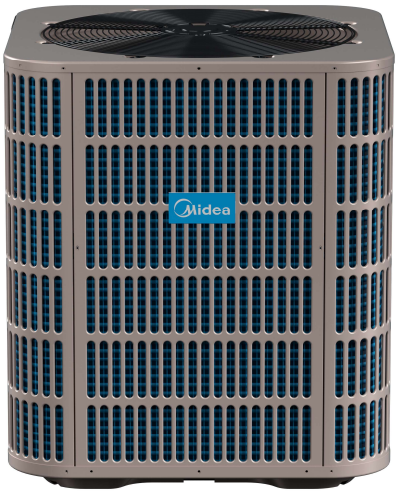
Midea M134A Series Air Conditioner

13.4 SEER2

Cooling capacity: 18 - 60 kBTU/h



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Standard Features:

- R410A chlorine-free refrigerant.
- Energy-efficient compressor.
- Internally protection against high temperature motor overload conditions.
- High quality condenser with inner-groove copper tube and aluminum fin.
- Service valves with sweat connections and easy-access gauge ports.
- Factory-installed high pressure switch
- AHRI certified and ETL listed
- Optional drier filter as accessory.

Cabinet Features:

- Unique sound control top design.
- Compact design, easy installation and transportation.
- Powder-painted galvanized steel cabinet.
- Wire fan discharge grille.
- Steel louver coil guard

1 Nomenclature

M	O	V	A	-	24	C	N1	-	M	134	G
1	2	3	4		5	6	7		8	9	10

Legend		
No.	**Code**	**Remarks**
1	M	Brand: Midea
2	O	Outdoor unit
3	V	Discharge type: vertical discharge
4	A	Version No.: A version
5	24	Capacity: 18: 18 kBtu/h; 24: 24 kBtu/h; 30: 30 kBtu/h; 36: 36 kBtu/h; 42: 42 kBtu/h; 48: 48 kBtu/h; 60: 60 kBtu/h;
6	C	Unit type: C: cooling only; H: heat pump
7	N1	Refrigerant type: N1: R410A
8	M	Power supply type: M: 1-Phase; X: 3-Phase
9	134	Efficiency: 134: 13.4 SEER; 152: 15.2 SEER
10	G	Compressor type: G: GMCC compressor; L: LG compressor

