

Product Catalog

ComfortStar®

Air Conditioning and Heating Products



NEW STANDARD
HIGH EFFICIENCY
SEER2
S2

ALEGRIA SERIES

| GOLD | PLATINUM | HI-HEAT SERIES

COMFORT...
IT'S IN OUR NAME.



WE PROVIDE COMFORT AT A GREAT VALUE.

Recognized world-wide as a leader in providing reliable, energy efficient, innovative and cost-effective products.

With over 50 years of combined experience, our research and development team continues to develop products that adhere to the highest quality standards, while elevating the level of efficiency to protect our precious environment.

Our manufacturing facilities maintain the highest quality and reliability standards with ISO9001 and ISO14001.

All our products are AHRI and UL, CSA certified. Across the world, we are committed to bringing daily comfort into every facet of your lives. Whether it is your home, your child's school, or your local grocery store, ComfortStar is there to ensure a pleasant environment, regardless of the climate.

COMFORT...
IT'S IN OUR NAME.

Advances in Inverter technology have made mini-split heat pump systems among the highest efficiency heating and air conditioning systems on the market today.

This technology allows us to modulate the frequency of a compressor according to the thermal load of the conditioned space; therefore, a compressor can reduce the amount of work it does to reach a desired set temperature. This results in longer compressor life-span and most importantly, a decrease in energy usage resulting in increased energy savings.

Mini-splits are ideal when making additions to a home, since expanding existing duct work can be problematic in some situations. Ease of installation makes it very practical for light commercial applications, such as hotel rooms, office spaces, malls and hospitals.



ComfortStar®

ALEGRIA  **SERIES**

INVERTER
TECHNOLOGY

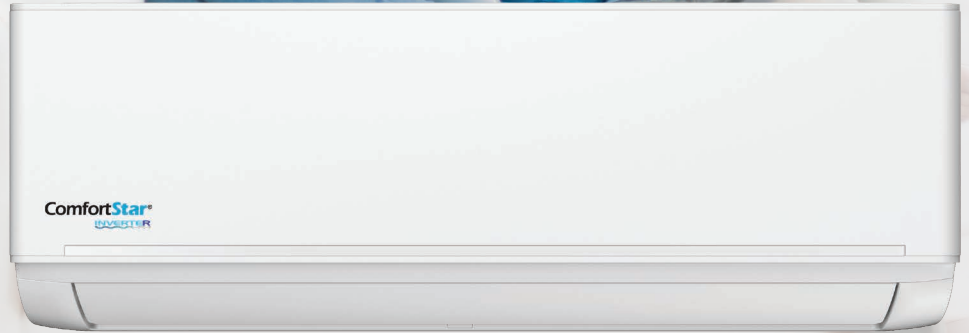
ALEGRIA SERIES



ALEGRIA GOLD SERIES

7 YEAR WARRANTY
COMPRESSOR

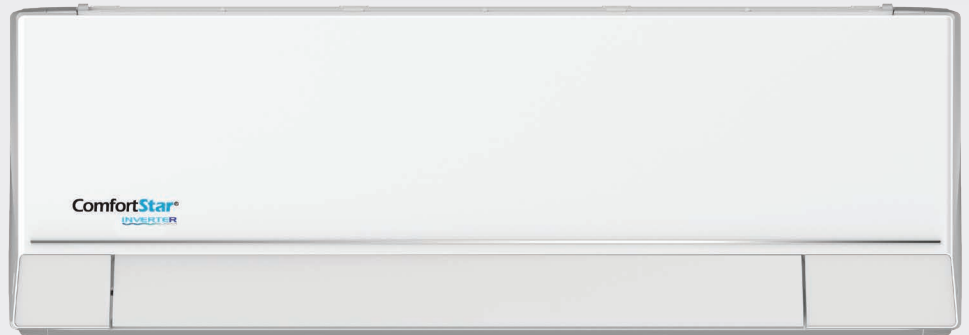
5 YEAR WARRANTY
PARTS



ALEGRIA PLATINUM SERIES

7 YEAR WARRANTY
COMPRESSOR

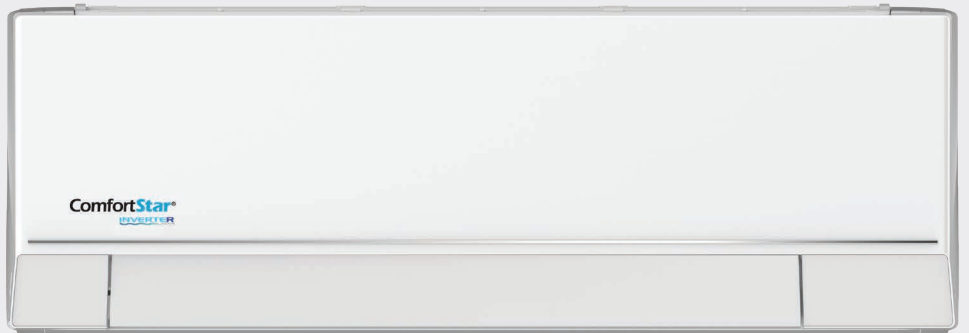
7 YEAR WARRANTY
PARTS



ALEGRIA HI-HEAT SERIES

10 YEAR WARRANTY
COMPRESSOR

10 YEAR WARRANTY
PARTS



ComfortStar®

Air Conditioning and Heating Products

Warranty registration required except in California and Quebec, Canada.



ALEGRIA SERIES

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ALEGRIA SERIES

GOLD SERIES -

Low Ambient: Capable of producing comfortable cooling and heating at 5°F outdoor ambient temperature.

SINGLE ZONE SYSTEMS - Perfect for achieving true-zoning in applications where thermal loads may vary within the same building/residence. Indoor high-wall evaporator units are available from 9,000 BTUH to 36,000 BTUH.

PLATINUM SERIES -

Low Ambient: Capable of producing comfortable cooling and heating at -13°F outdoor ambient temperature.

SINGLE ZONE SYSTEMS - Perfect for achieving true-zoning in applications where thermal loads may vary within the same building/residence. Indoor high-wall evaporator units are available from 9,000 BTUH to 24,000 BTUH.

PLATINUM SERIES -

PLATINUM LIGHT COMMERCIAL SYSTEMS -

Hi-wall units, cassette type, floor ceiling and fan coils, are also available from 9,000 BTUH to 60,000 BTUH single zone systems.

PLATINUM MULTI-ZONE SYSTEMS -

A single outdoor condensing unit can power up to 5 different indoor evaporators.

There are more than 249 possible combinations ranging from 9,000 BTUH to 36,000 BTUH in High-Wall Mounts and Multi-Position Air Handler Units offering contractors flexibility in system designing.

HI-HEAT SERIES -

Low Ambient: Capable of producing comfortable cooling and heating at -22°F outdoor ambient temperature.

These units are also extremely efficient compared to traditional Oil, Propane, or Natural Gas furnaces.

In the coldest regions of the country when the exterior temperature plunges into the sub-zero territory, a standard heating system is not enough to keep your family comfortable. Our Hi-Heat systems are designed to provide year-round comfort even in the grip of winter.

HI-HEAT LIGHT COMMERCIAL SYSTEMS -

Hi-wall units, cassette type, floor ceiling and fan coils, are also available from 9,000 BTUH to 60,000 BTUH.

HI-HEAT MULTI-ZONE SYSTEMS -

A single outdoor condensing unit can power up to 5 different indoor evaporators. There are more than 249 possible combinations ranging from 9,000 BTUH to 36,000 BTUH in High-Wall Mounts and Multi-Position Air Handler Units offering contractors flexibility in system designing.



**HIGHEST HEATING AND
AIR CONDITIONING
EFFICIENCIES ON THE MARKET.**

OUR MINI-SPLIT SYSTEMS ARE A GREAT ALTERNATIVE FOR MOST HVAC APPLICATIONS.



No Duct Work Required
Easier Installation



Zone Control
Cool/Heat individual areas



Flexibility
Residential & Commercial



Very Quiet Units
Indoor & Outdoors



Inverter Technology
Increased Efficiency

DUCTLESS SPLIT SYSTEMS ARE SIMILAR TO CENTRAL COOLING AND HEATING SYSTEMS.

They are categorized as air conditioning (cooling only) and heat pump systems which provide both heating and cooling.

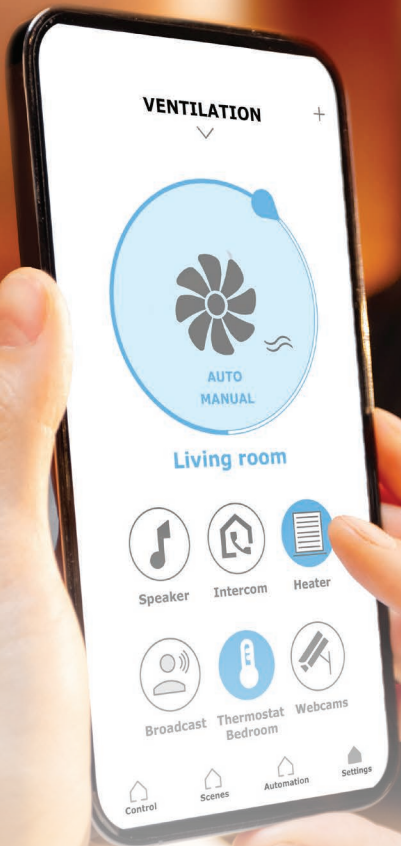
Single Zone systems include a condensing unit (outdoor) and an evaporator unit (indoor). Inverter mini-splits use electricity to pump refrigerant through copper piping and transfer heat from one space to another through a condenser using a compressor.

Heat pump Systems make it possible for a condensing unit to switch from producing cooling or heating through the use of a reversing valve, or 4-way valve.

This valve reverses the flow of refrigerant through the compressor to provide comfortable cooling or heating depending on the preference of the end user.

ComfortStar®

CONTROL BY USING YOUR WI-FI.



- Control your system using mobile device with iOS 7.0 or higher and Android platforms.
- Link is established between COOL Kit on the unit and your router to allow for communication.
- Evaporator comes compatible with optional 2.4G Hz Wi-Fi module.

HOW IT WORKS?



Download the ComfortStar app for your Android platforms or iOS 7.0 or higher.

- Change modes, adjust temperature.
- Turn your ComfortStar System on before getting home.
- Program cooling/heating schedule.
- Turn ComfortStar System off remotely if you forget to power down after leaving.
- Adjust ComfortStar System settings.



Part No. AWC-8P-LC-WIFI

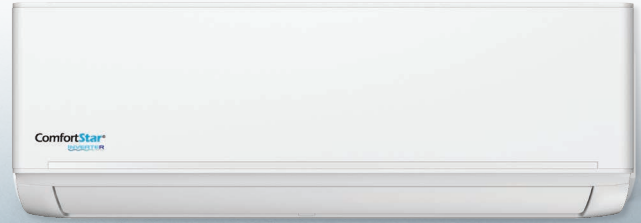
- Allows you to connect to all 2022 Series of CPA, TPA, FPA products with Wi-Fi



Part No. WiFi-US COOL KIT Wi-Fi Kit

- Allows you to connect to all CGS, CHF, TIP, and T1W.

CGS series



ALEGRIA GOLD SERIES

UP TO
21.7 SEER2
HIGH EFFICIENCY
Low Ambient
5°F

SINGLE ZONE HEAT PUMP

5°F Low Outdoor Ambient Operating Temperature for both Heating and Cooling.

7 YEAR WARRANTY
COMPRESSOR

5 YEAR WARRANTY
PARTS

INVERTER



Warranty Registration required except in California and Quebec, Canada.

SINGLE ZONE HEAT PUMP

5°F Low Outdoor Ambient Operating Temperature for both Heating and Cooling.



GOLD

7 YEAR WARRANTY
COMPRESSOR

5 YEAR WARRANTY
PARTS

INVERTER



ALEGRIA GOLD SERIES



Wi-Fi Control
(optional)



Celsius &
Fahrenheit
Degree Switch



Quiet Mode



Auto-Restart



Intelligent
Defrost



Low Temperature
Heating &
Cooling



24 Hour Timer

UP TO
21.7 SEER2
HIGH EFFICIENCY
15ft line set
included

GOLD Quick Glance Features:



Low Ambient



Manual Power



Interactive
Display



Self-Diagnosis



Bypass Mode



2-Way
Draining



3 Directional
Airflow



Mute



Follow-Me



Wired Control
(optional)

GOLD Additional Features:

- Turbo
- Auto Swing
- Sleep mode
- Refrigerant Leak Detection
- By Pass Function (Emergency operation)
- Low Ambient Heating and Cooling
- Louver Position Memory
- Dry Mode
- Cold Catalyst Filter
- High Density Filter

Warranty Registration required except in California and Quebec, Canada.

GOLD Expanded Features:

- **LOW AMBIENT:** Capable of producing comfortable heating and cooling to outdoor ambient temperatures as low as 5°F.
- **MANUAL POWER SWITCH:** Power unit ON/OFF using button located at the evaporator.
- **INTERACTIVE DISPLAY SHOWS:**
 - Error codes based on system failure.
 - Service codes if your filter needs cleaning.
 - Error code if refrigerant leak is detected.
 - When unit goes into auto defrost.
- **SELF-DIAGNOSIS:** Unit will shut down and go into protection mode if it detects abnormalities. The display will show an error code.
- **BYPASS MODE:** Unit will continue to operate if a non-critical component fails, such as a sensor.
- **2-WAY DRAINING OPTION:** Ability to place drain hose on left or right hand side of evaporator allows for flexible installation.
- **3 DIRECTIONAL AIRFLOW:** Air flow is directed so that it reaches more surface area including the corners of the room.
- **MUTE OPERATION:** Silence from the Remote Control.
- **FOLLOW ME FUNCTION:** Remote Control has a sensor built in. In this mode, the unit will sense the temperature at the Remote Control instead of at the indoor unit for the set temperature.
- **CONTROLS:** Wired Controls and Wi-Fi Control – (optional)



ALEGRIA GOLD SERIES

CGS Series

Up to 21.7 SEER · High Efficiency

Easy Installation for Residential and Commercial Applications

GOLD Applications

- Sun Room
- Garage
- Pool House
- Home Gym
- Small Office Spaces
- Home Theatre Room
- Or any room where central duct work is not available

| INDOOR MODEL NO. | CGS09CA(I) | CGS12CA(I) | CGS09CD(I) | CGS12CD(I) | CGS18CD(I) | CGS24CD(I) | CGS30CD(I) | CGS36CD(I) |
|-------------------------|-------------|-------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| OUTDOOR MODEL NO. | CGS09CA(O) | CGS12CA(O) | CGS09CD(O) | CGS12CD(O) | CGS18CD(O) | CGS24CD(O) | CGS30CD(O) | CGS36CD(O) |
| CAPACITY BTUH | | | | | | | | |
| COOLING CAPACITY | 9000 | 12000 | 9000 | 12000 | 18000 | 24000 | 30000 | 36000 |
| HEATING CAPACITY | 10000 | 12000 | 10000 | 12000 | 18800 | 24000 | 30000 | 36000 |
| ELECTRICAL DATA | | | | | | | | |
| Power Supply | 115V-1-60Hz | 115V-1-60Hz | 208-230V-1-60Hz | 208-230V-1-60Hz | 208-230V-1-60Hz | 208-230V-1-60Hz | 208-230V-1-60Hz | 208-230V-1-60Hz |

EQUIPMENT NOMENCLATURE CHARACTERISTICS:

Do Not Mismatch: · CGS with any other models · CA (115V) with CD (208-230V)

NOMENCLATURE:

CGS = HEAT PUMP GOLD SERIES

CA=115V

CD=208-230V

(I)=INDOOR · (O)=OUTDOOR

ALEGRIA GOLD SERIES



CGS Indoor Unit

CGS Outdoor Unit

| CAPACITY | | | 9K | 12K | 9K | 12K |
|---|--------------------------|-----------|------------------------------|----------------------|----------------------|----------------------|
| INDOOR UNIT MODEL | | | CGS09CA(I) | CGS12CA(I) | CGS09CD(I) | CGS12CD(I) |
| OUTDOOR UNIT MODEL | | | CGS09CA(O) | CGS12CA(O) | CGS09CD(O) | CGS12CD(O) |
| Power supply | Rated | V, Ph, Hz | 115, 1, 60 | 115, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 103.5-126.5 | 103.5-126.5 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 9000(2650-10300) | 12000(3800-12100) | 9000(2900-10500) | 12000(3800-13350) |
| | Input power | W | 725 | 1165 | 715 | 1111 |
| | Rated current | A | 6.30 | 10.13 | 3.11 | 4.9 |
| | EER2 | Btu/w | 12.5 | 10.3 | 12.6 | 10.8 |
| | SEER2 | Btu/w | 21.5 | 20.8 | 21.7 | 21.4 |
| Heating at 47°F | Rated Capacity (range) | BTUH | 10000(2700-10500) | 12000(2730-12500) | 10000(2400-10500) | 12000(2730-13900) |
| | Input power | W | 900 | 1154 | 905 | 1039 |
| | Rated current | A | 7.82 | 10.05 | 3.94 | 4.6 |
| | COP | W/W | 3.26 | 3.05 | 3.24 | 3.38 |
| | HSPF2-4 | Btu/w | 9.1 | 8.7 | 9.4 | 9.2 |
| | HSPF2-5 | Btu/w | 7.0 | 6.5 | 7.2 | 6.9 |
| Heating at 17°F (AHRI) | Rated capacity | BTUH | 6000 | 9000 | 6000 | 9000 |
| Heating at 5°F (-15°C) | Rated capacity | BTUH | 6000 | 7000 | 6000 | 8000 |
| | COP | W/W | 1.75 | 1.75 | 1.75 | 1.75 |
| MINIMUM CIRCUIT AMPACITY (Outdoor unit) | | A | 20 | 18.5 | 3.0 | 15 |
| MAX.FUSE (Outdoor unit) | | A | 30 | 25 | 15 | 15 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 238.82/170.00/137.06 | 300.00/241.18/176.47 | 246.47/176.47/141.18 | 291.18/197.06/155.88 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 37.5/28/20 | 41/35/26.5 | 37/28/20 | 41/35/24 |
| Indoor unit | Dimension(W*D*H) | inch | 28.70x7.87x11.50 | 31.57x7.87x11.61 | 28.70x7.87x11.50 | 31.57x7.87x11.61 |
| | Packing (W*D*H) | inch | 31.10x10.63x14.76 | 34.45x11.22x14.96 | 31.10x10.63x14.76 | 34.45x11.22x14.96 |
| | Net/Gross weight | lbs. | 17.64/22.71 | 18.52/24.03 | 17.64/22.49 | 18.74/24.03 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 3/8" | 1/4" / 1/2" |
| Outdoor air flow (Max.) | | CFM | 1294 | 1235 | 1294 | 1235 |
| Outdoor noise level (Sound pressure) | | dB(A) | 55 | 54 | 55 | 53.5 |
| Throttle type | | | Capillary | Capillary | Capillary | Capillary |
| Outdoor unit | Dimension (WxDxH) | inch | 30.12x11.93x21.85 | 30.12x11.93x21.85 | 30.12x11.93x21.85 | 30.12x11.93x21.85 |
| | Packing (WxDxH) | inch | 34.92x13.27x24.02 | 34.92x13.27x24.02 | 34.92x13.27x24.02 | 34.92x13.27x24.02 |
| | Net/Gross weight | lbs. | 57.76/63.49 | 62.17/67.68 | 55.11/60.85 | 59.30/64.82 |
| Refrigerant | Type/Charged | oz | R410A/25.4 | R410A/28.6 | R410A/25.4 | R410A/28.6 |
| Refrigerant precharge | | ft | 25 | 25 | 25 | 25 |
| Additional charge for each ft | | oz/ft | 0.16 | 0.16 | 0.16 | 0.16 |
| Design pressure | | PSIG | 550/340 | 550/340 | 550/340 | 550/340 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 3/8" | 1/4" / 1/2" |
| | Max. pipe length | ft | 82.0 | 82.0 | 82.0 | 82.0 |
| | Max. difference in level | ft | 32.8 | 32.8 | 32.8 | 32.8 |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | | | |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 |
| Ambient temperature | Cooling | °F | 5-122 | 5-122 | 5-122 | 5-122 |
| | Heating | °F | 5-75 | 5-75 | 5-75 | 5-75 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA GOLD SERIES

FEATURES:

- Auto-restart
- Timer (24H)
- Turbo
- Auto Swing
- Sleep mode
- Refrigerant Leak Detection
- By Pass Function (Emergency operation)
- LED Display
- Manual Power Control on Indoor unit
- Low Ambient Heating and Cooling
- Louver Position Memory
- Dry Mode
- Cold Catalyst Filter
- High Density Filter
- 2 Way Draining
- Gold Fin Coil Protection

| CAPACITY | | | 18K | 24K | 30K | 36K |
|---|--------------------------|-----------|------------------------------|----------------------|----------------------|----------------------|
| INDOOR UNIT MODEL | | | CGS18CD(I) | CGS24CD(I) | CGS30CD(I) | CGS36CD(I) |
| OUTDOOR UNIT MODEL | | | CGS18CD(O) | CGS24CD(O) | CGS30CD(O) | CGS36CD(O) |
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 18000(3900~20000) | 24000(6200~24600) | 30000(7200~31600) | 36000(8300~37500) |
| | Input power | W | 1638 | 2520 | 2855 | 3790 |
| | Rated current | A | 7.5 | 11.2 | 12.4 | 16.8 |
| | EER2 | Btu/w | 11.0 | 9.5 | 12.2 | 9.5 |
| | SEER2 | Btu/w | 19.5 | 18.5 | 20.0 | 18.0 |
| Heating at 47°F | Rated Capacity (range) | BTUH | 18800(6300~19400) | 24000(6800~26800) | 30000(11700~32000) | 36000(10900~37360) |
| | Input power | W | 1806 | 2320 | 2750 | 3790 |
| | Rated current | A | / | 10.25 | 12.46 | 16.8 |
| | COP | W/W | 3.05 | 3.03 | 3.20 | 2.78 |
| | HSPF2-4 | Btu/w | 8.7 | 8.6 | 8.2 | 7.8 |
| | HSPF2-5 | Btu/w | 6.8 | 6.6 | 6.1 | 6.0 |
| Heating at 17°F (AHRI) | Rated capacity | BTUH | 12500 | 14800 | 17100 | 25000 |
| Heating at 5°F (-15°C) | Rated capacity | BTUH | 10000 | 15000 | 15800 | 20000 |
| | COP | W/W | 1.9 | 1.75 | 1.68 | 1.76 |
| MINIMUM CIRCUIT AMPACITY (Outdoor unit) | A | | 15 | 19 | 23.0 | 28.0 |
| MAX.FUSE (Outdoor unit) | A | | 20 | 30 | 30.0 | 35.0 |
| Indoor air flow (Hi/Mi/Lo) | CFM | | 458.82/329.41/270.59 | 546.47/402.35/330.59 | 701.76/535.88/380.00 | 652.94/447.06/329.41 |
| Indoor noise level (Hi/Mi/Lo) | dB(A) | | 45/38/30.0 | 45/39.5/36 | 49.5/43.5/39.5 | 54/45/40 |
| Indoor unit | Dimension(W*D*H) | inch | 38.23x8.98x12.64 | 42.60x9.21x13.27 | 49.57x11.14x14.25 | 49.57x11.14x14.25 |
| | Packing (W*D*H) | inch | 41.14x12.01x15.94 | 45.47x16.34x12.40 | 52.76x17.72x15.16 | 52.76x17.72x15.16 |
| | Net/Gross weight | lbs. | 24.47/31.75 | 29.98/38.14 | 42.99/55.56 | 42.77/55.56 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 1/2" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 5/8" |
| Outdoor air flow (Max.) | CFM | | 1235 | 1765 | 2235 | 2235 |
| Outdoor noise level (Sound pressure) | dB(A) | | 57 | 60 | 61.5 | 61.5 |
| Throttle type | | | Capillary | Capillary | Capillary +EXV | Capillary +EXV |
| Outdoor unit | Dimension (WxDxH) | inch | 31.69x12.99x21.81 | 35.04x13.46x26.50 | 37.24x16.14x31.89 | 37.24x16.14x31.89 |
| | Packing (WxDxH) | inch | 36.02x14.57x24.21 | 39.17x15.67x29.13 | 42.91x19.69x34.84 | 42.91x19.69x34.84 |
| | Net/Gross weight | lbs. | 73.85/79.81 | 29.98/38.14 | 141.76/151.90 | 150.13/158.95 |
| Refrigerant | Type/Charged | oz | R410A/47.6 | R410A/62.8 | R410A/97 | R410A/119.9 |
| Refrigerant precharge | ft | | 25 | 25 | 25 | 25 |
| Additional charge for each ft | oz/ft | | 0.16 | 0.32 | 0.32 | 0.32 |
| Design pressure | PSIG | | 550/340 | 550/340 | 550/340 | 550/340 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 1/2" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 5/8" |
| | Max. pipe length | ft | 98.0 | 164.0 | 164.0 | 213.0 |
| | Max. difference in level | ft | 66.0 | 82.0 | 82.0 | 98.0 |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | | | |
| Operation temperature | Cooling | °F | 60~90 | 60~90 | 60~90 | 60~90 |
| | Heating | °F | 32~86 | 32~86 | 32~86 | 32~86 |
| Ambient temperature | Cooling | °F | 5~122 | 5~122 | 5~122 | 5~122 |
| | Heating | °F | 5~75 | 5~75 | 5~86 | 5~86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

CHF indoor unit · CZP outdoor unit



UP TO
25.5 SEER2
HIGH EFFICIENCY
Low Ambient
-13°F

ALEGRIA PLATINUM SERIES

SINGLE ZONE HEAT PUMP

-13°F Low Outdoor Ambient Operating Temperature for both Heating and Cooling.

7 YEAR WARRANTY
COMPRESSOR

7 YEAR WARRANTY
PARTS



Warranty Registration required except in California and Quebec, Canada.

SINGLE ZONE HEAT PUMP

-13°F Low Outdoor Ambient Operating Temperature
for both Heating and Cooling.



