (°F)	5 ~ 129.2	-22 ~ 75.2
Condenser	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	φ 5/16	
Rows - Fins per inch	2 - 18	
Coil length (L) x height (H) x coil width (W) (inch)	45 7/16 x 31 3/16 x 1 1/2	
Fan Motor Speed (rpm)	700	
Fan Motor RLA (A)	1.5	
Air Flow Volume of Outdoor Unit (CFM)	3000	
Fan Diameter (inch)	21 5/8	
Defrosting Method	Automatic Defrosting	
Sound PRESSURE Level dB (A) ①	55	
Uncrated Dimension (HxWxD) (inch)	37 x 18 1/8 x 32 1/4	
Crated Dimension of Package (L/W/H) (inch)	42 5/8 x 22 5/16 x 38 5/16	
Net Weight /Gross Weight (lbs)	217.2 / 240.3	
Refrigerant Charge (lbs)	9.3	
MCA	24	
MOP	35	
<b>Connection Pipe</b>		
Gas additional charge(oz/ft)	0.2	
Outer Diameter Liquid Pipe (inch)	3/8	
Outer Diameter Gas Pipe (inch)	3/4	
Max Height Distance (ft)	49	
Max Length Distance (ft)	98	

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

② Capacities based on fixed compressor speed AHRI validation testing

# Specifications - SI

MODEL – Heat Pump	4MXA2024A1 / 4TXD2036A1	
	Cooling	Heating
RATED Volts/PH	208 / 230 / 1	
Frequency (Hz)	60Hz	
Rated Cooling / Heating Capacity (Btu/h):	24000	24000
Minimum Cooling Capacity (@35°C) (Btu/h): ②	9000	-
Maximum Cooling Capacity (@35°C) (Btu/h): ②	25000	-
Minimum Heating Capacity (@8.3°C) (Btu/h): ②	-	9500
Maximum Heating Capacity (@8.3°C) (Btu/h): ②	-	26000
Rated Heating Capacity (@-8.3°C) (Btu/h): ②	-	16300
Total Capacity (W):	7030	7030
Nominal Power Input (W)	1920	1760
Nominal Input Current (A)	7.0	7.0
SEER / HSPF	20.0	10.5
EER / COP (Btu/h)/W	12.5	13.65
Air Flow Volume (m³/h)	5100	
Dehumidifying Volume (L/h)	2.85	
<b>Indoor Unit</b>	<b>4MXA2024A1</b>	
Fan Motor Speed (r/min)	750	
Fan Motor RLA(A)	2.1	
Evaporator	Aluminum Fin-Copper Tube	
Pipe Diameter (mm)	φ 7	
Rows - Fins per inch	4 - 16	
Coil length (L) x height (H) x coil width (W) (mm)	415 x 50.8 x 457.2	
Sound PRESSURE Level dB (A) ①	45	
Uncrated Dimension (HxWxD) (mm)	540 x 540 x 1224	
Crated Dimension of Package (L/W/H) (mm)	660 x 603 x 1280	
Net Weight /Gross Weight (kg)	71 / 77	
<b>Outdoor Unit</b>	<b>4TXD2036A1</b>	
Compressor Type	Inverter Rotary	
Compressor Oil Type	FW68DA or equivalent	
Compressor RLA(A)	16.0	
Compressor Power Input(W)	3680	
Throttling Method	EEV	
Working Temp Range (°C)	-15 ~ 54	-30 ~ 24
Condenser	Aluminum Fin-Copper Tube	
Pipe Diameter (mm)	φ 7.94	
Rows - Fins per inch	2 - 18	
Coil length (L) x height (H) x coil width (W) (mm)	1154 x 792 x 38.1	
Fan Motor Speed (rpm)	700	
Fan Motor RLA (A)	1.5	
Air Flow Volume of Outdoor Unit (m³h)	5100	
Fan Diameter (mm)	550	
Defrosting Method	Automatic Defrosting	
Sound PRESSURE Level dB (A)①	55	
Uncrated Dimension (HxWxD) (mm)	940 x 460 x 820	
Crated Dimension of Package (L/W/H) (mm)	1083 x 573 x 973	
Net Weight /Gross Weight (kg)	98.5 / 109	
Refrigerant Charge (kg)	4.2	
MCA	24	
MOP	35	
<b>Connection Pipe</b>		
Gas additional charge(g/m)	18.6	
Outer Diameter Liquid Pipe (mm)	φ 9.5	
Outer Diameter Gas Pipe (mm)	φ 19	
Max Height Distance (m)	15	
Max Length Distance (m)	30	