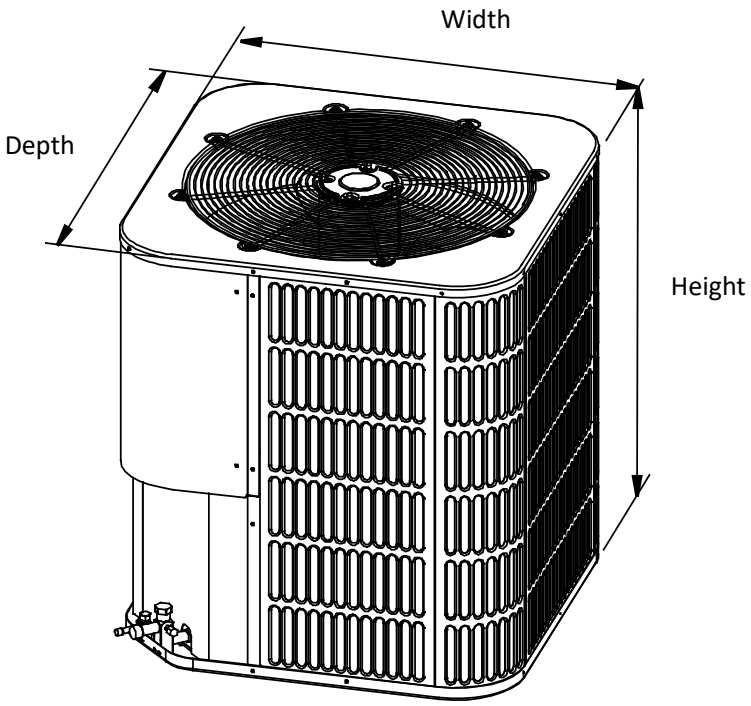
2 Specifications

	MOVA-18C N1-M134G	MOVA-24C N1-M134G	MOVA-30C N1-M134G	MOVA-36C N1-M134G
NOMINAL CAPACITY				
Cooling (BTU/h)	18,000	24,000	30,000	36,000
Heating (BTU/h)	/	/	/	/
ELECTRICAL DATA				
Voltage / Phase (60 Hz)	208/230 / 1	208/230 / 1	208/230 / 1	208/230 / 1
Min. / Max. Voltage	187/253	187/253	187/253	187/253
MCA	11.9	16.3	16.3	21.1
MOP	20	25	30	35
COMPRESSOR				
Type	Rotary	Rotary	Rotary	Rotary
Stage	Single	Single	Single	Single
RLA	8.2	11.8	11.8	15.1
LRA	35.0	43.0	58.0	72.0
CONDENSER COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Size(O.D)	9/32	3/16	3/16	3/16
FAN MOTOR				
Motor Type	ECM	ECM	ECM	ECM
Capacitor(uF)	/	/	/	/
Horsepower (HP)	1-1/6	1-1/6	1-1/6	1-1/3
Full Load Amps (FLA）	1.6	1.6	1.6	2.2
REFRIGERATION SYSTEM				
Liquid Valve Size (O.D.)	3/8	3/8	3/8	3/8
Suction Valve Size (O.D.)	3/4	3/4	3/4	3/4
Liquid Line Size (“O.D.)	3/8	3/8	3/8	3/8
Suction Line Size (“O.D.)	3/4	3/4	3/4	3/4
Refrigerant Charge (lbs. - oz.)	4 LBS.-4 OZ	5 LBS.	5 LBS.-12 OZ	5 LBS.-12 OZ
Superheat(°F)	9 °F	9 °F	9 °F	9 °F
OPERATION RANGE				
Cooling(°F)	55-115	55-115	55-115	55-115
Heating(°F)	/	/	/	/
SOUND POWER (DB)	69	72	75	76

Specifications

	MOVA-42C N1-M134L	MOVA-48C N1-M134L	MOVA-60C N1-M134L
NOMINAL CAPACITY			
Cooling (BTU/h)	42,000	48,000	60,000
Heating (BTU/h)	/	/	/
ELECTRICAL DATA			
Voltage / Phase (60 Hz)	208/230 / 1	208/230 / 1	208/230 / 1
Min. / Max. Voltage	187/253	187/253	187/253
MCA	24.8	29.7	38.6
MOP	40	50	60
COMPRESSOR			
Type	Scroll	Scroll	Scroll
Stage	Single	Single	Single
RLA	18.5	22.4	29.5
LRA	112.3	108.0	127.9
CONDENSER COIL			
Type	Tube & Fin	Tube & Fin	Micro Channel
Tube Size(O.D)	3/16	3/16	-
FAN MOTOR			
Motor Type	PSC	PSC	PSC
Capacitor(uF)	15	15	15
Horsepower (HP)	1-1/3	1-1/3	1-1/3
Full Load Amps (FLA）	1.7	1.7	1.7
REFRIGERATION SYSTEM			
Liquid Valve Size (O.D.)	3/8	3/8	3/8
Suction Valve Size (O.D.)	3/4	7/8	7/8
Liquid Line Size (“O.D.)	3/8	3/8	3/8
Suction Line Size (“O.D.)	3/4	7/8	11/8
Refrigerant Charge (lbs. - oz.)	7 LBS.-9 OZ	7 LBS.-12 OZ	8 LBS.-3 OZ
Superheat(°F)	9 °F	9 °F	9 °F
OPERATION RANGE			
Cooling(°F)	55-115	55-115	55-115
Heating(°F)	/	/	/
SOUND POWER (DB)	77	78	81

