

## Airdach Heat Pump

Up to 15.2 SEER2

Cooling capacity: 18-60 kBtu/h



### Contents:

1 PRODUCT LINEUP.....	2
2 NOMENCLATURE.....	2
3 SPECIFICATIONS.....	3
4 DIMENSIONS .....	5
4 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

<b>Model</b>	A4TH18152MN1DL A4TH24152MN1DL A4TH30152MN1DL A4TH36152MN1DL	A4TH42152MN1DL A4TH48152MN1DL A4TH60152MN1DL
Power supply	208/230V-1Ph-60Hz	
Appearance		

## 3 Specifications

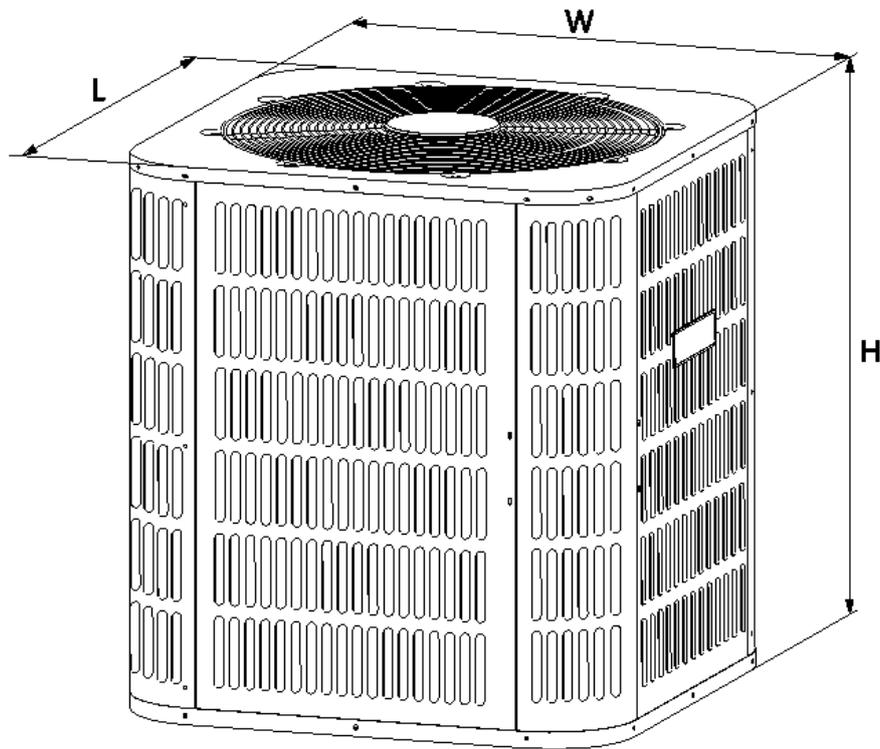
	A4TH18152MN1DL	A4TH24152MN1DL	A4TH30152MN1DL	A4TH36152MN1DL
<b>NOMINAL CAPACITY</b>				
Cooling (BTU/h)	18,000	23,000	28,000	34,200
Heating (BTU/h)	18,000	22,800	27,000	34,200
<b>ELECTRICAL DATA</b>				
Voltage / Phase (60 Hz)	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph
Min. / Max. Voltage (V)	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
<b>COMPRESSOR</b>				
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
<b>CONDENSER COIL</b>				
Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Size (O.D) (in.)	3/16	9/32	9/32	3/16
<b>FAN MOTOR</b>				
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
<b>REFRIGERATION SYSTEM</b>				
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.
<b>SOUND POWER (dB(A))</b>	73	75	75	77
<b>OPERATION RANGE</b>				
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

# A4TH Series



	A4TH42152MN1DL	A4TH48152MN1DL	A4TH60152MN1DL	
<b>NOMINAL CAPACITY</b>				
Cooling (BTU/h)	41,000	45,000	54,000	
Heating (BTU/h)	41,000	44,500	54,000	
<b>ELECTRICAL DATA</b>				
Voltage / Phase (60 Hz)	208/230V-1Ph	208/230V-1Ph	208/230V-1Ph	
Min. / Max. Voltage (V)	187/253	187/253	187/253	
Min. Circuit Amps (MCA) (A)	26.2	28	36.9	
Max. Overcurrent Protection (MOP) (A)	40	45	60	
<b>COMPRESSOR</b>				
Type	Scroll	Scroll	Scroll	
Stage	Single	Single	Single	
Rated Load Amps (RLA) (A)	19.6	20.8	27.8	
Locked Rotor Amps (LRA) (A)	96	95	125	
Crankcase Heater	Yes	Yes	Yes	
<b>CONDENSER COIL</b>				
Type	Tube & Fin	Tube & Fin	Tube & Fin	
Tube Size (O.D) (in.)	3/16	3/16	3/16	
<b>FAN MOTOR</b>				
Motor Type	ECM	ECM	ECM	
Capacitor (uF)	/	/	/	
Horsepower (HP)	1/3	1/3	1/3	
Full Load Amps (FLA) (A)	1.7	2.0	2.0	
<b>REFRIGERATION SYSTEM</b>				
Liquid Valve Size (O.D.) (in.)	3/8	3/8	3/8	
Suction Valve Size (O.D.) (in.)	3/4	7/8	7/8	
Liquid Line Size ("O.D.) (in.)	3/8	3/8	3/8	
Suction Line Size ("O.D.) (in.)	3/4	7/8	1-1/8	
Refrigerant Charge (lbs. - oz.)	6 lbs. 11 OZ.	6 lbs. 11 OZ.	6 lbs. 15 OZ.	
<b>SOUND POWER (dB(A))</b>	78	78	80	
<b>OPERATION RANGE</b>				
Cooling (°C)	12.7~48.9	12.7~48.9	12.7~48.9	
Cooling (°F)	55~120	55~120	55~120	
Heating (°C)	-15~30	-15~30	-15~30	
Heating (°F)	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]

## 5 Wiring Diagram

