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.

AHRI CERTIFIED www.ahridirectory.org

c UL us LISTED

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.

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.

COMFORT... IT'S IN OUR NAME.



ComfortStar®

ALEGRIA SERIES

INVERTER TECHNOLOGY

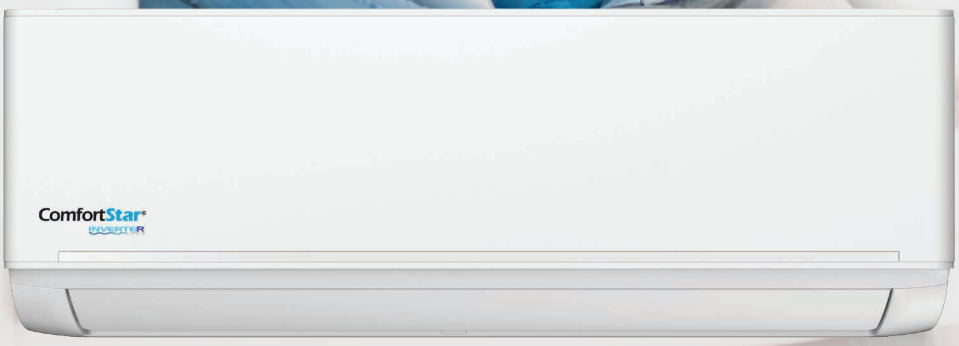
ALEGRIA SERIES



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 -

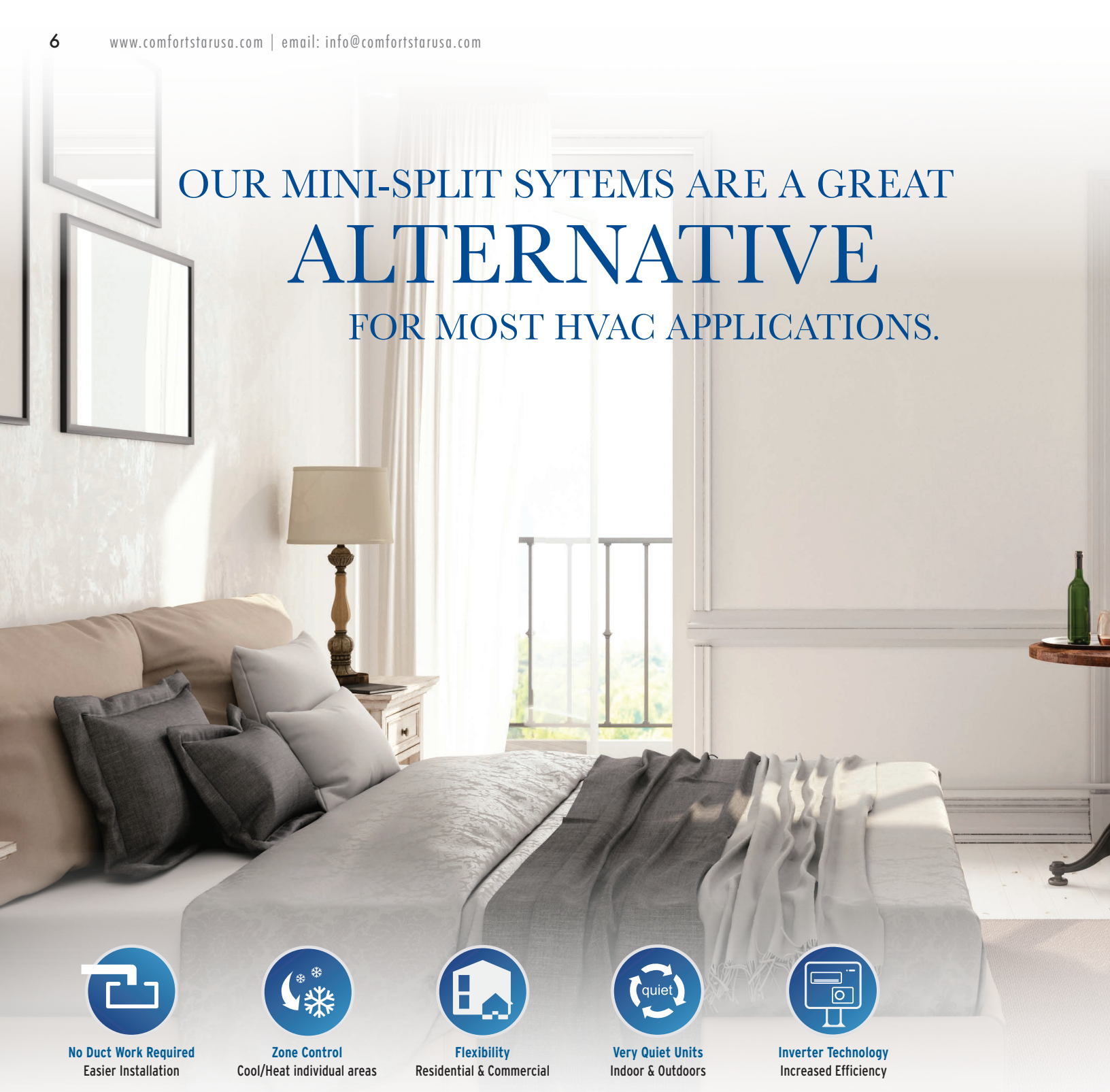
Hi-wall units, cassette type, floor ceiling and fan coils, are also available from 9,000 BTUH to 60,000 BTUH.