3 Dimensions

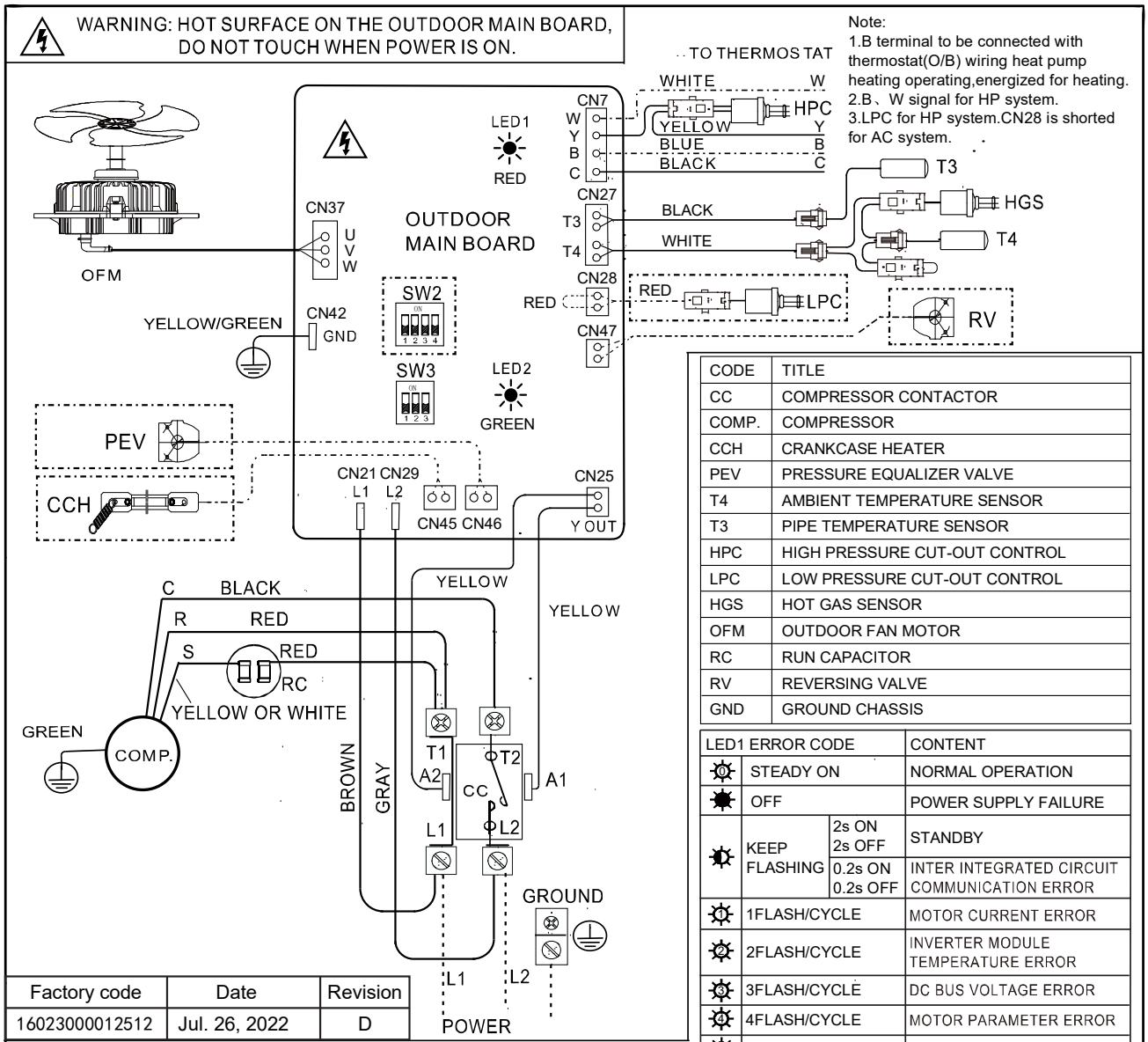


	MOVA-18C N1-M134G	MOVA-24C N1-M134G	MOVA-30C N1-M134G	MOVA-36C N1-M134G
UNIT DIMENSION AND WEIGHTS				
Height (in.)	24-15/16	24-15/16	24-15/16	24-15/16
Width (in.)	23-5/8	23-5/8	28	29-1/8
Depth (in.)	23-5/8	23-5/8	28	29-1/8
Weight (lbs.)	108	119	136	147

	MOVA-42C N1-M134L	MOVA-48C N1-M134L	MOVA-60C N1-M134L
UNIT DIMENSION AND WEIGHTS			
Height (in.)	33-3/16	33-3/16	33-3/16
Width (in.)	28	28	29-1/8
Depth (in.)	28	28	29-1/8
Weight (lbs.)	191	189	200

4 Wiring Diagrams

MOVA-18CN1-M134G; MOVA-24CN1-M134G; MOVA-30CN1-M134G; MOVA-36CN1-M134G



Factory code	Date	Revision
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CODE	TITLE
CC	COMPRESSOR CONTACTOR
COMP.	COMPRESSOR
CCH	CRANKCASE HEATER
PEV	PRESSURE EQUALIZER VALVE
T4	AMBIENT TEMPERATURE SENSOR
T3	PIPE TEMPERATURE SENSOR
HPC	HIGH PRESSURE CUT-OUT CONTROL
LPC	LOW PRESSURE CUT-OUT CONTROL
HGS	HOT GAS SENSOR
OFM	OUTDOOR FAN MOTOR
RC	RUN CAPACITOR
RV	REVERSING VALVE
GND	GROUND CHASSIS

