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SUBMITTAL

17 SERIES

Single Zone Mini-Split Inverter System

M4MCW1724A1N0A
M4TCS1724A11NA

Specifications

MODEL - Cooling Only	M4MCW1724A / M4TCS1724A
RATED Volts/PH	208 / 230 / 1
Frequency (Hz)	60Hz
Rated Cooling Capacity (Btu/h):	22000
Minimum Cooling Capacity (@95F) (Btu/h):	5289
Maximum Cooling Capacity (@95F) (Btu/h):	25249
Total Capacity (W) (High/Standard/Low):	7400/6450/1550
Rated Power Input (W)	2500
Nominal Input Current (A)	12
SEER	17
Air Flow Volume (CFM) ②	677/588/559/500/471/441/412
Dehumidifying Volume (pt./h)	5.3
EER (Btu/W hr)	11.60

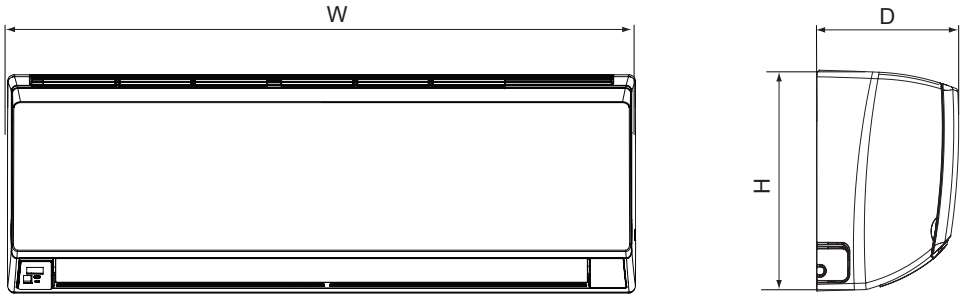
Indoor Unit	M4MCW1724A1N0
Fan Motor Speed (r/min)	1300/1150/1100/1000/950/900/850
Fan Motor RLA(A)	0.30
Evaporator	Aluminum Fin-Copper Tube
Pipe Diameter (inch)	2/7
Row Fin Gap (inch)	2-1/18
Coil length (L) x depth (D) x coil width (W) (inch)	33.46 x 1 x 13.5
Output of Swing Motor (W)	2.5
Fuse (A)	3.15
Sound Power Level dB (A)②	61/56/55/52/50/48/47
Sound PRESSURE Level dB (A) ① ②	51/46/45/42/40/38/37
Uncrated Dimension (W/H/D) (inch)	42 28/64 × 12 51/64 × 9 44/64
Crated Dimension of Package (L/W/H) (inch)	44 29/64 × 16 4/64 × 13 22/64
Net Weight /Gross Weight (lbs)	36.4 / 43.0

Outdoor Unit	M4TCS1724A11N
Compressor Type	Rotary
Compressor Oil	FW68DA or equivalent
L.R.A. (A)	35
Compressor RLA(A)	10.6
Compressor Power Input(W)	1330
Throttling Method	Capillary
Working Temp Range (°F)	-0.4 ~ 122
Condenser	Aluminum Fin-Copper Tube
Pipe Diameter (inch)	1/5
Row Fin Gap (inch)	2 - 1/18
Coil length (L) x depth (H) x coil width (W) (inch)	33.66x0.90x24
Fan Motor Speed (rpm)	880
Output of Fan Motor (W)	60
Fan Motor RLA (A)	0.6
Air Flow Volume of Outdoor Unit (CFM)	3200
Fan Diameter (inch)	20 1/2
Defrosting Method	-
Sound Power Level dB (A)	68
Sound PRESSURE Level dB (A) ①	58
Uncrated Dimension (W/H/D) (inch)	37 46/64 × 25 63/64 × 15 53/64
Crated Dimension of Package (L/W/H) (inch)	40 33/64 × 17 53/64 × 28 10/64
Net Weight /Gross Weight (lbs)	89.3 / 99.2
Refrigerant Charge (oz)	42.3
MCA	15.0
MOP	20

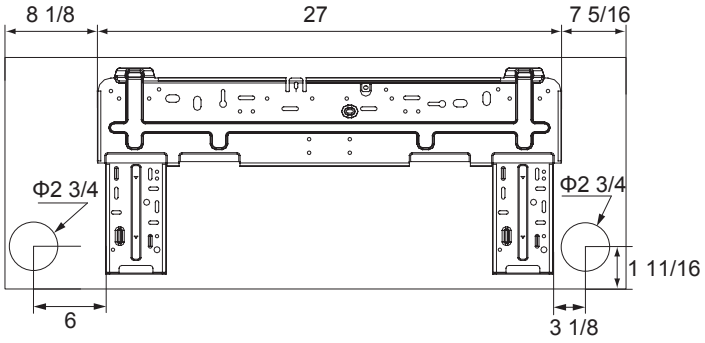
Connection Pipe	
Gas additional charge(oz/ft)	0.2
Outer Diameter Liquid Pipe (inch)	1/4
Outer Diameter Gas Pipe (inch)	5/8
Max Height Distance (ft)	32.8
Max Length Distance (ft)	82

