

TECHNICAL SPECIFICATIONS

MT4(B,Q)D Series

High Efficiency Heat Pumps 13+ SEER Residential System

1.5 - 5 Ton Capacity

The MT4(B,Q)D Series now offers the choice of a heat pump that uses a more efficient and environmentally friendly refrigerant designated R-410A. The heat pump, when combined with our engineered matched indoor coils, offer a full line of quality, split-system heat pumps. Units are ideally sized for manufactured housing applications.



WARRANTY

- 1 year limited parts
- 5 year compressor
- 1 year mileage
- 1 year labor

FEATURES and BENEFITS

- **R-410A Refrigerant:** Earth friendly non- ozone depleting refrigerant.
- **Copper Tube / Aluminum Fin Coils:** Both indoor and outdoor coils are designed to optimize heat transfer, minimize size and cost, and increase durability and reliability.
- **Permanently Lubricated Motor:** A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **Time/Temperature Defrost:** A reliable, industry standard control offers various time settings to meet any type climate.
- **Removable Top Grille Assembly:** Allows ease of service from the top without disconnecting fan motor leads.
- **Composite Base Pan –** Absorbs sound and corrosion resistant. Composite is also stronger and lighter than steel.
- **One Piece Top/Orifice:** Designed for maximum airflow and quiet operation.
- **Common Suction Service Port:** This port allows the contractor to read the suction pressure in all modes of operation without removing any panels, saving time and increasing serviceability.
- **Five Minute Restart Time Delay:** When the unit shuts down, a five minute delay keeps the unit from restarting, eliminating the highest cause for compressor failure.
- **Suction Accumulator:** Protection from liquid flood back and future compressor failures. All 12 seer H.P. have scroll compressors.
- **Hot Gas Muffler:** Reduces compressor noise and vibration.
- **Easy Compressor and Control Access:** Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit.
- **Durable, Attractive Cabinet:** Designed using galvanized steel with a polyester urethane finish. The 950 hour salt spray finish is 1.5 mil thick and resists corrosion 50% better than comparable units.
- **High Pressure Switch:** Protects against abnormally high system pressures. Auto-reset feature prevents nuisance service calls.
- **Liquid Line Filter Drier:** Included with outdoor unit.

MODEL IDENTIFICATION CODES

EX: MT4(B,Q)D-036K

S - Air Conditioner
T - Heat Pump

Generation 1, 2, 3, etc.