LED1 ERROR CODE			CONTENT
	STEADY ON		NORMAL OPERATION
	OFF		POWER SUPPLY FAILURE
	KEEP FLASHING	2s ON 2s OFF	STANDBY
		0.2s ON 0.2s OFF	INTER INTEGRATED CIRCUIT COMMUNICATION ERROR
	1FLASH/CYCLE		MOTOR CURRENT ERROR
	2FLASH/CYCLE		INVERTER MODULE TEMPERATURE ERROR
	3FLASH/CYCLE		DC BUS VOLTAGE ERROR
	4FLASH/CYCLE		MOTOR PARAMETER ERROR
	5FLASH/CYCLE		MOTOR STARTUP FAILURE
	6FLASH/CYCLE		PHASE SEQUENCE ERROR

LED2 ERROR CODE	CONTENT
STEADY ON	NORMAL OPERATION
OFF	POWER SUPPLY FAILURE
1FLASH/CYCLE	T3 SENSOR FAILURE
2FLASH/CYCLE	T4 SENSOR FAILURE
3FLASH/CYCLE	LPC OPEN
5FLASH/CYCLE	OFM FAILURE
6FLASH/CYCLE	NO MACHINE TYPE

SET CAPACITY	MODEL	18K 1.5TON	24K 2TON	30K 2.5TON	36K 3TON	42K 3.5TON	48K 4TON	60K 5TON
SW2	13.4AC	011,0	011,0	001,0	010,1	/	/	/
	15.2AC	011,0	001,0	001,0	010,1	011,1	100,1	100,1
	15.2HP	011,0	001,0	001,0	010,1	011,1	100,1	100,1

0/1 DEFINITION OF EACH DIAL CODE SWITCH	
	means 0=OFF
	means 1=ON

SW2 - 4 definition	
	100W FAN MOTOR
	200W FAN MOTOR

CODE	TITLE
13.4AC	13.4 SEER COOL ONLY SYSTEM
15.2AC	15.2 SEER COOL ONLY SYSTEM
15.2HP	15.2 SEER HEAT PUMP SYSTEM

* THE FACTORY DEFAULT

SW3			
SW3 -1	ON	MANUAL DEFROST	
	OFF	AUTOMATIC DEFROST	*
SW3 -2	ON	RESERVED	
	OFF	NORMAL DEFROST	*
SW3 -3	ON	DEFROSTING CYCLE:30MIN	
	OFF	DEFROSTING CYCLE:60MIN	*

WARNING
- CABINET MUST BE PERMANENTLY GROUNDED AND ALL WIRING TO CONFORM TO I.E.C,N.E.C,C.L.C,AND LOCAL CODES AS APPLICABLE REPLACEMENT WIRE MUST BE THE SAME GAUGE AND INSULATION TYPE AS ORIGINAL WIRE.