PLATINUM

7 YEAR WARRANTY
COMPRESSOR

7 YEAR WARRANTY
PARTS

INVERTER



UP TO
25.5 SEER2
HIGH EFFICIENCY
Low Ambient
-13°F

ALEGRIA PLATINUM SERIES



Wi-Fi Control
(optional)



Celsius &
Fahrenheit
Degree Switch



Quiet Mode



Auto-Restart



Intelligent
Defrost



Low Temperature
Heating &
Cooling



24 Hour Timer



Follow Me



Wired Control
(optional)

PLATINUM Quick Glance Features:



Low Ambient



Manual Power



Interactive
Display



Self-Diagnosis



Bypass Mode



2-Way
Draining



3 Directional
Airflow



Mute



Follow-Me

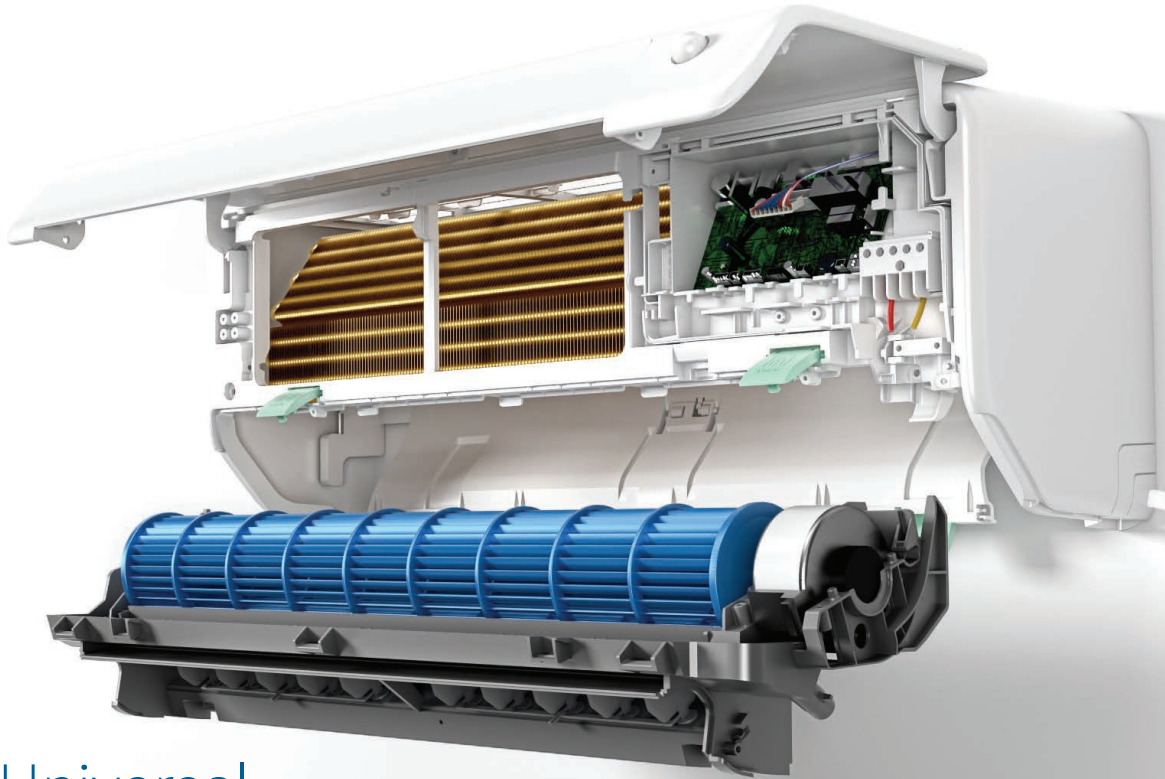
PLATINUM Additional Features:

- Auto Swing
- 12-Speed Indoor Fan Speeds
- Refrigerant Leak Detection (Error Code)
- Anti-Cold Air Function
- Gold Fin Coil Protection
- Louver Position Memory
- Dry Mode
- Emergency Mode
- Optional Wired Control

Warranty Registration required except in California and Quebec, Canada.

PLATINUM Expanded Features:

- **LOW AMBIENT:** Capable of producing comfortable heating and cooling to outdoor ambient temperatures as low as -13°F.
- **MANUAL POWER SWITCH:** Power unit ON/OFF using button located at the evaporator.
- **INTERACTIVE DISPLAY SHOWS:**
 - Error codes based on system failure.
 - Service codes if your filter needs cleaning.
 - Error code if refrigerant leak is detected.
 - When unit goes into auto defrost.
- **SELF-DIAGNOSIS:** Unit will shut down and go into protection mode if it detects abnormalities. The display will show an error code.
- **BYPASS MODE:** Unit will continue to operate if a non-critical component fails, such as a sensor.
- **2-WAY DRAINING OPTION:** Ability to place drain hose on left or right hand side of evaporator allows for flexible installation.
- **3 DIRECTIONAL AIRFLOW:** Air flow is directed so that it reaches more surface area including the corners of the room.
- **MUTE OPERATION:** Silence from the Remote Control.
- **FOLLOW ME FUNCTION:** Remote Control has a sensor built in. In this mode, the unit will sense the temperature at the Remote Control instead of at the indoor unit for the set temperature.
- **CONTROLS:** Wired Controls (optional)
Wi-Fi Control - Cool Link installed in unit (optional)



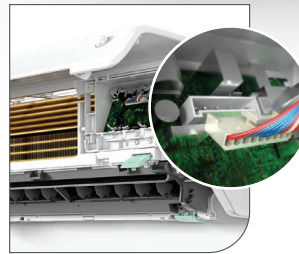
CHF Universal Indoor Unit

Features:

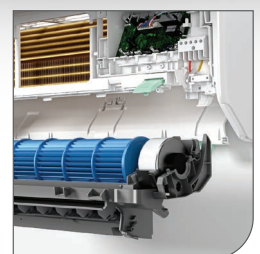
- 3 easy steps to disassemble.
- Allowing for easy maintenance.



1. Snap open the front, remove the two screws, detach the bottom panel.



2. Open the electrical box, unplug the fan and vertical louver motor terminals.



3. Snap open the back, remove the fan and indoor motor assembly.

EQUIPMENT NOMENCLATURE CHARACTERISTICS:

Do Not Mismatch: CZP with any other models · CA (115V) with CD (208-230V)

| Outdoor unit Model No. | Hi-Wall - CHF | Floor-Ceiling FPA | Cassette TPA/TIP | Fan Coil - CPA | One Way Cassette-T1W |
|------------------------|---------------|-------------------|------------------|----------------|----------------------|
| CZP09CA(O) | CHF09CA(I) | — | — | — | — |
| CZP12CA(O) | CHF12CA(I) | — | — | — | — |
| CZP09CD(O) | CHF09CD(I) | — | TPA-09 | CPA-09B | TIW9P |
| CZP12CD(O) | CHF12CD(I) | — | TPA-12 | CPA-12B | TIW12P |
| CZP18CD(O) | CHF18CD(I) | FPA-18 | TPA-18 | CPA-18B | TIW18P |
| CZP24CD(O) | CHF24CD(I) | FPA-24 | TIP-24 | CPA-24B | — |
| CZP36CD(O) | — | FPA-36DU | TIP-36 | CPA-36DUB | — |
| CZP48CD(O) | — | FPA-48DU | TIP-48 | CPA-48DUB | — |
| CZP60CD(O)-B | — | FPA-60DU | — | CPA-60DU | — |

Nomenclature Platinum Series: CZP=Heat Pump | CA = 115V | CD = 208-230V (I) = Indoor | (O) =Outdoor

ALEGRIA PLATINUM SERIES

CHF Indoor Unit CZP Outdoor Unit



| CAPACITY | | | 9K | 12K | 9K |
|---|--------------------------|-----------|------------------------------|------------------------------|------------------------------|
| INDOOR UNIT MODEL | | | CHF09CA(I) | CHF12CA(I) | CHF09CD(I) |
| OUTDOOR UNIT MODEL | | | CZP09CA(O) | CZP12CA(O) | CZP09CD(O) |
| Power supply | Rated | V, Ph, Hz | 115, 1, 60 | 115, 1, 60 | 208/230,1,60 |
| | Voltage range | V | 103.5-126.5 | 103.5-126.5 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 9000 (2500-11900) | 12000 (3500-13200) | 9000 (2500-11900) |
| | Input power | W | 621 | 923 | 600 |
| | Rated current | A | 5.40 | 8 | 2.61 |
| | EER2 | Btu/w | 14.5 | 13.0 | 15.0 |
| | SEER2 | Btu/w | 25.0 | 23.5 | 25.5 |
| | Rated Capacity (range) | BTUH | 10000 (3400-13000) | 12000 (5000-12200) | 10000 (3400-13000) |
| Heating at 47°F | Input power | W | 742 | 1000 | 742 |
| | Rated current | A | 6.5 | 8.7 | 3.23 |
| | COP | W/W | 3.95 | 3.52 | 3.95 |
| | HSPF2-4 | Btu/w | 9.9 | 9.9 | 11.7 |
| | HSPF2-5 | Btu/w | 7.6 | 7.4 | 8.7 |
| Heating at 17°F (AHRI) | Rated capacity | BTUH | 8500 | 8500 | 9500 |
| Heating at 5°F (-15°C) | Rated capacity | BTUH | 7100 | 7100 | 8300 |
| | COP | W/W | 2 | 2 | 1.85 |
| MINIMUM CIRCUIT AMPACITY (Outdoor unit) | | A | 19.0 | 19.0 | 13.0 |
| MAX. FUSE (Outdoor unit) | | A | 25.0 | 25.0 | 15.0 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 352.94/294.12/235.29 | 352.94/294.12/235.29 | 335.29/229.41/176.47 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 40.5/35/23.5 | 40.5/35/23.5 | 38/34/23 |
| Indoor unit | Dimension(W*D*H) | inch | 31.30x8.86x11.61 | 31.30x8.86x11.61 | 31.30x8.86x11.61 |
| | Packing (W*D*H) | inch | 34.25x14.57x12.01 | 34.25x14.57x12.01 | 34.25x14.57x12.01 |
| | Net/Gross weight | lbs. | 22.93/29.10 | 22.93/29.10 | 22.71/28.88 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 1/2" | 1/4" / 1/2" | 1/4" / 3/8" |
| Outdoor air flow (Max.) | | CFM | 794 | 794 | 1294 |
| Outdoor noise level (Sound pressure) | | dB(A) | 54 | 54 | 53 |
| Throttle type | | | Capillary +EXV | Capillary +EXV | Capillary +EXV |
| Outdoor unit | Dimension (W×D×H) | inch | 30.12x11.93x21.85 | 30.12x11.93x21.85 | 30.12x11.93x21.85 |
| | Packing (W×D×H) | inch | 34.92x13.27x24.02 | 34.92x13.27x24.02 | 34.92x13.27x24.02 |
| | Net/Gross weight | lbs. | 66.80/72.31 | 66.80/72.31 | 63.71/69.00 |
| Refrigerant | Type/Charged | oz | R410A/39.5 | R410A/39.5 | R410A/38.1 |
| | Type/Charged | oz | R410A/39.5 | R410A/39.5 | R410A/38.1 |
| Refrigerant precharge | | ft | 25 | 25 | 25 |
| Additional charge for each ft | | oz/ft | 0.16 | 0.16 | 0.16 |
| Design pressure | | PSIG | 550/340 | 550/340 | 550/340 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 1/2" | 1/4" / 1/2" | 1/4" / 3/8" |
| | Liquid side/Gas side | inch | 1/4" / 1/2" | 1/4" / 1/2" | 1/4" / 3/8" |
| | Max. pipe length | ft | 82.0 | 82.0 | 82.0 |
| | Max. pipe length | ft | 82.0 | 82.0 | 82.0 |
| | Max. difference in level | ft | 32.8 | 32.8 | 32.8 |
| | Max. difference in level | ft | 32.8 | 32.8 | 32.8 |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | 16AWG*4 Stranded, unshielded | 16AWG*4 Stranded, unshielded |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 |
| Ambient temperature | Cooling | °F | -13-122 | -13-122 | -13-122 |
| | Heating | °F | -13-75 | -13-75 | -13-75 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

CHF and CZP SERIES · Up to 25.5 SEER2 - Wi-Fi Compatible

-13°F Low Outdoor Ambient Operating Temperature for both Heating and Cooling.

FEATURES:

- Wi-Fi Compatible (optional)
- Auto Swing
- Auto Defrost
- 12-Speed Indoor Fan
- Emergency Mode
- Anti-Cold Air Function
- Bypass Mode
- Mute Operation
- Refrigerant Leak Detection
- Error Code
- Manual Power Switch
- Interactive display
- Self-Diagnosis
- 3-Directional Airflow
- 2-Way Draining
- Optional Wired Control

| CAPACITY | | | 12K | 18K | 24K |
|--------------------------------------|---|-----------|------------------------------|------------------------------|------------------------------|
| INDOOR UNIT MODEL | | | CHF12CD(I) | CHF18CD(I) | CHF24CD(I) |
| OUTDOOR UNIT MODEL | | | CZP12CD(O) | CZP18CD(O) | CZP24CD(O) |
| Power supply | Rated | V, Ph, Hz | 208/230,1,60 | 208/230,1,60 | 208/230,1,60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 12000 (3600-13300) | 18000 (2000-19300) | 24000 (9200-26800) |
| | Input power | W | 880 | 1440 | 1714 |
| | Rated current | A | 3.82 | 6.45 | 8 |
| | EER2 | Btu/w | 13.7 | 12.5 | 14.0 |
| | SEER2 | Btu/w | 24.6 | 23.5 | 22.0 |
| Heating at 47°F | Rated Capacity (range) | BTUH | 12000 (4500-13500) | 19000 (6200-21000) | 25000 (10350-27000) |
| | Input power | W | 945 | 1650 | 1953 |
| | Rated current | A | 4.1 | 7.4 | 8.7 |
| | COP | W/W | 3.72 | 3.37 | 3.75 |
| | HSPF2-4 | Btu/w | 10.7 | 9.4 | 9.2 |
| Heating at 17°F (AHRI) | Rated capacity | BTUH | 10000 | 15600 | 16500 |
| | Rated capacity | BTUH | 9500 | 12200 | 15800 |
| Heating at 5°F (-15°C) | COP | W/W | 1.8 | 2.2 | 1.9 |
| | MINIMUM CIRCUIT AMPACITY (Outdoor unit) | A | 13.0 | 17.0 | 22.0 |
| MAX.FUSE (Outdoor unit) | A | 15.0 | 25.0 | 30.0 | |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 335.29/229.41/176.47 | 523.53/376.47/305.88 | 611.18/414.12/318.82 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 36/33.5/22.5 | 46.5/43/32.5 | 44/39.5/34 |
| Indoor unit | Dimension(W*D*H) | inch | 31.30x8.86x11.61 | 37.99x9.41x12.56 | 44.88x10.83x14.57 |
| | Packing (W*D*H) | inch | 34.25x14.57x12.01 | 41.14x15.75x12.80 | 48.43x17.91x13.98 |
| | Net/Gross weight | lbs. | 22.93/28.88 | 27.12/35.71 | 43.65/54.89 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" |
| Outdoor air flow (Max.) | | CFM | 1294 | 1765 | 2235 |
| Outdoor noise level (Sound pressure) | | dB(A) | 53.5 | 58 | 60 |
| Throttle type | | | Capillary +EXV | Capillary +EXV | Capillary +EXV |
| Outdoor unit | Dimension (W×D×H) | inch | 30.12x11.93x21.85 | 35.04x13.46x26.50 | 37.24x16.14x31.89 |
| | Packing (W×D×H) | inch | 34.92x13.27x24.02 | 39.17x15.67x29.13 | 42.91x19.69x34.84 |
| | Net/Gross weight | lbs. | 63.71/69.00 | 95.02/101.85 | 124.78/134.92 |
| Refrigerant | Type/Charged | oz | R410A/38.1 | R410A/56.44 | R410A/82.89 |
| | Type/Charged | oz | R410A/38.1 | R410A/56.44 | R410A/82.89 |
| Refrigerant precharge | | ft | 25 | 25 | 25 |
| Additional charge for each ft | | oz/ft | 0.16 | 0.16 | 0.32 |
| Design pressure | | PSIG | 550/340 | 550/340 | 550/340 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" |
| | Liquid side/Gas side | inch | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" |
| | Max. pipe length | ft | 82.0 | 98.0 | 164.0 |
| | Max. pipe length | ft | 82.0 | 98.0 | 164.0 |
| | Max. difference in level | ft | 32.8 | 66.0 | 82.0 |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | 16AWG*4 Stranded, unshielded | 16AWG*4 Stranded, unshielded |
| | Operation temperature | Cooling | °F | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 |
| Ambient temperature | Cooling | °F | -13-122 | -13-122 | -13-122 |
| | Heating | °F | -13-75 | -13-75 | -13-75 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

CHF series

UP TO
28.1 SEER2
HIGH EFFICIENCY
Low Ambient
-22°F



ALEGRIA HI-HEAT SERIES

SINGLE ZONE HEAT PUMP

-22°F Low Outdoor Ambient Operating Temperature for both Heating and Cooling.

10 YEAR WARRANTY
COMPRESSOR

10 YEAR WARRANTY
PARTS

INVERTER



Warranty Registration required except in California and Quebec, Canada.

SINGLE ZONE HEAT PUMP

-22°F Low Ambient Operating Temperature for both Heating and Cooling.
Capacity output is significantly higher than traditional units.



HI-HEAT

10 YEAR WARRANTY
COMPRESSOR

10 YEAR WARRANTY
PARTS

INVERTER



ALEGRIA HI-HEAT SERIES

UP TO
28.1 SEER2
HIGH EFFICIENCY
Low Ambient
-22°F



Wi-Fi Control
(optional)



Celsius &
Fahrenheit
Degree Switch



Quiet Mode



Auto-Restart



Intelligent
Defrost



Low Temperature
Heating &
Cooling



24 Hour Timer



Follow Me

HI-HEAT Quick Glance Features:



Low Ambient



Manual Power



Interactive
Display



Self-Diagnosis



Bypass Mode



2-Way
Draining



3 Directional
Airflow



Mute



Follow-Me



Wired Control
(optional)

HI-HEAT Additional Features:

- Auto Swing
- 12-Speed Indoor Fan Speeds
- Refrigerant Leak Detection (Error Code)
- Anti-Cold Air Function
- Gold Fin Coil Protection
- Louver Position Memory
- Dry Mode
- Emergency Mode
- Bypass Mode

Warranty Registration required except in California and Quebec, Canada.

HI-HEAT Expanded Features:

- **LOW AMBIENT:** Capable of producing comfortable heating and cooling to outdoor ambient temperatures as low as -22°F.
- **MANUAL POWER SWITCH:** Power unit ON/OFF using button located at the evaporator.
- **INTERACTIVE DISPLAY SHOWS:**
 - Error codes based on system failure.
 - Service codes if your filter needs cleaning.
 - Error code if refrigerant leak is detected.
 - When unit goes into auto defrost.
- **SELF-DIAGNOSIS:** Unit will shut down and go into protection mode if it detects abnormalities. The display will show an error code.
- **BYPASS MODE:** Unit will continue to operate if a non-critical component fails, such as a sensor.
- **2-WAY DRAINING OPTION:** Ability to place drain hose on left or right hand side of evaporator allows for flexible installation.
- **3 DIRECTIONAL AIRFLOW:** Air flow is directed so that it reaches more surface area including the corners of the room.
- **MUTE OPERATION:** Silence from the Remote Control.
- **FOLLOW ME FUNCTION:** Remote Control has a sensor built in. In this mode, the unit will sense the temperature at the Remote Control instead of at the indoor unit for the set temperature.
- **CONTROLS:** Wired Controls (optional)
Wi-Fi Control - Cool Link installed in unit (optional)

ALEGRIA HI-HEAT SERIES

SINGLE ZONE · LIGHT COMMERCIAL SERIES

CHF SERIES

Indoor and Outdoor units



| CAPACITY | | | 9K | 12K | 18K | 24K |
|--------------------------------------|---|-----------|------------------------------|----------------------|----------------------|----------------------|
| OUTDOOR UNIT MODEL | | | CHF09CD(O) | CHF12CD(O) | CHF18CD(O) | CHF24CD(O) |
| INDOOR UNIT MODEL | | | CHF09CD(I) | CHF12CD(I) | CHF18CD(I) | CHF24CD(I) |
| Power supply | Rated | V, Ph, Hz | 208/230,1,60 | 208/230,1,60 | 208/230,1,60 | 208/230,1,60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 9000(3300-14300) | 12000(3300-14300) | 18000(8870-19400) | 24000(6850-27000) |
| | Input power | W | 556 | 857 | 1440 | 1845 |
| | Rated current | A | 2.5 | 3.72 | 6.3 | 8.1 |
| | EER2 | Btu/w | 16.2 | 14.0 | 12.5 | 13.0 |
| | SEER2 | Btu/w | 28.1 | 25.5 | 21.5 | 21.5 |
| Heating at 47°F | Rated Capacity (range) | BTUH | 12000(5000-15200) | 12000(5000-15300) | 18000(15100-19500) | 29000(11900-31000) |
| | Input power | W | 907 | 907 | 1700 | 2500 |
| | Rated current | A | 4.1 | 4.1 | 7.3 | 10.9 |
| | COP | W/W | 3.81 | 3.88 | 3.10 | 3.40 |
| | HSPF2-4 | Btu/w | 11.5 | 10.4 | 10.7 | 11.4 |
| Heating at 17°F (AHRI) | Rated capacity | BTUH | 12000 | 12000 | 20270 | 19800 |
| | Rated capacity | BTUH | 10500 | 12000 | 18000 | 25400 |
| Heating at 5°F (-15°C) | COP | W/W | 1.8 | 1.75 | 1.78 | 1.75 |
| | MINIMUM CIRCUIT AMPACITY (Outdoor unit) | A | 15.0 | 15.0 | 16.0 | 25.0 |
| MAX.FUSE (Outdoor unit) | A | 15.0 | 15.0 | 25.0 | 35.0 | |
| Indoor air flow (Hi/Mi/Lo) | CFM | | 335.29/229.41/176.47 | 335.29/229.41/176.47 | 523.53/376.47/305.88 | 611.18/414.12/318.82 |
| Indoor noise level (Hi/Mi/Lo) | dB(A) | | 38/33.5/23.5 | 38/33.5/23.5 | 46/42/24 | 46/39/34 |
| Indoor unit | Dimension(W*D*H) | inch | 31.30x8.86x11.61 | 31.30x8.86x11.61 | 37.99x9.41x12.56 | 44.88x10.83x14.57 |
| | Packing (W*D*H) | inch | 34.25x14.57x12.01 | 34.25x14.57x12.01 | 41.14x15.75x12.80 | 48.43x17.91x13.98 |
| | Net/Gross weight | lbs. | 22.71/28.88 | 22.93/28.88 | 27.12/35.71 | 43.65/54.89 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" |
| Outdoor air flow (Max.) | m3/h | | 2250 | 2250 | 3000 | 3800 |
| Outdoor air flow (Max.) | CFM | | 1324 | 1324 | 1765 | 2235 |
| Outdoor noise level (Sound pressure) | dB(A) | | 54.5 | 56 | 59 | 62 |
| Throttle type | | | Capillary +EXV | Capillary +EXV | Capillary +EXV | Capillary +EXV |
| Outdoor unit | Dimension(W*D*H) | inch | 31.69x12.99x21.81 | 31.69x12.99x21.81 | 35.04x13.46x26.50 | 37.24x16.14x31.89 |
| | Packing (W*D*H) | inch | 36.02x14.57x24.21 | 36.02x14.57x24.21 | 39.17x15.67x29.13 | 42.91x19.69x34.84 |
| | Net/Gross weight | lbs. | 74.07/80.25 | 73.63/79.37 | 100.97/108.03 | 134.48/144.40 |
| Refrigerant | Refrigerant | oz | R410A/41.62 | R410A/41.62 | R410A/65.2 | R410A/91.7 |
| Refrigerant precharge | ft | | 25 | 25 | 25 | 25 |
| Additional charge for each ft | oz/ft | | 0.16 | 0.16 | 0.16 | 0.32 |
| Design pressure | PSIG | | 550/340 | 550/340 | 550/340 | 550/340 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" |
| | Liquid side/Gas side | ft | 82.0 | 82.0 | 98.0 | 164.0 |
| | Max. difference in level | ft | 32.8 | 32.8 | 66.0 | 82.0 |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | | | |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 |
| Ambient temperature | Cooling | °F | -22-122 | -22-122 | -22-122 | -22-122 |
| | Heating | °F | -22-86 | -22-86 | -22-86 | -22-86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA PLATINUM SERIES

LIGHT COMMERCIAL SERIES

- Up to 25.5 SEER2
- Single Zone Heat Pump
- All indoor units WI-FI Compatible
- -13°F Low Ambient Temperature
- 7 YEAR Warranty Compressor
- 7 YEAR Warranty Parts

UP TO
25.5 SEER2
HIGH EFFICIENCY
Low Ambient
-13°F



CHF Series



TPA/TIP Series



FPA Series



CPA Series



T1W Series



CZP SERIES
Light Commercial Condenser



Warranty Registration required except in California and Quebec, Canada.



ALEGRIA PLATINUM SERIES
LIGHT COMMERCIAL SERIES

UP TO
25.5 SEER2
HIGH EFFICIENCY
Low Ambient
-13°F

CZP SERIES

Light Commercial Condenser

- R410a System
- Match with wall-mount, floor-ceiling module, fan coils, or cassette type indoor units
- Gold Fin protection
- Horizontal discharge condensing units to save installation space
- Self diagnosis error codes
- UL & CSA certified for safety
- AHRI listed for efficiency



CHF SERIES Indoor High Wall Mount

- Compact Design
- Sleep Mode
- Auto Restart
- Self-Diagnostics
- LED display
- Wireless Remote Control (standard)
- Auto Swing
- Wired/Programmable Wall Remote (optional)
- 24-Hour Timer
- Wi-Fi Compatible (optional)



INVERTER



Warranty Registration required except in California and Quebec, Canada.



TPA/TIP SERIES

Indoor 4 way Cassette

- Compact Design
- Concealed Ceiling Unit
- Quiet Operation
- 360° Air Discharge
- Wireless Remote Control (standard)
- Programmable Wired Remote (optional)
- Wired Wall Remote (optional)
- Available Fresh Air Intake
- Integrated lift Pump (29" head)
- Wi-Fi Compatible

UP TO
25.5 SEER2
HIGH EFFICIENCY
Low Ambient
-13°F



FPA SERIES

Indoor Floor/Ceiling

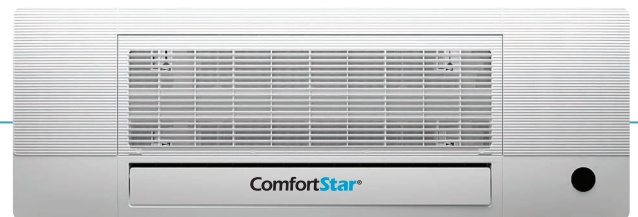
- Flexible Design – Horizontal or Vertical Installation
- Compact Design
- Quiet Operation
- Louver Swing Function to Disperse Air Flow
- Wireless Remote Control (standard)
- Wired Control (optional)
- WI-FI Compatible (optional)



CPA SERIES

Indoor Fan Coil

- Compact Design
- Quiet Operation
- Wired Control (standard)
- Available Fresh Air Intake
- WI-FI Compatible (optional)



T1W SERIES

Indoor 1 way Cassette

- Compact Hidden Design
- Concealed Ceiling Unit
- 360° Air Discharge
- Quiet Operation
- Wired Control (standard)
- WI-FI Compatible (optional)
- Easy Install

INVERTER

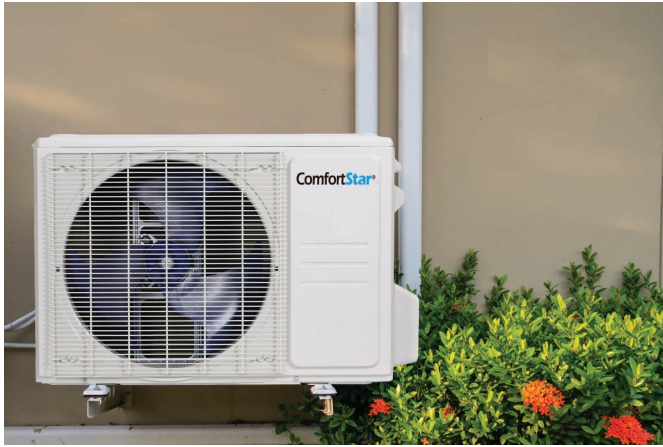
AHRI CERTIFIED
www.ahri.org



Warranty Registration required except in California and Quebec, Canada.

