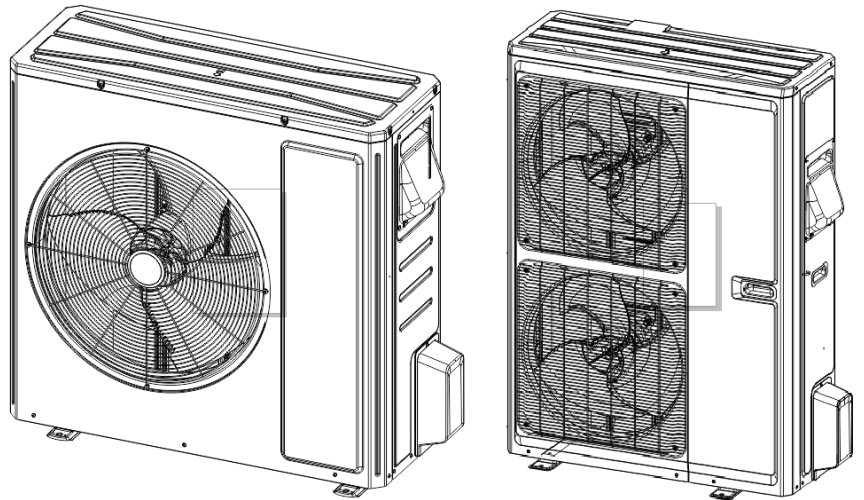


Product and Submittal Data

Inverter Side Discharge HP

5HCL5036B1000A
5HCL5060B1000A



Note: Graphics in this document are for representation only. Actual model may differ in appearance.

Introduction

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Model Number Description

Digits 1 — Refrigerant Type

4 = R-410A
5 = R-454B

Digit 2, 3 — System Type

HP = Heat Pump
HC = Cold Climate Heat Pump

Digits 4 — Product Family

L = Side Discharge

Digit 5 — Nominal Rated SEER2

0 = 20 SEER2
3 = 13 SEER2
4 = 14 SEER2
5 = 15 SEER2
6 = 16 SEER2
7 = 17 SEER2
8 = 18 SEER2

Digit 6 — Field Connection

0 = Brazed

Digit 7, 8 — Nominal Tonnage

12 = 1.0
18 = 1.5
19 = 1.5
24 = 2.0
25 = 2.0
30 = 2.5
31 = 2.5
36 = 3.0
37 = 3.0
42 = 3.5
43 = 3.5
48 = 4.0
49 = 4.0
60 = 5.0
61 = 5.0

Digit 9 — Major Design Changes

A thru Z Note: No F,I,0

Digit 10 — Power Supply (Voltage/Phz/Hz)

1 = 200-208-230/1/60
3 = 200-230/3/60
4 = 460/3/60

Digit 11, 12, 13 — Other Function

000 = Typical-no meaning
COT = Coated Plate Fin

Digit 14 — Major Design Changes

A thru Z Note: No F,I,0

Digit 15 — Service Digit - Not Orderable

A thru Z Note: No F,I,0

General Data

AHRI standard 210/240 rating conditions:

- Cooling: 80°F DB; air entering indoor coil: 67°F WB; air entering outdoor coil: 95°F DB
- High temperature heating: 47°F DB; air entering outdoor coil: 43°F WB; entering indoor coil: 70°F DB
- Low temperature heating: 17°F DB; air entering outdoor coil: 15°F WB; air entering indoor coil: 70°F DB
- Rated indoor airflow for heating is the same as for cooling.

AHRI standard 270 rating conditions:

The noise rating numbers are determined with the unit in cooling operation. Standard Noise Rating number is at 95°F outdoor air.

Product Specifications

Table 1. Product specifications

Outdoor Unit^(a) (b)	5HCL5036B1	5HCL5060B1
Power conns. – V/PH/HZ ^(c)	208/230/1/60	208/230/1/60
Min. brch. cir. ampacity	28	40
Max. over current protection	30	45
Compressor	Rotary-inverter	Rotary-inverter
No. used — no. stages	Inverter-30	Inverter-30
Volts/PH/HZ	208/230/1/60	208/230/1/60
R.L. AMPS ^(d)	19.7	30.1
Max sound pressure (dBA)	61	63
Factory installed	—	
Start components ^(e)	NA	NA
Insulation/sound blanket	YES	YES
Compressor heat	YES	YES
Outdoor fan	Propeller	Propeller
Dia. (in.) – no. used	φ22.6-1	φ18.58-2
Type drive – no. speeds	Inverter-30	Inverter-30
No. Motors–HP	1-1/6	2-1/6
CFM @ 0.0 IN. W.G. ^(f)	3176	4000
Max. motor speed R.P.M.	720	800
Volts/PH/HZ	208-230/1/60	208-230/1/60
F.L. Amps	3.0	2 x 1.1
Outdoor coil – type	PLATE FIN	PLATE FIN
rows–F.P.I.	2-18	3-17
Face area (sq. Ft.)	9.94	11.41
Tube size (in.)	φ0.31	φ0.28
Refrigerant control	Elec. expansion valve	Elec. expansion valve
Refrigerant	—	
Lbs. – R-454b (O.D. Unit) ^(g)	7.06	10.14
Factory supplied	Yes	Yes
Line size–in. o.d. gas ^(h)	3/4	3/4
Line size — in. O.D. liq.	3/8	3/8
Dimensions	H X W X D	H X W X D
Crated (in.)	37.8 x 39 x 14.6	49.6 x 35.4 x 13.4
Uncrated (in.)	37.8 x 39 x 14.6	49.6 x 35.4 x 13.4
Weight	—	

Table 1. Product specifications (continued)

Outdoor Unit ^(a) ^(b)	5HCL5036B1	5HCL5060B1
Shipping (lbs.)	212	264
Net (lbs.)	187.4	241.4

^(a) Certified in accordance with the Air-Source Unitary Air-conditioner Equipment certification program, which is based on AHRI standard 210/240.