MT

4

B

D

-

036

K

A

Product
Identifier

Nominal
Capacity
(000) BTU

Revision

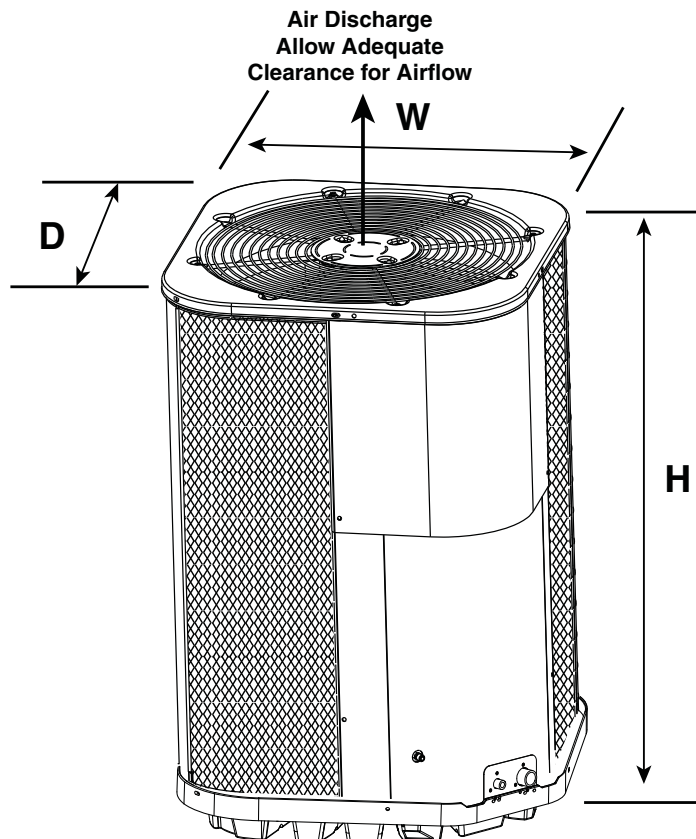
Electrical Code
K = 208/230-60-1

BD = Braze 13 SEER
QD = Quick Connect 13 SEER

DIMENSIONS

HEAT PUMP OUTDOOR SECTION

MT4(B,Q)D	018K	024K	030K	036K	042K	048K	060K
H	31	35	39	43	39	43	43
W	30-3/4	30-3/4	30-3/4	30-3/4	30-3/4	30-3/4	30-3/4
D	30-3/4	30-3/4	30-3/4	30-3/4	30-3/4	30-3/4	30-3/4



PHYSICAL AND ELECTRICAL SPECIFICATIONS / OUTDOOR UNITS

13 SEER — High Efficiency — Single Phase

Model Number MT4(B,Q)D			018K	024K	030K	036K	042K	048K	060K	
Electrical Data	Volts-Cycles-Phase (1)		208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	
	Total Amps		10	14.4	15.1	17.6	19.3	23.2	27.6	
	Delay Fuse Max. (2)		20	30	30	35	40	45	50	
	Min. Circuit Ampacity		12.2	17.8	18.6	21.8	23.8	28.6	34.2	
Condenser Data	Coil	Area	17.5	20.3	22.8	25.4	22.8	25.4	25.4	
		Rows-FPI	1-20	1-20	1-20	1-20	2-16	2-16	2-16	
		Tube Dia	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.	3/8" O.D.	
	Fan Motor	Type	PSC	PSC	PSC	PSC	PSC	PSC	PSC	
		Amps	1.0	1.0	1.0	1.0	1.4	1.4	1.4	
		Watts-HP	0.25	0.25	0.25	0.25	0.25	0.25	0.25	
	Fan Blade	Dia-# Blades	24"- 2	24"- 2	24"- 2	24"- 2	24"- 2	24"- 2	24"- 2	
		SCFM	3000	3200	3300	3400	3700	3800	3800	
	Compressor Data	RLA	9	13.4	14.1	16.6	17.9	21.8	26.2	
		LRA	48	58.3	73	79	112	117	134	
Refrigerant suction line O.D.(all length of liquid line are 3/8" O.D.)			0-24 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	
			25-39 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (3)
			40-75 ft.	3/4"	3/4"	3/4"	7/8"	7/8"	7/8"	1-1/8" (3)
Refrigerant charge (R-410A) in ounces for outdoor unit, indoor unit and 15' lineset.			112	138	145	168	243	248	248	
Weight Approximate (lbs.)			Net	166	171	176	181	247	280	290
			Ship	175	180	185	190	260	295	305

(1) Operating Voltage Range: 187v min. — 253v max.

(2) HACR Type Circuit Breakers may be used.

(3) Requires 7/8" to 1-1/8" reducer from line to unit.

ACCESSORIES - Condensing Unit

Start Assist Kit - 912933

Provides additional starting torque for the compressor motor when operating with low line voltage or high operating temperatures.

Thermostat

Two thermostats are available. Both are offered for two-stage heat and one-stage cool application.

912929 - Has choice of automatic/manual changeover.

912930 - Is manual changeover only.

Outdoor Thermostat - 913235

Two-stage logic provides ability to lock out electric strips down to balance point and bring on in stages.

Fan Delay Kit (TDR)

911758 - 80-second fan delay.

Liquid Line Solenoid (LLS) Kit - 912650

COPPER WIRE SIZE — AWG (1% Voltage Drop)				
Supply Wire Length-Feet				Supply Circuit Ampacity
200	150	100	50	
6	8	10	14	15
4	6	8	12	20
4	6	8	10	25
4	4	6	10	30
3	4	6	8	35
3	4	6	8	40
2	3	4	6	45
2	3	4	6	50

Wire Size based on N.E.C. for 60° type copper conductors.