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 SYTEMS 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



UP TO
21.7 SEER2
HIGH EFFICIENCY
Low Ambient
5°F

ALEGRIA GOLD SERIES

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 R410a cULus LISTED AHRI CERTIFIED

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

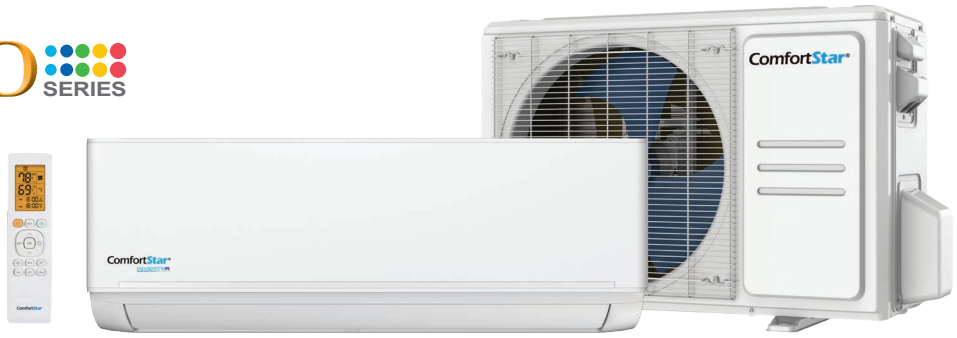
INDOOR MODEL NO.	CGS09CA(I)	CGS12CA(I)	CGS09CD(I)	CGS12CD(I)	CGS18CD(I)	CGS24CD(I)	CGS30CD(I)	CGS36CD(I)
OUTDOOR MODEL NO.	CGS09CA(O)	CGS12CA(O)	CGS09CD(O)	CGS12CD(O)	CGS18CD(O)	CGS24CD(O)	CGS30CD(O)	CGS36CD(O)
				CAPACITY BTUH				
COOLING CAPACITY	9000	12000	9000	12000	18000	24000	30000	36000
HEATING 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 (W×D×H)	inch	30.12x11.93x21.85	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	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 (W×D×H)	inch	31.69x12.99x21.81	35.04x13.46x26.50	37.24x16.14x31.89	37.24x16.14x31.89
	Packing (W×D×H)	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