ALEGRIA PLATINUM SERIES

LIGHT COMMERCIAL SERIES



CZP SERIES

Light Commercial Side Discharge Condensers



| CAPACITY | | | 9K | 12K | 18K | 24K |
|---|--------------------------|-----------|-------------------|-------------------|-------------------|-------------------|
| OUTDOOR UNIT MODEL | | | CZP09CD(O) | CZP12CD(O) | CZP18CD(O) | CZP24CD(O) |
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 |
| Communication protocol between IDU and ODU | | | Current loop | Current loop | Current loop | Current loop |
| The Rated Input Current of The Power Conversion Equipment | | A | 7.6 | 8.0 | 13.6 | 17.0 |
| MINIMUM CIRCUIT AMPACITY (Outdoor unit) | | A | 13.0 | 13.0 | 17.0 | 22.0 |
| MAX.FUSE (Outdoor unit) | | A | 15.0 | 15.0 | 25.0 | 30.0 |
| Outdoor air flow (Max.) | | CFM | 1294.1 | 1294.1 | 1764.7 | 2235.3 |
| Outdoor noise level (Sound pressure) | | dB(A) | 53 | 53.5 | 58 | 60 |
| Throttle type | | | Capillary +EXV | Capillary +EXV | Capillary +EXV | Capillary +EXV |
| Outdoor unit | Dimension (W×D×H) | inch | 30.12x11.93x21.85 | 30.12x11.93x21.85 | 35.04x13.46x26.50 | 37.24x16.14x31.89 |
| | Packing (W×D×H) | inch | 34.92x13.27x24.02 | 34.92x13.27x24.02 | 39.17x15.67x29.13 | 42.91x19.69x34.84 |
| | Net/Gross weight | lbs. | 63.71/69.00 | 63.71/69.00 | 95.02/101.85 | 124.78/134.92 |
| Refrigerant | Type/Charged | oz | R410A/38.1 | R410A/38.1 | R410A/56.44 | R410A/82.89 |
| Refrigerant precharge | | ft | 25 | 25 | 25 | 25 |
| Additional charge for each ft | | oz | 0.16 | 0.16 | 0.16 | 0.32 |
| Design pressure | | PSIG | 550/340 | 550/340 | 550/340 | 550/340 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" |
| | Max. pipe length | ft | 98 | 98 | 98 | 164 |
| | Max. difference in level | ft | 66 | 66 | 66 | 82 |
| Ambient temperature | Cooling | °F | -13-122 | -13-122 | -13-122 | -13-122 |
| | Heating | °F | -13-86 | -13-86 | -13-86 | -13-86 |

For proper wiring sizes always refer to local codes.

ALEGRIA PLATINUM SERIES

LIGHT COMMERCIAL SERIES



CZP SERIES

Light Commercial Side Discharge Condensers

| CAPACITY | | | 36K | 48K | 60K |
|---|--------------------------|-----------|-------------------|-------------------|-------------------|
| OUTDOOR UNIT MODEL | | | CZP36CD(O) | CZP48CD(O) | CZP60CD(O)-B |
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 |
| Communication protocol between IDU and ODU | | | RS485 | RS485 | RS485 |
| The Rated Input Current of The Power Conversion Equipment | | A | 23.5 | 28.0 | 25 |
| MINIMUM CIRCUIT AMPACITY (Outdoor unit) | | A | 30.0 | 36.5 | 39.0 |
| MAX.FUSE (Outdoor unit) | | A | 45.0 | 50.0 | 50.0 |
| Outdoor air flow (Max.) | | CFM | 2117.7 | 4500 | 4411.76 |
| Outdoor noise level (Sound pressure) | | dB(A) | 65 | 63.5 | 65 |
| Throttle type | | | Capillary +EXV | Capillary +EXV | Capillary +EXV |
| Outdoor unit | Dimension (W×D×H) | inch | 37.24x16.14x31.89 | 37.48x16.34x52.48 | 37.48x16.34x52.48 |
| | Packing (W×D×H) | inch | 42.91x19.69x34.84 | 43.11x19.49x58.27 | 43.11x19.49x58.27 |
| | Net/Gross weight | lbs. | 155.42/166.23 | 219.14/249.12 | 225.09/254.41 |
| Refrigerant | Type/Charged | oz | R410A/112.9 | R410A/158.7 | R410A/169.3 |
| Refrigerant precharge | | ft | 25 | 25 | 25 |
| Additional charge for each ft | | oz | 0.32 | 0.32 | 0.32 |
| Design pressure | | PSIG | 550/340 | 550/340 | 550/340 |
| Refrigerant piping | Liquid side/Gas side | inch | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 7/8" |
| | Max. pipe length | ft | 213 | 213 | 213 |
| | Max. difference in level | ft | 98 | 98 | 98 |
| Ambient temperature | Cooling | °F | 5-122 | 5-122 | 5-122 |
| | Heating | °F | 5-86 | 5-86 | 5-86 |

For proper wiring sizes always refer to local codes.

ALEGRIA PLATINUM SERIES

LIGHT COMMERCIAL SERIES



CHF SERIES Indoor High Wall Mount



| CAPACITY | | | 9K | 12K | 18K | 24K |
|---|--------------------------|------------------------|------------------------------|----------------------|----------------------|----------------------|
| INDOOR UNIT MODEL | | | CHF09CD(I) | CHF12CD(I) | CHF18CD(I) | CHF24CD(I) |
| OUTDOOR UNIT MODEL | | | CZP09CD(O) | CZP12CD(O) | CZP18CD(O) | CZP24CD(O) |
| Power supply | Rated | V, Ph, Hz | 208/230,1,60 | 208/230,1,60 | 208/230,1,60 | 208/230,1,60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 9000(2500-11900) | 12000(3600-13300) | 18000(2000-19300) | 24000(9200-26800) |
| | Input power | W | 600 | 880 | 1440 | 1714 |
| | Rated current | A | 2.61 | 3.82 | 6.45 | 8 |
| | EER2 | Btu/w | 15.0 | 13.7 | 12.5 | 14.0 |
| | SEER2 | Btu/w | 25.5 | 24.6 | 23.5 | 22.0 |
| | Heating at 47°F | Rated Capacity (range) | BTUH | 10000(3400-13000) | 12000(4500-13500) | 19000(6200-21000) |
| Heating at 47°F | Input power | W | 742 | 945 | 1650 | 1953 |
| | Rated current | A | 3.23 | 4.1 | 7.4 | 8.7 |
| | COP | W/W | 3.95 | 3.72 | 3.37 | 3.75 |
| | HSPF2-4 | Btu/w | 11.7 | 10.7 | 9.4 | 9.2 |
| | HSPF2-5 | Btu/w | 8.7 | 8.1 | 7.0 | 6.5 |
| Heating at 17°F | (AHRI) Rated capacity | BTUH | 9500 | 10000 | 15600 | 16500 |
| Heating at 5°F (-15°C) | Rated capacity | BTUH | 8300 | 9500 | 12200 | 15800 |
| | COP | W/W | 1.85 | 1.8 | 2.2 | 1.9 |
| MINIMUM CIRCUIT AMPACITY (Outdoor unit) | | A | 13.0 | 13.0 | 17.0 | 22.0 |
| MAX.FUSE (Outdoor unit) | | A | 15.0 | 15.0 | 25.0 | 30.0 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 335.29/229.41/176.47 | 335.29/229.41/176.47 | 523.53/376.47/305.88 | 611.18/414.12/318.82 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 38/34/23 | 36/33.5/22.5 | 46.5/43/32.5 | 44/39.5/34 |
| Indoor unit | Dimension(W*D*H) | inch | 31.30x8.86x11.61 | 31.30x8.86x11.61 | 37.99x9.41x12.56 | 44.88x10.83x14.57 |
| | Packing (W*D*H) | inch | 34.25x14.57x12.01 | 34.25x14.57x12.01 | 41.14x15.75x12.80 | 48.43x17.91x13.98 |
| | Net/Gross weight | lbs. | 22.71/28.88 | 22.93/28.88 | 27.12/35.71 | 43.65/54.89 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" |
| Outdoor air flow (Max.) | | CFM | 1294 | 1294 | 1765 | 2235 |
| Outdoor noise level (Sound pressure) | | dB(A) | 53 | 53.5 | 58 | 60 |
| Throttle type | | | Capillary +EXV | Capillary +EXV | Capillary +EXV | Capillary +EXV |
| Outdoor unit | Dimension (W×D×H) | inch | 30.12x11.93x21.85 | 30.12x11.93x21.85 | 35.04x13.46x26.50 | 37.24x16.14x31.89 |
| | Packing (W×D×H) | inch | 34.92x13.27x24.02 | 34.92x13.27x24.02 | 39.17x15.67x29.13 | 42.91x19.69x34.84 |
| | Net/Gross weight | lbs. | 63.71/69.00 | 63.71/69.00 | 95.02/101.85 | 124.78/134.92 |
| Refrigerant | Type/Charged | oz | R410A/38.1 | R410A/38.1 | R410A/56.44 | R410A/82.89 |
| Refrigerant precharge | | ft | 25 | 25 | 25 | 25 |
| Additional charge for each ft | | oz/ft | 0.16 | 0.16 | 0.16 | 0.32 |
| Design pressure | | PSIG | 550/340 | 550/340 | 550/340 | 550/340 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" |
| | Max. pipe length | ft | 82.0 | 82.0 | 98.0 | 164.0 |
| | Max. difference in level | ft | 32.8 | 32.8 | 66.0 | 82.0 |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | | | |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 |
| Ambient temperature | Cooling | °F | -13-122 | -13-122 | -13-122 | -13-122 |
| | Heating | °F | -13-75 | -13-75 | -13-75 | -13-75 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA PLATINUM SERIES

LIGHT COMMERCIAL SERIES



TPA/TIP SERIES

Indoor 4 Way Cassette



| CAPACITY | | | 9K | 12K | 18K | 24K | 36K | 48K |
|--|----------------------------|-----------|----------------------|-------------------|------------------------------|--------------------|--------------------|--------------------|
| OUTDOOR UNIT MODEL | | | CZP09CD(O) | CZP12CD(O) | CZP18CD(O) | CZP24CD(O) | CZP36CD(O) | CZP48CD(O) |
| INDOOR UNIT MODEL | | | TPA-09 | TPA-12 | TPA-18 | TIP-24 | TIP-36 | TIP-48 |
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 9000(2970-10500) | 12000(2800-14100) | 16000(5600-16000) | 24000(8130-26272) | 36000(12400-36000) | 48000(16600-48000) |
| | Input power | W | 692 | 857 | 1340 | 1920 | 4000 | 5053 |
| | Rated current | A | 3.17 | 3.92 | 6.01 | 8.78 | 17.61 | 23.1 |
| | EER2 | Btu/w | 13 | 14 | 12.5 | 12.5 | 9.4 | 9.5 |
| | SEER2 | Btu/w | 20 | 22.7 | 20.5 | 21.5 | 19.2 | 18.5 |
| Heating at 47°F | Rated Capacity (range) | BTUH | 10000(2230-11650) | 12000(1950-14600) | 19000(7700-18500) | 26000(10650-30000) | 38000(11200-38000) | 50000(11850-52000) |
| | Input power | W | 952 | 1045 | 1950 | 2210 | 3700 | 4727 |
| | Rated current | A | 4.16 | 4.78 | 8.21 | 10 | 16.93 | 21.6 |
| | COP | W/W | 3.08 | 3.37 | 2.78 | 3.26 | 3.01 | 3.10 |
| | HSPF2-4 | Btu/w | 10.0 | 9.8 | 10.5 | 9.7 | 8.8 | 9.8 |
| Heating at 5°F (-15°C) | Rated capacity | BTUH | 8500 | 7400 | 9500 | 16000 | 20000 | 27000 |
| | COP | W/W | 2.04 | 1.89 | 9500 | 2.12 | 1.9 | 1.8 |
| MINIMUM CIRCUIT AMPACITY (Indoor unit) | | A | 3.0 | 3.0 | 1.9 | 2.5 | 2.5 | 2.5 |
| MAX. FUSE (Indoor unit) | | A | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 352.94/305.88/270.59 | 379/309/261 | 562.35/485.29/438.82 | 706/635/547 | 947/853/753 | 1171/1059/935 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 39.5/36/32.5 | 40.5/35.5/31.5 | 43.5/38.5/35.5 | 49/46/43 | 52.5/50/46.5 | 55/53/50 |
| Indoor unit | Dimension (W×D×H) | inch | 22.44x22.44x10.24 | 22.44x22.44x10.24 | 22.44x22.44x10.24 | 32.68x32.68x8.07 | 32.68x32.68x9.65 | 32.68x32.68x11.30 |
| | Packing (W×D×H) | inch | 26.06x26.06x12.48 | 26.06x26.06x12.48 | 26.06x26.06x12.48 | 35.83x35.83x9.84 | 35.83x35.83x11.42 | 35.83x35.83x12.99 |
| | Net/Gross weight | lbs. | 31.97/38.14 | 35.27/41.01 | 35.71/46.96 | 47.18/55.34 | 59.97/69.00 | 64.59/74.07 |
| Panel | Dimension (W×D×H) | inch | 25.47x25.47x1.97 | 25.47x25.47x1.97 | 25.47x25.47x1.97 | 37.40x37.40x2.17 | 37.40x37.40x2.17 | 37.40x37.40x2.17 |
| | Packing (W×D×H) | inch | 28.15x28.15x4.84 | 28.15x28.15x4.84 | 28.15x28.15x4.84 | 40.75x40.75x3.54 | 40.75x40.75x3.54 | 40.75x40.75x3.54 |
| | Net/Gross weight | lbs. | 5.52/9.92 | 5.52/9.92 | 5.52/9.92 | 13.23/19.84 | 13.23/19.84 | 13.23/19.84 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 5/8" |
| Drainage water pipe diameter | | inch | 1 | 1 | 1 | 1 | 1 | 1 |
| Connection wiring | | | | | 16AWG*4 Stranded, unshielded | | | |
| Communication protocol between IDU and ODU | | | Current loop | Current loop | Current loop | Current loop | RS485 | RS485 |
| Therm. type | Wireless remote controller | | Standard | Standard | Standard | Standard | Standard | Standard |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 | 32-86 | 32-86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA PLATINUM SERIES

LIGHT COMMERCIAL SERIES



T1W SERIES

Indoor 1 Way Cassette

| INDOOR UNIT MODEL | | | T1W9P | T1W12P | T1W18P |
|----------------------------------|-------------------------|----------|----------------------|----------------------|----------------------|
| OUTDOOR UNIT MODEL | | | CZP09CD(O) | CZP12CD(O) | CZP18CD(O) |
| Power supply | | V- Ph-Hz | 208/230V,1Ph 60Hz | 208/230V,1Ph 60Hz | 208/230V,1Ph 60Hz |
| Power supply | Voltage range | V | 187-253 | 187-253 | 187-253 |
| | Capacity (range) | BTUhr | 9000(4400-11200) | 12000(4000-13200) | 18000(3200-18100) |
| Cooling | Input | W | 692(320-980) | 952(160-1200) | 1440(415-1690) |
| | Current | A | 3.10(1.51-4.35) | 4.17(1.26-5.35) | 6.4(2-7.4) |
| | EER2 | BTUhr/W | 13 | 12.6 | 12.5 |
| | SEER2 | BTUhr/W | 22.5 | 22 | 21.8 |
| | Capacity (range) | BTUhr | 11000(3800-12400) | 12500(3700-12800) | 19000(5300-21500) |
| Heating | Input | W | 938(300-1100) | 1145(300-1240) | 1690(530-1960) |
| | Current | A | 4.26(1.45-4.90) | 4.83(2.37-5.50) | 7.6(2.6-8.8) |
| | COP | W/W | 3.44 | 3.2 | 3.3 |
| | HSPF2-4 | BTUhr/W | 11.5 | 9.8 | 10.7 |
| | HSPF2-5 | BTUhr/W | 9.1 | 7.5 | 7.6 |
| MINIMUM CIRCUIT AMPACITY(Indoor) | | A | 3 | 3 | 3 |
| MAX.FUSE(Indoor) | | A | 15 | 15 | 15 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 294.12/258.82/235.29 | 311.76/282.35/247.06 | 351.76/300.00/207.06 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 38/36/33 | 40.5/38.5/34.5 | 44/41/34 |
| Indoor unit | Dimension(W*D*H)(body) | inch | 50.31x13.19x8.98 | 50.31x13.19x8.98 | 50.31x13.19x8.98 |
| | Packing (W*D*H)(body) | inch | 57.60x22.48x22.64 | 57.60x22.48x22.64 | 57.60x22.48x22.64 |
| | Net/Gross weight (body) | lb | 43.87/81.35 | 45.19/82.89 | 45.19/82.89 |
| Drainage water pipe dia | | inch | 1 | 1 | 1 |
| Outdoor air flow | | CFM | 1294.12 | 1294.12 | 2058.82 |
| Outdoor noise level | | dB(A) | 54 | 55 | 58 |
| Outdoor unit | Dimension(W*D*H) | inch | 30.12x11.93x21.85 | 30.12x11.93x21.85 | 35.04x13.46x26.50 |
| | Packing (W*D*H) | inch | 34.92x13.27x24.02 | 34.92x13.27x24.02 | 39.17x15.67x29.13 |
| | Net/Gross weight | lb | 63.71/69.00 | 63.71/69.00 | 94.36/100.97 |
| Refrigerant piping | Liquid side/ Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" |
| Connection wiring | | | 14*4 AWG | 14*4 AWG | 14*4 AWG |
| Thermostat type | | | Remote Control | Remote Control | Remote Control |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA PLATINUM SERIES

LIGHT COMMERCIAL SERIES



FPA SERIES

Indoor Floor/Ceiling

| INDOOR UNIT MODEL | | | FPA-18 | FPA-24 | FPA-36DU | FPA-48DU | FPA-60DU |
|--|------------------------|------------------------------|----------------------|----------------------|-----------------------|-------------------------|-------------------------|
| OUTDOOR UNIT MODEL | | | CZP18CD(O) | CZP24CD(O) | CZP36CD(O) | CZP48CD(O) | CZP60CD(O)-B |
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 18000(6200-18000) | 24000(7700-25500) | 36000(11476-36000) | 48000(15861-48000) | 54000(15000-54000) |
| | Input power | W | 1450 | 1920 | 4509 | 5170 | 5537 |
| | Rated current | A | 6.29 | 8.78 | 20.6 | 23.6 | 24.30 |
| | EER2 | Btu/w | 12.5 | 12.5 | 8.5 | 9.3 | 9.8 |
| | SEER2 | Btu/w | 23 | 20.0 | 19.0 | 18.9 | 19.8 |
| | Rated Capacity (range) | BTUH | 20000(8100-20000) | 24000(11600-30900) | 38000(11467-38000) | 50000(12159-50000) | 60000(17000-62000) |
| Heating at 47°F | Input power | W | 2010 | 1920 | 3978 | 5861 | 5850 |
| | Rated current | A | 8.51 | / | 18.2 | 25.5 | 25.6 |
| | COP | W/W | 2.92 | 3.66 | 2.80 | 2.50 | 3.01 |
| | HSPF2-4 | Btu/w | 10 | 10.3 | 9.0 | 10.0 | 9.0 |
| | HSPF2-5 | Btu/w | 7.7 | 7.8 | 7.0 | 7.5 | 7.0 |
| Heating at 5°F (-15°C) | Rated capacity | BTUH | 9700 | 17459 | 22000 | 28000 | 34000 |
| | COP | W/W | 1.80 | 2.10 | 1.75 | 1.75 | 1.9 |
| MINIMUM CIRCUIT AMPACITY (Indoor unit) | | A | 1.9 | 2.5 | 1.9 | 2.3 | 3.0 |
| MAX. FUSE (Indoor unit) | | A | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 548.24/485.29/420.59 | 758.82/708.24/598.24 | 1036.47/917.06/637.65 | 1352.94/1117.65/1000.00 | 1352.94/1117.65/1000.00 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 45.5/43/39 | 51/47/42 | 51.5/48.0/40.5 | 55.0/49.5/44.5 | 55.0/49.5/44.5 |
| Indoor unit | Dimension (W×D×H) | inch | 42.05x26.57x9.25 | 42.05x26.57x9.25 | 50.59x26.57x9.25 | 64.96x26.57x9.25 | 64.96x26.57x9.25 |
| | Packing (W×D×H) | inch | 45.08x29.72x12.52 | 45.08x29.72x12.52 | 53.54x29.72x12.32 | 67.91x29.72x12.32 | 67.91x29.72x12.32 |
| | Net/Gross weight | lbs. | 57.10/68.34 | 60.63/72.09 | 69.00/81.57 | 87.74/102.29 | 87.74/102.29 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 1/2" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 5/8" |
| Drainage water pipe diameter | | inch | 1 | 1 | 1 | 1 | 1 |
| Connection wiring | | 16AWG*4 Stranded, unshielded | | | | | |
| Communication protocol between IDU and ODU | | | Current loop | Current loop | RS485 | RS485 | RS485 |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 | 32-86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA PLATINUM SERIES

LIGHT COMMERCIAL SERIES



CPA SERIES

Indoor Fan Coil



| CAPACITY | | | 9K | 12K | 18K | 24K | 36K | 48K | 60K |
|--|------------------------|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|----------------------------|------------------------|
| OUTDOOR UNIT MODEL | | | CZP09CD(O) | CZP12CD(O) | CZP18CD(O) | CZP24CD(O) | CZP36CD(O) | CZP48CD(O) | CZP60CD(O)-B |
| INDOOR UNIT MODEL | | | CPA-09B | CPA-12B | CPA-18B | CPA-24B | CPA-36DUB | CPA-48DUB | CPA-60DU |
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 9000 (2220-11600) | 11500 (2100-13450) | 17000 (5800-18000) | 23000 (6100-28200) | 36000 (5973-36000) | 48000 (12077-48000) | 59000 (11000-57000) |
| | Input power | W | 667 | 960 | 1455 | 1920 | 4000 | 5217 | 5700 |
| | Rated current | A | 3.05 | 4.39 | 6.17 | 8.8 | 18.3 | 23.14 | 25 |
| | EER2 | Btu/w | 12.5 | 11.7 | 12.5 | 12.5 | 8.8 | 8.5 | 10.3 |
| | SEER2 | Btu/w | 19.2 | 19.0 | 20 | 19.0 | 15.8 | 15.1 | 17 |
| Heating at 47°F | Rated Capacity (range) | BTUH | 10000 (2240-13350) | 12000 (1900-15000) | 20000 (5000-20000) | 25000 (11700-33000) | 40000 (12765-40000) | 50000 (11607-50000) | 60000 (12000-61000) |
| | Input power | W | 780 | 1043 | 1880 | 2030 | 3478 | 4885 | 5048 |
| | Rated current | A | 3.57 | 4.78 | 7.90 | 9.3 | 15.9 | 21.5 | 23 |
| | COP | W/W | 3.76 | 3.37 | 3.12 | 3.52 | 3.37 | 3.00 | 3 |
| | HSPF2-4 | Btu/w | 10.2 | 10.3 | 10.6 | 11.2 | 8.8 | 9.3 | 8.4 |
| | HSPF2-5 | Btu/w | 8.0 | 7.8 | 8.2 | 8.8 | 7.0 | 7.3 | 6.5 |
| Heating at 5°F (-15°C) | Capacity | BTUH | 8499 | 7300 | 10500 | 15688 | 22000 | 32000 | 35000 |
| | COP | W/W | 2.38 | 1.92 | 2.00 | 2.07 | 1.75 | 1.75 | 2 |
| MINIMUM CIRCUIT AMPACITY (Indoor) | | A | 3.0 | 3.0 | 3.0 | 3.0 | 15.0 | 5.0 | 5.0 |
| MAX. FUSE (Indoor unit) | | A | 15.00 | 15.00 | 15.00 | 15.0 | 15.0 | 15.0 | 15.0 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 352.94/282.35/ 176.47 | 352.94/282.35/ 176.47 | 529.41/450.00/ 370.59 | 775.47/693.06/ 434.88 | 1081.76/912.35/ 702.94 | 1228.41/1031.00/ 714.65 | 2157/1710/1262 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 33.5/28.5/27 | 38/34.5/31 | 40/37.5/35 | 44/41/37 | 48.0/43.5/40.5 | 52.0/50.0/49.0 | 50.5/47/43 |
| External Static Pressure (ESP) | Rated | Pa | 25 | 25 | 25 | 25 | 37 | 50 | 50 |
| | | In. wc. | 0.1 | 0.1 | 0.1 | 0.1 | 0.15 | 0.2 | 0.2 |
| | Range | Pa | 0-40 | 0-40 | 0-100 | 0-160 | 0-160 | 0-160 | 0-200 |
| | | In. wc. | 0-0.16 | 0-0.16 | 0-0.40 | 0-0.64 | 0-0.64 | 0-0.64 | 0-0.8 |
| Indoor unit | Dimension (W×D×H) | inch | 27.56x17.72x7.87 | 27.56x17.72x7.87 | 34.65x28.53x8.27 | 43x30x10 | 54x30x10 | 47.24x34.41x11.81 | 55.12/33.78/17.32 |
| | Packing (W×D×H) | inch | 33.86x21.26x10.83 | 33.86x21.26x10.83 | 42.13x28.53x10.63 | 51x32x12 | 62x32x12 | 55.31x36.02x13.98 | 63.19/35.83/19.88 |
| | Net/Gross weight | lbs. | 37.5/48.3 | 37.5/48.3 | 54/66 | 87/103 | 106/122 | 120/142 | 163.1/189.6 |
| | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 5/8" |
| Drainage water pipe diameter | | inch | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Connection wiring | | 16AWG*4 Stranded, unshielded | | | | | | | |
| Communication protocol between IDU and ODU | | | Current loop | Current loop | Current loop | Current loop | RS485 | RS485 | RS485 |
| Therm. | Wired Controller | | Standard | Standard | Standard | Standard | Standard | Standard | Standard |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 | 32-86 | 32-86 | 32-86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA HI-HEAT SERIES

LIGHT COMMERCIAL SERIES

- Up to 28.1 SEER2
- Single Zone Heat Pump
- -22°F Low Ambient Temperature
- Wi-Fi compatible (optional)
- 10 YEAR Warranty Compressor
- 10 YEAR Warranty Parts

UP TO
28.1 SEER2
HIGH EFFICIENCY
Low Ambient
-22°F



CHF Series



TPA/TIP Series



FPA Series



CPA Series



T1W Series



CHF SERIES
Light Commercial Condenser



Warranty Registration required except in California and Quebec, Canada.