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

② Capacities based on fixed compressor speed AHRI validation testing

# Specifications - IP

<b>MODEL – Heat Pump</b>	<b>4MXA2036A1 / 4TXD2036A1</b>	
	<b>Cooling</b>	<b>Heating</b>
RATED Volts/PH	208 / 230 / 1	
Frequency (Hz)	60Hz	
Rated Cooling / Heating Capacity (Btu/h):	36000	36000
Minimum Cooling Capacity (@95°F) (Btu/h): ②	11000	-
Maximum Cooling Capacity (@95°F) (Btu/h): ②	37000	-
Minimum Heating Capacity (@47°F) (Btu/h): ②	-	10000
Maximum Heating Capacity (@47°F) (Btu/h): ②	-	38000
Rated Heating Capacity (@17°F) (Btu/h): ②	-	24000
Total Capacity (W):	10550	10550
Nominal Power Input (W)	3600	3510
Nominal Input Current (A)	15.0	15.0
SEER / HSPF	18.0	10.0
EER / COP (Btu/h)/W	10.0	10.24
Air Flow Volume (CFM)	3470	
Dehumidifying Volume (pt./h)	6.03	
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<b>Indoor Unit</b>	<b>4MXA2036A1</b>	
Fan Motor Speed (r/min)	820	
Fan Motor RLA (A)	2.1	
Evaporator	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	5/16	
Rows - Fins per inch	4 - 16	
Coil length (L) x height (H) x coil width (W) (inch)	16 11/32 x 2 x 18	
Sound PRESSURE Level dB (A) ①	47	
Uncrated Dimension (HxWxD) (inch)	21 1/4 x 21 1/4 x 48 1/4	
Crated Dimension of Package (L/W/H) (inch)	26 x 23 3/4 x 50 3/8	
Net Weight /Gross Weight (lbs)	156.5 / 169.8	
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<b>Outdoor Unit</b>	<b>4TXD2036A1</b>	
Compressor Type	Inverter Rotary	
Compressor Oil Type	FW68DA or equivalent	
Compressor RLA(A)	16.0	
Compressor Power Input(W)	3680	
Throttling Method	EEV	
Working Temp Range (°F)	5 ~ 129.2	-22 ~ 75.2
Condenser	Aluminum Fin-Copper Tube	
Pipe Diameter (inch)	φ 5/16	
Rows - Fins per inch	2 - 18	
Coil length (L) x height (H) x coil width (W) (inch)	45 7/16 x 31 3/16 x 1 1/2	
Fan Motor Speed (rpm)	820	
Fan Motor RLA (A)	1.5	
Air Flow Volume of Outdoor Unit (CFM)	3470	
Fan Diameter (inch)	21 5/8	
Defrosting Method	Automatic Defrosting	
Sound PRESSURE Level dB (A)①	57	
Uncrated Dimension (HxWxD) (inch)	37 x 18 1/8 x 32 1/4	
Crated Dimension of Package (L/W/H) (inch)	42 5/8 x 22 5/16 x 38 5/16	
Net Weight /Gross Weight (lbs)	217.2 / 240.3	
Refrigerant Charge (lbs)	9.3	
MCA	24	
MOP	35	
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<b>Connection Pipe</b>		
Gas additional charge(oz/ft)	0.2	
Outer Diameter Liquid Pipe (inch)	3/8	
Outer Diameter Gas Pipe (inch)	3/4	
Max Height Distance (ft)	49	
Max Length Distance (ft)	98	

