



Harmony Ductless Single Zone  
Heat Pump  
**OTP-H Series**

## Why choose a Ductless Wall-Mounted Heat Pump?

Ductless wall-mounted heat pumps, commonly known as “mini split” heat pumps, do not need air ducts like central systems. The outdoor unit (condenser) and the indoor unit (evaporator) are connected by refrigerant piping and electrical wires that pass through a small 3” opening in the wall.

### Single zone

A single zone system consists of an outdoor unit connected to an indoor unit. This system is ideal for providing heating and air conditioning to a predefined area, such as an openconcept kitchen/living room or a family room in the basement.

### Indoor Unit

- Plastic housing, standard white.
- 7-speed cross-flow fan (auto, turbo, high, medium-high, medium, low and very low).
- Easy to dismantle for maintenance.
- Washable filters.

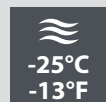
### Outdoor Unit

- Variable speed rotary compressor (INVERTER), with overload protection.
- Compressor blanket and preheating technology.
- Quiet axial-flow fan.
- Condenser fins covered with a hydrophilic coating for improved corrosion resistance.

Performance up to



Cooling



Heating

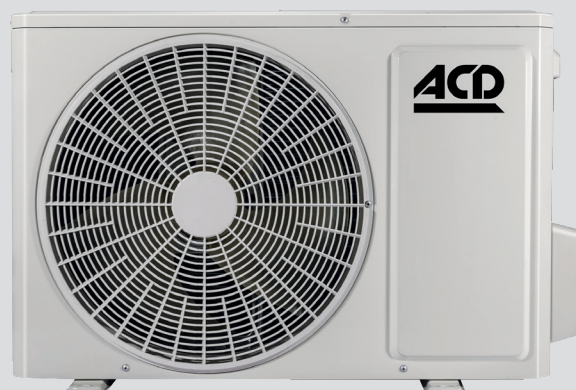
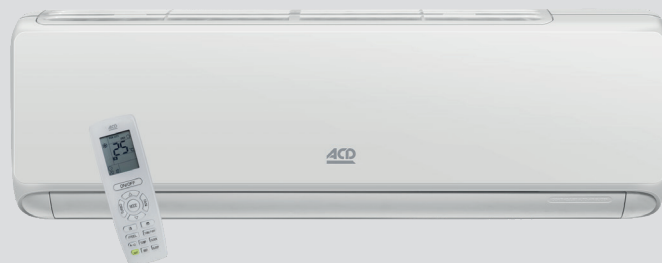
Up to

**19 SEER2**  
IN COOLING

**8.8 HSPF2**  
IN HEATING



R410A





# Features and functions



## Smart Pan Heater

Prevents ice formation in the base pan of the outdoor unit.



## Compressor Blanket and Preheating Technology

Keeps the oil inside the compressor warm and prevents it from mixing with the refrigerant.



## Anti-Corrosion Fin Coating

Condenser and evaporator fins are covered with a hydrophilic coating for greater corrosion resistance – a clear advantage for people living in coastal regions.



## Quiet Design

The innovative axial fan design and the strengthened motor bracket minimize vibrations and outside noise levels. The integrated rear base and evaporator make our indoor units some of the quietest on the market.



## Smart Defrosting

Provides greater comfort and energy savings by eliminating unnecessary defrost cycles.



## Smart Preheating

The system delays turning on the fan in heating mode to avoid blowing cold air out at startup.



## Auto Restart

In case of power failure, user selection and system parameters are stored in non-volatile memory. The system will automatically return to the last operating mode when power resumes.



## Auto-Clean

After the heat pump turns off, the fan continues to operate until the indoor unit is completely dry to prevent mold growth.



## Self-Diagnosis

A microcomputer monitors the system and turns the unit off if abnormal operation is encountered. An error code will be displayed on the indoor unit to facilitate maintenance.



## Sleep Mode

This function can be used to gradually increase or decrease room temperature, so you can save energy without affecting your sleep.



## Turbo Mode

The unit operates at super high speed to achieve quick cooling or heating.



## Up & Down Swing

Can be used to select oscillating angles for the horizontal louvers. Choose a fixed positions or use the auto swing mode to swing the louvers up and down in all positions.



## Left & Right Swing

Can be used to select oscillating angles for the vertical louvers. Choose a fixed positions or use the auto swing mode to swing the louvers left and right in all positions.



## Timer

Allows you to program the time you want the unit to start and stop over a 24-hour period.



## I Feel

This function allows you to use the remote control as an ambient sensor.



## Lock

This function disables unwanted temperature adjustments and the use of different modes on the device.



## Wi-Fi

Use your phone, tablet or computer to control your unit, wherever you are (Internet connection required).