ALEGRIA HI-HEAT SERIES

LIGHT COMMERCIAL SERIES



CHF SERIES

Hi-Heat Light Commercial Side Discharge Condensers

| OUTDOOR UNIT MODEL | | | CHF09CD(O) | CHF12CD(O) | CHF18CD(O) | CHF24CD(O) | CHF36CD(O) | CHF48CD(O) | CHF60CD(O) |
|---|--------------------------|-----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--------------------|
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 |
| Communication protocol between IDU and ODU | | | Current loop | Current loop | Current loop | Current loop | RS485 | RS485 | RS485 |
| The Rated Input Current of The Power Conversion Equipment | | A | 10.04 | 9.96 | 15.3 | 19.0 | 32.0 | 33.0 | |
| MINIMUM CIRCUIT AMPACITY (Outdoor unit) | | A | 15.0 | 15.0 | 16.0 | 25.0 | 41.0 | 42.0 | 47 |
| MAX.FUSE (Outdoor unit) | | A | 15.0 | 15.0 | 25.0 | 35.0 | 50.0 | 50.0 | 60 |
| Outdoor air flow (Max.) | | CFM | 1323.5 | 1323.5 | 1764.7 | 2235.3 | 4500.00 | 4500.00 | 4235.29 |
| Outdoor noise level (Sound pressure) | | dB(A) | 54.5 | 56 | 59 | 60 | 61.0 | 62.0 | 63 |
| Throttle type | | | Capillary +EXV | Capillary +EXV | Capillary +EXV | Capillary +EXV | Capillary +EXV | Capillary +EXV | EXV+Throttle valve |
| Outdoor unit | Dimension (W×D×H) | inch | 31.69x12.99x21.81 | 31.69x12.99x21.81 | 35.04x13.46x26.50 | 37.24x16.14x31.89 | 37.48x16.34x52.48 | 37.48x16.34x52.48 | 37.48x16.34x52.48 |
| | Packing (W×D×H) | inch | 36.02x14.57x24.21 | 36.02x14.57x24.21 | 39.17x15.67x29.13 | 42.91x19.69x34.84 | 43.11x19.49x58.27 | 43.11x19.49x58.27 | 43.11x19.49x58.27 |
| | Net/Gross weight | lbs. | 74.07/80.25 | 73.63/79.37 | 100.97/108.03 | 134.48/144.40 | 220.24/248.02 | 227.07/255.73 | 240.74/271.61 |
| Refrig. | Type/Charged | oz | R410A/41.62 | R410A/41.62 | R410A/65.2 | R410A/91.7 | R410A/148 | R410A/148 | R410A/170 |
| Refrigerant precharge | | ft | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Additional charge for each ft | | oz | 0.16 | 0.16 | 0.16 | 0.32 | 0.32 | 0.32 | 0.32 |
| Design pressure | | PSIG | 550/340 | 550/340 | 550/340 | 550/340 | 550/340 | 550/340 | 550/340 |
| Refr. piping | Liquid side/ Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 7/8" |
| | Max. pipe length | ft | 98 | 98 | 98 | 164 | 213 | 213 | 213.25 |
| | Max. difference in level | ft | 66 | 66 | 66 | 82 | 98 | 98 | 98.42 |
| Ambient temp. | Cooling | °F | -22-122 | -22-122 | -22-122 | -22-122 | -22-122 | -22-122 | -22-122 |
| | Heating | °F | -22-86 | -22-86 | -22-86 | -22-86 | -22-86 | -22-86 | -22-86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA HI-HEAT SERIES

LIGHT COMMERCIAL SERIES



CHF SERIES

Hi-Heat Indoor High Wall Mount

| INDOOR UNIT MODEL | | | CHF09CD(I) | CHF12CD(I) | CHF18CD(I) | CHF24CD(I) |
|---|------------------------|------------------------------|----------------------|----------------------|----------------------|----------------------|
| OUTDOOR UNIT MODEL | | | CHF09CD(O) | CHF12CD(O) | CHF18CD(O) | CHF24CD(O) |
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 |
| | Rated Capacity (range) | BTUH | 9000(3300-14300) | 12000(3300-14300) | 18000(8870-19400) | 24000(6850-27000) |
| Cooling | Input power | W | 556 | 857 | 1440 | 1845 |
| | Rated current | A | 2.5 | 3.72 | 6.3 | 8.1 |
| | EER | Btu/w | 16.2 | 14.0 | 12.5 | 13.0 |
| | SEER2 | Btu/w | 28.1 | 25.5 | 21.5 | 21.5 |
| Heating at 47°F | Rated Capacity (range) | BTUH | 12000(5000-15200) | 12000(5000-15300) | 18000(15100-19500) | 29000(11900-31000) |
| | Input power | W | 907 | 907 | 1700 | 2500 |
| | Rated current | A | 4.1 | 4.1 | 7.3 | 10.9 |
| | COP | W/W | 3.81 | 3.88 | 3.10 | 3.40 |
| | HSPF4 | Btu/w | 11.5 | 10.4 | 10.7 | 11.4 |
| | HSPF5 | Btu/w | 9.0 | 8.0 | 7.9 | 9.2 |
| Heating at 5°F | Rated capacity | BTUH | 9.0 | 8.0 | 7.9 | 9.2 |
| | COP | W/W | 1.8 | 1.75 | 1.78 | 1.75 |
| The Rated Input Current of Power Conversion Equipment | | A | 0.41 | 0.41 | 0.44 | 0.55 |
| MINIMUM CIRCUIT AMPACITY (Indoor unit) | | A | 3.0 | 3.0 | 3.0 | 3.0 |
| MAX. FUSE (Indoor unit) | | A | 15.0 | 15.0 | 15.0 | 15.0 |
| Indoor air flow (100%-Hi/60%-Mi/40%-Lo) | | m3/h | 570/390/300 | 570/390/300 | 890/640/520 | 1039/704/542 |
| Indoor air flow (100%-Hi/60%-Mi/40%-Lo) | | CFM | 335.29/229.41/176.47 | 335.29/229.41/176.47 | 523.53/376.47/305.88 | 611.18/414.12/318.82 |
| Indoor noise level (100%-Hi/60%-Mi/40%-Lo) | | dB(A) | | 38/33.5/23.5 | 46/42/24 | 46/39/34 |
| Indoor unit (WxDxH) | Dimension | inch | 31.30x8.86x11.61 | 31.30x8.86x11.61 | 40.04x9.53x12.56 | 46.85x10.96x14.57 |
| | Packing | inch | 34.25x14.57x12.01 | 34.25x14.57x12.01 | 43.11x15.75x12.91 | 50.39x17.91x14.17 |
| | Net/Gross weight | lbs. | 22.71/28.88 | 22.71/28.88 | 28.66/37.48 | 48.50/59.30 |
| Refrig. | Liquid/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" |
| Connection wiring | | 16AWG*4 Stranded, unshielded | | | | |
| Communication protocol between IDU and ODU | | | Current loop | Current loop | Current loop | Current loop |
| Room temp. | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA HI-HEAT SERIES

LIGHT COMMERCIAL SERIES



TPA SERIES

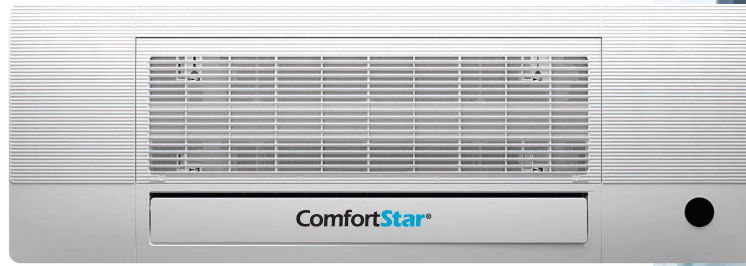
Hi-Heat Indoor 4 Way Cassette

| INDOOR UNIT MODEL | | | TPA-09 | TPA-12 | TPA-18 | TIP-24 | TIP-36 | TIP-48 |
|---|-------------------------|----------------------|-------------------|----------------------|------------------------------|---------------------|--------------------|--------------------|
| OUTDOOR UNIT MODEL | | | CHF09CD(O) | CHF12CD(O) | CHF18CD(O) | CHF24CD(O) | CHF36CD(O) | CHF48CD(O) |
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 |
| | Rated Capacity-range | BTUH | 9000(2850-11100) | 12000(3000-13700) | 16000(5600-17000) | 24000(8000-25000) | 36000(13700-38000) | 48000(2700-48900) |
| Cooling | Input power | W | 692 | 945 | 1280 | 2182 | 3790 | 6070 |
| | Rated current | A | 3.17 | 4.32 | 8.0 | 8.5 | 16.5 | 25.24 |
| | EER | Btu/w | 13 | 12.7 | 12.5 | 11 | 9.5 | 8.30 |
| | SEER2 | Btu/w | 20.5 | 21.5 | 20.0 | 20.2 | 19 | 16.5 |
| | Rated Capacity-range | BTUH | 9800(2270-12500) | 12000(2000-15300) | 17000(8700-21000) | 25000(111840-27000) | 40000(17600-47000) | 53000(11800-58000) |
| Heating at 47°F | Input power | W | 1000 | 1091 | 1832 | 2093 | 3900 | 4900 |
| | Rated current | A | 4.58 | 4.99 | 11.0 | 9.8 | 17.5 | 21.92 |
| | COP | W/W | 2.93 | 3.22 | 2.88 | 3.50 | 2.93 | 3.05 |
| | HSPF4 | Btu/w | 10.8 | 10.6 | 10.3 | 11.6 | 10.3 | 10.7 |
| | HSPF5 | Btu/w | 9 | 8.8 | 8.7 | 9 | 8.8 | 9.2 |
| | Rated capacity | BTUH | 10200 | 11500 | 16000 | 24100 | 36000 | 48000 |
| Heating at 5°F | COP | W/W | 1.79 | 1.86 | 1.68 | 1.75 | 1.9 | 1.90 |
| Rated Input Current Power Conversion Equip. | A | 0.81 | 0.92 | 1.65 | 1.0 | 1.0 | 1.5 | |
| MINIMUM CIRCUIT AMPACITY (Indoor unit) | A | 3.0 | 3.0 | 1.9 | 2.5 | 2.5 | 2.5 | |
| MAX. FUSE (Indoor unit) | A | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | 15.0 | |
| Indoor air flow (Hi/Mi/Lo) | m3/h | 600/520/460 | 644/525/443 | 956/825/746 | 1200/1080/930 | 1610/1450/1280 | 1990/1800/1590 | |
| Indoor air flow (Hi/Mi/Lo) | CFM | 352.94/305.88/270.59 | 379/309/261 | 562.35/485.29/438.82 | 706/635/547 | 947/853/753 | 1171/1059/935 | |
| Indoor noise level (Hi/Mi/Lo) | dB(A) | 39.5/36/32.5 | 40.5/35.5/31.5 | 43.5/38.5/35.5 | 48/45.5/43 | 52.5/50/46.5 | 55/53/50 | |
| Indoor unit (WxDxH) | Dimension | inch | 22.44x22.44x10.24 | 22.44x22.44x10.24 | 22.44x22.44x10.24 | 32.68x32.68x8.07 | 32.68x32.68x9.65 | 32.68x32.68x11.30 |
| | Packing | inch | 26.06x26.06x12.48 | 26.06x26.06x12.48 | 26.06x26.06x12.48 | 35.83x35.83x9.84 | 35.83x35.83x11.42 | 35.83x35.83x12.99 |
| | Net/Gross weight | lbs. | 31.97/38.14 | 35.27/41.01 | 35.71/46.96 | 47.18/55.34 | 59.97/69.00 | 64.59/74.07 |
| Panel (WxDxH) | Dimension | inch | 25.47x25.47x1.97 | 25.47x25.47x1.97 | 25.47x25.47x1.97 | 37.40x37.40x2.17 | 37.40x37.40x2.17 | 37.40x37.40x2.17 |
| | Packing | inch | 28.15x28.15x4.84 | 28.15x28.15x4.84 | 28.15x28.15x4.84 | 40.75x40.75x3.54 | 40.75x40.75x3.54 | 40.75x40.75x3.54 |
| | Net/Gross weight | lbs. | 5.52/9.92 | 5.52/9.92 | 5.52/9.92 | 13.23/19.84 | 13.23/19.84 | 13.23/19.84 |
| Refrig. | Liquid/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 5/8" |
| Connection wiring | | | | | 16AWG*4 Stranded, unshielded | | | |
| Communication protocol - IDU and ODU | | | Current loop | Current loop | Current loop | Current loop | RS485 | RS485 |
| Thermo type | Wireless remote Control | | Standard | Standard | Standard | Standard | Standard | Standard |
| | Wired/Program Control | | Optional | Optional | Optional | Optional | Optional | Optional |
| | Wi-Fi | | Optional | Optional | Optional | Optional | Optional | Optional |
| Room temp. | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 | 32-86 | 32-86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA HI-HEAT SERIES

LIGHT COMMERCIAL SERIES



T1W SERIES

Indoor 1 Way Cassette

| INDOOR UNIT MODEL | | | T1W9P | T1W12P | T1W18P |
|----------------------------------|-------------------------|----------|----------------------|----------------------|----------------------|
| OUTDOOR UNIT MODEL | | | CHF09CD(O) | CHF12CD(O) | CHF18CD(O) |
| Power supply | | V- Ph-Hz | 208/230V,1Ph 60Hz | 208/230V,1Ph 60Hz | 208/230V,1Ph 60Hz |
| Power supply | Voltage range | V | 187-253 | 187-253 | 187-253 |
| | Capacity (range) | BTUhr | 9000(3600~12200) | 12000(4000~14100) | 16700(6100~17500) |
| Cooling | Input | W | 692(282~1150) | 923(147~1257) | 1337(305~1880) |
| | Current | A | 3.10(1.51~4.35) | 4.17(1.26~5.35) | 8.30(2.2~8.0) |
| | EER2 | BTUhr/W | 13 | 13 | 12.5 |
| | SEER2 | BTUhr/W | 24 | 23 | 19.8 |
| | Capacity (range) | BTUhr | 10900(4800~14000) | 12500(4600~15000) | 20000(6450~21500) |
| Heating | Input | W | 968(391~1400) | 1150(362~1500) | 2086(1000~2220) |
| | Current | A | 5.24(2.1~6.3) | 4.85(1.73~6.59) | 12.3(4.5~9.5) |
| | COP | W/W | 3.3 | 3.19 | 2.81 |
| | HSPF2-4 | BTUhr/W | 12.4 | 10 | 11.2 |
| | HSPF2-5 | BTUhr/W | 9.5 | 7.8 | 8.5 |
| MINIMUM CIRCUIT AMPACITY(Indoor) | | A | 3 | 3 | 3 |
| MAX.FUSE(Indoor) | | A | 15 | 15 | 15 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 294.12/258.82/235.29 | 311.76/282.35/247.06 | 351.76/300.00/207.06 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 37.5/35.5/31 | 38.5/37/32.5 | 44/40.5/35 |
| Indoor unit | Dimension(W*D*H)(body) | inch | 50.31x13.19x8.98 | 50.31x13.19x8.98 | 50.31x13.19x8.98 |
| | Packing (W*D*H)(body) | inch | 57.60x22.48x22.64 | 57.60x22.48x22.64 | 57.60x22.48x22.64 |
| | Net/Gross weight (body) | lb | 43.87/81.35 | 45.19/82.89 | 45.19/82.89 |
| Drainage water pipe dia | | inch | 1 | 1 | 1 |
| Outdoor air flow | | CFM | 1323.53 | 1323.53 | 1764.71 |
| Outdoor noise level | | dB(A) | 55.5 | 57 | 57.5 |
| Outdoor unit | Dimension(W*D*H) | inch | 31.69x12.99x21.81 | 31.69x12.99x21.81 | 35.04x13.46x26.50 |
| | Packing (W*D*H) | inch | 36.02x14.57x24.21 | 36.02x14.57x24.21 | 39.17x15.67x29.13 |
| | Net/Gross weight | lb | 6.35/9.52 | 6.35/12.7 | 6.35/12.7 |
| Refrigerant piping | Liquid side/ Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" |
| Connection wiring | | | 14*4 AWG | 14*4 AWG | 14*4 AWG |
| Thermostat type | | | Remote Control | Remote Control | Remote Control |
| Operation temperature | Cooling | °F | 60~90 | 60~90 | 60~90 |
| | Heating | °F | 32~86 | 32~86 | 32~86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA HI-HEAT SERIES

LIGHT COMMERCIAL SERIES



FPA SERIES

Hi-Heat Indoor Floor Ceiling

| INDOOR UNIT MODEL | | | FPA-18 | FPA-24 | FPA-36DU | FPA-48DU |
|---|------------------------|------------------------------|----------------------|----------------------|-----------------------|-------------------------|
| OUTDOOR UNIT MODEL | | | CHF18CD(O) | CHF24CD(O) | CHF36CD(O) | CHF48CD(O) |
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 17000(7800-19900) | 24000(5400-26800) | 36000(7774-42165) | 48000(2150-48051) |
| | Input power | W | 1360 | 2087 | 4200 | 5930 |
| | Rated current | A | 8.80 | 9.55 | 17.8 | 24.86 |
| | EER | Btu/w | 12.5 | 11.5 | 8.6 | 8.20 |
| | SEER2 | Btu/w | 20.2 | 20.2 | 17.5 | 17 |
| | Heating at 47°F | Rated Capacity (range) | BTUH | 18000(8600-21500) | 25000(12500-30500) | 39000(11501-45750) |
| Heating at 47°F | Input power | W | 1655 | 2000 | 4250 | 4930 |
| | Rated current | A | 10.90 | 9.15 | 19 | 20.60 |
| | COP | W/W | 3.19 | 3.52 | 2.69 | 2.97 |
| | HSPF4 | Btu/w | 10.6 | 11.6 | 10 | 10.8 |
| | HSPF5 | Btu/w | 8.6 | 10.0 | 8.5 | 9.1 |
| Heating at 5°F | Rated capacity | BTUH | 16000 | 24894 | 36000 | 48000 |
| | COP | W/W | 1.75 | 1.76 | 1.75 | 1.9 |
| Rated Input Current Power Conversion Equip. | | A | 1.65 | 2.20 | 1.5 | 1.8 |
| MINIMUM CIRCUIT AMPACITY (Indoor unit) | | A | 1.9 | 2.5 | 1.9 | 2.3 |
| MAX. FUSE (Indoor unit) | | A | 15.0 | 15.0 | 15.0 | 15.0 |
| Indoor air flow (Hi/Mi/Lo) | | m3/h | 932/825/715 | 1290/1204/1017 | 1762/1559/1084 | 2300/1900/1700 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 548.24/485.29/420.59 | 758.82/708.24/598.24 | 1036.47/917.06/637.65 | 1352.94/1117.65/1000.00 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 45.5/43/39 | 51/47.5/42 | 51.5/48.0/40.5 | 55.0/49.5/44.5 |
| Indoor unit (WxDxH) | Dimension | inch | 42.05x26.57x9.25 | 42.05x26.57x9.25 | 50.59x26.57x9.25 | 64.96x26.57x9.25 |
| | Packing | inch | 45.08x29.72x12.52 | 45.08x29.72x12.52 | 53.54x29.72x12.32 | 67.91x29.72x12.32 |
| | Net/Gross weight | lbs. | 57.10/68.34 | 60.63/72.09 | 69.00/81.57 | 87.74/102.29 |
| Refrig. piping | Liquid/Gas side | inch | 1/4" / 1/2" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 5/8" |
| Connection wiring | | 16AWG*4 Stranded, unshielded | | | | |
| Communication protocol between IDU and ODU | | | Current loop | Current loop | RS485 | RS485 |
| Room temperature | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.



CPA SERIES

Hi-Heat High Wall Mount

| INDOOR MODEL | | | CPA-09B | CPA-12B | CPA-18B | CPA-24B | CPA-36DUB | CPA-48DUB | CPA-60DU |
|---|------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------------|----------------------------|-----------------------------|----------------------------|
| OUTDOOR MODEL | | | CHF09CD(O) | CHF12CD(O) | CHF18CD(O) | CHF24CD(O) | CHF36CD(O) | CHF48CD(O) | CHF60CD(O) |
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage | V | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity | BTUH | 9000(2400-12500) | 12000(2250-14400) | 16500(6500-18800) | 24000(6500-27800) | 36000(9769-12261) | 48000(10314-53156) | 55000(12000-59000) |
| | Input power | W | 643 | 923 | 1320 | 1920 | 3950 | 5770 | 5850(1200-6450) |
| | Current | A | 2.94 | 4.22 | 8.50 | 8.52 | 17.5 | 24.22 | 26(5-28.5) |
| | EER | Btu/w | 14 | 13 | 12.5 | 12.5 | 9.0 | 8.7 | 9.4 |
| | SEER2 | Btu/w | 23 | 21.5 | 19.6 | 20.6 | 17.5 | 16 | 15.8 |
| Heating at 47°F | Rated Capacity | BTUH | 10000 (1700-15600) | 12500 (1800-16300) | 19000 (8900-22000) | 25000 (12200-32200) | 42000 (12704-15355) | 52000 (11561-63678) | 57000 (12000-63600) |
| | Input power | W | 810 | 1000 | 1900 | 1920 | 3700 | 4610 | 4950(1600-5250) |
| | Rated current | A | 3.71 | 4.58 | 11.50 | 8.19 | 16.9 | 19.30 | 22.0(6.8-23) |
| | COP | W/W | 3.62 | 3.52 | 2.93 | 3.66 | 3.17 | 3.05 | 3.37 |
| | HSPF4 | Btu/w | 12 | 11.5 | 11.0 | 12.6 | 11.5 | 11.1 | 9.5 |
| | HSPF5 | Btu/w | 10 | 9.5 | 9.0 | 10.7 | 10 | 9.7 | 7.8 |
| Heating at 5°F | Capacity | BTUH | 9900 | 12400 | 17400 | 24600 | 36000 | 48000 | 53000 |
| | COP | W/W | 1.78 | 1.87 | 1.75 | 2.01 | 1.75 | 1.9 | 2 |
| Rated Input Current Power Conversion Equip. | A | 1.27 | 1.37 | 1.30 | 1.70 | 2.45 | 2.50 | 2.50 | |
| MIN. CIRCUIT AMPACITY (Indoor unit) | A | 3.0 | 3.0 | 3.0 | 3.0 | 15.0 | 5.0 | 5.00 | |
| MAX. FUSE (Indoor unit) | A | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | 15.00 | |
| Indoor air flow (Hi/Mi/Lo) | CFM | 352.94/282.35/ 176.47 | 352.94/282.35/ 176.47 | 529.41/450.00/ 370.59 | 775.47/693.06/ 434.88 | 1081.76/912.35/ 702.94 | 1228.41/1031.00/ 714.65 | 2155.88/1709.41/ 1261.76 | |
| Indoor noise (Hi/Mi/Lo) | dB(A) | 33/30.5/27 | 40/31.5/26.5 | 40/37.5/35 | 44/40/35.5 | 49.5/46.5/43.0 | 54.5/50.5/47.5 | 54/49.5/46 | |
| Eeternal Static Pressure (ESP) | Rated | Pa | 25 | 25 | 25 | 25 | 37 | 50 | 50 |
| | | In. wc. | 0.1 | 0.1 | 0.1 | 0.1 | 0.15 | 0.2 | 0.2 |
| | Range | Pa | 0-40 | 0-40 | 0-100 | 0-160 | 0-160 | 0-160 | 0-200 |
| | | In. wc. | 0-0.16 | 0-0.16 | 0-0.40 | 0-0.64 | 0-0.64 | 0-0.64 | 0-0.8 |
| Indoor unit (WxDxH) | Dimension | inch | 27.56x17.72x7.87 | 27.56x17.72x7.87 | 34.65x28.53x8.27 | 43x30x10 | 54x30x10 | 47.24x34.41x11.81 | — |
| | Packing | inch | 33.86x21.26x10.83 | 33.86x21.26x10.83 | 42.13x28.53x10.63 | 51x32x12 | 62x32x12 | 55.31x36.02x13.98 | — |
| | Net/Gross | lbs. | 37.5/48.3 | 37.5/48.3 | 54/66 | 87/103 | 106/122 | 120/142 | 174.60/200.40 |
| Refrig. piping | Liquid/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 7/8" |
| Connection wiring | 16AWG*4 Stranded, unshielded | | | | | | | | 14AWG*2 Stranded, shielded |
| Comm. protocol/IDU + ODU | Current loop | Current loop | Current loop | Current loop | RS485 | RS485 | RS485 | RS485 | |
| Thermostat type | Wireless Control | Optional | Optional | Optional | Optional | Optional | Optional | Optional | |
| | Wired Control | Standard | Standard | Standard | Standard | Standard | Standard | Standard | |
| | Program. wired Control | Optional | Optional | Optional | Optional | Optional | Optional | Optional | |
| | Wi-Fi | Optional | Optional | Optional | Optional | Optional | Optional | Optional | |
| Room temp. | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 | 60-90 | 60-90 | |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 | 32-86 | 32-86 | |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

CONTROLS



Part No. ARC-88B Wireless Remote Control

Allows control on Mini-Split, Cassette
Floor/Ceiling (standard)
Ducted is optional

FEATURES:

- Transmission Indicator
- Temp °C/°F and Timer display
- Fan speed display
- Silence display
- Sleep display
- Mode display
- ON/OFF display
- Lock display
- FOLLOW ME display



Part No. WiFi-US COOL LINK Wi-Fi Kit

- Allows you to connect to all CGS, CHF, TIP and T1W.



Part No. AWC-8P-LC-WiFi 12V, WiFi Program Wired Controller

FEATURES:





- ECO
- Turbo
- Sleep
- Timer/Weekly Timer
- Follow Me
- Clean Function
- 46 °F Heating
- Horizontal Swing
- Child Lock
- °C and °F Change
- Remote Control Compatible
- Engineering Mode available



Part No. AWC-4 Simple Wired Controller

FEATURES:

- Turbo
- Sleep
- Timer
- Follow Me
- Clean Function
- 46 °F Heating
- Horizontal Swing
- Vertical Swing
- Child Lock
- °C and °F Change
- Remote Control Compatible
- Engineering Mode available

| Remote # | ARC-88B | AWC-4 | AWC-8P-CGS* | AWC-8P-CHF** | AWC-8P-LC-WIFI | WiFi-US |
|--|---|---|-------------|---|----------------|---|
| CONTROLLER MATCH TABLE INDOOR UNIT MODELS |  |  | |  | |  |
| CGS | S | O | O | — | — | O |
| CHF | S | O | — | O | — | O |
| T1W | S | S | — | — | O | O |
| TPA | S | O | — | — | O | — |
| TIP | S | O | — | — | O | O |
| FPA | S | O | — | — | O | — |
| CPA | O | S | — | — | O | — |
| AHU-M | S | — | — | — | S | — |

S: Standard **O: Field Option** **—: Not Available**

*AWC-8P-CGS has all wire and adapter inside for CGS units. **AWC-8P-CHF has all wire and adapter inside for CHF units

ALEGRIA PLATINUM SERIES

FLEX-MOUNT MULTI-ZONE

- Up to 24.6 SEER2
- Single Zone Heat Pump
- -13°F Low Ambient Temperature
- WI-FI Compatible (optional)
- 7 YEAR Warranty Compressor
- 7 YEAR Warranty Parts

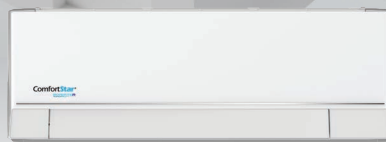
UP TO
24.6 SEER2
HIGH EFFICIENCY
Low Ambient
-13°F



TPA/TIP Series



CHF9-24K · CGS30-36k



T1W Series



FPA Series



CPA Series

AHU-M Series



**MIX AND MATCH EVAPORATOR
UNITS DEPENDING ON CAPACITY.**
Individual zoning for up to 5+ zones.



Light Commercial Condenser



Warranty Registration required except in California and Quebec, Canada.

