



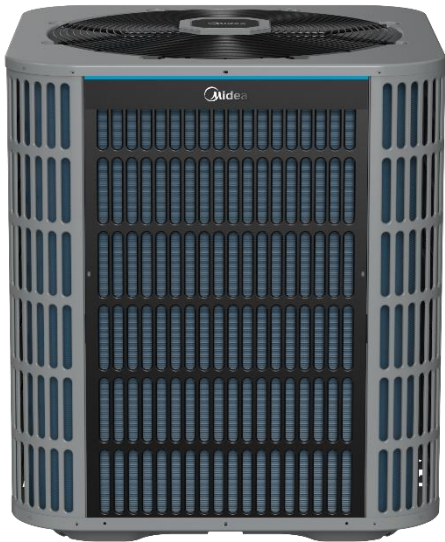
R454B

Midea Building Technologies Division

Midea M152H Series Heat Pump

Up to 15.2 SEER2

Cooling capacity: 18-60 kBtu/h



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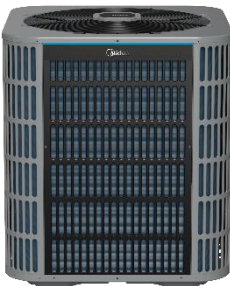
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Standard Features: • Eco-friendly R454B refrigerant with low GWP value. • Energy-efficient compressor. • Equipped with thermal overload protection. • High quality condenser with inner-groove copper tube and aluminum fin. • Service valves with sweat 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.
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1 Product lineup

Model	MOVA-18HN10-M152L MOVA-24HN10-M152L MOVA-30HN10-M152L MOVA-36HN10-M152L	MOVA-42HN10-M152L MOVA-48HN10-M152L MOVA-60HN10-M152L MOVA-61HN10-M152L
Power supply	208/230V-1Ph-60Hz	
Appearance		

2 Nomenclature

M	O	V	A	-	18	H	N10	-	M	152	L
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	H	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	L	Compressor type: L: LG compressor; G: GMCC compressor

3 Specifications

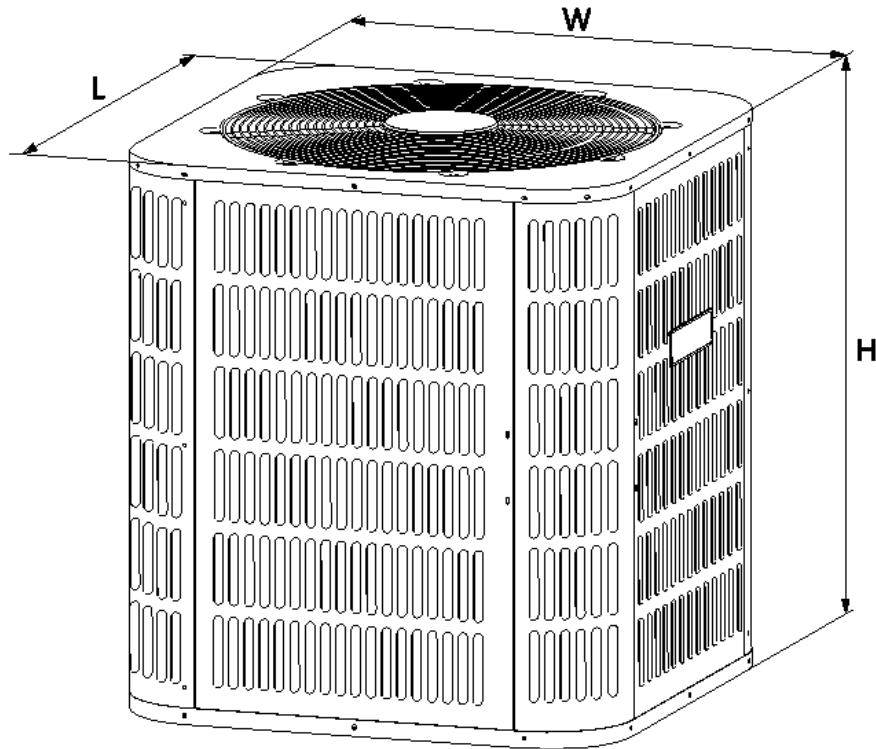
	MOVA-18HN10-M152L	MOVA-24HN10-M152L	MOVA-30HN10-M152L	MOVA-36HN10-M152L
NOMINAL CAPACITY				
Cooling (BTU/h)	18,000	23,000	28,000	34,200
Heating (BTU/h)	18,000	22,800	27,000	34,200
ELECTRICAL DATA				
Voltage / Phase (60 Hz)	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph
Min. / Max. Voltage (V)	187/253	187/253	187/253	187/253
Min. Circuit Amps (MCA) (A)	11.5	14.7	17.2	21.5
Max. Overcurrent Protection (MOP) (A)	15	20	25	30
COMPRESSOR				
Type	Scroll	Scroll	Scroll	Scroll
Stage	Single	Single	Single	Single
Rated Load Amps (RLA) (A)	8.4	10.7	12.7	16
Locked Rotor Amps (LRA) (A)	47	59	71	86
Crankcase Heater	Yes	Yes	Yes	Yes
CONDENSER COIL				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Size (O.D) (in.)	3/16	9/32	9/32	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)	1	1.3	1.3	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. 11 OZ.	5 lbs. 13 OZ.	5 lbs. 13 OZ.	5 lbs. 9 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
Heating (°C)	-15~30	-15~30	-15~30	-15~30
Heating (°F)	5~86	5~86	5~86	5~86

