



D14 Heat Pump Series

Up to 15.2 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 and low 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

D - 14 - 18 - H - C - L - 2

1 2 3 4 5 6 7

Legend		
No.	Code	Remarks
1	D	DiamondAir
2	14	14 Series
3	18	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; 61: 60 kBtu/h;
4	H	H: heat pump; A: A/C cooling only
5	C	Condenser, outdoor unit
6	L	L: LG compressor; G: GMCC compressor
7	2	SEER2 Compatible

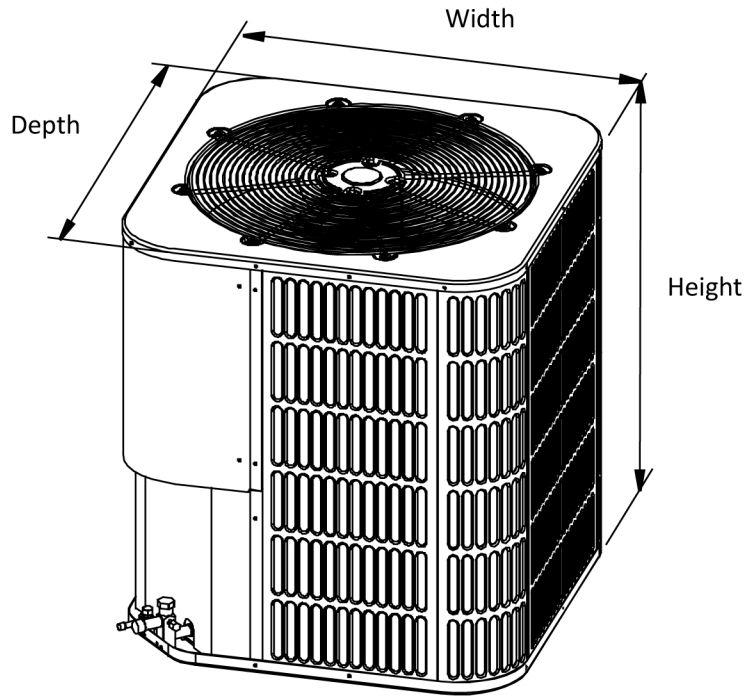
2 Specifications

	D1418HCL2	D1424HCL2	D1430HCL2	D1436HCL2
NOMINAL CAPACITY				
Cooling (BTU/h)	18,000	24,000	30,000	36,000
Heating (BTU/h)	18,000	24,000	30,000	36,000
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	13.0	15.5	17.2	23.0
MOP	20	24	30	40
COMPRESSOR				
Type	Scroll	Scroll	Scroll	Scroll
Stage	Single	Single	Single	Single
RLA	8	8	8	8
LRA	48	52	72	75
Crankcase Heater	Yes	Yes	Yes	Yes
CONDENSER COIL				
Throttle Type	Tube & Fin	Tube & Fin	Tube & Fin	Tube & Fin
Tube Size(O.D)	3/16	3/16	3/16	3/16
FAN MOTOR				
Motor Type	ECM	ECM	ECM	ECM
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.)	5 LBS.-4 OZ	6 LBS.-7 OZ	6 LBS.-7 OZ	7 LBS.-2 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)	5-86	5-86	5-86	5-86
SOUND POWER (DB)	72	74	73	73

Specifications

	D1442HCL2	D1448HCL2	D1460HCL2
NOMINAL CAPACITY			
Cooling (BTU/h)	42,000	48,000	60,000
Heating (BTU/h)	42,000	48,000	60,000
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	26.9	29.6	34.6
MOP	50	50	60
COMPRESSOR			
Type	Scroll	Scroll	Scroll
Stage	Single	Single	Single
RLA	8	8	8
LRA	112.3	94	127.1
Crankcase Heater	Yes	Yes	Yes
CONDENSER COIL			
Type	Tube & Fin	Tube & Fin	Tube & Fin
Tube Size(O.D)	3/16	3/16	9/32
FAN MOTOR			
Motor Type	ECM	ECM	ECM
Horsepower (HP)	1-1/3	1-1/3	1-1/3
Full Load Amps (FLA)	2.2	2.2	2.2
REFRIGERATION SYSTEM			
Liquid Valve Size (O.D.)	3/8	3/8	3/8
Suction Valve Size (O.D.)	7/8	7/8	7/8
Liquid Line Size ("O.D.)	3/8	3/8	3/8
Suction Line Size ("O.D.)	7/8	11/8	11/8
Refrigerant Charge (lbs. - oz.)	8 LBS.-7 OZ	8 LBS.-7 OZ	11 LBS.-5 OZ
Superheat(°F)	9°F	9°F	9°F
OPERATION RANGE			
Cooling(°F)	55-115	55-115	55-115
Heating(°F)	5-86	5-86	5-86
SOUND POWER (DB)	76	76	78

3 Dimensions



	D1418HCL2	D1424HCL2	D1430HCL2	D1436HCL2
UNIT DIMENSION AND WEIGHTS				
Height (in.)	24-15/16	24-15/16	24-15/16	33-3/16
Width (in.)	23-5/8	28	28	28
Depth (in.)	23-5/8	28	28	28
Weight (lbs.)	137	154	157	179

	D1442HCL2	D1448HCL2	D1460HCL2
UNIT DIMENSION AND WEIGHTS			
Height (in.)	33-3/16	33-3/16	33-3/16
Width (in.)	29-1/8	29-1/8	29-1/8
Depth (in.)	29-1/8	29-1/8	29-1/8
Weight (lbs.)	198	201	218

4 Wiring Diagrams

D1418HCL2, D1424HCL2, D1430HCL2, D1436HCL2, D1442HCL2, D1448HCL2, D1460HCL2