① Sound PRESSURE Level @ 3.3 ft. dB(A)
② At noted fan motor speeds

Unit Dimensions



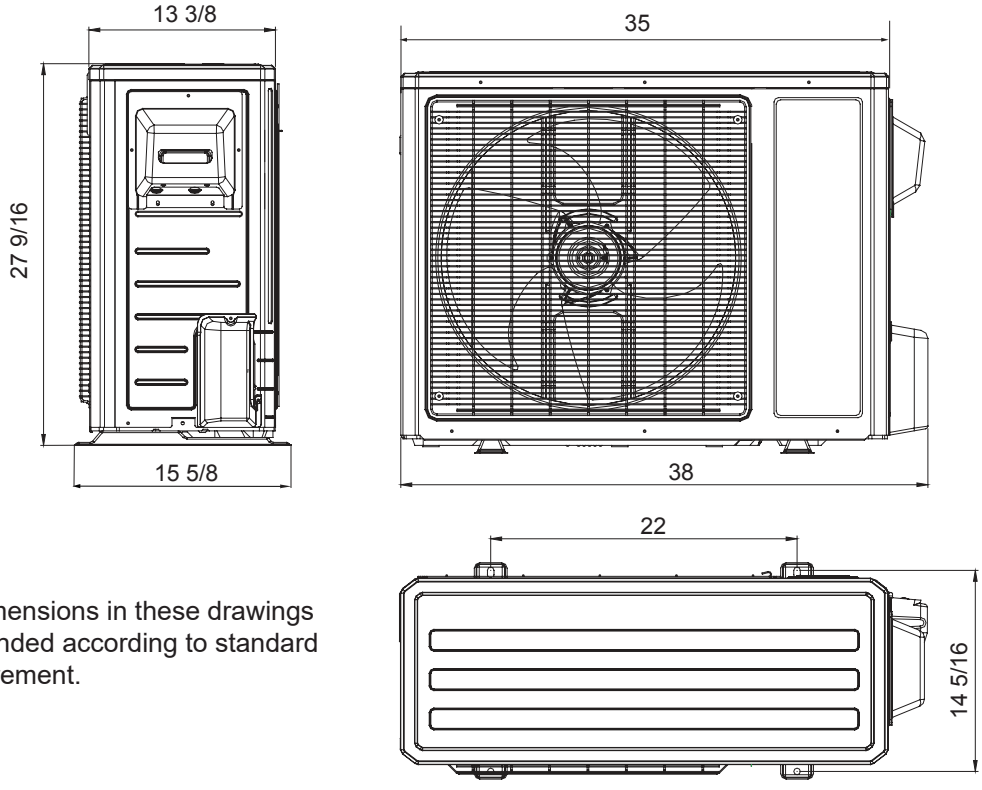
24K



The dimensions in these drawings are rounded according to standard measurement.

Unit: inch

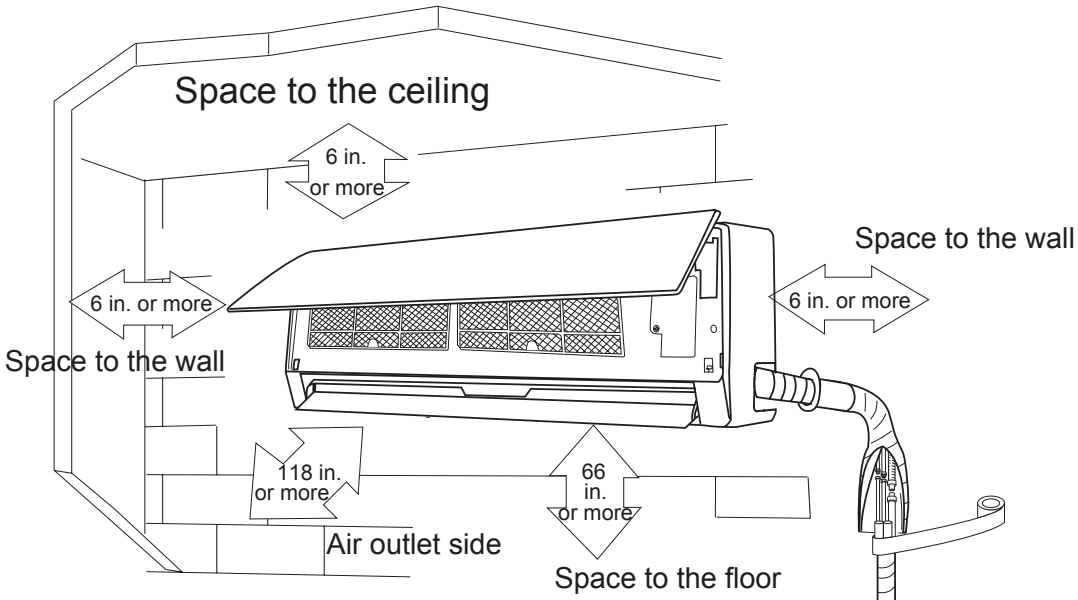
Models	W	H	D
24K	42 1/2	12 13/16	9 11/16