INVERTER R410a cULus LISTED ENERGY STAR CERTIFIED

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

AHRI CERTIFIED · c UL us LISTED · R410a



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

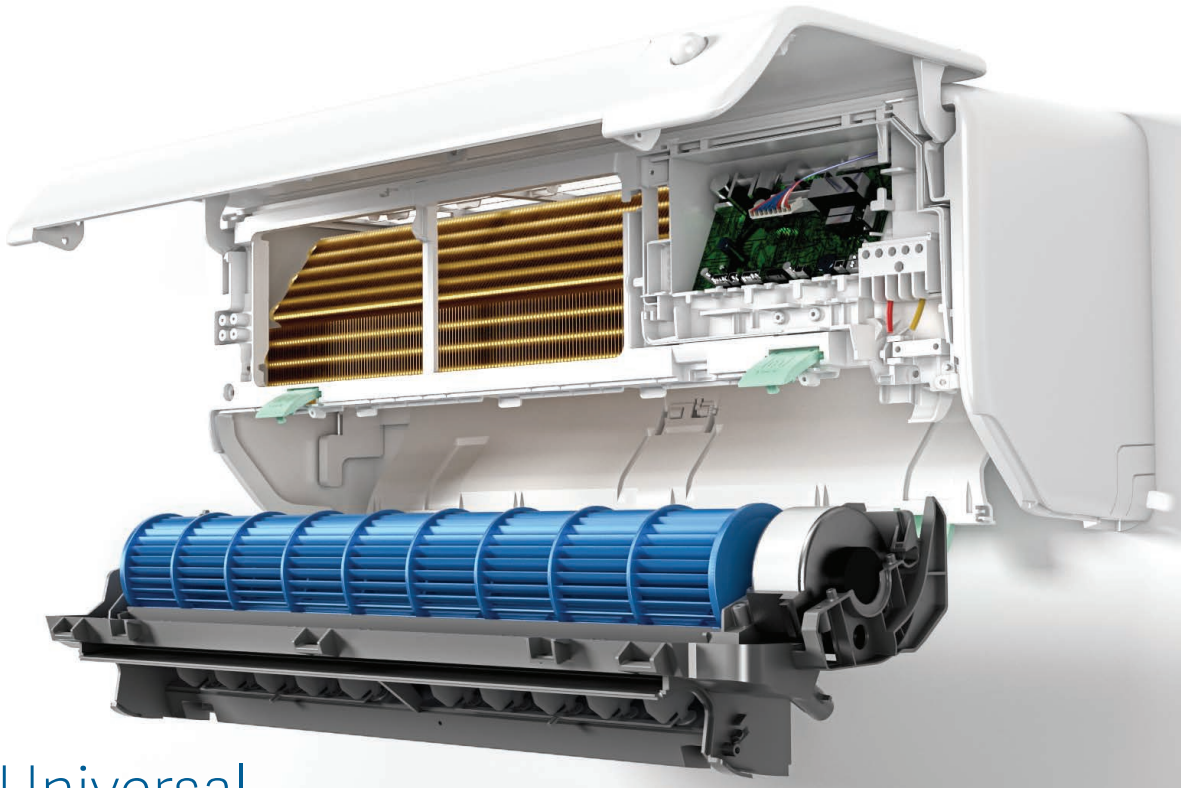
PLATINUM Additional Features:

- 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)

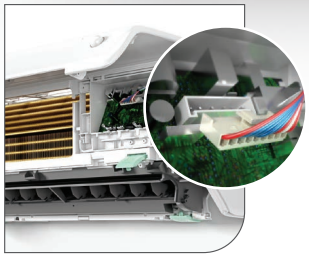


CHF Universal Indoor Unit

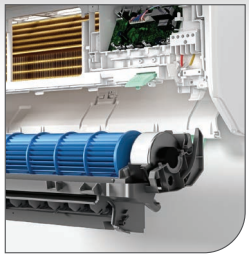
Features:
- 3 easy steps to disassemble.
- Allowing for easy maintenance.



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(0)	CHF09CA(I)	–	–	–	–
CZP12CA(0)	CHF12CA(I)	–	–	–	–
CZP09CD(0)	CHF09CD(I)	–	TPA-09	CPA-09B	T1W9P
CZP12CD(0)	CHF12CD(I)	–	TPA-12	CPA-12B	T1W12P
CZP18CD(0)	CHF18CD(I)	FPA-18	TPA-18	CPA-18B	T1W18P
CZP24CD(0)	CHF24CD(I)	FPA-24	TIP-24	CPA-24B	–
CZP36CD(0)	–	FPA-36DU	TIP-36	CPA-36DUB	–
CZP48CD(0)	–	FPA-48DU	TIP-48	CPA-48DUB	–
CZP60CD(0)-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
Heating at 47°F	Rated Capacity (range)	BTUH	10000 (3400~13000)	12000 (5000~12200)	10000 (3400~13000)
	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
	HSPF2-5	Btu/w	8.1	7.0	6.5
Heating at 17°F (AHRI)	Rated capacity	BTUH	10000	15600	16500
Heating at 5°F (-15°C)	Rated capacity	BTUH	9500	12200	15800
	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
	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	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.