^(b) Rated in accordance with AHRI standard 270/275.

^(c) Calculated in accordance with Natl. Elec. Codes. Use only HACR circuit breakers or fuses.

^(d) This value shown for compressor RLA on the unit nameplate and on this specification sheet is used to compute minimum branch circuit ampacity and max. fuse size. The value shown is the branch circuit selection current.

^(e) NA means no start components. Yes means quick start kit components. PTC means positive temperature coefficient starter.

^(f) Standard Air - Dry Coil - Outdoor.

^(g) This value approximate. For more precise value see unit nameplate.

^(h) Reference the outdoor unit ship-with literature for refrigerant piping length and lift guidelines. Reference the refrigerant piping software pub # 32-3312-xx or Refrigerant Piping Manual for Small Split Cooling and Heat Pump Systems Application Guide (SS-APG006*-EN) for long line sets or specialty applications (xx denotes latest revision).

Dimensional Data

Figure 1. Unit dimensions

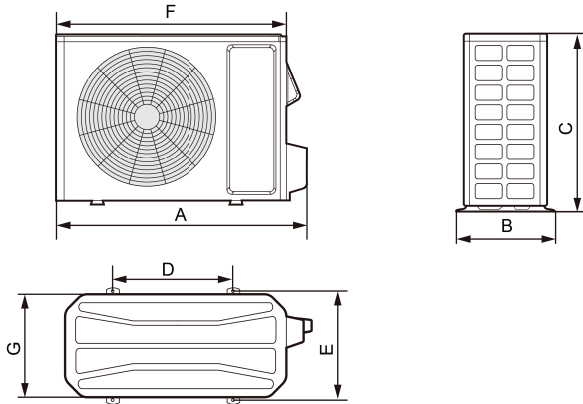


Table 2. Dimensions

	A	B	C	D	E	F	G
5HCL5036B1000A	42-1/16 in. (1068 mm)	16-13/16 in. (427 mm)	37-13/16 in. (960 mm)	29-3/4 in. (755 mm)	15-9/16 in. (396 mm)	39 in. (990 mm)	14-9/16 in. (370 mm)

Figure 2. Dimensions

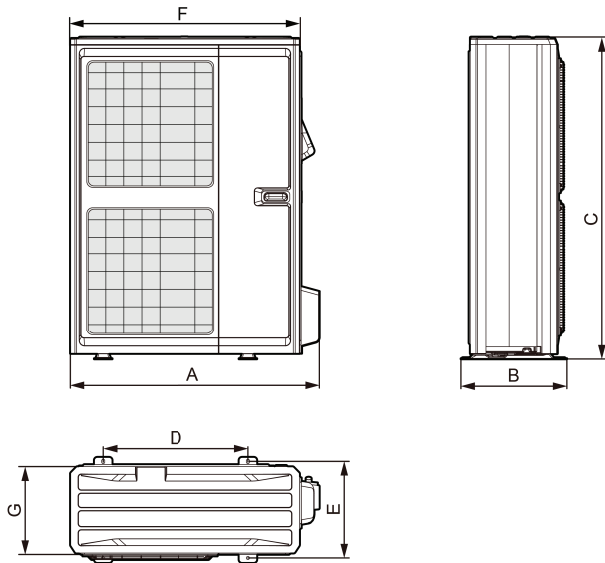


Table 3. Dimensions

	A	B	C	D	E	F	G
5HCL5060B1000A	38-1/2 in. (978 mm)	16-1/4 in. (412 mm)	49-5/8 in. (1260 mm)	22-7/16 in. (570)	14-7/8 in. (378 mm)	35-7/16 in. (900 mm)	13-3/8 in. (340 mm)

Notes:

- *The indoor unit models that can be matched with the outdoor unit can be found on the AHRI website.*
- *This unit is equipped with electrically powered safety measures. For the safety measures to be effective, the unit must be electrically powered at all times after installation, other than when servicing.*

Mechanical Specification Options

General

The outdoor condensing units are factory charged with the system charge required for the outdoor condensing unit, 25 feet of tested connecting line, and the smallest rated indoor evaporative coil match. This unit is designed to operate at outdoor ambient temperatures as high as 129°F. Cooling capacities are matched with a select group of air handlers and furnace coils that are AHRI certified. The unit is certified to UL 60335-2-40. Exterior is designed for outdoor application.

Casing

Unit is painted with a glossy corrosion resistant finish on all panels. Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint finish. All panels are subjected to our 1000 hours salt spray test.

Refrigerant Controls

Refrigeration system controls include condenser fan, compressor drive and low and high pressure switches.

Compressor

The compressor features external over temperature and pressure protection. Other features include: centrifugal oil pump and low vibration and noise.

Condenser Coil

The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by grilles and panels.

Low Ambient Cooling

As manufactured, this system has a cooling capacity to 5°F.

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