ALEGRIA PLATINUM SERIES

FLEX-MOUNT MULTI-ZONE

FLEX-MOUNT MULTI-ZONE SELECTION CHART



| OUTDOOR UNIT | CGS | CHF | Cassette | 1 Way Cassette | Floor Ceiling | Ducted | AHU |
|--------------|--|--|--------------------------------------|----------------------------|------------------|--|--|
| CMZ-18-2Z | CGS09CD(I) CGS12CD(I) | CHF09CD(I) CHF12CD(I) | TPA-09 TPA-12 | TIW-09 TIW-12 | — | CPA-09B CPA-12B | — |
| CMZ-27-3Z | CGS09CD(I) CGS12CD(I) CGS18CD(I) CGS24CD(I) | CHF09CD(I) CHF12CD(I) CHF18CD(I) CHF24CD(I) | TPA-09 TPA-12 TPA-18 | TIW-09 TIW-12 TIW-18 | FPA-18 | CPA-09B CPA-12B CPA-18B | AHU18-M |
| CMZ-48-5Z | CGS09CD(I) CGS12CD(I) CGS18CD(I) CGS24CD(I) | CHF09CD(I) CHF12CD(I) CHF18CD(I) CHF24CD(I) | TPA-09 TPA-12 TPA-18 TPA-24 | TIW-09 TIW-12 TIW-18 | FPA-18 FPA-24 | CPA-09B CPA-12B CPA-18B CPA-24B | AHU18-M AHU24-M |
| CMZ-54-5Z | CGS09CD(I) CGS12CD(I) CGS18CD(I) CGS24CD(I) CGS30CD(I) CGS36CD(I) | CHF09CD(I) CHF12CD(I) CHF18CD(I) CHF24CD(I) | TPA-09 TPA-12 TPA-18 TPA-24 | TIW-09 TIW-12 TIW-18 | FPA-18 FPA-24 | CPA-09B CPA-12B CPA-18B CPA-24B | AHU18-M AHU24-M AHU30-M AHU36-M |
| CMZ-60-5Z | CGS09CD(I) CGS12CD(I) CGS18CD(I) CGS24CD(I) CGS30CD(I) CGS36CD(I) | CHF09CD(I) CHF12CD(I) CHF18CD(I) CHF24CD(I) | TPA-09 TPA-12 TPA-18 TPA-24 | TIW-09 TIW-12 TIW-18 | FPA-18 FPA-24 | CPA-09B CPA-12B CPA-18B CPA-24B | AHU18-M AHU24-M AHU30-M AHU36-M |

ALEGRIA PLATINUM SERIES

FLEX-MOUNT MULTI-ZONE

MORE THAN 246+ COMBINATIONS AVAILABLE

Connect up to 5 Zones with four different indoor units to choose from!

INDIVIDUAL ZONING FOR UP TO 5+ ZONES.

- Low Ambient (-13°F)
- Wi-Fi optional
- Bypass Mode
- Interactive display
- Self-Diagnosis
- 246+ Possible Combinations
- Connect up to 5 zones
- Individual Zone Control
- High Efficiency Inverter Technology
- Mix & Match 5+ Different Style Indoor Units.
- Available Indoor Units:
 - High Wall Mount
 - Cassette
 - Floor and 2 Indoor Ceiling
 - Fan Coil
 - AHU

2 3 4 5+

DUAL ZONE CMZ-18-2Z

Mix & Match
9,000-12,000 BTUH

TRI ZONE CMZ-27-3Z

Mix & Match
9,000-24,000 BTUH

QUAD ZONE CMZ-48-4Z

Mix & Match
9,000-24,000 BTUH

FIVE ZONE CMZ-54-5Z

Mix & Match
9,000-36,000 BTUH

FIVE ZONE CMZ-60-5Z

Mix & Match
9,000-36,000 BTUH



Heat Pump
INVERTER



COMBINATION TABLE

DUAL ZONE CONDENSER CMZ-18-2Z

| Two Units |
|-----------|
| 9+9 |
| 9+12 |
| 12+12 |

TRI ZONE CONDENSER CMZ-27-3Z

| Two Units | | Three Units | |
|-----------|-------|-------------|----------|
| 9+9 | 12+12 | 9+9+9 | 9+12+12 |
| 9+12 | 12+18 | 9+9+12 | 12+12+12 |
| 9+18 | 18+18 | 9+9+18 | |

QUAD ZONE CONDENSER CMZ-48-4Z

| Two Units | | Three Units | | | Four Units | |
|-----------|-------|-------------|---------|----------|------------|-------------|
| 9+18 | 12+24 | 9+9+9 | 9+12+12 | 12+12+12 | 9+9+9+9 | 9+9+12+18 |
| 9+24 | 18+18 | 9+9+12 | 9+12+18 | 12+12+18 | 9+9+9+12 | 9+12+12+12 |
| 12+12 | 18+24 | 9+9+18 | 9+12+24 | 12+12+24 | 9+9+9+18 | 12+12+12+12 |
| 12+18 | 24+24 | 9+9+24 | 9+18+18 | 12+18+18 | 9+9+12+12 | |

FIVE ZONE CONDENSER CMZ-54-5Z (Must always have installed a minimum of 2 Indoor Units)

| Two Units | | Three Units | | | Four Units | | | Five Units | |
|-----------|-------|-------------|----------|----------|------------|------------|-------------|-------------|----------------|
| 9+24 | 18+18 | 9+9+18 | 9+18+18 | 12+12+30 | 9+9+9+9 | 9+9+12+24 | 9+12+12+30 | 9+9+9+9+9 | 9+9+9+12+24 |
| 9+30 | 18+24 | 9+9+24 | 9+18+24 | 12+12+36 | 9+9+9+12 | 9+9+12+30 | 9+12+18+18 | 9+9+9+9+12 | 9+9+12+12+12 |
| 9+36 | 18+30 | 9+9+30 | 9+18+30 | 12+18+18 | 9+9+9+18 | 9+9+18+18 | 9+12+18+24 | 9+9+9+9+18 | 9+9+12+12+18 |
| 12+24 | 18+36 | 9+18+36 | 9+18+36 | 12+18+24 | 9+9+9+24 | 9+9+18+24 | 12+12+12+12 | 9+9+9+9+24 | 9+12+12+12+12 |
| 12+30 | 24+24 | 9+12+12 | 9+24+24 | 12+18+30 | 9+9+9+30 | 9+12+12+12 | 12+12+12+18 | 9+9+9+12+12 | 12+12+12+12+12 |
| 12+36 | 24+30 | 9+12+18 | 9+24+30 | 12+24+24 | 9+9+9+36 | 9+12+12+18 | 12+12+12+24 | 9+9+9+12+18 | |
| | 24+36 | 9+12+24 | 12+12+12 | 18+18+18 | 9+9+12+12 | 9+12+12+24 | 12+12+18+18 | | |
| | 30+30 | 9+12+30 | 12+12+18 | 18+18+24 | 9+9+12+18 | | | | |
| | | 9+12+36 | 12+12+24 | | | | | | |

FIVE ZONE CONDENSER CMZ-60-5Z (Must always have installed a minimum of 2 Indoor Units)

| Two Units | | Three Units | | | Four Units | | | Five Units | |
|-----------|-------|-------------|----------|----------|------------|-------------|-------------|--------------|----------------|
| 9+30 | 18+24 | 9+9+18 | 9+18+36 | 12+18+30 | 9+9+18+36 | 12+12+12+12 | 12+12+18+18 | 9+9+9+9+9 | 9+9+12+12+18 |
| 9+36 | 18+30 | 9+9+24 | 9+24+24 | 12+18+36 | 9+12+12+12 | 12+12+12+18 | 12+12+18+24 | 9+9+9+9+12 | 9+9+12+12+24 |
| 12+24 | 18+36 | 9+9+30 | 9+24+30 | 12+24+24 | 9+12+12+18 | 12+12+12+24 | 12+12+18+30 | 9+9+9+9+18 | 9+9+12+12+30 |
| 12+30 | 24+30 | 9+9+36 | 9+24+36 | 12+24+36 | 9+12+12+24 | 12+12+12+30 | 12+18+18+18 | 9+9+9+9+24 | 9+12+12+12+12 |
| 12+36 | 24+36 | 9+12+18 | 12+12+12 | 18+18+18 | 9+12+12+30 | 12+12+12+36 | 12+18+18+24 | 9+9+9+9+30 | 9+12+12+12+18 |
| 18+18 | 30+30 | 9+12+24 | 12+12+18 | 18+18+24 | 9+12+12+36 | 12+12+18+18 | 18+18+18+18 | 9+9+9+9+36 | 9+12+12+12+24 |
| | 30+36 | 9+12+30 | 12+12+24 | 18+18+30 | 9+12+18+18 | 12+12+18+24 | | 9+9+9+12+12 | 12+12+12+12+12 |
| | | 9+12+36 | 12+12+30 | 18+18+36 | 9+12+18+24 | 12+12+18+30 | | 9+9+9+12+18 | 12+12+12+12+18 |
| | | 9+18+18 | 12+12+36 | 18+24+24 | 9+12+18+30 | 12+12+18+36 | | 9+9+9+12+24 | 12+12+12+12+24 |
| | | 9+18+24 | 12+18+18 | 18+24+30 | | | | 9+9+9+12+30 | 12+12+12+18+18 |
| | | 9+18+30 | 12+18+24 | 24+24+24 | | | | 9+9+12+12+12 | |

When matching 30K/36K AHU models, additional 500g/17.64oz refrigerant is needed. CGS30CD(I), CGS36CD(I), AHU30-M & AHU36-M only. Other models do not apply.

If total indoor units load exceeds nominal capacity of outdoor unit, the practical output capacity of each indoor unit will be correspondingly attenuated. This situation is very evident during heating mode.

Rules: Outdoor unit Capacity *0.66<= Indoor unit total capacity <= Outdoor unit Capacity 1.33

FLEX-MOUNT MULTI-ZONE · TABLE OF EFFICIENCY · REGULAR MODELS

| Outdoor unit Model # | Non Ducted/Ducted | SEER2 | EER2 | HSPF2-4 | HSPF2-5 |
|----------------------|-------------------|-------|-------|---------|---------|
| CMZ-18-2Z | Non Ducted | 22.9 | 13.9 | 10.5 | 8 |
| | Ducted | 19 | 12 | 9.8 | 7.6 |
| | Mix | 20.95 | 12.95 | 10.15 | 7.8 |
| CMZ-27-3Z | Non Ducted | 24.6 | 12.7 | 9.3 | 7.1 |
| | Ducted | 21 | 11.5 | 9.2 | 7 |
| | Mix | 22.8 | 12.1 | 9.25 | 7.05 |
| CMZ-48-4Z | Non Ducted | 23.9 | 11.7 | 9.3 | 7.1 |
| | Ducted | 20 | 11.0 | 9.2 | 7 |
| | Mix | 21.95 | 11.35 | 9.25 | 7.05 |
| CMZ-54-5Z | Non Ducted | 23.4 | 12.5 | 8.7 | 6.8 |
| | Ducted | 20.5 | 10.8 | 9.7 | 7 |
| | Mix | 21.95 | 11.65 | 9.2 | 7 |
| CMZ-60-5Z | Non Ducted | 21.3 | 10.5 | 9.1 | 6.8 |
| | Ducted | 19 | 10.5 | 8.6 | 6 |
| | Mix | 20.15 | 10.5 | 8.85 | 6.6 |

ALEGRIA PLATINUM SERIES

FLEX-MOUNT MULTI-ZONE



CMZ SERIES

Flex-Mount Non-Ducted - Outdoor Models
Heat Pump 18,000 - 55,000 BTUH

| CAPACITY | | | 18K | 27K | 36K | 48K | 55K |
|--|---------------------------------|-----------|------------------------------|-------------------|---------------------|---------------------|---------------------|
| INDOOR UNIT TYPE | | | Non-ducted | Non-ducted | Non-ducted | Non-ducted | Non-ducted - EP |
| OUTDOOR UNIT MODEL | | | CMZ-18-2Z | CMZ-27-3Z | CMZ-48-4Z | CMZ-54-5Z | CMZ-60-5Z |
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 |
| | Capacity | BTUH | 18000(5650~22000) | 28000(9838~30438) | 36000(8209~40555) | 48000(19000~50000) | 55000(19000~57300) |
| Cooling | Input | W | 1355 | 2240 | 3125 | 3840 | 5238 |
| | Rated current | A | 6.2 | 11 | 13.6 | 16.8 | 23.5 |
| | EER2 | Btu/Btu | 13.9 | 12.7 | 11.7 | 12.5 | 10.5 |
| | SEER2 | | 22.9 | 24.6 | 23.9 | 23.4 | 21.3 |
| | Capacity | BTUH | 19000(5050~24400) | 28000(8218~31000) | 37000(8008~44632) | 48000(12500~52000) | 55000(12500~60000) |
| Heating at 47°F | Input | W | 1420 | 2200 | 3000 | 3910 | 5000 |
| | Rated current | A | 6.3 | 10.5 | 13.0 | 17.1 | 22.5 |
| | COP | W/W | 3.92 | 3.73 | 3.61 | 3.6 | 3.2 |
| | HSPF2-4 | | 10.5 | 9.3 | 9.3 | 8.7 | 9.1 |
| | HSPF2-5 | | 8.0 | 7.1 | 7.1 | 6.8 | 6.8 |
| Heating at 5°F (-15°C) | Rated capacity | BTUH | 12400 | 15500 | 23959 | 27000 | 33000.0 |
| | COP | W/W | 1.75 | 1.75 | 1.75 | 1.65 | 1.8 |
| MINIMUM CIRCUIT AMPACITY (outdoor unit) | | A | 18.0 | 24.5 | 25.0 | 40.0 | 40 |
| MAX. FUSE (outdoor unit) | | A | 25.0 | 30.0 | 40.0 | 60.0 | 60 |
| Outdoor air flow | | CFM | 1764.71 | 2129.41 | 2147.06 | 4500.00 | 4500 |
| Outdoor noise level | | dB(A) | 58.5 | 61 | 63 | 64 | 62 |
| Throttle type | | | Capillary +EXV | Capillary +EXV | Capillary +EXV | Capillary +EXV | Capillary +EXV |
| Outdoor unit | Dimension (W×D×H) | inch | 35.04x13.46x26.50 | 37.24x16.14x31.89 | 37.24x16.14x31.89 | 37.48x16.34x52.48 | 37.48x16.34x52.48 |
| | Packing (W×D×H) | inch | 39.17x15.67x29.13 | 42.91x19.69x34.84 | 42.91x19.69x34.84 | 43.11x19.49x58.27 | 43.11x19.49x58.27 |
| | Net/Gross weight | lbs. | 100.31/108.69 | 139.77/150.57 | 169.09/181.44 | 225.53/256.62 | 224.21/257.28 |
| Refrigerant | Type/Charged | oz | R410A/65.26 | R410A/91.7 | R410A/134.04 | R410A/162 | R410A/162.26ozs |
| Refrigerant precharge(Total pipe length) | | ft | 49 | 74 | 98 | 123 | 123 |
| Additional charge for each ft | Φ6.35 (1/4") liquid pipe | oz | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 |
| | Φ9.52 (3/8") liquid pipe | oz | 0.322 | 0.322 | 0.322 | 0.322 | 0.322 |
| Design pressure | | PSIG | 550/340 | 550/340 | 550/340 | 550/340 | 550/340 |
| Refrigerant piping | Liquid side | inch | 2 x 1/4" | 3 x 1/4" | 4 x 1/4" | 5 x 1/4" | 5 x 1/4" |
| | Gas side | inch | 2 x 3/8" | 3 x 3/8" | 3 x 3/8" + 1 x 1/2" | 3 x 3/8" + 2 x 1/2" | 3 x 3/8" + 2 x 1/2" |
| | Max. length for all rooms | ft | 131 | 197 | 262 | 262 | 262.46 |
| | Max. length for one indoor unit | ft | 82 | 98 | 115 | 115 | 114.83 |
| Max. height between in/outdoor unit | | ft | 49 | 49 | 49 | 49 | 49.21 |
| Max. height between indoor units | | ft | 33 | 33 | 33 | 33 | 33 |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | | | | |
| Communication protocol between IDU and ODU | | | Current loop | Current loop | Current loop | Current loop | Current loop |
| Ambient temperature | Cooling | °F | -13~122 | -13~122 | -13~122 | -13~122 | -13~122 |
| | Heating | °F | -13~86 | -13~86 | -13~86 | -13~86 | -13~75 |

For proper wiring sizes always refer to local codes.

ALEGRIA PLATINUM SERIES

FLEX-MOUNT MULTI-ZONE

CMZ SERIES

Flex-Mount Ducted - Outdoor Models
Heat Pump 19,000 - 55,000 BTUH



| CAPACITY | | | 18K | 27K | 36K | 48K | 55K |
|--|-------------------------------------|-----------|------------------------------|-------------------|---------------------|---------------------|---------------------|
| INDOOR UNIT TYPE | | | Ducted | Ducted | Ducted | Ducted | Ducted |
| OUTDOOR UNIT MODEL | | | CMZ-18-2Z | CMZ-27-3Z | CMZ-48-4Z | CMZ-54-5Z | CMZ-60-5Z |
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 |
| | Capacity | BTUH | 18000(3850~22400) | 28000(9277~30776) | 36000(8789~40288) | 48000(19400~51000) | 55000(19400~57100) |
| Cooling | Input | W | 1498 | 2485 | 3400 | 4850 | 5238 |
| | Rated current | A | 6.7 | 11.5 | 14.8 | 21.5 | 24 |
| | EER2 | Btu/Btu | 12.0 | 11.5 | 11.0 | 10.8 | 10.5 |
| | SEER2 | | 19.0 | 21.0 | 20.0 | 20.5 | 19.0 |
| | Capacity | BTUH | 19000(5050~24400) | 28000(8388~28869) | 37000(6900~46624) | 50000(15500~56000) | 55000(15500~61600) |
| Heating at 47°F | Input | W | 1465 | 2245 | 3012 | 4100 | 4783 |
| | Rated current | A | 6.5 | 10.5 | 13.0 | 18.2 | 22 |
| | COP | W/W | 3.8 | 3.66 | 3.60 | 3.57 | 3 |
| | HSPF2-4 | | 9.8 | 9.2 | 9.2 | 9.7 | 8.6 |
| | HSPF2-5 | | 7.6 | 7.0 | 7.0 | 7.2 | 6.4 |
| Heating at 5°F (-15°C) | Rated capacity | BTUH | 13000 | 15500 | 24000 | 29000 | 34600 |
| | COP | W/W | 1.75 | 1.6 | 1.68 | 1.70 | 2 |
| MINIMUM CIRCUIT AMPACITY (outdoor unit) | | A | 18.0 | 24.5 | 25.0 | 40.0 | 40.0 |
| MAX. FUSE (outdoor unit) | | A | 25.0 | 30.0 | 40.0 | 60.0 | 60.0 |
| Outdoor air flow | | CFM | 1764.71 | 2129.41 | 2147.06 | 4500.00 | 4500 |
| Outdoor noise level | | dB(A) | 58.5 | 61 | 63 | 64 | 62 |
| Throttle type | | | Capillary +EXV | Capillary +EXV | Capillary +EXV | Capillary +EXV | Capillary +EXV |
| Outdoor unit | Dimension (W×D×H) | inch | 35.04x13.46x26.50 | 37.24x16.14x31.89 | 37.24x16.14x31.89 | 37.48x16.34x52.48 | 37.48x16.34x52.48 |
| | Packing (W×D×H) | inch | 39.17x15.67x29.13 | 42.91x19.69x34.84 | 42.91x19.69x34.84 | 43.11x19.49x58.27 | 43.11x19.49x58.27 |
| | Net/Gross weight | lbs. | 100.31/108.69 | 139.77/150.57 | 169.09/181.44 | 225.53/256.62 | 224.21/257.28 |
| Refrigerant | Type/Charged | oz | R410A/65.26 | R410A/91.7 | R410A/134.04 | R410A/162 | R410A/162.26 |
| Refrigerant precharge(Total pipe length) | | ft | 49 | 74 | 98 | 123 | 123 |
| Additional charge for each ft | Φ6.35 (1/4") liquid pipe | oz | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 |
| | Φ9.52 (3/8") liquid pipe | oz | 0.322 | 0.322 | 0.322 | 0.322 | 0.322 |
| Design pressure | | PSIG | 550/340 | 550/340 | 550/340 | 550/340 | 550/340 |
| Liquid side | | inch | 2 x 1/4" | 3 x 1/4" | 4 x 1/4" | 5 x 1/4" | 5 x 1/4" |
| Gas side | | inch | 2 x 3/8" | 3 x 3/8" | 3 x 3/8" + 1 x 1/2" | 3 x 3/8" + 2 x 1/2" | 3 x 3/8" + 2 x 1/2" |
| Refrigerant piping | Max. length for all rooms | ft | 131 | 197 | 262 | 262 | 262.46 |
| | Max. length for one indoor unit | ft | 82 | 98 | 115 | 115 | 114.83 |
| | Max. height between in/outdoor unit | ft | 49 | 49 | 49 | 49 | 49.21 |
| | Max. height between indoor units | ft | 33 | 33 | 33 | 33 | 33 |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | | | | |
| Communication protocol between IDU and ODU | | | Current loop | Current loop | Current loop | Current loop | Current loop |
| Ambient temperature | Cooling | °F | -13~122 | -13~122 | -13~122 | -13~122 | -13~122 |
| | Heating | °F | -13~86 | -13~86 | -13~86 | -13~86 | -13~75 |

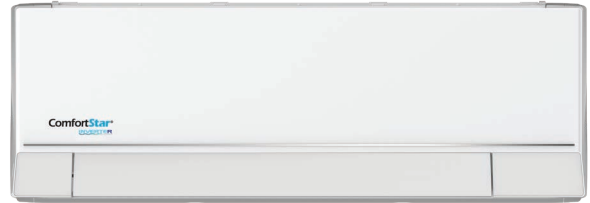
For proper wiring sizes always refer to local codes.

ALEGRIA PLATINUM SERIES

FLEX-MOUNT MULTI-ZONE

CHF & CGS SERIES

Flex-Mount Indoor High Wall
Heat Pump 10,000 - 36,000 BTUH



| INDOOR UNIT MODEL | | | CHF09CD(I) | CHF12CD(I) | CHF18CD(I) | CHF24CD(I) |
|--|-------------------------------|-----------|------------------------------|----------------------|----------------------|----------------------|
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 9000(2500-11900) | 12000(3600-13300) | 18000(2000-19300) | 24000(9200-26800) |
| Heating at 47°F | Rated Capacity (range) | BTUH | 10000(3400-13000) | 12000(4500-13500) | 19000(6200-21000) | 25000(10350-27000) |
| MINIMUM CIRCUIT AMPACITY (Indoor unit) | | A | 3.0 | 3.0 | 3.0 | 3.0 |
| MAX. FUSE (Indoor unit) | | A | 15.0 | 15.0 | 15.0 | 15.0 |
| Indoor air flow (100%-Hi/60%-Mi/40%-Lo) | | CFM | 335.29/229.41/176.47 | 335.29/229.41/176.47 | 523.53/376.47/305.88 | 611.18/414.12/318.82 |
| Indoor noise level (100%-Hi/60%-Mi/40%-Lo) | | dB(A) | 38/34/23 | 36/33.5/22.5 | 46.5/43/32.5 | 44/39.5/34 |
| Indoor unit | Dimension(W*D*H) | inch | 31.30x8.86x11.61 | 31.30x8.86x11.61 | 40.04x9.53x12.56 | 46.85x10.96x14.57 |
| | Packing (W*D*H) | inch | 34.25x14.57x12.01 | 34.25x14.57x12.01 | 43.11x15.75x12.91 | 50.39x17.91x14.17 |
| | Net/Gross weight | lbs. | 22.71/28.88 | 22.71/28.88 | 28.66/37.48 | 48.50/59.30 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | | | |
| Communication protocol between IDU and ODU | | | 16AWG*4 Stranded, unshielded | | | |
| Thermostat type | Wireless remote controller | | Standard | Standard | Standard | Standard |
| | Wired Controller | | Optional | Optional | Optional | Optional |
| | Programmable wired Controller | | Optional | Optional | Optional | Optional |
| | Wi-Fi | | Optional | Optional | Optional | Optional |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 |

| INDOOR UNIT MODEL | | | CGS09CD(I) | CGS12CD(I) | CGS18CD(I) | CGS24CD(I) | CGS30CD(I) | CGS36CD(I) |
|--|-------------------------------|-----------|------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 9000(2900-10500) | 12000(3800-13350) | 18000(3900-20000) | 24000(6200-24600) | 30000(7200-31600) | 36000(8300-37500) |
| Heating at 47°F | Rated Capacity (range) | BTUH | 10000(2400-10500) | 12000(2730-13900) | 18800(6300-19400) | 24000(6800-26800) | 30000(11700-32000) | 36000(10900-37360) |
| MIN. CIRCUIT AMPACITY (Indoor unit) | | A | 3.0 | 15 | 15 | 19 | 3.0 | 3.0 |
| MAX. FUSE (Indoor unit) | | A | 15 | 15 | 20 | 30 | 15.0 | 15.0 |
| Indoor air flow (100%-Hi/60%-Mi/40%-Lo) | | CFM | 246.47/176.47/141.18 | 291.18/197.06/155.88 | 458.82/329.41/270.59 | 546.47/402.35/330.59 | 701.76/535.88/380.00 | 652.94/447.06/329.41 |
| Indoor noise level (100%-Hi/60%-Mi/40%-Lo) | | dB(A) | 37/28/20 | 41/35/24 | 45/38/30.0 | 45/39.5/36 | 49.5/43.5/39.5 | 54/45/40 |
| Indoor unit | Dimension(W*D*H) | inch | 28.70x7.87x11.50 | 31.57x7.87x11.61 | 38.23x8.98x12.64 | 42.60x9.21x13.27 | 49.57x11.14x14.25 | 49.57x11.14x14.25 |
| | Packing (W*D*H) | inch | 31.10x10.63x14.76 | 34.45x11.22x14.96 | 41.14x12.01x15.94 | 45.47x16.34x12.40 | 52.76x17.72x15.16 | 52.76x17.72x15.16 |
| | Net/Gross weight | lbs. | 17.64/22.49 | 18.74/24.03 | 24.47/31.75 | 29.98/38.14 | 42.99/55.56 | 42.77/55.56 |
| Refrig. piping | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 5/8" |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | | | | | |
| Communication protocol between IDU and ODU | | | 16AWG*4 Stranded, unshielded | | | | | |
| Thermostat type | Wireless remote controller | | Standard | Standard | Standard | Standard | Standard | Standard |
| | Wired Controller | | Optional | Optional | Optional | Optional | Optional | Optional |
| | Programmable wired Controller | | Optional | Optional | Optional | Optional | Optional | Optional |
| | Wi-Fi | | Optional | Optional | Optional | Optional | Optional | Optional |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 | 32-86 | 32-86 |

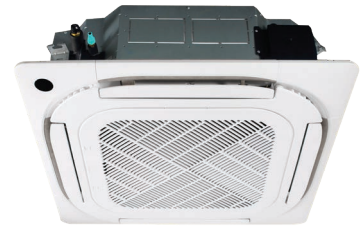
For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA PLATINUM SERIES

FLEX-MOUNT MULTI-ZONE

TPA & TIP SERIES

Flex-Mount Indoor Cassette Type · Heat Pump 10,000 - 25,000 BTUH



| INDOOR UNIT MODEL | | | TPA-09 | TPA-12 | TPA-18 | TIP-24 |
|--|-------------------------------|-----------|------------------------------|-------------------|----------------------|--------------------|
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 9000(2970-10500) | 12000(2800-14100) | 16000(5600-16000) | 24000(8130-26272) |
| Heating at 47 °F | Rated Capacity (range) | BTUH | 10000(2230-11650) | 12000(1950-14600) | 18500(7700-18500) | 25000(10650-30000) |
| MINIMUM CIRCUIT AMPACITY (Indoor unit) | | A | 3.0 | 3.0 | 1.9 | 2.5 |
| MAX. FUSE (Indoor unit) | | A | 15.0 | 15.0 | 15.0 | 15.0 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 352.94/305.88/270.59 | 379/309/261 | 562.35/485.29/438.82 | 706/635/547 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 39.5/36/32.5 | 40.5/35.5/31.5 | 43.5/38.5/35.5 | 49/46/43 |
| Indoor unit | Dimension (W×D×H) | inch | 22.44x22.44x10.24 | 22.44x22.44x10.24 | 22.44x22.44x10.24 | 32.68x32.68x8.07 |
| | Packing (W×D×H) | inch | 26.06x26.06x12.48 | 26.06x26.06x12.48 | 26.06x26.06x12.48 | 35.83x35.83x9.84 |
| | Net/Gross weight | lbs. | 31.97/38.14 | 35.27/41.01 | 35.71/46.96 | 47.18/55.34 |
| Panel | Dimension (W×D×H) | inch | 25.47x25.47x1.97 | 25.47x25.47x1.97 | 25.47x25.47x1.97 | 37.40x37.40x2.17 |
| | Packing (W×D×H) | inch | 28.15x28.15x4.84 | 28.15x28.15x4.84 | 28.15x28.15x4.84 | 40.75x40.75x3.54 |
| | Net/Gross weight | lbs. | 5.52/9.92 | 5.52/9.92 | 5.52/9.92 | 13.23/19.84 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" |
| Drainage water pipe diameter | | inch | 1 | 1 | 1 | 1 |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | | | |
| Communication protocol between IDU and ODU | | | Current loop | Current loop | Current loop | Current loop |
| Thermostat type | Wireless remote controller | | Standard | Standard | Standard | Standard |
| | Wired Controller | | Optional | Optional | Optional | Optional |
| | Programmable wired Controller | | Optional | Optional | Optional | Optional |
| | WiFi | | Optional | Optional | Optional | Optional |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 |

For proper wiring sizes always refer to local codes.
For standard and optional controls refer to page 38.