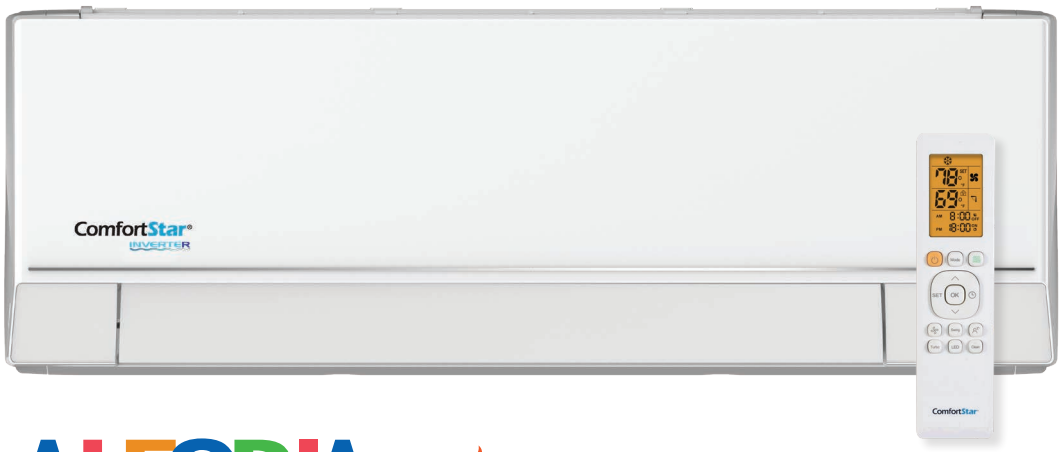
10 YEAR WARRANTY COMPRESSOR | **10 YEAR WARRANTY** PARTS

INVERTER R410a

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

AHRI CERTIFIED · c UL us LISTED · R410a

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
	HSPF2-5	Btu/w	9.0	8.0	7.9	9.2
Heating at 17°F (AHRI)	Rated capacity	BTUH	12000	12000	20270	19800
Heating at 5°F (-15°C)	Rated capacity	BTUH	10500	12000	18000	25400
	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

ENERGY STAR R410a AHRI CERTIFIED www.ahridirectory.org c UL us LISTED

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.

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



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



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 R410a

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

ENERGY STAR

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)	25000(10350~27000)
	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
	HSPF2-5	Btu/w	8.2	7.8	8.0	7.8	7.0	7.5
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





ENERGY STAR

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
Cooling	Capacity (range)	BTUHr	9000(4400~11200)	12000(4000~13200)	18000(3200~18100)
	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
Heating	Capacity (range)	BTUHr	11000(3800~12400)	12500(3700~12800)	19000(5300~21500)
	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
Heating at 47°F	Rated Capacity (range)	BTUH	20000(8100~20000)	24000(11600~30900)	38000(11467~38000)	50000(12159~50000)	60000(17000~62000)
	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
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	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

ENERGY STAR R410a AHRI CERTIFIED www.ahridirectory.org c UL us LISTED

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

ENERGY STAR

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
Refri. 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

ENERGY STAR

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
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
	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

ENERGY STAR

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
Cooling	Rated Capacity-range	BTUH	9000(2850~11100)	12000(3000~13700)	16000(5600~17000)	24000(8000~25000)	36000(13700~38000)	48000(2700~48900)
	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
Heating at 47°F	Rated Capacity-range	BTUH	9800(2270~12500)	12000(2000~15300)	17000(8700~21000)	25000(111840~27000)	40000(17600~47000)	53000(11800~58000)
	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
Heating at 5°F	Rated capacity	BTUH	10200	11500	16000	24100	36000	48000
	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





ENERGY STAR

T1W SERIES

Indoor 1 Way Cassette

OUTDOOR UNIT MODEL			T1W9P	T1W12P	T1W18P
INDOOR 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
Cooling	Capacity (range)	BTUHr	9000(3600~12200)	12000(4000~14100)	16700(6100~17500)
	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
Heating	Capacity (range)	BTUHr	10900(4800~14000)	12500(4600~15000)	20000(6450~21500)
	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

ENERGY STAR

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)	51000(11889~56363)
	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.

