



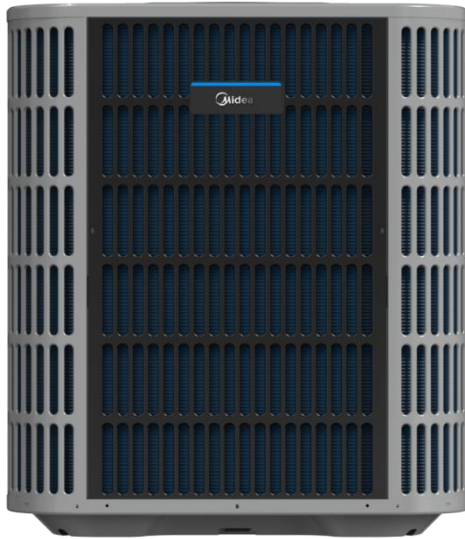
R454B

Midea Building Technologies Division

Midea M152A Series Air Conditioner

Up to 15.2 SEER2

Cooling capacity: 18-60 kBtu/h



Contents:

- 1 PRODUCT LINEUP.....2
- 2 NOMENCLATURE.....2
- 3 SPECIFICATIONS.....3
- 4 OCTAVE BAND LEVELS.....5
- 6 WIRING DIAGRAMS.....6




Standard Features:

- Eco-friendly R454B refrigerant with low GWP value.
- Energy-efficient compressor.
- Equipped with thermal overload protection.
- 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.
- Filter drier included as accessory.

Cabinet Features:

- Compact design allows for ease of installation, clearance, durability, and maneuverability.
- Powder-painted galvanized steel cabinet chassis.
- Protective steel louvered coil guard.
- Steel wire axial fan guard
- ECM fan motor and unique blade style allowing for smooth discharge air and quieter operation.

1 Product lineup

Model	MOVA-18CN10-M152G MOVA-24CN10-M152G MOVA-30CN10-M152G MOVA-36CN10-M152L	MOVA-42CN10-M152L MOVA-48CN10-M152L MOVA-60CN10-M152L MOVA-61CN10-M152L
Power supply	208/230V-1Ph-60Hz	
Appearance		

2 Nomenclature

M	O	V	A	-	18	C	N10	-	M	152	G
1	2	3	4		5	6	7		8	9	10

Legend		
No.	Code	Remarks
1	M	Midea
2	O	Outdoor unit
3	V	Discharge type: vertical discharge
4	A	Version No.: A version
5	18	Capacity: 18: 18kBtu/h; 24:24kBtu/h; 30:30kBtu/h; 36:36kBtu/h; 42:42kBtu/h; 48:48kBtu/h; 60: 60kBtu/h; 61:60kBtu/h
6	C	Unit type: C: Air Conditioner H: Heat Pump
7	N10	Refrigerant type: N10: R454B
8	M	Power supply type: M: 1-Phase; X: 3- Phase
9	152	Efficiency: 152: Up to 15.2 SEER2
10	G	Compressor type: L: LG compressor; G: GMCC compressor