**10-year basic warranty  
parts and compressor**

## Models

Product # <sup>1</sup>	Indoor Unit Outdoor Unit	CHD09KCH19S-I CHD09KCH19S-O	CHD12KCH17S-I CHD12KCH17S-O	CHD18KCH17S-I CHD18KCH17S-O	CHD24KCH18S-I CHD24KCH18S-O	
<b>Technical Performance</b>						
<b>Voltage</b>		Volts	230/208	230/208	230/208	230/208
<b>Cooling capacity</b>	Nominal	W (BTU/hr)	2667 (9100)	3517 (12000)	5159 (17600)	6450 (22000)
	Min. – max.	W (BTU/hr)	820 - 3018 (2800 - 10300)	700 - 3700 (2388 - 13307)	1100 - 5850 (3753 - 19960)	2000 - 7400 (6824 - 25249)
<b>Heating capacity</b>	Nominal	W (BTU/hr)	2931 (10000)	3517 (12000)	5598 (19100)	7040 (24000)
	Min. – max.	W (BTU/hr)	655 - 3575 (2200 - 12200)	700 - 4400 (2388 - 15013)	800 - 6600 (2730 - 22519)	1750 - 8000 (5971 - 27296)
<b>Used cooling power input</b>	Nominal	W	805	1334	1750	1896
	Min. – max.	W	180 - 1350	180 - 1500	200 - 2300	340 - 2350
<b>Used heating power input</b>	Nominal	W	781	1004	1750	2051
	Min. – max.	W	150 - 1450	260 - 1650	260 - 2300	370 - 2400
<b>Used rated input</b>		W	1450	1650	2300	2400
<b>Rated current</b>		A	6.5	6.7	9.5	12
<b>MCA</b>		A	9	11	14	15
<b>Max. over-current protection (MOCP)</b>		A	15	15	20	20
<b>SEER2 (SEER)</b>		-	19.5 (19.5)	17.5 (17.5)	17.5 (17.5)	18 (18)
<b>HSPF2 (HSPF)</b>		-	8.8 (10)	8.5 (10)	8.5 (9)	8.5 (10)
<b>EER</b>		W/W	3.30	2.64	2.95	3.40
<b>COP</b>		W/W	3.75	3.50	3.20	3.43
<b>AHRI number</b>		-	210410121	210410122	210410123	210410124
<b>ENERGY STAR</b>		-	-	-	-	-
<b>Indoor Unit</b>						
<b>Dehumidification</b>		pt/hr (l/hr)	1.69 (0.80)	2.96 (1.40)	3.8 (1.80)	5.28 (2.50)
<b>Air flow volume</b>		cfm	353 / 282.5 / 264.8 / 229.5 / 211.86 / 194.2 / 158.8	424 / 353 / 324 / 277 / 247 / 224 / 182	618 / 512 / 471 / 436 / 395 / 336 / 283	677 / 588 / 559 / 500 / 471 / 441 / 412
<b>Sound level</b>		dB (A)	51 / 47 / 44 / 42 / 41 / 38 / 36	57 / 49 / 48 / 45 / 43 / 42 / 37	60 / 56 / 54 / 52 / 50 / 46 / 42	61 / 57 / 55 / 52 / 50 / 48 / 46
<b>Fan motor power output</b>		W	20	15	45	60
<b>Fan motor RLA</b>		A	0.30	0.40	0.70	0.45
<b>Deflector stepper motor power output</b>		W	1.5	1.5	2.5	2.5
<b>Net weight</b>		lb (kg)	19.8 (9)	19.8 (9)	28.7 (13)	33 (18)
<b>Outdoor Unit</b>						
<b>Air flow volume</b>		m <sup>3</sup> /hr	1950	1950	2520	3200
<b>Sound level</b>		dB (A)	51	52	57	57
<b>Compressor power input</b>		W	756	587	1295	1330
<b>Compressor LRA</b>		A	-	-	25	35
<b>Compressor RLA</b>		A	5.20	7.30	9.35	10.45
<b>Fan motor power output</b>		W	30	30	30	60
<b>Fan motor RLA</b>		A	0.4	0.6	0.9	0.6
<b>Refrigerant volume (R410A)</b>		oz (g)	24.7 (700)	27.5 (750)	44.1 (1150)	52.9 (1500)
<b>Net weight</b>		lb (kg)	56.22 (25.5)	57.33 (26)	71.70 (32.5)	97 (44)
<b>Operating ambient temperature</b>	Cooling	°C (°F)				-18 to 46 (0 to 115)
	Heating	°C (°F)				-25 to 24 (-13 to 75)
<b>Connection Piping/Refrigerant</b>						
<b>Pre-charge length</b>		ft. (m)	25 (7.5)	25 (7.5)	25 (7.5)	25 (7.5)
<b>Additional refrigerant charge</b>		oz/ft. (g/m)	0.2 (20)	0.2 (20)	0.2 (20)	0.5 (50)
<b>Liquid pipe outer diameter</b>		in.	1/4	1/4	1/4	1/4
<b>Gas pipe outer diameter</b>		in.	3/8	3/8	1/2	5/8
<b>Maximum height difference</b>		ft. (m)	40 (12.2)	40 (12.2)	66 (20)	82 (25)
<b>Maximum total length</b>		ft. (m)	66 (20)	66 (20)	82 (25)	131 (40)

<sup>1</sup> 1 indoor unit and 1 outdoor unit. Note that each unit is individually packaged.