T1W SERIES

Flex-Mount Indoor Cassette Type · Heat Pump 11,000 - 19,000 BTUH

| INDOOR UNIT MODEL | | | T1W9P | T1W12P | T1W18P |
|----------------------------------|-------------------------|----------|----------------------|----------------------|----------------------|
| Power supply (indoor) | | V- Ph-Hz | 208/230V,1Ph 60Hz | 208/230V,1Ph 60Hz | 208/230V,1Ph 60Hz |
| Power supply | Voltage range | V | 187-253 | 187-253 | 187-253 |
| | Capacity (range) | BTUhr | 9000(4400-11200) | 12000(4000-13200) | 18000(3200-18100) |
| Cooling | Input | W | 692(320-980) | 952(160-1200) | 1440(415-1690) |
| Heating | Capacity (range) | BTUhr | 11000(3800-12400) | 12500(3700-12800) | 19000(5300-21500) |
| MINIMUM CIRCUIT AMPACITY(Indoor) | | A | 3 | 3 | 3 |
| MAX.FUSE(Indoor) | | A | 15 | 15 | 15 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 294.12/258.82/235.29 | 311.76/282.35/247.06 | 351.76/300.00/207.06 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 38/36/33 | 40.5/38.5/34.5 | 44/41/34 |
| Indoor unit | Dimension(W*D*H)(body) | inch | 50.31x13.19x8.98 | 50.31x13.19x8.98 | 50.31x13.19x8.98 |
| | Packing (W*D*H)(body) | inch | 57.60x22.48x22.64 | 57.60x22.48x22.64 | 57.60x22.48x22.64 |
| | Net/Gross weight (body) | lb | 43.87/81.35 | 45.19/82.89 | 45.19/82.89 |
| Drainage water pipe diameter | | inch | 1 | 1 | 1 |
| Design pressure | | PSIG | 550/340 | 550/340 | 550/340 |
| Refrigerant piping | Liquid side/ Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" |
| Thermostat type | | | Remote Control | Remote Control | Remote Control |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 |
| Connection wiring | | | 14*4 AWG | 14*4 AWG | 14*4 AWG |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA PLATINUM SERIES

FLEX-MOUNT MULTI-ZONE



FPA SERIES

Flex-Mount Indoor Floor/Ceiling · Heat Pump 20,000 - 24,000 BTUH

| INDOOR UNIT MODEL | | | FPA-18 | FPA-24 |
|--|---------------------------------|-----------|------------------------------|----------------------|
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 18000(6200-18000) | 24000(7700-25500) |
| Heating at 47°F | Rated Capacity (range) | BTUH | 20000(8100-20000) | 24000(11600-30900) |
| MINIMUM CIRCUIT AMPACITY (Indoor unit) | | A | 1.9 | 2.5 |
| MAX. FUSE (Indoor unit) | | A | 15.0 | 15.0 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 548.24/485.29/420.59 | 758.82/708.24/598.24 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 45.5/43/39 | 51/47/42 |
| Indoor unit | Dimension (WxDxH) | inch | 42.05x26.57x9.25 | 42.05x26.57x9.25 |
| | Packing (WxDxH) | inch | 45.08x29.72x12.52 | 45.08x29.72x12.52 |
| | Net/Gross weight | lbs. | 57.10/68.34 | 60.63/72.09 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 1/2" | 3/8" / 5/8" |
| Drainage water pipe diameter | | inch | 1 | 1 |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | |
| Communication protocol between IDU and ODU | | | Current loop | Current loop |
| Thermostat type | Wireless remote Control | | Standard | Standard |
| | Wired/ Programmable wired/Wi-Fi | | Optional | Optional |
| Operation temperature | Cooling | °F | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

CPA SERIES

Flex-Mount Ducted Indoor Fan Coil
Heat Pump 10,000 - 24,600 BTUH



| INDOOR UNIT MODEL | | | CPA-09B | CPA-12B | CPA-18B | CPA-24B |
|--|---------------------------------|-----------|------------------------------|----------------------|----------------------|----------------------|
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 9000(2220-11600) | 12000(2100-13450) | 18000(5800-18000) | 24000(6100-28200) |
| Heating at 47 °F | Rated Capacity (range) | BTUH | 10000(2240-13350) | 12000(1900-15000) | 20000(5000-20000) | 24600(11700-33000) |
| MINIMUM CIRCUIT AMPACITY (Indoor unit) | | A | 3.0 | 3.0 | 3.0 | 3.0 |
| MAX. FUSE (Indoor unit) | | A | 15.00 | 15.00 | 15.00 | 15.0 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 352.94/282.35/176.47 | 352.94/282.35/176.47 | 529.41/450.00/370.59 | 775.47/693.06/434.88 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 33.5/28.5/27 | 38/34.5/31 | 40/37.5/35 | 44/41/37 |
| Eeternal Static Pressure (ESP) | Rated | Pa | 25 | 25 | 25 | 25 |
| | | In. wc. | 0.1 | 0.1 | 0.1 | 0.1 |
| | Range | Pa | 0-40 | 0-40 | 0-100 | 0-160 |
| | | In. wc. | 0-0.16 | 0-0.16 | 0-0.40 | 0-0.64 |
| Indoor unit | Dimension (W×D×H) | inch | 27.56x17.72x7.87 | 27.56x17.72x7.87 | 34.65x28.53x8.27 | 43x30x10 |
| | Packing (W×D×H) | inch | 33.86x21.26x10.83 | 33.86x21.26x10.83 | 42.13x28.53x10.63 | 51x32x12 |
| | Net/Gross weight | lbs. | 37.5/48.3 | 37.5/48.3 | 54/66 | 87/103 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" |
| Drainage water pipe diameter | | inch | 1 | 1 | 1 | 1 |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | | | |
| Communication protocol between IDU and ODU | | | Current loop | Current loop | Current loop | Current loop |
| Thermostat type | Wired/ Programmable wired/Wi-Fi | | Optional | Optional | Optional | Optional |
| | Wired Controller | | Standard | Standard | Standard | Standard |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA PLATINUM SERIES

FLEX-MOUNT MULTI-ZONE

AHU SERIES

Flex-Mount Indoor/Outdoor Heat Pump · Heat Pump 18,000 - 36,000 BTUH

| INDOOR/OUTDOOR UNIT MODEL | | AHU18-M | AHU24-M | AHU30-M | AHU36-M |
|-----------------------------------|------------------------|--------------------------|----------------------|----------------------|-----------------------|
| Power supply | V- Ph-Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| Cooling | Rated Capacity (range) | BTUH 18000 (5300-18700) | 24000 (7400-26000) | 30000 (9400-33000) | 36000 (7600-38800) |
| Heating | Rated Capacity (range) | BTUH 18000 (5600-18700) | 26000 (5600-30000) | 31000 (12200-32000) | 36000 (6000-36400) |
| MINIMUM CIRCUIT AMPACITY (Indoor) | | A 3 | 4 | 4.5 | 4.5 |
| MAX.FUSE(Indoor) | | A 15 | 15 | 15 | 15 |
| Indoor fan motor | Model | ZKFD-250-8-1 | ZKFD-250-8-1 | ZKFD-375-8-1 | ZKFD-375-8-1 |
| | RLA | A 1 | 3 | 3.5 | 3.5 |
| Indoor air flow (Hi/Mi/Lo) | | m3/h 980/900/830 | 1290/1180/1070 | 1520/1370/1210 | 1840/1650/1470 |
| Indoor air flow (Hi/Mi/Lo) | | CFM 576.47/529.41/488.24 | 758.82/694.12/629.41 | 894.12/805.88/711.76 | 1082.35/970.59/864.71 |
| ESP | Range | Pa 0-200 | 0-200 | 0-200 | 0-200 |
| | Range | In. wg. 0-0.8 | 0-0.8 | 0-0.8 | 0-0.8 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) 36/34/32 | 43/40/35.5 | 43/40/30.5 | 46.8/44/41.3 |
| Refrig. piping | Liquid side/Gas side | inch 1/4" / 1/2" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 5/8" |
| | Throttle type | / NO | NO | NO | NO |
| Indoor Unit | Dimension(WxDxH) | inch 21*17-1/2*45 | 21*17-1/2*45 | 21.*21*49 | 21.*21*49 |
| | Packing (WxDxH) | inch 25.20x20.87x50.39 | 25.20x20.87x50.39 | 25.20x24.41x54.33 | 25.20x24.41x54.33 |
| | Net/Gross weight | lbs. 105.82/129.41 | 105.82/129.41 | 129.2/155.6 | 129.2/155.6 |



For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

CONTROLS



Part No. ARC-88B Wireless Remote Control

Allows control on Mini-Split, Cassette Floor/Ceiling (standard) Ducted is optional

FEATURES:

- Transmission Indicator
- Temp °C/°F and Timer display
- Fan speed display
- Silence display
- Sleep display
- Mode display
- ON/OFF display
- Lock display
- FOLLOW ME display



Part No. AWC-8P-LC-WiFi 12V, WiFi Program Wired Controller

FEATURES:

- ECO
- Turbo
- Sleep
- Timer/Weekly Timer
- °C and °F Change
- Remote Control Compatible
- Engineering Mode available
- Child Lock
- Follow Me
- Clean Function
- 46 °F Heating
- Horizontal Swing



Part No. AWC-4 Simple Wired Controller

FEATURES:

- Turbo
- Sleep
- Timer
- Follow Me
- Clean Function
- 46 °F Heating
- Horizontal Swing
- Vertical Swing
- Child Lock



Part No. WiFi-US COOL LINK Wi-Fi Kit

- Allows you to connect to all CGS, CHF, TIP and T1W.
- °C and °F Change
- Remote Control Compatible
- Engineering Mode available

ALEGRIA HI-HEAT SERIES

FLEX-MOUNT MULTI-ZONE SERIES

- Up to 22.5 SEER2
- Multi-Zones Heat pump
- -22°F Low Ambient Temperature
- Wi-Fi Compatible (Optional)
- 10 YEAR Warranty Compressor
- 10 YEAR Warranty Parts

UP TO
22.5 SEER2
HIGH EFFICIENCY
Low Ambient
-22°F



CHF Series

CHF 9-24K
CGS 9-36K



TPA/TIP Series



FPA Series



CPA Series



T1W Series

AHU Series



CVH SERIES | Multi-Zone Condensor



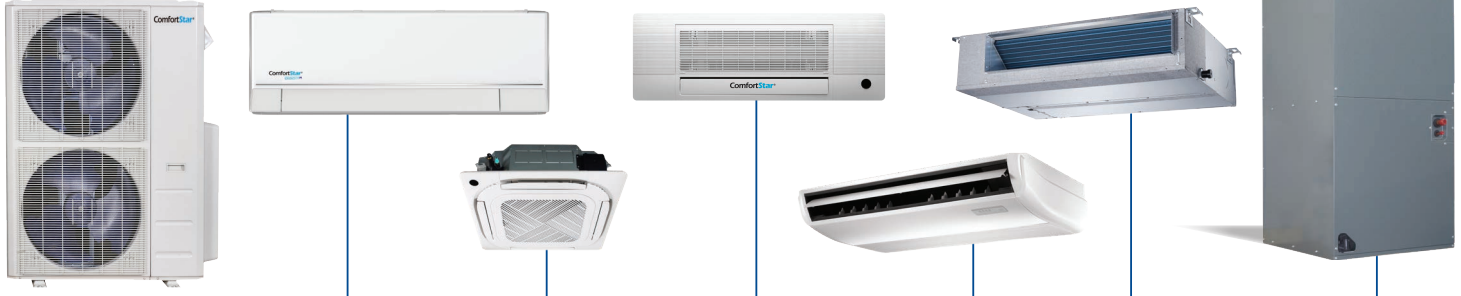
Warranty Registration required except in California and Quebec, Canada.



HI-HEAT · FLEX-MOUNT MULTI-ZONE



HI-HEAT FLEX-MOUNT MULTI-ZONE SELECTION CHART



| Outdoor Unit | CHF | Cassette | 1 Way Cassette | Floor Ceiling | Ducted | AHU |
|--------------|--|------------------------------------|------------------------|------------------|--|--|
| CVH-18-2SH | CHF09CD(I) · CHF12CD(I) | TPA-09 · TPA-12 | TIW09 · TIW12 | — | CPA-09B · CPA-12B | — |
| CVH-27-3SH | CHF09CD(I) · CHF12CD(I) CHF18CD(I) · CHF24CD(I) | TPA-09 · TPA-12 TPA-18 | TIW09 · TIW12 TIW18 | FPA-18 | CPA-09B · CPA-12B CPA-18B | AHU18-M |
| CVH-36-4SH | CHF09CD(I) · CHF12CD(I) CHF18CD(I) · CHF24CD(I) | TPA-09 · TPA-12 TPA-18 · TPA-24 | TIW09 · TIW12 TIW18 | FPA-18 FPA-24 | CPA-09B · CPA-12B CPA-18B · CPA-24B | AHU18-M AHU24-M |
| CVH-48-5SH | CHF09CD(I) · CHF12CD(I) CHF18CD(I) · CHF24CD(I) | TPA-09 · TPA-12 TPA-18 · TPA-24 | TIW09 · TIW12 TIW18 | FPA-18 FPA-24 | CPA-09B · CPA-12B CPA-18B · CPA-24B | AHU18-M · AHU24-M AHU30-M · AHU36-M |
| CVH-60-5SH | CHF09CD(I) · CHF12CD(I) CHF18CD(I) · CHF24CD(I) | TPA-09 · TPA-12 TPA-18 · TPA-24 | TIW09 · TIW12 TIW18 | FPA-18 FPA-24 | CPA-09B · CPA-12B CPA-18B · CPA-24B | AHU18-M · AHU24-M AHU30-M · AHU36-M |

DUAL ZONE CVH-18-2SH

Mix & Match
9,000-18,000 BTUH

TRI ZONE CVH-27-3SH

Mix & Match
9,000-24,000 BTUH

QUAD ZONE CVH-36-4SH

Mix & Match
9,000-30,000 BTUH

FIVE ZONE CVH-48-5SH

Mix & Match
9,000-36,000 BTUH

FIVE ZONE CVH-60-5SH

Mix & Match
9,000-36,000 BTUH



COMBINATION TABLE

DUAL ZONE CONDENSER CVH-18-2SH

| Two Units |
|-----------|
| 9+9 |
| 9+12 |
| 12+12 |

TRI ZONE CONDENSER CVH-27-3SH

| Two Units | | Three Units | |
|-----------|-------|-------------|----------|
| 9+9 | 12+12 | 9+9+9 | 9+12+12 |
| 9+12 | 12+18 | 9+9+12 | 12+12+12 |
| 9+18 | 12+24 | 9+9+18 | |
| 9+24 | 18+18 | | |

QUAD ZONE CONDENSER CVH-48-4SH

| Two Units | | Three Units | | | Four Units | |
|-----------|-------|-------------|---------|----------|------------|-------------|
| 9+18 | 12+24 | 9+9+9 | 9+12+12 | 12+12+12 | 9+9+9+9 | 9+9+12+18 |
| 9+24 | 12+30 | 9+9+12 | 9+12+18 | 12+12+18 | 9+9+9+12 | 9+12+12+12 |
| 9+30 | 18+18 | 9+9+18 | 9+12+24 | 12+12+24 | 9+9+9+18 | 12+12+12+12 |
| 12+12 | 18+24 | 9+9+24 | 9+18+18 | 12+18+18 | 9+9+12+12 | |
| 12+18 | 18+30 | 9+9+30 | | | | |
| | | | 24+24 | | | |

FIVE ZONE CONDENSER CVH-54-5SH (Must always have installed a minimum of 2 Indoor Units)

| Two Units | | Three Units | | | Four Units | | | Five Units | |
|-----------|-------|-------------|----------|----------|------------|------------|-------------|-------------|----------------|
| 9+24 | 18+18 | 9+9+18 | 9+18+18 | 12+12+30 | 9+9+9+9 | 9+9+12+24 | 9+12+12+30 | 9+9+9+9+9 | 9+9+9+12+24 |
| 9+30 | 18+24 | 9+9+24 | 9+18+24 | 12+12+36 | 9+9+9+12 | 9+9+12+30 | 9+12+18+18 | 9+9+9+9+12 | 9+9+12+12+12 |
| 9+36 | 18+30 | 9+9+30 | 9+18+30 | 12+18+18 | 9+9+9+18 | 9+9+18+18 | 9+12+18+24 | 9+9+9+9+18 | 9+9+12+12+18 |
| 12+24 | 18+36 | 9+9+36 | 9+18+36 | 12+18+24 | 9+9+9+24 | 9+9+18+24 | 12+12+12+12 | 9+9+9+9+24 | 9+12+12+12+12 |
| 12+30 | 24+24 | 9+12+12 | 9+24+24 | 12+18+30 | 9+9+9+30 | 9+12+12+12 | 12+12+12+18 | 9+9+9+12+12 | 12+12+12+12+12 |
| 12+36 | 24+30 | 9+12+18 | 9+24+30 | 12+24+24 | 9+9+9+36 | 9+12+12+18 | 12+12+12+24 | 9+9+9+12+18 | |
| | 24+36 | 9+12+24 | 12+12+12 | 18+18+18 | 9+9+12+12 | 9+12+12+24 | 12+12+18+18 | | |
| | 30+30 | 9+12+30 | 12+12+18 | 18+18+24 | 9+9+12+18 | | | | |
| | | 9+12+36 | 12+12+24 | | | | | | |

FIVE ZONE CONDENSER CVH-60-5SH (Must always have installed a minimum of 2 Indoor Units)

| Two Units | | Three Units | | | Four Units | | | Five Units | |
|-----------|-------|-------------|----------|----------|------------|------------|-------------|--------------|----------------|
| 9+30 | 18+24 | 9+9+18 | 9+18+36 | 12+18+30 | 9+9+9+9 | 9+9+18+30 | 9+12+18+24 | 9+9+9+9+9 | 9+9+12+12+18 |
| 9+36 | 18+30 | 9+9+24 | 9+24+24 | 12+18+36 | 9+9+9+12 | 9+9+18+36 | 9+12+18+30 | 9+9+9+9+12 | 9+9+12+12+24 |
| 12+24 | 18+36 | 9+9+30 | 9+24+30 | 12+24+24 | 9+9+9+18 | 9+12+12+12 | 12+12+12+12 | 9+9+9+9+18 | 9+9+12+12+30 |
| 12+30 | 24+30 | 9+9+36 | 9+24+36 | 12+24+30 | 9+9+9+24 | 9+12+12+18 | 12+12+12+18 | 9+9+9+9+24 | 9+12+12+12+12 |
| 12+36 | 24+36 | 9+12+18 | 12+12+12 | 12+24+36 | 9+9+9+30 | 9+12+12+24 | 12+12+12+24 | 9+9+9+9+30 | 9+12+12+12+18 |
| 18+18 | 30+30 | 9+12+24 | 12+12+18 | 18+18+18 | 9+9+9+36 | 9+12+12+30 | 12+12+12+30 | 9+9+9+9+36 | 9+12+12+12+24 |
| | 30+36 | 9+12+30 | 12+12+24 | 18+18+24 | 9+9+12+12 | 9+12+12+36 | 12+12+12+36 | 9+9+9+12+12 | 12+12+12+12+12 |
| | | 9+12+36 | 12+12+30 | 18+18+30 | 9+9+12+18 | 9+12+12+12 | 12+12+18+18 | 9+9+9+12+18 | 12+12+12+12+18 |
| | | 9+18+18 | 12+12+36 | 18+18+36 | 9+9+12+24 | 9+12+12+18 | 12+12+18+24 | 9+9+9+12+24 | 12+12+12+12+24 |
| | | 9+18+24 | 12+18+18 | 18+24+24 | 9+9+12+30 | 9+12+12+24 | 12+12+18+30 | 9+9+9+12+30 | 12+12+12+18+18 |
| | | 9+18+30 | 12+18+24 | 18+24+30 | 9+9+12+36 | 9+12+12+30 | 12+18+18+18 | 9+9+12+12+12 | |
| | | | | 24+24+24 | 9+9+18+18 | 9+12+12+36 | 12+18+18+24 | | |
| | | | | | 9+9+18+24 | 9+12+18+18 | 18+18+18+18 | | |

When matching 30K/36K AHU models, additional 500g/17.64oz refrigerant is needed. CGS30CD(I), CGS36CD(I), AHU30-M & AHU36-M only. Other models do not apply.

If total indoor units load exceeds nominal capacity of outdoor unit, the practical output capacity of each indoor unit will be correspondingly attenuated. This situation is very evident during heating mode.

Rules: Outdoor unit Capacity *0.66<= Indoor unit total capacity <= Outdoor unit Capacity 1.33

HI-HEAT FLEX-MOUNT MULTI-ZONE · TABLE OF EFFICIENCY · REGULAR MODELS

| Outdoor unit Model # | Non Ducted/Ducted | SEER2 | 10.5SEER2 | HSPF2-4 | HSPF2-5 |
|----------------------|-------------------|-------|-----------|---------|---------|
| CVH-18-2SH | Non Ducted | 22 | 12.5 | 9.8 | 7.7 |
| | Ducted | 19 | 12 | 9.3 | 7.5 |
| | Mix | 20.5 | 12.3 | 9.6 | 7.6 |
| CVH-27-3SH | Non Ducted | 23 | 12.5 | 10.6 | 8.1 |
| | Ducted | 20 | 11.7 | 9.5 | 7.5 |
| | Mix | 21.5 | 12.1 | 10.1 | 7.8 |
| CVH-36-4SH | Non Ducted | 22.2 | 13.6 | 10.3 | 8.3 |
| | Ducted | 19 | 11.3 | 10 | 8.1 |
| | Mix | 20.6 | 12.5 | 10.2 | 8.2 |
| CVH-48-5SH | Non Ducted | 21.8 | 11.7 | 9.8 | 7.6 |
| | Ducted | 20.9 | 11.7 | 8.9 | 7.4 |
| | Mix | 21.4 | 11.7 | 9.4 | 7.5 |
| CVH-60-5SH | Non Ducted | 22 | 10.5 | 9.3 | 7.3 |
| | Ducted | 18.8 | 10.5 | 9.3 | 7.3 |
| | Mix | 20.4 | 10.5 | 9.3 | 7.3 |

ALEGRIA HI-HEAT SERIES

HI-HEAT · FLEX-MOUNT MULTI-ZONE



CVH SERIES - HI-HEAT

Flex Mount Non-Ducted - Outdoor Models
Heat Pump 18,000 - 55,000 BTUH

| OUTDOOR UNIT MODEL | | | CVH-18-2SH | CVH-27-3SH | CVH-36-4SH | CVH-48-5SH | CVH-60-5SH |
|--|--------------------------------------|----------------|------------------------------|-------------------|---------------------|---------------------|------------------------------|
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230V, 1Ph, 60Hz |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 |
| | Capacity | BTUH | 19000(5500-25000) | 28000(7995-32826) | 36000(17900-42000) | 48000(19300-51000) | 55000(19000-58000) |
| Cooling | Input | W | 1520 | 2240 | 2650 | 4150 | 5238 |
| | Rated current | A | 9.1 | 12.4 | 11.8 | 18.0 | 23.5 |
| | EER2 | | 12.5 | 12.5 | 13.6 | 11.7 | 10.5 |
| | SEER2 | Btu/Btu | 22 | 23 | 22.2 | 21.8 | 22 |
| | Capacity | BTUH | 20000(8100-29700) | 28000(5035-38712) | 37000(12500-49000) | 49000(11500-58000) | 55000(12500-57900) |
| Heating at 47°F | Input | W | 1725 | 2240 | 2780 | 4000 | 5238 |
| | Rated current | A | 9.4 | 10.5 | 12.2 | 17.8 | 23.5 |
| | COP | W/W | 3.40 | 3.66 | 3.85 | 3.59 | 3.08 |
| | HSPF2.4 | | 9.8 | 10.6 | 10.3 | 9.8 | 9.3 |
| | HSPF2.5 | | 7.7 | 8.1 | 8.3 | 7.6 | 7.3 |
| Heating at 5°F | Rated capacity | BTUH | 19000 | 24000 | 36000 | 48000 | - |
| | COP | W/W | 1.96 | 1.75 | 1.9 | 2.0 | - |
| Rated Input Current of Power Conversion Equip (outdoor unit) | A | 18.0 | 20.0 | 26.0 | - | - | |
| MINIMUM CIRCUIT AMPACITY (outdoor unit) | A | 20.0 | 25.0 | 40.0 | 42.0 | 40 | |
| MAX. FUSE (outdoor unit) | A | 25.0 | 40.0 | 60.0 | 50.0 | 60 | |
| Outdoor air flow | CFM | 2129.41 | 2147.06 | 4500.00 | 4500.00 | 4500.00 | |
| Outdoor noise level | dB(A) | 61 | 63 | 63 | 65 | 63 | |
| Throttle type | | Capillary +EXV | Capillary +EXV | Capillary +EXV | Capillary +EXV | Capillary +EXV | |
| Outdoor unit | Dimension (WxDxH) | inch | 37.24x16.14x31.89 | 37.24x16.14x31.89 | 37.48x16.34x52.48 | 37.48x16.34x52.48 | 37.48x16.34x52.48 |
| | Packing (WxDxH) | inch | 42.91x19.69x34.84 | 42.91x19.69x34.84 | 43.11x19.49x58.27 | 43.11x19.49x58.27 | 43.11x19.49x58.27 |
| | Net/Gross weight | lbs. | 138.23/149.03 | 167.99/179.67 | 223.11/253.97 | 238.32/269.84 | 233.03/265.87 |
| Refrigerant | Type/Charged | oz | R410A/91.7 | R410A/134.04 | R410A/162 | R410A/162 | R410A/162.26ozs |
| Refrig. precharge (Total pipe length) | ft | 49 | 74 | 98 | 123 | 123 | |
| Additional charge for each ft | (1/4") liquid pipe | oz | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 |
| | (3/8") liquid pipe | oz | 0.322 | 0.322 | 0.322 | 0.322 | 0.322 |
| Design pressure | PSIG | 550/340 | 550/340 | 550/340 | 550/340 | 550/340 | |
| Refrigerant piping Max. Length Max. Height | Liquid side | inch | 2 x 1/4" | 3 x 1/4" | 4 x 1/4" | 5 x 1/4" | 5 x 1/4" |
| | Gas side | inch | 2 x 3/8" | 3 x 3/8" | 3 x 3/8" + 1 x 1/2" | 3 x 3/8" + 2 x 1/2" | 3 x 3/8" + 2 x 1/2" |
| | length for all rooms | ft | 131 | 197 | 262 | 262 | 262.46 |
| | length for one indoor unit | ft | 82 | 98 | 115 | 115 | 114.83 |
| | height diff. between in/outdoor unit | ft | 49 | 49 | 49 | 49 | 49.21 |
| height diff. between indoor units | ft | 33 | 33 | 33 | 33 | 33 | |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | | | | 14AWG*4 Stranded, unshielded |
| Communication protocol between IDU and ODU | | | Current loop | Current loop | Current loop | Current loop | Current loop |
| Outdoor amb. tempt. | Cooling | °F | -22-122 | -22-122 | -22-122 | -22-122 | -13-122 |
| | Heating | °F | -22-86 | -22-86 | -22-86 | -22-86 | -13-75 |

For proper wiring sizes always refer to local codes.