M152H Series



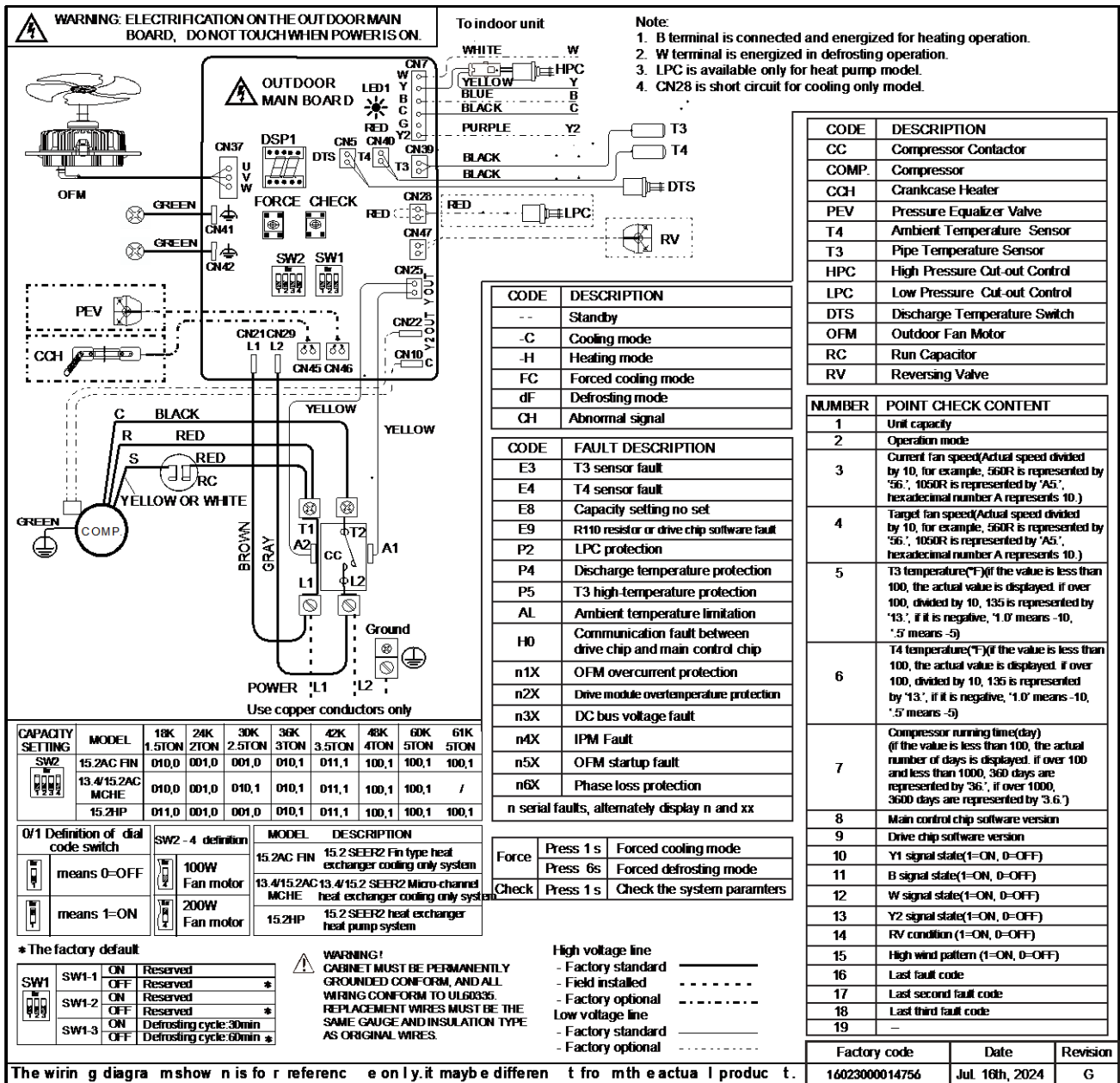
	MOVA-42HN10-M152L	MOVA-48HN10-M152L	MOVA-60HN10-M152L	MOVA-61HN10-M152L
NOMINAL CAPACITY				
Cooling (BTU/h)	41,000	45,000	54,000	55,000
Heating (BTU/h)	41,000	44,500	54,000	55,000
ELECTRICAL DATA				
Voltage / Phase (60 Hz)	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph
Min. / Max. Voltage (V)	187/253	187/253	187/253	187/253
Min. Circuit Amps (MCA) (A)	26.2	28	36.9	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)	19.6	20.8	27.8	30.2
Locked Rotor Amps (LRA) (A)	96	95	125	123
Crankcase Heater	Yes	Yes	Yes	Yes
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.)	3/4	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.)	3/4	7/8	1-1/8	1-1/8
Refrigerant Charge (lbs. - oz.)	6 lbs. 11 OZ.	6 lbs. 11 OZ.	6 lbs. 15 OZ.	9 lbs. 9 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
Heating (°C)	-15~30	-15~30	-15~30	-15~30
Heating (°F)	5~86	5~86	5~86	5~86

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 × 652 × 628]	137 [62]
24	28 [710]	24-15/16 [633]	28 [710]	29 × 26-1/4 × 29 [738 × 667 × 738]	149 [68]
30	28 [710]	24-15/16 [633]	28 [710]	29 × 26-1/4 × 29 [738 × 667 × 738]	149 [68]
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]	165 [75]
42	28 [710]	33-3/16 [843]	28 [710]	29 × 34-1/2 × 29 [738 × 877 × 738]	181 [82]
48	28 [710]	33-3/16 [843]	28 [710]	29 × 34-1/2 × 29 [738 × 877 × 738]	197 [89]
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]	208 [94]
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]	213 [97]

5 Wiring Diagram



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