SYSTEM HEATING & COOLING CAPACITIES

13 SEER — High Efficiency — Single Phase

M1 & M3 (+ Coleman/Vexar Gas or Electric)

Outdoor Unit	Indoor Coil + TDR	Coil Height	Cooling Capacity	SEER	EER	HSPF	SCFM	47F Capacity (Btu/h)	17F Capacity (Btu/h)
MT4QD-018K	C5(B,D,Q)A-X25U-B	19"	18,000	13.0	11.05	7.7	625	18,000	10,600
MT4(B,Q)D-024K	C5(B,D,Q)A-X25U-B	19"	23,600	13.0	12.6	9.0	750	23,600	13,600
MT4(B,Q)D-030K	C5(B,D,Q)A-X30U-B	19"	29,200	13.0	12	8.0	850	30,000	18,000
MT4(B,Q)D-036K	C5(B,D,Q)A-X36U-B	19"	35,400	13.0	11.8	8.0	1,180	36,000	23,000
MT4(B,Q)D-042K	CM4(B,Q)-53U	18 1/2"	39,000	13.0	11.5	8.0	1310	40,500	25,000
MT4(B,Q)D-048K	CM4(B,Q)-53U	18 1/2"	45,500	13.0	11.7	8.0	1400	46,500	30,600
MT4(B,Q)D-060K*	CM4(B,Q)-54U***	18 1/2"	51,000	13.0	11.5	7.6	1400	51,000	34,800

* 5 ton condenser is not a valid Match with the M3

*** Requires 5 Ton Blower set at High Speed

E3

Outdoor Unit	Indoor Coil + TDR	Coil Height	Cooling Capacity	SEER	EER	HSPF	SCFM	47F Capacity (Btu/h)	17F Capacity (Btu/h)
MT4QD-018K	C5(B,D,Q)A-X25U-B	19"	18,000	13.0	11.05	7.7	625	18,000	10,600
MT4(B,Q)D-024K	C5(B,D,Q)A-X25U-B	19"	23,600	13.0	12.6	9.0	750	23,600	13,600
MT4(B,Q)D-030K	C5(B,D,Q)A-X30U-B	19"	29,200	13.0	12	8.0	850	30,000	18,000
MT4(B,Q)D-036K	C5(B,D,Q)A-X36U-B	19"	35,400	13.0	11.8	8.0	1,180	36,000	23,000
MT4(B,Q)D-036K	C5(B,D,Q)A-X37U-B	25"	35,400	13.0	11.8	8.0	1,180	36,000	23,000
MT4(B,Q)D-042K	CM4(B,Q)-53U	18 1/2"	39,000	13.0	11.5	8.0	1310	40,500	25,000
MT4(B,Q)D-042K	CM4(B,Q)-54U	18 1/2"	41,500	13.0	11.7	8.0	1400	41,500	25,200
MT4(B,Q)D-048K	CM4(B,Q)-53U	18 1/2"	45,500	13.0	11.7	8.0	1400	46,500	30,600
MT4(B,Q)D-048K	CM4(B,Q)-54U	18 1/2"	46,500	13.0	12.0	8.0	1400	46,500	30,200
MT4(B,Q)D-060K	CM4(B,Q)-56U**	24 1/2"	53,000	13.0	11.7	8.0	1600	54,000	37,000

** Requires 5 Ton Blower set at High Speed

See current AHRI Directory for certified combinations and ratings.
www.ahridirectory.org



GENERAL TERMS OF LIMITED WARRANTY

NORDYNE will furnish a replacement for any part of this product which fails in normal use and service within the first year of installation, in accordance with the terms of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the NORDYNE warranty department for a copy.

NORDYNE

COMPLETE COMFORT. GENUINE VALUE.

8000 Phoenix Parkway | O'Fallon, MO 63368-3827

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