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

② Capacities based on fixed compressor speed AHRI validation testing

# Specifications - SI

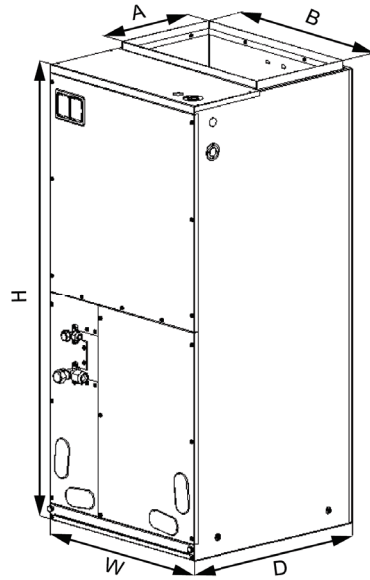
MODEL – Heat Pump	4MXA2036A1 / 4TXD2036A1	
	Cooling	Heating
RATED Volts/PH	208 / 230 / 1	
Frequency (Hz)	60Hz	
Rated Cooling / Heating Capacity (Btu/h):	36000	36000
Minimum Cooling Capacity (@35°C) (Btu/h): ②	11000	-
Maximum Cooling Capacity (@35°C) (Btu/h): ②	37000	-
Minimum Heating Capacity (@8.3°C) (Btu/h): ②	-	10000
Maximum Heating Capacity (@8.3°C) (Btu/h): ②	-	38000
Rated Heating Capacity (@-8.3°C) (Btu/h): ②	-	24000
Total Capacity (W):	10550	10550
Nominal Power Input (W)	3600	3510
Nominal Input Current (A)	15.0	15.0
SEER / HSPF	18.0	10.0
EER / COP (Btu/h)/W	10.0	10.24
Air Flow Volume (m³/h)	5900	
Dehumidifying Volume (L/h)	2.85	
<b>Indoor Unit</b>		
	<b>4MXA2036A1</b>	
Fan Motor Speed (r/min)	820	
Fan Motor RLA (A)	2.1	
Evaporator	Aluminum Fin-Copper Tube	
Pipe Diameter (mm)	φ 7	
Rows - Fins per inch	4 - 16	
Coil length (L) x height (H) x coil width (W) (mm)	415 x 50.8 x 457.2	
Sound PRESSURE Level dB (A) ①	47	
Uncrated Dimension (HxWxD) (mm)	540 x 540 x 1224	
Crated Dimension of Package (L/W/H) (mm)	660 x 603 x 1280	
Net Weight /Gross Weight (kg)	71 / 77	
<b>Outdoor Unit</b>		
	<b>4TXD2036A1</b>	
Compressor Type	Inverter Rotary	
Compressor Oil Type	FW68DA or equivalent	
Compressor RLA(A)	16.0	
Compressor Power Input(W)	3680	
Throttling Method	EEV	
Working Temp Range (°C)	-15 ~ 54	-30 ~ 24
Condenser	Aluminum Fin-Copper Tube	
Pipe Diameter (mm)	φ 7.94	
Rows - Fins per inch	2 - 18	
Coil length (L) x height (H) x coil width (W) (mm)	1154 x 792 x 38.1	
Fan Motor Speed (rpm)	820	
Fan Motor RLA (A)	1.5	
Air Flow Volume of Outdoor Unit (m³/h)	5900	
Fan Diameter (mm)	550	
Defrosting Method	Automatic Defrosting	
Sound PRESSURE Level dB (A)①	57	
Uncrated Dimension (HxWxD) (mm)	940 x 460 x 820	
Crated Dimension of Package (L/W/H) (mm)	1083 x 573 x 973	
Net Weight /Gross Weight (kg)	98.5 / 109	
Refrigerant Charge (kg)	4.2	
MCA	24	
MOP	35	
<b>Connection Pipe</b>		
Gas additional charge(g/m)	18.6	
Outer Diameter Liquid Pipe (mm)	φ 9.5	
Outer Diameter Gas Pipe (mm)	φ 19	
Max Height Distance (m)	15	
Max Length Distance (m)	30	