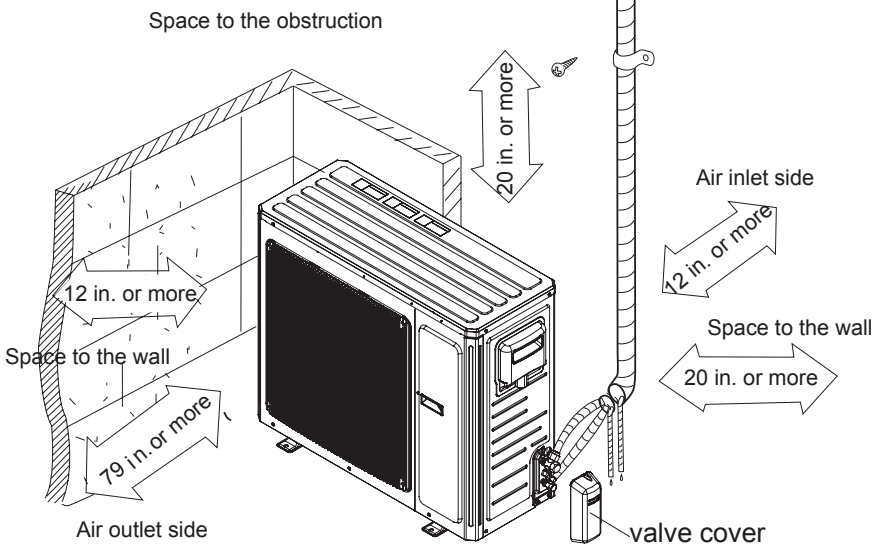
The dimensions in these drawings are rounded according to standard measurement.

Unit: inch

Clearance Requirements



The dimensions of the space necessary for correct installation of the appliance including the minimum permissible distances to adjacent structures



NOTE:

The maximum recommended height from the floor to the bottom of the indoor unit is 11.5 ft. (3.5 m).

Performance Data

Cooling Capacity 24,000 (Bthu/h)
M4MCW1724A1N0 / M4TCS1724A11N

Outdoor		68F DB (20C)		73F DB (23C)		80F DB (27C)		82F DB (28C)	
Coil air		57F WB (14C)		61F WB (16C)		67F WB (19C)		68F WB (20C)	
DB F	DB C	TC*	SHC**	TC	SHC	TC	SHC	TC	SHC
0	-18	7200	5200	9100	6600	11100	8100	12400	9000
5	-15	9400	6900	11400	8300	13300	9700	13800	10100
14	-10	10600	7800	12600	9300	14600	10700	15100	11100
23	-5	11100	8200	13100	9700	15100	11100	15800	11700
32	-0	11600	8600	13600	10100	15600	11600	16500	12300
41	5	13100	9800	15100	11300	17000	12800	17800	13300
50	10	14600	11000	16500	12500	18500	14000	19300	14500
59	15	15600	11800	17500	13300	19500	14800	19800	15000
68	20	16300	12500	18300	14000	20200	15500	20600	15700
77	25	20800	16000	22800	17500	24800	19000	25000	19200
86	30	22400	17400	24400	19000	26400	20400	25400	19700
95	35	20800	16200	22800	17700	24800	19300	26200	20400
104	40	18000	14200	20000	15700	22000	17300	24400	19200
113	45	16500	13100	18500	14600	20600	16200	22400	17800
122	50	14100	11200	16100	12800	18000	14300	20000	15900
129	54	10600	8500	12600	10100	14600	11700	19300	15400
*Total Capacity **Sensible Heat Capacity									

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

Mechanical Specifications

Mini–Split Outdoor Unit

General

This unit is fully charged from the factory for up to 25 feet of piping. This unit is designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities with the 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 ductless products, have cooling capabilities at outdoor ambient temperatures as low as 0° F.

Mini–Split Indoor High Wall

General

The High Wall mounted type air handler shall be completely factory assembled including coil, condensate drain pan, fan motor, washable filter, air purifying filter and electric controls to be used with a wireless remote controller. Unit shall be shipped with a unit mounting plate. Unit shall be matched with an outdoor unit, rated and tested in accordance with AHRI standard. Unit shall be ETL listed.

Unit Casing

Casing shall be provided with knockouts on the right, and left of the unit to facilitate piping and electrical connection on either 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 remotely through wall-mounted wired options **(sold separately)** as well as a wireless remote option.

Remote Controller

The unit shall have a wireless infrared remote controller with easy reading digital display panel to start, stop and regulate the air conditioner from a distance.

The wireless controller is included with all units.

Healthy Filters

The unit shall have an active carbon and catechin filter with the unit.The filters need to be cleaned at least once a year.

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