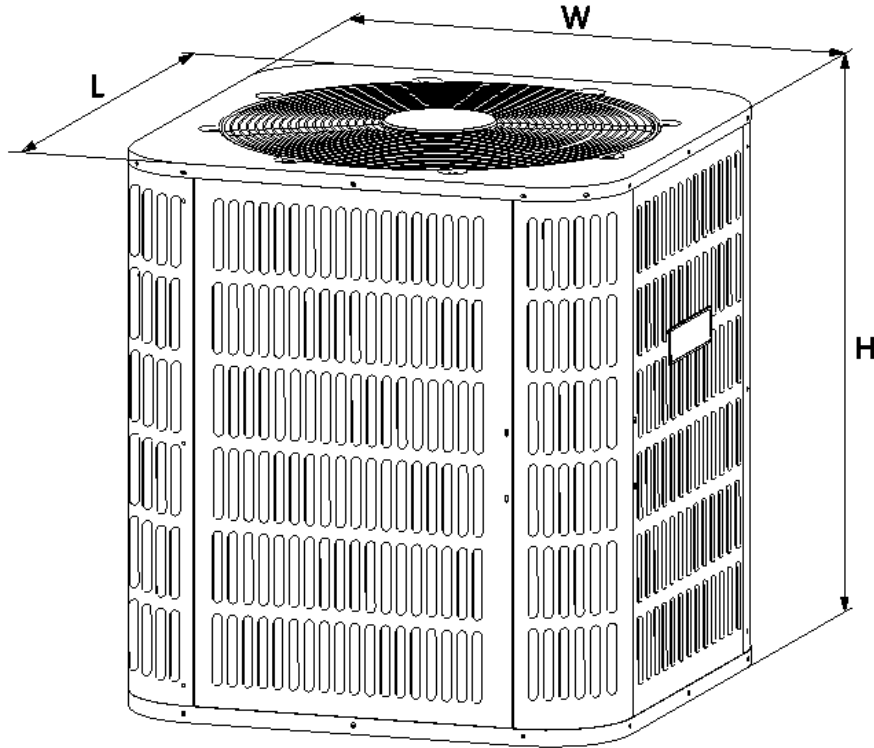
3 Specifications

	MOVA-18CN10- M152G	MOVA-24CN10- M152G	MOVA-30CN10- M152G	MOVA-36CN10- M152L
NOMINAL CAPACITY Cooling (BTU/h)	17,800	23,800	28,000	33,600
ELECTRICAL DATA				
Voltage / Phase (60 Hz)	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph
Min. / Max. Voltage (V)	187/253	187/253	187/253	187/253
Min. Circuit Amps (MCA) (A)	11.4	15.3	16.4	21.9
Max. Overcurrent Protection (MOP) (A)	15	20	25	30
COMPRESSOR				
Type	Rotary	Rotary	Rotary	Scroll
Stage	Single	Single	Single	Single
Rated Load Amps (RLA) (A)	8.4	11.2	12.1	16.3
Locked Rotor Amps (LRA) (A)	39	55	58	86
Crankcase Heater	No	No	No	No
CONDENSER COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Size (O.D) (in.)	3/16	3/16	3/16	3/16
FAN MOTOR				
Motor Type	ECM	ECM	ECM	ECM
Capacitor (uF)	/	/	/	/
Horsepower (HP)	1/6	1/6	1/6	1/3
Full Load Amps (FLA) (A)	0.9	1.3	1.2	1.5
REFRIGERATION SYSTEM				
Liquid Valve Size (O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Valve Size (O.D.) (in.)	3/4	3/4	3/4	3/4
Liquid Line Size ("O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Line Size ("O.D.) (in.)	3/4	3/4	3/4	3/4
Refrigerant Charge (lbs. - oz.)	4 lbs. 6 OZ.	4 lbs. 14 OZ.	6 lbs. 6 OZ.	5 lbs. 1 OZ.
SOUND POWER (dB(A))	73	75	75	77
OPERATION RANGE				
Cooling (°C)	12.7~48.9	12.7~48.9	12.7~48.9	12.7~48.9
Cooling (°F)	55~120	55~120	55~120	55~120

M152A Series



	MOVA-42CN10- M152L	MOVA-48CN10- M152L	MOVA-60CN10- M152L	MOVA-61CN10- M152L
NOMINAL CAPACITY Cooling (BTU/h)	41,000	45,000	54,000	55,000
ELECTRICAL DATA				
Voltage / Phase (60 Hz)	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph
Min. / Max. Voltage (V)	187/253	187/253	187/253	187/253
Min. Circuit Amps (MCA) (A)	24.5	28.3	36.8	39.6
Max. Overcurrent Protection (MOP) (A)	40	45	60	60
COMPRESSOR				
Type	Scroll	Scroll	Scroll	Scroll
Stage	Single	Single	Single	Two-stage
Rated Load Amps (RLA) (A)	18.2	21.0	27.8	30.2
Locked Rotor Amps (LRA) (A)	96	95	125	123
Crankcase Heater	No	No	No	No
CONDENSER COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Size (O.D) (in.)	3/16	3/16	3/16	9/32
FAN MOTOR				
Motor Type	ECM	ECM	ECM	ECM
Capacitor (uF)	/	/	/	/
Horsepower (HP)	1/3	1/3	1/3	1/3
Full Load Amps (FLA) (A)	1.7	2.0	2.0	1.8
REFRIGERATION SYSTEM				
Liquid Valve Size (O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Valve Size (O.D.) (in.)	7/8	7/8	7/8	7/8
Liquid Line Size ("O.D.) (in.)	3/8	3/8	3/8	3/8
Suction Line Size ("O.D.) (in.)	7/8	7/8	1-1/8	1-1/8
Refrigerant Charge (lbs. - oz.)	5 lbs. 12 OZ.	6 lbs. 4 OZ.	6 lbs. 0 OZ.	9 lbs. 14 OZ.
SOUND POWER (dB(A))	78	78	80	80
OPERATION RANGE				
Cooling (°C)	12.7~48.9	12.7~48.9	12.7~48.9	12.7~48.9
Cooling (°F)	55~120	55~120	55~120	55~120

4 Dimensions


Model Size	Unit Width "W" in. [mm]	Unit Height "H" in. [mm]	Unit Length "L" in. [mm]	Packing (W*H*D) in. [mm]	Unit Weight (lbs.[kg])
18	23-5/8 [600]	24-15/16 [633]	23-5/8 [600]	24-7/10 × 26-1/4 × 24-7/10 [628 × 667 × 628]	117 [53]
24	28 [710]	24-15/16 [633]	28 [710]	29 × 26-1/4 × 29 [738 × 667 × 738]	132 [60]
30	28 [710]	33-3/16 [843]	28 [710]	29 × 34-1/2 × 29 [738 × 877 × 738]	161 [73]
36	29-1/8 [740]	24-15/16 [633]	29-1/8 [740]	30-1/5 × 26-1/4 × 30-1/5 [768 × 667 × 768]	154 [70]
42	29-1/8 [740]	33-3/16 [843]	29-1/8 [740]	30-1/5 × 34-1/2 × 30-1/5 [768 × 877 × 768]	174 [79]
48	28 [710]	33-3/16 [843]	28 [710]	29 × 34-1/2 × 29 [738 × 877 × 738]	187 [85]
60	29-1/8 [740]	33-3/16 [843]	29-1/8 [740]	30-1/5 × 34-1/2 × 30-1/5 [768 × 877 × 768]	212 [96]
61	29-1/8 [740]	33-3/16 [843]	29-1/8 [740]	30-1/5 × 34-1/2 × 30-1/5 [768 × 877 × 768]	212 [96]

Midea Building Technologies Division
Midea Group

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

Postal code: 528311

mbt.midea.com/global www.midea-group.com ics.midea.com

Midea reserves the right to change the specifications of the product, and to withdraw or replace products without prior notification or public announcement. Midea is constantly developing and improving its products.