LINE VOLTAGE
- FACTORY STANDARD
- FIELD INSTALLED
- FACTORY OPTIONAL

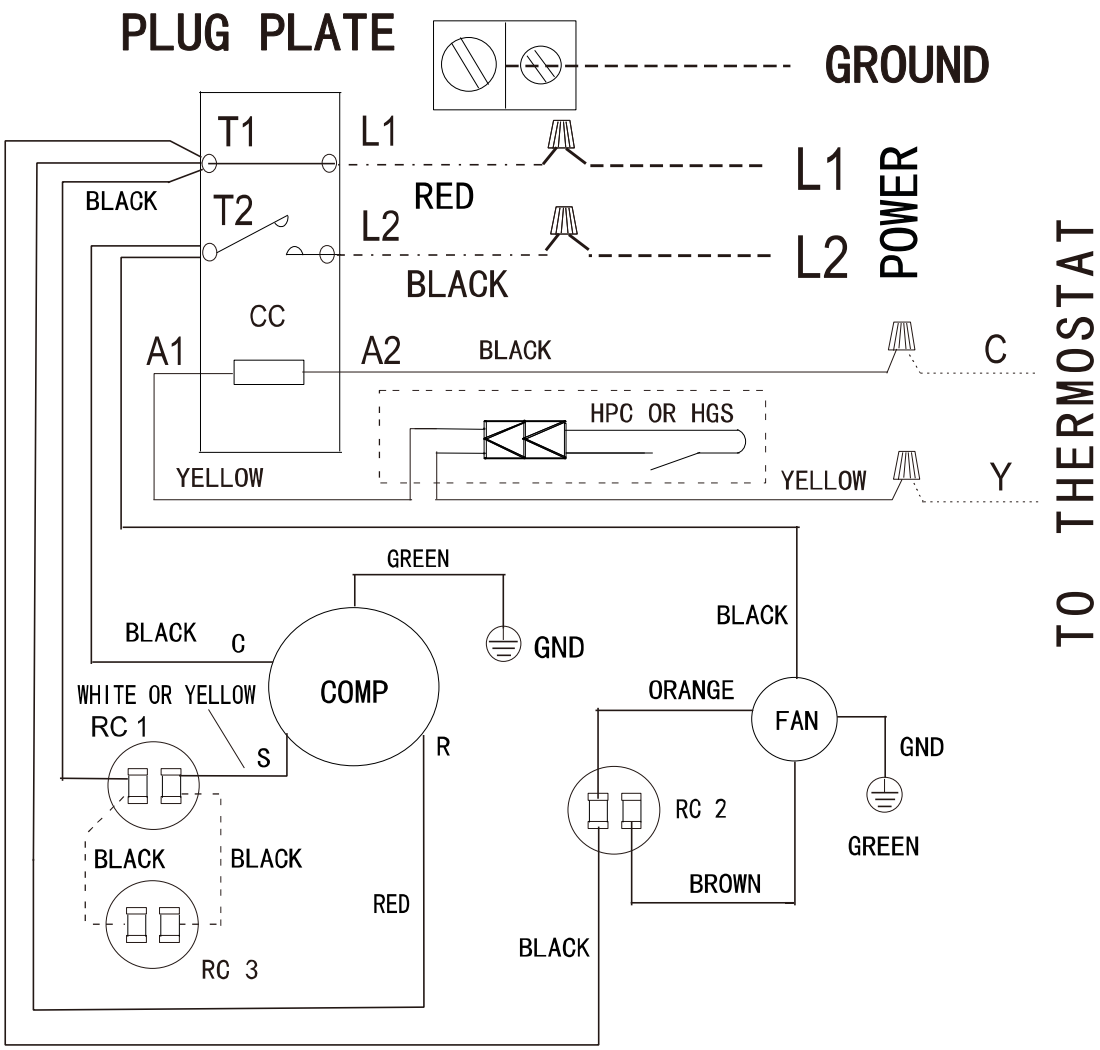
LOW VOLTAGE
- FACTORY STANDARD
- FIELD INSTALLED
- FACTORY OPTIONAL

USE COPPER CONDUCTORS ONLY

THE WIRING DIAGRAM SHOWN IS FOR REFERENCE ONLY.IT MAYBE DIFFERENT FROM THE ACTUAL PRODUCT.

Wiring Diagrams

MOVA-42CN1-M134L; MOVA-48CN1-M134L; MOVA-60CN1-M134L



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LOW VOLTAGE
FACTORY STANDARD
FIELD INSTALLED
FACTORY OPTIONAL
USE COPPER CONDUCTORS ONLY

CC	COMPRESSOR CONTACTOR
COMP	COMPRESSOR
RC 1	RUN CAPACITOR 1
RC 2	RUN CAPACITOR 2
RC 3	RUN CAPACITOR 3
HPC	HIGH PRESSOR CUT-OUT CONTROL
HGS	HOT GAS OR COMPRESSOR TOP SENSOR

WARNING: CABINET MUST BE PERMANMENTLY GOUNDED AND ALL WIRING TO CONFORM TO I.E.C,N.E.C,C.E.C,C.L.C,AND LOCAL CODES AS APPLICABLE REPLACEMENT WIRE MUST BE THE SAME GAUGE AND INSULATION TYPE AS ORIGINAL WIRE

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Midea Building Technologies Division
Midea Group

Add.: Midea Headquarters Building, 6 Midea Avenue, Shunde, Foshan, Guangdong, China

Postal code: 528311

mbt.midea.com / global.midea.com / tsp.midea.com

Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.