ALEGRIA HI-HEAT SERIES
LIGHT COMMERCIAL SERIES



CPA SERIES

Hi-Heat High Wall Mount

ENERGY STAR

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	15.0	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	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		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
Thermo-stat 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	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.

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 Controler

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 Contoler

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 zonesing 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	T1W-09 T1W-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	T1W-09 T1W-12 T1W-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	T1W-09 T1W-12 T1W-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	T1W-09 T1W-12 T1W-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	T1W-09 T1W-12 T1W-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+ COMBINTIONS 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
ENERGY STAR

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

ENERGY STAR

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
Cooling	Capacity	BTUH	18000(5650~22000)	28000(9838~30438)	36000(8209~40555)	48000(19000~50000)	55000(19000~57300)
	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
Heating at 47°F	Capacity	BTUH	19000(5050~24400)	28000(8218~31000)	37000(8008~44632)	48000(12500~52000)	55000(12500~60000)
	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

ENERGY STAR

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
Cooling	Capacity	BTUH	18000(3850~22400)	28000(9277~30776)	36000(8789~40288)	48000(19400~51000)	55000(19400~57100)
	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
Heating at 47°F	Capacity	BTUH	19000(5050~24400)	28000(8388~28869)	37000(6900~46624)	50000(15500~56000)	55000(15500~61600)
	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
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

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						
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								
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
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	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



ENERGY STAR

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 Controler

FEATURES:

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



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

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



Part No. AWC-4 Simple Wired Contoler

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

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

CVH SERIES | Multi-Zone Condensor

AHU Series

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CSA | c UL us LISTED

Warranty Registration required except in California and Quebec, Canada.

ALEGRIA HI-HEAT SERIES

HI-HEAT · FLEX-MOUNT MULTI-ZONE

UP TO **22.5 SEER2** HIGH EFFICIENCY

Low Ambient -22°F

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	T1W09 · T1W12	–	CPA-09B · CPA-12B	–
CVH-27-3SH	CHF09CD(I) · CHF12CD(I) CHF18CD(I) · CHF24CD(I)	TPA-09 · TPA-12 TPA-18	T1W09 · T1W12 T1W18	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	T1W09 · T1W12 T1W18	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	T1W09 · T1W12 T1W18	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	T1W09 · T1W12 T1W18	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



Heat Pump INVERTER

ENERGY STAR

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	10.5EER2	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
Cooling	Capacity	BTUH	19000(5500~25000)	28000(7995~32826)	36000(17900~42000)	48000(19300~51000)	55000(19000~58000)
	Input	W	1520	2240	2650	4150	5238
	Rated current	A	9.1	12.4	11.8	18.0	23.5
	EER2	Btu/Btu	12.5	12.5	13.6	11.7	10.5
	SEER2		22	23	22.2	21.8	22
Heating at 47°F	Capacity	BTUH	20000(8100~29700)	28000(5035~38712)	37000(12500~49000)	49000(11500~58000)	55000(12500~57900)
	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. Lengh 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.

ALEGRIA HI-HEAT SERIES

HI-HEAT · FLEX-MOUNT MULTI-ZONE



CVH SERIES - HI-HEAT

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

ENERGY STAR

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)	55000(15500~61600)
	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 Max. Lengh 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				
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.

ALEGRIA HI-HEAT SERIES

HI-HEAT · FLEX-MOUNT MULTI-ZONE



CHF SERIES

Hi-Heat Flex-Mount Indoor High Wall

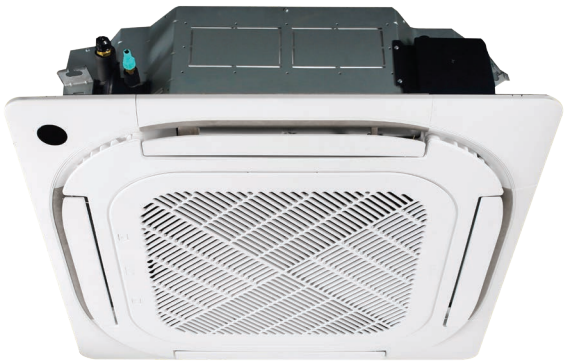
ENERGY STAR

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

ENERGY STAR

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)
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.