CVH SERIES - HI-HEAT

Flex Mount Ducted - Outdoor Models

Heat Pump 18,000 - 55,000 BTUH

| OUTDOOR UNIT MODEL | | | CVH-18-2SH | CVH-27-3SH | CVH-36-4SH | CVH-48-5SH | CVH-60-5SH |
|--|---------------------------------------|------------------------------|-------------------|-------------------|---------------------|---------------------|---------------------|
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Capacity | BTUH | 19000(5200-23000) | 28000(7683-33512) | 36000(17400-44000) | 47000(18500-51000) | 55000(19400-57100) |
| | Input | W | 1640 | 2435 | 3180 | 4200 | 5238 |
| | Rated current | A | 9.5 | 14.0 | 14.2 | 18.2 | 23.5 |
| | EER2 | Btu/Btu | 12 | 11.7 | 11.3 | 11.7 | 10.5 |
| | SEER2 | | 19 | 20.0 | 19.0 | 20.9 | 18.8 |
| | Heating at 47°F | Capacity | BTUH | 20000(6400-28000) | 28000(4508-38388) | 37000(13300-47000) | 49000(12000-59000) |
| Heating at 47°F | Input | W | 1600 | 2331 | 2900 | 3800 | 5000 |
| | Rated current | A | 9.0 | 11.0 | 12.9 | 17.2 | 22.5 |
| | COP | W/W | 3.48 | 3.52 | 3.74 | 3.86 | 3.22 |
| | HSPF2-4 | | 9.3 | 9.5 | 10 | 8.9 | 9.3 |
| | HSPF2-5 | | 7.5 | 7.5 | 8.1 | 7.4 | 7.3 |
| Heating at 5°F | Rated capacity | BTUH | 19000 | 24000 | 39000 | 48000 | - |
| | COP | W/W | 1.75 | 1.8 | 1.95 | 2.0 | - |
| Rated Input Current of Power Conversion Equip (outdoor unit) | A | 18.0 | 20.0 | 26.0 | - | - | |
| MINIMUM CIRCUIT AMPACITY (outdoor unit) | A | 20.0 | 25.0 | 40.0 | 42.0 | 40.0 | |
| MAX. FUSE (outdoor unit) | A | 25.0 | 40.0 | 60.0 | 50.0 | 60.0 | |
| Outdoor air flow | CFM | 2129.41 | 2147.06 | 4500.00 | 4500.00 | 4500.00 | |
| Outdoor noise level | dB(A) | 61 | 63 | 63 | 65 | 61 | |
| Throttle type | | Capillary +EXV | Capillary +EXV | Capillary +EXV | Capillary +EXV | Capillary +EXV | |
| Outdoor unit | Dimension (WxDxH) | inch | 37.24x16.14x31.89 | 37.24x16.14x31.89 | 37.48x16.34x52.48 | 37.48x16.34x52.48 | 37.48x16.34x52.48 |
| | Packing (WxDxH) | inch | 42.91x19.69x34.84 | 42.91x19.69x34.84 | 43.11x19.49x58.27 | 43.11x19.49x58.27 | 43.11x19.49x58.27 |
| | Net/Gross weight | lbs. | 138.23/149.03 | 167.99/179.67 | 223.11/253.97 | 238.32/269.84 | 238.32/269.84 |
| Refrigerant | Type/Charged | oz | R410A/91.7 | R410A/134.04 | R410A/162 | R410A/162 | R410A/162.26ozs |
| Refrig. precharge(Total pipe length) | ft | 49 | 74 | 98 | 123 | 123 | |
| Additional charge for each ft | (1/4") liquid pipe | oz | 0.161 | 0.161 | 0.161 | 0.161 | 0.161 |
| | (3/8") liquid pipe | oz | 0.322 | 0.322 | 0.322 | 0.322 | 0.322 |
| Design pressure | PSIG | 550/340 | 550/340 | 550/340 | 550/340 | 550/340 | |
| Refrigerant piping | Liquid side | inch | 2 x 1/4" | 3 x 1/4" | 4 x 1/4" | 5 x 1/4" | 5 x 1/4" |
| | Gas side | inch | 2 x 3/8" | 3 x 3/8" | 3 x 3/8" + 1 x 1/2" | 3 x 3/8" + 2 x 1/2" | 3 x 3/8" + 2 x 1/2" |
| | length for all rooms | ft | 131 | 197 | 262 | 262 | 262.46 |
| Max. Length Max. Height | length for one indoor unit | ft | 82 | 98 | 115 | 115 | 114.83 |
| | height diff. between in/ outdoor unit | ft | 49 | 49 | 49 | 49 | 49.21 |
| | height diff. between indoor units | ft | 33 | 33 | 33 | 33 | 33 |
| Connection wiring | | 16AWG*4 Stranded, unshielded | | | | | |
| Communication protocol between IDU and ODU | | Current loop | Current loop | Current loop | Current loop | Current loop | |
| Outdoor amb. temp. | Cooling | °F | -22-122 | -22-122 | -22-122 | -22-122 | -13-122 |
| | Heating | °F | -22-86 | -22-86 | -22-86 | -22-86 | -13-75 |

For proper wiring sizes always refer to local codes.

ALEGRIA HI-HEAT SERIES

HI-HEAT · FLEX-MOUNT MULTI-ZONE



CHF SERIES

Hi-Heat Flex-Mount Indoor High Wall

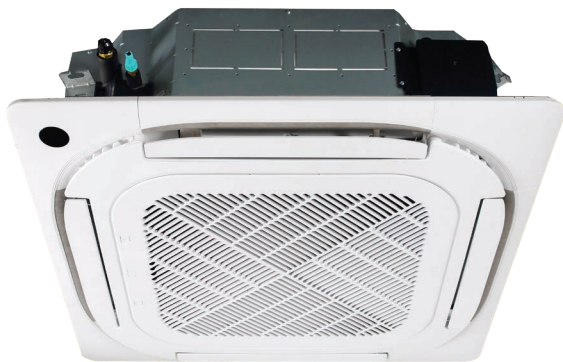


| INDOOR UNIT MODEL | | | CHF09CD(I) | CHF12CD(I) | CHF18CD(I) | CHF24CD(I) |
|--|-------------------------------|-----------|------------------------------|----------------------|----------------------|----------------------|
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 9000(2500-11900) | 12000(3600-13300) | 18000(2000-19300) | 24000(9200-26800) |
| Heating at 47 °F | Rated Capacity (range) | BTUH | 10000(3400-13000) | 12000(4500-13500) | 19000(6200-21000) | 25000(10350-27000) |
| MINIMUM CIRCUIT AMPACITY (Indoor unit) | | A | 3.0 | 3.0 | 3.0 | 3.0 |
| MAX. FUSE (Indoor unit) | | A | 15.0 | 15.0 | 15.0 | 15.0 |
| Indoor air flow (100%-Hi/60%-Mi/40%-Lo) | | CFM | 335.29/229.41/176.47 | 335.29/229.41/176.47 | 523.53/376.47/305.88 | 611.18/414.12/318.82 |
| Indoor noise level (100%-Hi/60%-Mi/40%-Lo) | | dB(A) | 38/34/23 | 36/33.5/22.5 | 46.5/43/32.5 | 44/39.5/34 |
| Indoor unit | Dimension(W*D*H) | inch | 31.30x8.86x11.61 | 31.30x8.86x11.61 | 40.04x9.53x12.56 | 46.85x10.96x14.57 |
| | Packing (W*D*H) | inch | 34.25x14.57x12.01 | 34.25x14.57x12.01 | 43.11x15.75x12.91 | 50.39x17.91x14.17 |
| | Net/Gross weight | lbs. | 22.71/28.88 | 22.71/28.88 | 28.66/37.48 | 48.50/59.30 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" |
| Connection wiring Communication protocol between IDU and ODU | | | 16AWG*4 Stranded, unshielded | | | |
| Thermostat type | Wireless remote controller | | Standard | Standard | Standard | Standard |
| | Wired Controller | | Optional | Optional | Optional | Optional |
| | Programmable wired Controller | | Optional | Optional | Optional | Optional |
| | Wi-Fi | | Optional | Optional | Optional | Optional |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA HI-HEAT SERIES

HI-HEAT · FLEX-MOUNT MULTI-ZONE



TPA & TIP SERIES

Hi-Heat Flex-Mount Indoor 4 Way Cassette
Heat Pump 9,000 - 24,000 BTUH



| INDOOR TYPE | | | Cassette | | | | |
|--|-----------------------------------|-----------|------------------------------|-------------------|----------------------|--------------------|------------------|
| INDOOR UNIT MODEL | | | TPA-09 | TPA-12 | TPA-18 | TIP-24 | |
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | |
| | Voltage range | | V | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 9000(2970-10500) | 12000(2800-14100) | 16000(5600-16000) | 24000(8130-26272) | |
| Heating at 47 °F | Rated Capacity (range) | BTUH | 10000(2230-11650) | 12000(1950-14600) | 18500(7700-18500) | 25000(10650-30000) | |
| MINIMUM CIRCUIT AMPACITY (Indoor unit) | | A | 3.0 | 3.0 | 1.9 | 2.5 | |
| MAX. FUSE (Indoor unit) | | A | 15.0 | 15.0 | 15.0 | 15.0 | |
| Indoor air flow (Hi/Mi/Lo) | | m3/h | 600/520/460 | 644/525/443 | 956/825/746 | 1200/1080/930 | |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 352.94/305.88/270.59 | 379/309/261 | 562.35/485.29/438.82 | 706/635/547 | |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 39.5/36/32.5 | 40.5/35.5/31.5 | 43.5/38.5/35.5 | 49/46/43 | |
| Indoor unit | Dimension (WxDxH) | | inch | 22.44x22.44x10.24 | 22.44x22.44x10.24 | 22.44x22.44x10.24 | 32.68x32.68x8.07 |
| | Packing (WxDxH) | | inch | 26.06x26.06x12.48 | 26.06x26.06x12.48 | 26.06x26.06x12.48 | 35.83x35.83x9.84 |
| | Net/Gross weight | | lbs. | 31.97/38.14 | 35.27/41.01 | 35.71/46.96 | 47.18/55.34 |
| Panel | Dimension (WxDxH) | | inch | 25.47x25.47x1.97 | 25.47x25.47x1.97 | 25.47x25.47x1.97 | 37.40x37.40x2.17 |
| | Packing (WxDxH) | | inch | 28.15x28.15x4.84 | 28.15x28.15x4.84 | 28.15x28.15x4.84 | 40.75x40.75x3.54 |
| | Net/Gross weight | | lbs. | 5.52/9.92 | 5.52/9.92 | 5.52/9.92 | 13.23/19.84 |
| Refrig. piping | Liquid side/Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" | |
| Drainage water pipe diameter | | inch | 1 | 1 | 1 | 1 | |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | | | | |
| Communication protocol between IDU and ODU | | | Current loop | Current loop | Current loop | Current loop | |
| Thermostat type | Wireless remote control | | Standard | Standard | Standard | Standard | |
| | Wired/Programmable Control, Wi-Fi | | Optional | Optional | Optional | Optional | |
| Room temperature | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 | |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 | |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA HI-HEAT SERIES

HI-HEAT · FLEX-MOUNT MULTI-ZONE

FPA SERIES

Hi-Heat Flex-Mount
Indoor Floor/Ceiling



| INDOOR UNIT MODEL | | | FPA-18 | FPA-24 |
|--|--------------------------|-----------|------------------------------|----------------------|
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 18000(6200-18000) | 24000(7700-25500) |
| Heating at 47°F | Rated Capacity (range) | BTUH | 20000(8100-20000) | 24000(11600-30900) |
| MINIMUM CIRCUIT AMPACITY (Indoor unit) | | A | 1.9 | 2.5 |
| MAX. FUSE (Indoor unit) | | A | 15.0 | 15.0 |
| Indoor air flow (Hi/Mi/Lo) | | m3/h | 932/825/715 | 1290/1204/1017 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 548.24/485.29/420.59 | 758.82/708.24/598.24 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 45.5/43/39 | 51/47/42 |
| Indoor unit | Dimension (WxDxH) | inch | 42.05x26.57x9.25 | 42.05x26.57x9.25 |
| | Packing (WxDxH) | inch | 45.08x29.72x12.52 | 45.08x29.72x12.52 |
| | Net/Gross weight | lbs. | 57.10/68.34 | 60.63/72.09 |
| Refrigerant piping | Liquid side/Gas side | inch | 1/4" / 1/2" | 3/8" / 5/8" |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | |
| Thermostat type | Wireless remote control | | Standard | Standard |
| | Wired/Programmable wired | | Optional | Optional |
| | Wi-Fi | | Optional | Optional |
| Room Temp. | Cooling | °F | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 |

For proper wiring sizes always refer to local codes.
For standard and optional controls refer to page 38.



CPA SERIES

Hi-Heat Flex-Mount Indoor Fan Coil

| INDOOR TYPE | | | Ducted | | | |
|--|-------------------------|-----------|------------------------------|----------------------|----------------------|----------------------|
| INDOOR UNIT MODEL | | | CPA-09B | CPA-12B | CPA-18B | CPA-24B |
| Power supply | Rated | V, Ph, Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| | Voltage range | V | 187-253 | 187-253 | 187-253 | 187-253 |
| Cooling | Rated Capacity (range) | BTUH | 9000(2220-11600) | 12000(2100-13450) | 18000(5800-18000) | 24000(6100-28200) |
| Heating at 47°F | Rated Capacity (range) | BTUH | 10000(2240-13350) | 12000(1900-15000) | 20000(5000-20000) | 24600(11700-33000) |
| MINIMUM CIRCUIT AMPACITY (Indoor unit) | | A | 3.0 | 3.0 | 3.0 | 3.0 |
| Indoor air flow (Hi/Mi/Lo) | | m3/h | 600/480/300 | 600/480/300 | 900/765/630 | 1318.3/1178.2/739.3 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 352.94/282.35/176.47 | 352.94/282.35/176.47 | 529.41/450.00/370.59 | 775.47/693.06/434.88 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 33.5/28.5/27 | 38/34.5/31 | 40/37.5/35 | 44/41/37 |
| Eeternal Static Pressure (ESP) | Rated | Pa | 25 | 25 | 25 | 25 |
| | | In. wc. | 0.1 | 0.1 | 0.1 | 0.1 |
| | Range | Pa | 0-40 | 0-40 | 0-100 | 0-160 |
| | | In. wc. | 0-0.16 | 0-0.16 | 0-0.40 | 0-0.64 |
| Indoor Unit | Dimension (WxDxH) | inch | 27.56x17.72x7.87 | 27.56x17.72x7.87 | 34.65x28.53x8.27 | 43x30x10 |
| | Packing (WxDxH) | inch | 33.86x21.26x10.83 | 33.86x21.26x10.83 | 42.13x28.53x10.63 | 51x32x12 |
| | Net/Gross Weight | lbs. | 37.5/48.3 | 37.5/48.3 | 54/66 | 87/103 |
| Refrig. Pipping | Liquid Gas Side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" | 3/8" / 5/8" |
| Connection wiring | | | 16AWG*4 Stranded, unshielded | | | |
| Thermostat type | Wireless Remote Control | | Optional | Optional | Optional | Optional |
| | Wired Control | | Standard | Standard | Standard | Standard |
| | Wi-Fi | | Optional | Optional | Optional | Optional |
| Room Temp. | Cooling | °F | 60-90 | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 | 32-86 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

ALEGRIA HI-HEAT SERIES

HI-HEAT · FLEX-MOUNT MULTI-ZONE



T1W SERIES

Flex-Mount Indoor 1 Way Cassette
Heat Pump 11,000 - 19,000 BTUH



| INDOOR UNIT MODEL | | | T1W9P | T1W12P | T1W18P |
|----------------------------------|-----------------------|-------|----------------------|----------------------|----------------------|
| Power supply (indoor) | V- Ph-Hz | | 208/230V,1Ph 60Hz | 208/230V,1Ph 60Hz | 208/230V,1Ph 60Hz |
| Power supply | Voltage range | V | 187-253 | 187-253 | 187-253 |
| Cooling | Capacity (range) | BTUhr | 9000(4400-11200) | 12000(4000-13200) | 18000(3200-18100) |
| | Input | W | 692(320-980) | 952(160-1200) | 1440(415-1690) |
| Heating | Capacity (range) | BTUhr | 11000(3800-12400) | 12500(3700-12800) | 19000(5300-21500) |
| MINIMUM CIRCUIT AMPACITY(Indoor) | | A | 3 | 3 | 3 |
| MAX.FUSE(Indoor) | | A | 15 | 15 | 15 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 294.12/258.82/235.29 | 311.76/282.35/247.06 | 351.76/300.00/207.06 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 38/36/33 | 40.5/38.5/34.5 | 44/41/34 |
| Indoor unit (body) | Dimension(W*D*H) | inch | 50.31x13.19x8.98 | 50.31x13.19x8.98 | 50.31x13.19x8.98 |
| | Packing (W*D*H) | inch | 57.60x22.48x22.64 | 57.60x22.48x22.64 | 57.60x22.48x22.64 |
| | Net/Gross weight | lb | 43.87/81.35 | 45.19/82.89 | 45.19/82.89 |
| Drainage water pipe diameter | | inch | 1 | 1 | 1 |
| Design pressure | | PSIG | 550/340 | 550/340 | 550/340 |
| Refrigerant piping | Liquid side/ Gas side | inch | 1/4" / 3/8" | 1/4" / 1/2" | 1/4" / 1/2" |
| Thermostat type | | | Remote Control | Remote Control | Remote Control |
| Operation temperature | Cooling | °F | 60-90 | 60-90 | 60-90 |
| | Heating | °F | 32-86 | 32-86 | 32-86 |
| Connection wiring | | | 14*4 AWG | 14*4 AWG | 14*4 AWG |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.



AHU SERIES

Hi-Heat Flex-Mount
Indoor/Outdoor Heat Pump



| AHU MODEL | | | AHU18-M | AHU24-M | AHU30-M | AHU36-M |
|-----------------------------------|------------------------|----------|----------------------|----------------------|----------------------|-----------------------|
| Power supply | | V- Ph-Hz | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 | 208/230, 1, 60 |
| Cooling | Rated Capacity (range) | BTUH | 18000 (5300-18700) | 24000 (7400-26000) | 30000 (9400-33000) | 36000 (7600-38800) |
| | Rated Capacity (range) | BTUH | 18000 (5600-18700) | 26000 (5600-30000) | 31000 (12200-32000) | 36000 (6000-36400) |
| MINIMUM CIRCUIT AMPACITY (Indoor) | | A | 3 | 4 | 4.5 | 4.5 |
| MAX.FUSE(Indoor) | | A | 15 | 15 | 15 | 15 |
| Indoor fan motor | Model | | ZKFD-250-8-1 | ZKFD-250-8-1 | ZKFD-375-8-1 | ZKFD-375-8-1 |
| | RLA | A | 1 | 3 | 3.5 | 3.5 |
| Indoor air flow (Hi/Mi/Lo) | | m3/h | 980/900/830 | 1290/1180/1070 | 1520/1370/1210 | 1840/1650/1470 |
| Indoor air flow (Hi/Mi/Lo) | | CFM | 576.47/529.41/488.24 | 758.82/694.12/629.41 | 894.12/805.88/711.76 | 1082.35/970.59/864.71 |
| ESP | Range | Pa | 0-200 | 0-200 | 0-200 | 0-200 |
| | Range | In. wg. | 0-0.8 | 0-0.8 | 0-0.8 | 0-0.8 |
| Indoor noise level (Hi/Mi/Lo) | | dB(A) | 36/34/32 | 43/40/35.5 | 43/40/30.5 | 46.8/44/41.3 |
| Refrig. piping | Liquid side/Gas side | inch | 1/4" / 1/2" | 3/8" / 5/8" | 3/8" / 5/8" | 3/8" / 5/8" |
| Throttle type | | / | NO | NO | NO | NO |
| Indoor Unit | Dimension(WxDxH) | inch | 21*17-1/2*45 | 21*17-1/2*45 | 21.*21*49 | 21.*21*49 |
| | Packing (WxDxH) | inch | 25.20x20.87x50.39 | 25.20x20.87x50.39 | 25.20x24.41x54.33 | 25.20x24.41x54.33 |
| | Net/Gross weight | lbs. | 105.82/129.41 | 105.82/129.41 | 129.2/155.6 | 129.2/155.6 |

For proper wiring sizes always refer to local codes. For standard and optional controls refer to page 38.

Specs at a Glance

CGS - HI WALL MODEL ENTRY

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Min. Power Supply Wire Size (AWG) | Min. Inter-Connecting Wire Size (AWG) | Breaker Size (A) | Piping Sizes (in) | Max. Allowable Piping Length (ft) | Minimum Piping Lengths (ft) | Max. Allowable Elevation Difference (ft) |
|------------------------------|-------------------------------|-----------------------------------|---------------------------------------|------------------|-------------------|-----------------------------------|-----------------------------|--|
| CGS09CA(I) | CGS09CA(O) | 12*3 | 16*4, Stranded | 20 | 1/4", /3/8" | 82 | 12 | 33 |
| CGS12CA(I) | CGS12CA(O) | 12*3 | 16*4, Stranded | 20 | 1/4", /1/2" | 82 | 12 | 33 |
| CGS09CD(I) | CGS09CD(O) | 12*3 | 16*4, Stranded | 15 | 1/4", /3/8" | 82 | 12 | 33 |
| CGS12CD(I) | CGS12CD(O) | 12*3 | 16*4, Stranded | 15 | 1/4", /1/2" | 82 | 12 | 33 |
| CGS18CD(I) | CGS18CD(O) | 12*3 | 16*4, Stranded | 20 | 1/4", /1/2" | 98 | 12 | 66 |
| CGS24CD(I) | CGS24CD(O) | 12*3 | 16*4, Stranded | 25 | 3/8", /5/8" | 164 | 12 | 82 |
| CGS30CD(I) | CGS30CD(O) | 12*3 | 16*4, Stranded | 30 | 3/8", /5/8" | 164 | 12 | 82 |
| CGS36CD(I) | CGS36CD(O) | 12*3 | 16*4, Stranded | 35 | 3/8", /5/8" | 213 | 12 | 98 |

CHF - SINGLE ZONE WALL MOUNTED - ENERGY STAR

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Min. Power Supply Wire Size (AWG) | Min. Inter-Connecting Wire Size (AWG) | Breaker Size (A) | Piping Sizes (in) | Max. Allowable Piping Length (ft) | Minimum Piping Lengths (ft) | Max. Allowable Elevation Difference (ft) |
|------------------------------|-------------------------------|-----------------------------------|---------------------------------------|------------------|-------------------|-----------------------------------|-----------------------------|--|
| CHF12CA(I) | CZP12CA(O) | 12*3 | 16*4, Stranded | 20 | 1/4", 1/2" | 82 | 12 | 33 |
| CHF09CD(I) | CZP09CD(O) | 12*3 | 16*4, Stranded | 15 | 1/4", 3/8" | 82 | 12 | 33 |
| CHF12CD(I) | CZP12CD(O) | 12*3 | 16*4, Stranded | 15 | 1/4", 1/2" | 82 | 12 | 33 |
| CHF18CD(I) | CZP18CD(O) | 12*3 | 16*4, Stranded | 20 | 1/4", 1/2" | 98 | 12 | 66 |
| CHF24CD(I) | CZP24CD(O) | 12*3 | 16*4, Stranded | 25 | 3/8", 5/8" | 164 | 12 | 82 |

MULTI-ZONE

| ComfortStar Indoor unit Model No. | ComfortStar Outdoor unit Model No. | Min. Power Supply Wire Size (AWG) | Min. Inter-Connecting Wire Size (AWG) | Breaker Size (A) | Piping Sizes (in) | Max. Allowable Piping Length (ft) | Min. Allow. Piping Length (ft) | Max. Allowable Elevation Difference (ft) |
|--|------------------------------------|-----------------------------------|---------------------------------------|------------------|---------------------------------|-----------------------------------|--------------------------------|---|
| 9-24K: CHF, FPA, TPA, CPA, 18-36K: AHU | CMZ-18-2Z | 12*3 | 16*4, Stranded | 25.0 | (1/4"/3/8")*2 | 66 for 1 IDU 98 for sum up | 9 | 1) 33 for ODU higher than IDU 2) 49 for ODU lower than IDU 3) 33 between IDU and IDU" |
| | CMZ-27-3Z | 12*3 | 16*4, Stranded | 35.0 | (1/4"/3/8")*3 | 82 for 1 IDU for 148 sum up | 9 | |
| | CMZ-48-4Z | 10*3 | 16*4, Stranded | 45.0 | (1/4"/3/8")*3 & (1/4"/1/2")*1 | 98 for 1 IDU 197 for sum up | 9 | |
| | CMZ-48-4Z | 10*3 | 16*4, Stranded | 45.0 | (1/4"/3/8")*3 & (1/4"/1/2")*1 | 98 for 1 IDU 197 for sum up | 9 | |
| | CMZ-54-5Z | 10*3 | 16*4, Stranded | 50.0 | (1/4"/3/8")*3 & (1/4"/1/2")*2 | 98 for 1 IDU 246 for sum up | 9 | |
| | CMZ-60-5Z | 10*3 | 16*4, Stranded | 50.0 | (1/4"/3/8")*3 & (1/4"/1/2")*2 | 98 for 1 IDU 246 for sum up | 9 | |
| | CVH-18-2SH | 12*3 | 16*4, Stranded | 35.0 | (1/4"/3/8")*2 | 82 for 1 IDU or 148 sum up | 9 | |
| | CVH-27-3SH | 10*3 | 16*4, Stranded | 45.0 | (1/4"/3/8")*2 & (1/4"/1/2")*1 | 98 for 1 IDU 197 for sum up | 9 | |
| | CVH-27-3SH | 10*3 | 16*4, Stranded | 45.0 | (1/4"/3/8")*2 & (1/4"/1/2")*1 | 98 for 1 IDU 197 for sum up | 9 | |
| | CVH-36-4SH | 10*3 | 16*4, Stranded | 50.0 | (1/4"/3/8")*2 & (1/4"/1/2")*2 | 98 for 1 IDU 246 for sum up | 9 | |
| | CVH-48-5SH | 10*3 | 16*4, Stranded | 50.0 | (1/4", 3/8")*3 + (1/4", 1/2")*2 | 98 for 1 IDU 246 for sum up | 9 | |
| | CVH-60-5SH | 10*3 | 16*4, Stranded | 50.0 | (1/4", 3/8")*3 + (1/4", 1/2")*2 | 98 for 1 IDU 246 for sum up | 9 | |