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

② Capacities based on fixed compressor speed AHRI validation testing

# Unit Dimensions

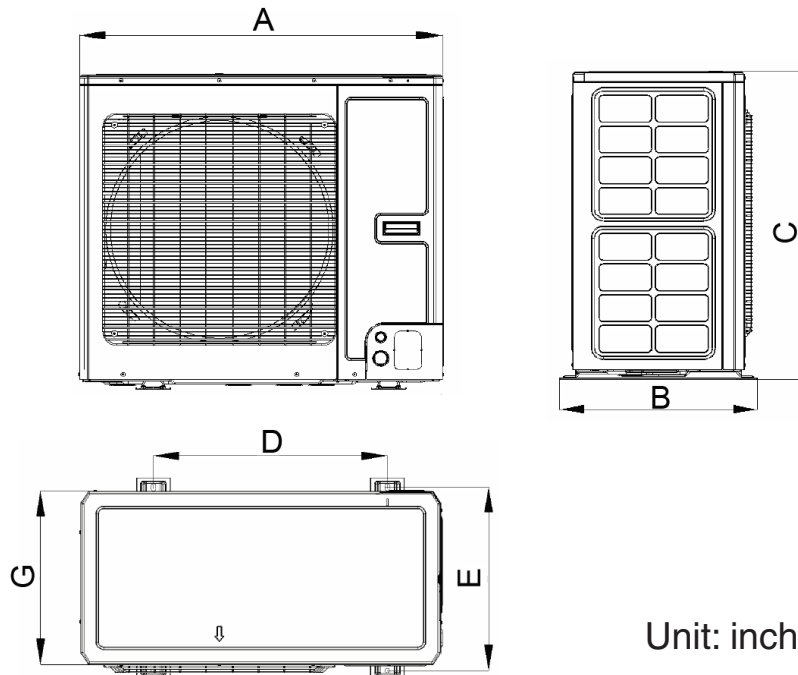
## Indoor Units 24K & 36K



Unit: inch(mm)

Model	Dimensions	W	D	H	A	B
4MXA2024A1		21-1/4	21-1/4	48-1/4	11-5/8	20
4MXA2036A1		(540)	(540)	(1224)	(295)	(508)

## Outdoor Unit 36K



Unit: inch(mm)

Model	Dimensions	A	B	C	D	E	G
4TXD2036A1		37	20-7/8	32-1/4	24	19-1/8	18-1/8
		(940)	(530)	(820)	(610)	(486)	(460)

# Performance Data

For 4TXD2036A1 / 4MXA2024A1:

## Cooling Mode Performance Data

Outdoor Temperature		Return Air Temperature					
		60F (15C)		70F (21C)		80F (27C)	
DB C	DB F	Capacity	SHC	Capacity	SHC	Capacity	SHC
10	50	17600	13816	20400	16014	24000	18840
18	65	17600	14080	20400	16320	24000	19200
24	75	17600	14045	20400	16279	24000	19152
30	85	17600	13992	20400	16218	25000	19875
35	95	17600	14080	20400	16320	25000	20000
41	105	17600	13904	20400	16116	24000	18960
46	115	17600	14256	20400	16524	24000	19440

- DB - Dry Bulb
- SHC - Sensible Heat Capacity (BtuH)

## Heating Mode Performance Data

Outdoor Temperature		Return Air Temperature		
		60F (15C)	70F (21C)	80F (27C)
DB C	DB F	Capacity	Capacity	Capacity
-30	-22	18900	18700	18300
-26	-15	22200	22000	21500
-21	-5	24200	24000	23500
-15	5	24200	24000	23500
-8	17	25000	24000	23500
0	32	25000	24000	23500
8	47	27000	26000	24500
15	60	29000	28000	26000

- DB - Dry Bulb

Capacities in these performance tables reflect normal operation at the temperatures indicated. See specification tables above for certified values under prescribed test conditions.

**For 4TXD2036A1 / 4MXA2036A1:**

**Cooling Mode Performance Data**

Outdoor Temperature		Return Air Temperature					
		60F (15C)		70F (21C)		80F (27C)	
DB C	DB F	Capacity	SHC	Capacity	SHC	Capacity	SHC
10	50	23400	16380	30600	21420	36000	25200
18	65	23400	16380	30600	21420	36000	25200
24	75	23400	16333	30600	21359	36000	25128
30	85	23400	16263	30600	21267	37000	25715
35	95	23400	16380	30600	21420	37000	25900
41	105	23400	16146	30600	21114	36000	24840
46	115	21450	15230	28050	19916	33000	23430

- DB - Dry Bulb
- SHC - Sensible Heat Capacity (BtuH)

**Heating Mode Performance Data**

Outdoor Temperature		Return Air Temperature		
		60F (15C)	70F (21C)	80F (27C)
DB C	DB F	Capacity	Capacity	Capacity
-30	-22	18600	18400	18000
-26	-15	21300	21100	20600
-21	-5	25500	25200	24800
-15	5	31000	30000	26000
-8	17	37000	36000	31000
0	32	37000	36000	33000
8	47	38500	38000	33000
15	60	38500	38000	30000

- DB - Dry Bulb

Capacities in these performance tables reflect normal operation at the temperatures indicated. See specification tables above for certified values under prescribed test conditions.

## About Trane and American Standard Heating and Air Conditioning

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