Specs at a Glance

CGS - HI WALL MODEL ENTRY

| ComfortStar Indoor unit Model No. | ComfortStar Outdoor unit Model No. | Factory Refrigerant Charge (ft) | Refrigerant Adjustment Factor (oz. per ft) | Drain Pipe Size(in) | SEER2 | EER2 | HSPF2-4 | HSPF2-5 |
|-----------------------------------|------------------------------------|---------------------------------|--|---------------------|-------|------|---------|---------|
| CGS09CA(I) | CGS09CA(O) | 25 | 0.16 | 3/4" | 21.5 | 12.5 | 9.1 | 7.0 |
| CGS12CA(I) | CGS12CA(O) | 25 | 0.16 | 3/4" | 20.8 | 10.3 | 8.7 | 6.5 |
| CGS09CD(I) | CGS09CD(O) | 25 | 0.16 | 3/4" | 21.7 | 12.6 | 9.4 | 7.2 |
| CGS12CD(I) | CGS12CD(O) | 25 | 0.16 | 3/4" | 21.4 | 10.8 | 9.2 | 6.9 |
| CGS18CD(I) | CGS18CD(O) | 25 | 0.16 | 3/4" | 19.5 | 11 | 8.7 | 6.8 |
| CGS24CD(I) | CGS24CD(O) | 25 | 0.32 | 3/4" | 18.5 | 9.5 | 8.6 | 6.6 |
| CGS30CD(I) | CGS30CD(O) | 25 | 0.32 | 3/4" | 20 | 12.2 | 8.2 | 6.1 |
| CGS36CD(I) | CGS36CD(O) | 25 | 0.32 | 3/4" | 18 | 9.5 | 7.8 | 6 |

CHF - SINGLE ZONE WALL MOUNTED - ENERGY STAR

| ComfortStar Indoor unit Model No. | ComfortStar Outdoor unit Model No. | Factory Refrigerant Charge (ft) | Refrigerant Adjustment Factor (oz. per ft) | Drain Pipe Size(in) | SEER2 | EER2 | HSPF2-4 | HSPF2-5 |
|-----------------------------------|------------------------------------|---------------------------------|--|---------------------|-------|------|---------|---------|
| CHF12CA(I) | CZP12CA(O) | 25 | 0.16 | 3/4" | 23.5 | 13 | 9.9 | 7.4 |
| CHF09CD(I) | CZP09CD(O) | 25 | 0.16 | 3/4" | 25.5 | 15 | 11.7 | 8.7 |
| CHF12CD(I) | CZP12CD(O) | 25 | 0.16 | 3/4" | 24.6 | 13.7 | 10.7 | 8.1 |
| CHF18CD(I) | CZP18CD(O) | 25 | 0.16 | 3/4" | 23.5 | 12.5 | 9.4 | 7 |
| CHF24CD(I) | CZP24CD(O) | 25 | 0.32 | 3/4" | 22 | 14 | 9.2 | 6.5 |

MULTI-ZONE

| ComfortStar Indoor unit Model No. | ComfortStar Outdoor unit Model No. | Factory Refrigerant Charge (ft) | Refrigerant Adjustment Factor (oz. per ft) | Drain Pipe Size(in) | SEER2 (non ducted) | EER2 (non ducted) | HSPF2-4 (non ducted) | HSPF2-5 (non ducted) | SEER2 (ducted) | EER2 (ducted) | HSPF2-4 (ducted) | HSPF2-5 (ducted) |
|---------------------------------------|------------------------------------|---------------------------------|--|---------------------|--------------------|-------------------|----------------------|----------------------|----------------|---------------|------------------|------------------|
| 9-24K: CHF, FPA, TPA, CPA, 18-36K:AHU | CMZ-18-2Z | 25*2 | 0.16 | refer IDU | 22.9 | 13.9 | 10.5 | 8.0 | 19.0 | 12.0 | 9.8 | 7.6 |
| | CMZ-27-3Z | 25*3 | 0.16 | refer IDU | 24.6 | 12.7 | 9.3 | 7.1 | 21 | 11.5 | 9.2 | 7.0 |
| | CMZ-48-4Z | 25*4 | 0.16 | refer IDU | 26.0 | 13.0 | 9.8 | 7.8 | 20.0 | 12.0 | 9.2 | 7.2 |
| | CMZ-48-4Z | 25*4 | 0.16 | refer IDU | 23.9 | 11.7 | 9.3 | 7.1 | 20.0 | 11.0 | 9.2 | 7.0 |
| | CMZ-54-5Z | 25*5 | 0.16 | refer IDU | 23.4 | 12.5 | 8.7 | 6.8 | 20.5 | 10.8 | 9.7 | 7.2 |
| | CMZ-60-5Z | 25*5 | 0.16 | refer IDU | 21.3 | 10.5 | 9.1 | 6.8 | 19.0 | 10.5 | 8.6 | 6.4 |
| | CVH-18-2SH | 25*2 | 0.16 | refer IDU | 22 | 12.5 | 9.8 | 7.7 | 19.0 | 12.0 | 9.3 | 7.5 |
| | CVH-27-3SH | 25*3 | 0.16 | refer IDU | 23.7 | 12.8 | 10.8 | 8.3 | 19.4 | 12.0 | 9.9 | 7.8 |
| | CVH-27-3SH | 25*3 | 0.16 | refer IDU | 23.0 | 12.5 | 10.6 | 8.1 | 20.0 | 11.7 | 9.5 | 7.5 |
| | CVH-36-4SH | 25*4 | 0.16 | refer IDU | 22.2 | 13.6 | 10.3 | 8.3 | 19.0 | 11.3 | 10.0 | 8.1 |
| | CVH-48-5SH | 25*4 | 0.16 | refer IDU | 21.8 | 11.7 | 9.8 | 7.6 | 20.9 | 11.7 | 8.9 | 7.4 |
| | CVH-60-5SH | 25*4 | 0.16 | refer IDU | 22 | 10.5 | 9.3 | 7.3 | 18.8 | 10.5 | 9.3 | 7.3 |

Specs at a Glance

FPA - FLOOR-CEILING

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Min. Power Supply Wire Size (AWG) | Min. Inter-Connecting Wire Size (AWG) | Breaker Size (A) | Piping Sizes (in) | Max. Allowable Piping Length (ft) | Minimum Piping Lengths (ft) | Max. Allowable Elevation Difference (ft) |
|------------------------------|-------------------------------|-----------------------------------|---------------------------------------|------------------|-------------------|-----------------------------------|-----------------------------|--|
| FPA-18 | CZP18CD(O) | 12*3 | 16*4, Stranded | 15.0 | 1/4", 1/2" | 98 | 12 | 66 |
| FPA-24 | CZP24CD(O) | 12*3 | 16*4, Stranded | 18.0 | 3/8", 5/8" | 164 | 12 | 82 |
| FPA-36DU | CZP36CD(O) | 12*3 | 16*3, Stranded+ 22*2 Shielded | 30.0 | 3/8", 5/8" | 213 | 12 | 98 |
| FPA-48DU | CZP48CD(O) | 10*3 | | 35 | 3/8", 5/8" | 213 | 12 | 98 |
| FPA-60DU | CZP60CD(O)-B | 10*3 | | 36 | 3/8", 3/4" | 213 | 12 | 98 |

TPA/TIP - CASSETTE

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Min. Power Supply Wire Size (AWG) | Min. Inter-Connecting Wire Size (AWG) | Breaker Size (A) | Piping Sizes (in) | Max. Allowable Piping Length (ft) | Minimum Piping Lengths (ft) | Max. Allowable Elevation Difference (ft) |
|------------------------------|-------------------------------|-----------------------------------|---------------------------------------|------------------|-------------------|-----------------------------------|-----------------------------|--|
| TPA-09 | CZP09CD(O) | 12*3 | 16*4, Stranded | 10.0 | 1/4", 3/8" | 82 | 12 | 33 |
| TPA-12 | CZP12CD(O) | 12*3 | 16*4, Stranded | 12.0 | 1/4", 1/2" | 82 | 12 | 33 |
| TPA-18 | CZP18CD(O) | 12*3 | 16*4, Stranded | 15.0 | 1/4", 1/2" | 98 | 12 | 66 |
| TIP-24 | CZP24CD(O) | 12*3 | 16*4, Stranded | 18.0 | 3/8", 5/8" | 164 | 12 | 82 |
| TIP-36 | CZP36CD(O) | 12*3 | 16*3, Stranded+ 22*2 Shielded | 30.0 | 3/8", 5/8" | 213 | 12 | 98 |
| TIP-48 | CZP48CD(O) | 10*3 | | 35 | 3/8", 5/8" | 213 | 12 | 98 |

CPA - FAN COIL

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Min. Power Supply Wire Size (AWG) | Min. Inter-Connecting Wire Size (AWG) | Breaker Size (A) | Piping Sizes (in) | Max. Allowable Piping Length (ft) | Minimum Piping Lengths (ft) | Max. Allowable Elevation Difference (ft) |
|------------------------------|-------------------------------|-----------------------------------|---------------------------------------|------------------|-------------------|-----------------------------------|-----------------------------|--|
| CPA-09B | CZP09CD(O) | 12*3 | 16*4, Stranded | 10.0 | 1/4", 3/8" | 82 | 12 | 33 |
| CPA-12B | CZP12CD(O) | 12*3 | 16*4, Stranded | 12.0 | 1/4", 1/2" | 82 | 12 | 33 |
| CPA-18B | CZP18CD(O) | 12*3 | 16*4, Stranded | 15.0 | 1/4", 1/2" | 98 | 12 | 66 |
| CPA-24B | CZP24CD(O) | 12*3 | 16*4, Stranded | 18.0 | 3/8", 5/8" | 164 | 12 | 82 |
| CPA-36DUB | CZP36CD(O) | 12*3 | 16*3, Stranded+ 22*2 Shielded | 30.0 | 3/8", 5/8" | 213 | 12 | 98 |
| CPA-48DUB | CZP48CD(O) | 10*3 | | 35 | 3/8", 5/8" | 213 | 12 | 98 |
| CPA-60DU | CZP60CD(O)-B | 10*3 | | 36 | 3/8", 3/4" | 213 | 12 | 98 |

TIW - ONE-WAY CASSETTE

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Min. Power Supply Wire Size (AWG) | Min. Inter-Connecting Wire Size (AWG) | Breaker Size (A) | Piping Sizes (in) | Max. Allowable Piping Length (ft) | Minimum Piping Lengths (ft) | Max. Allowable Elevation Difference (ft) |
|------------------------------|-------------------------------|-----------------------------------|---------------------------------------|------------------|-------------------|-----------------------------------|-----------------------------|--|
| TIW9P | CZP09CD(O) | 12*3 | 14*4 AWG | 10.0 | 1/4", 3/8" | 82 | 12 | 33 |
| TIW12P | CZP12CD(O) | 12*3 | | 10.0 | 1/4" / 3/8" | 82 | 12 | 33 |
| TIW18P | CZP18CD(O) | 12*3 | | 15.0 | 1/4" / 1/2" | 98 | 12 | 66 |

Specs at a Glance

FPA - FLOOR-CEILING

| ComfortStar Indoor unit Model No. | ComfortStar Outdoor unit Model No. | Factory Refrigerant Charge (ft) | Refrigerant Adjustment Factor (oz. per ft) | Drain Pipe Size(in) | SEER2 | EER2 | HSPF2-4 | HSPF2-5 |
|-----------------------------------|------------------------------------|---------------------------------|--|---------------------|-------|------|---------|---------|
| FPA-18 | CZP18CD(O) | 25 | 0.16 | 3/4" | 23.0 | 12.5 | 10.0 | 7.7 |
| FPA-24 | CZP24CD(O) | 25 | 0.32 | 3/4" | 20.5 | 12.5 | 10.3 | 7.8 |
| FPA-36DU | CZP36CD(O) | 25 | 0.32 | 3/4" | 19.0 | 8.5 | 9.0 | 7.0 |
| FPA-48DU | CZP48CD(O) | 25 | 0.32 | 3/4" | 18.9 | 9.3 | 10.0 | 7.5 |
| FPA-60DU | CZP60CD(O)-B | 25 | 0.32 | 3/4" | 19.8 | 9.8 | 9.0 | 7.0 |

TPA/TIP - CASSETTE

| ComfortStar Indoor unit Model No. | ComfortStar Outdoor unit Model No. | Factory Refrigerant Charge (ft) | Refrigerant Adjustment Factor (oz. per ft) | Drain Pipe Size(in) | SEER2 | EER2 | HSPF2-4 | HSPF2-5 |
|-----------------------------------|------------------------------------|---------------------------------|--|---------------------|-------|------|---------|---------|
| TPA-09 | CZP09CD(O) | 25 | 0.16 | 3/4" | 20 | 13 | 10.0 | 8.2 |
| TPA-12 | CZP12CD(O) | 25 | 0.16 | 3/4" | 22.7 | 14 | 9.8 | 7.8 |
| TPA-18 | CZP18CD(O) | 25 | 0.16 | 3/4" | 20.5 | 12.5 | 10.5 | 8.0 |
| TIP-24 | CZP24CD(O) | 25 | 0.32 | 1" | 21.5 | 12.5 | 9.7 | 7.8 |
| TIP-36 | CZP36CD(O) | 25 | 0.32 | 1" | 19.2 | 9.4 | 8.8 | 7.0 |
| TIP-48 | CZP48CD(O) | 25 | 0.32 | 1" | 18.5 | 9.5 | 9.8 | 7.5 |

CPA - FAN COIL

| ComfortStar Indoor unit Model No. | ComfortStar Outdoor unit Model No. | Factory Refrigerant Charge (ft) | Refrigerant Adjustment Factor (oz. per ft) | Drain Pipe Size(in) | SEER2 | EER2 | HSPF2-4 | HSPF2-5 |
|-----------------------------------|------------------------------------|---------------------------------|--|---------------------|-------|------|---------|---------|
| CPA-09B | CZP09CD(O) | 25 | 0.16 | 3/4" | 19.2 | 12.5 | 10.2 | 8.0 |
| CPA-12B | CZP12CD(O) | 25 | 0.16 | 3/4" | 19.0 | 11.7 | 10.3 | 7.8 |
| CPA-18B | CZP18CD(O) | 25 | 0.16 | 3/4" | 20.0 | 12.5 | 10.6 | 8.2 |
| CPA-24B | CZP24CD(O) | 25 | 0.32 | 3/4" | 19.0 | 12.5 | 11.2 | 8.8 |
| CPA-36DUB | CZP36CD(O) | 25 | 0.32 | 3/4" | 15.8 | 8.8 | 8.8 | 7.0 |
| CPA-48DUB | CZP48CD(O) | 25 | 0.32 | 3/4" | 15.1 | 8.5 | 9.3 | 7.3 |
| CPA-60DU | CZP60CD(O)-B | 25 | 0.32 | 3/4" | 17.0 | 10.3 | 8.4 | 6.5 |

TIW - ONE-WAY CASSETTE

| ComfortStar Indoor unit Model No. | ComfortStar Outdoor unit Model No. | Factory Refrigerant Charge (ft) | Refrigerant Adjustment Factor (oz. per ft) | Drain Pipe Size(in) | SEER2 | EER2 | HSPF2-4 | HSPF2-5 |
|-----------------------------------|------------------------------------|---------------------------------|--|---------------------|-------|------|---------|---------|
| TIW9P | CZP09CD(O) | 25 | 0.16 | 1" | 22.5 | 13.0 | 11.5 | 9.1 |
| TIW12P | CZP12CD(O) | 25 | 0.16 | 1" | 22.0 | 12.6 | 9.8 | 7.5 |
| TIW18P | CZP18CD(O) | 25 | 0.16 | 1" | 21.8 | 12.5 | 10.7 | 7.6 |

Specs at a Glance

Hi-HEAT • SINGLE ZONE WALL MOUNTED

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Min. Power Supply Wire Size (AWG) | Min. Inter-Connecting Wire Size (AWG) | Breaker Size (A) | Piping Sizes (in) | Max. Allowable Piping Length (ft) | Minimum Piping Lengths (ft) | Max. Allowable Elevation Difference(ft) |
|------------------------------|-------------------------------|-----------------------------------|---------------------------------------|------------------|-------------------|-----------------------------------|-----------------------------|---|
| CHF09CD(I) | CHF09CD(O) | 12*3 | 16*4, Stranded | 15 | 1/4", 3/8" | 82 | 12 | 33 |
| CHF12CD(I) | CHF12CD(O) | 12*3 | 16*4, Stranded | 15 | 1/4", 1/2" | 82 | 12 | 33 |
| CHF18CD(I) | CHF18CD(O) | 12*3 | 16*4, Stranded | 25 | 1/4", 1/2" | 98 | 12 | 66 |
| CHF24CD(I) | CHF24CD(O) | 12*3 | 16*4, Stranded | 30 | 3/8", 5/8" | 164 | 12 | 82 |

Hi-HEAT • FLOOR/CEILING

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Min. Power Supply Wire Size (AWG) | Min. Inter-Connecting Wire Size (AWG) | Breaker Size (A) | Piping Sizes (in) | Max. Allowable Piping Length (ft) | Minimum Piping Lengths (ft) | Max. Allowable Elevation Difference(ft) |
|------------------------------|-------------------------------|-----------------------------------|---------------------------------------|------------------|-------------------|-----------------------------------|-----------------------------|---|
| FPA-18 | CHF18CD(O) | 12*3 | 16*4, Stranded | 25 | 1/4", 1/2" | 98 | 12 | 66 |
| FPA-24 | CHF24CD(O) | 12*3 | 16*4, Stranded | 30 | 3/8", 5/8" | 164 | 12 | 82 |
| FPA-36DU | CHF36CD(O) | 12*3 | 16*3, Stranded+ 22*2 Shielded | 50 | 3/8", 5/8" | 213 | 12 | 98 |
| FPA-48DU | CHF48CD(O) | 12*3 | | 50 | 3/8", 5/8" | 213 | 12 | 98 |
| FPA-60DU | CHF60CD(O) | 12*3 | | 50 | 3/8", 5/8" | 213 | 12 | 98 |

Hi-HEAT • SINGLE ZONE CASSETTE

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Min. Power Supply Wire Size (AWG) | Min. Inter-Connecting Wire Size (AWG) | Breaker Size (A) | Piping Sizes (in) | Max. Allowable Piping Length (ft) | Minimum Piping Lengths (ft) | Max. Allowable Elevation Difference(ft) |
|------------------------------|-------------------------------|-----------------------------------|---------------------------------------|------------------|-------------------|-----------------------------------|-----------------------------|---|
| TPA-09 | CHF09CD(O) | 12*3 | 16*4, Stranded | 15 | 1/4", 3/8" | 82 | 12 | 33 |
| TPA-12 | CHF12CD(O) | 12*3 | 16*4, Stranded | 15 | 1/4", 1/2" | 82 | 12 | 33 |
| TPA-18 | CHF18CD(O) | 12*3 | 16*4, Stranded | 25 | 1/4", 1/2" | 98 | 12 | 66 |
| TIP-24 | CHF24CD(O) | 12*3 | 16*4, Stranded | 30 | 3/8", 5/8" | 164 | 12 | 82 |
| TIP-36 | CHF36CD(O) | 12*3 | 16*3, Stranded+ 22*2 Shielded | 50 | 3/8", 5/8" | 213 | 12 | 98 |
| TIP-48 | CHF48CD(O) | 12*3 | | 50 | 3/8", 3/4" | 213 | 12 | 98 |

Hi-HEAT • SINGLE ZONE FAN COIL

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Min. Power Supply Wire Size (AWG) | Min. Inter-Connecting Wire Size (AWG) | Breaker Size (A) | Piping Sizes (in) | Max. Allowable Piping Length (ft) | Minimum Piping Lengths (ft) | Max. Allowable Elevation Difference(ft) |
|------------------------------|-------------------------------|-----------------------------------|---------------------------------------|------------------|-------------------|-----------------------------------|-----------------------------|---|
| CPA-09B | CHF09CD(O) | 12*3 | 16*4, Stranded | 15 | 1/4", 3/8" | 82 | 12 | 33 |
| CPA-12B | CHF12CD(O) | 12*3 | 16*4, Stranded | 15 | 1/4", 1/2" | 82 | 12 | 33 |
| CPA-18B | CHF18CD(O) | 12*3 | 16*4, Stranded | 25 | 1/4", 1/2" | 98 | 12 | 66 |
| CPA-24B | CHF24CD(O) | 12*3 | 16*4, Stranded | 30 | 3/8", 5/8" | 164 | 12 | 82 |
| CPA-36DUB | CHF36CD(O) | 12*3 | 16*3, Stranded+ 22*2 Shielded | 50 | 3/8", 5/8" | 213 | 12 | 98 |
| CPA-48DUB | CHF48CD(O) | 12*3 | | 50 | 3/8", 3/4" | 213 | 12 | 98 |
| CPA-60DU | CHF60CD(O) | 12*4 | | 50 | 3/8", 3/4" | 213 | 12 | 98 |

Hi-HEAT • SINGLE ZONE ONE-WAY CASSETTE

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Min. Power Supply Wire Size (AWG) | Min. Inter-Connecting Wire Size (AWG) | Breaker Size (A) | Piping Sizes (in) | Max. Allowable Piping Length (ft) | Minimum Piping Lengths (ft) | Max. Allowable Elevation Difference(ft) |
|------------------------------|-------------------------------|-----------------------------------|---------------------------------------|------------------|-------------------|-----------------------------------|-----------------------------|---|
| TIW9P | CZP09CD(O) | 12*3 | 14*4 AWG | 15 | 1/4", 3/8" | 82 | 12 | 33 |
| TIW12P | CZP09CD(O) | 12*3 | | 15 | 1/4" / 1/2" | 82 | 12 | 33 |
| TIW18P | CZP18CD(O) | 12*3 | | 25 | 1/4" / 1/2" | 98 | 12 | 66 |

Specs at a Glance

Hi-HEAT • SINGLE ZONE WALL MOUNTED

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Factory Refrigerant Charge (ft) | Refrigerant Adjustment Factor (oz. per foot) | Drain Pipe Size(in) | SEER2 | EER2 | HSPF2-4 | HSPF2-5 |
|------------------------------|-------------------------------|---------------------------------|--|---------------------|-------|------|---------|---------|
| CHF09CD(I) | CHF09CD(O) | 25 | 0.16 | 3/4" | 28.1 | 16.2 | 11.5 | 9.0 |
| CHF12CD(I) | CHF12CD(O) | 25 | 0.16 | 3/4" | 25.5 | 14.0 | 10.4 | 8.0 |
| CHF18CD(I) | CHF18CD(O) | 25 | 0.16 | 3/4" | 21.5 | 12.5 | 10.7 | 7.9 |
| CHF24CD(I) | CHF24CD(O) | 25 | 0.32 | 3/4" | 21.5 | 13.0 | 11.4 | 9.2 |

Hi-HEAT • FLOOR/CEILING

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Factory Refrigerant Charge (ft) | Refrigerant Adjustment Factor (oz. per foot) | Drain Pipe Size(in) | SEER2 | EER2 | HSPF2-4 | HSPF2-5 |
|------------------------------|-------------------------------|---------------------------------|--|---------------------|-------|------|---------|---------|
| FPA-18 | CHF18CD(O) | 25 | 0.16 | 3/4" | 20.5 | 12.5 | 9.8 | 7.5 |
| FPA-24 | CHF24CD(O) | 25 | 0.32 | 3/4" | 20.5 | 11.7 | 11.0 | 9.0 |
| FPA-36DU | CHF36CD(O) | 25 | 0.32 | 3/4" | 17.6 | 8.8 | 10 | 8.2 |
| FPA-48DU | CHF48CD(O) | 25 | 0.32 | 3/4" | 17 | 9.8 | 9.8 | 7.5 |
| FPA-60DU | CHF60CD(O) | 25 | 0.32 | 3/4" | 17.3 | 9.0 | 10.2 | 8.4 |

Hi-HEAT • SINGLE ZONE CASSETTE

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Factory Refrigerant Charge (ft) | Refrigerant Adjustment Factor (oz. per foot) | Drain Pipe Size(in) | SEER2 | EER2 | HSPF2-4 | HSPF2-5 |
|------------------------------|-------------------------------|---------------------------------|--|---------------------|-------|------|---------|---------|
| TPA-09 | CHF09CD(O) | 25 | 0.16 | 3/4" | 20.5 | 13 | 10.3 | 7.8 |
| TPA-12 | CHF12CD(O) | 25 | 0.16 | 3/4" | 22.3 | 12.7 | 10.2 | 8.0 |
| TPA-18 | CHF18CD(O) | 25 | 0.16 | 3/4" | 20.0 | 12.5 | 9.5 | 7.8 |
| TIP-24 | CHF24CD(O) | 25 | 0.32 | 3/4" | 20.5 | 11 | 11.5 | 9.2 |
| TIP-36 | CHF36CD(O) | 25 | 0.32 | 3/4" | 19.4 | 9.5 | 10.5 | 8.5 |
| TIP-48 | CHF48CD(O) | 25 | 0.32 | 3/4" | 16.8 | 8.30 | 10.7 | 8.5 |

Hi-HEAT • SINGLE ZONE FAN COIL

| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Factory Refrigerant Charge (ft) | Refrigerant Adjustment Factor (oz. per foot) | Drain Pipe Size(in) | SEER2 | EER2 | HSPF2-4 | HSPF2-5 |
|------------------------------|-------------------------------|---------------------------------|--|---------------------|-------|------|---------|---------|
| CPA-09B | CHF09CD(O) | 25 | 0.16 | 3/4" | 20.2 | 13.2 | 12.0 | 9.5 |
| CPA-12B | CHF12CD(O) | 25 | 0.16 | 3/4" | 19.5 | 11.7 | 10.5 | 8.2 |
| CPA-18B | CHF18CD(O) | 25 | 0.16 | 3/4" | 18.0 | 11.7 | 9.5 | 7.5 |
| CPA-24B | CHF24CD(O) | 25 | 0.32 | 3/4" | 19.2 | 12.0 | 10.5 | 8.0 |
| CPA-36DUB | CHF36CD(O) | 25 | 0.32 | 3/4" | 16.5 | 9.0 | 11.0 | 8.8 |
| CPA-48DUB | CHF48CD(O) | 25 | 0.32 | 3/4" | 14.3 | 8.2 | 10.3 | 8.4 |
| CPA-60DU | CHF60CD(O) | 25 | 0.32 | 3/4" | 15.8 | 9.4 | 9.5 | 7.8 |

Hi-HEAT • SINGLE ZONE ONE-WAY CASSETTE

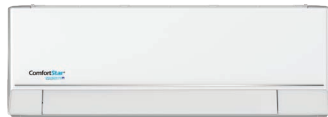
| ComfortStar Indoor Model No. | ComfortStar Outdoor Model No. | Factory Refrigerant Charge (ft) | Refrigerant Adjustment Factor (oz. per foot) | Drain Pipe Size(in) | SEER2 | EER2 | HSPF2-4 | HSPF2-5 |
|------------------------------|-------------------------------|---------------------------------|--|---------------------|-------|------|---------|---------|
| TIW9P | CHF09CD(O) | 25 | 0.16 | 3/4" | 24.0 | 13.0 | 12.4 | 9.5 |
| TIW12P | CHF12CD(O) | 25 | 0.16 | 3/4" | 23.0 | 13.0 | 10.0 | 7.8 |
| TIW18P | CHF18CD(O) | 25 | 0.16 | 3/4" | 19.8 | 12.5 | 11.2 | 8.5 |



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