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(0)	12*3	16*4, Stranded	15.0	1/4", 1/2"	98	12	66
FPA-24	CZP24CD(0)	12*3	16*4, Stranded	18.0	3/8", 5/8"	164	12	82
FPA-36DU	CZP36CD(0)	12*3	16*3, Stranded+ 22*2 Shielded	30.0	3/8", 5/8"	213	12	98
FPA-48DU	CZP48CD(0)	10*3		35	3/8", 5/8"	213	12	98
FPA-60DU	CZP60CD(0)-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(0)	12*3	16*4, Stranded	10.0	1/4", 3/8"	82	12	33
TPA-12	CZP12CD(0)	12*3	16*4, Stranded	12.0	1/4", 1/2"	82	12	33
TPA-18	CZP18CD(0)	12*3	16*4, Stranded	15.0	1/4", 1/2"	98	12	66
TIP-24	CZP24CD(0)	12*3	16*4, Stranded	18.0	3/8", 5/8"	164	12	82
TIP-36	CZP36CD(0)	12*3	16*3, Stranded+ 22*2 Shielded	30.0	3/8", 5/8"	213	12	98
TIP-48	CZP48CD(0)	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(0)	12*3	16*4, Stranded	10.0	1/4", 3/8"	82	12	33
CPA-12B	CZP12CD(0)	12*3	16*4, Stranded	12.0	1/4", 1/2"	82	12	33
CPA-18B	CZP18CD(0)	12*3	16*4, Stranded	15.0	1/4", 1/2"	98	12	66
CPA-24B	CZP24CD(0)	12*3	16*4, Stranded	18.0	3/8", 5/8"	164	12	82
CPA-36DUB	CZP36CD(0)	12*3	16*3, Stranded+ 22*2 Shielded	30.0	3/8", 5/8"	213	12	98
CPA-48DUB	CZP48CD(0)	10*3		35	3/8", 5/8"	213	12	98
CPA-60DU	CZP60CD(0)-B	10*3		36	3/8", 3/4"	213	12	98

T1W - 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)
T1W9P	CZP09CD(0)	12*3	14*4 AWG	10.0	1/4", 3/8"	82	12	33
T1W12P	CZP09CD(0)	12*3		10.0	1/4" / 3/8"	82	12	33
T1W18P	CZP18CD(0)	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(0)	25	0.16	3/4"	23.0	12.5	10.0	7.7
FPA-24	CZP24CD(0)	25	0.32	3/4"	20.5	12.5	10.3	7.8
FPA-36DU	CZP36CD(0)	25	0.32	3/4"	19.0	8.5	9.0	7.0
FPA-48DU	CZP48CD(0)	25	0.32	3/4"	18.9	9.3	10.0	7.5
FPA-60DU	CZP60CD(0)-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(0)	25	0.16	3/4"	20	13	10.0	8.2
TPA-12	CZP12CD(0)	25	0.16	3/4"	22.7	14	9.8	7.8
TPA-18	CZP18CD(0)	25	0.16	3/4"	20.5	12.5	10.5	8.0
TIP-24	CZP24CD(0)	25	0.32	1"	21.5	12.5	9.7	7.8
TIP-36	CZP36CD(0)	25	0.32	1"	19.2	9.4	8.8	7.0
TIP-48	CZP48CD(0)	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(0)	25	0.16	3/4"	19.2	12.5	10.2	8.0
CPA-12B	CZP12CD(0)	25	0.16	3/4"	19.0	11.7	10.3	7.8
CPA-18B	CZP18CD(0)	25	0.16	3/4"	20.0	12.5	10.6	8.2
CPA-24B	CZP24CD(0)	25	0.32	3/4"	19.0	12.5	11.2	8.8
CPA-36DUB	CZP36CD(0)	25	0.32	3/4"	15.8	8.8	8.8	7.0
CPA-48DUB	CZP48CD(0)	25	0.32	3/4"	15.1	8.5	9.3	7.3
CPA-60DU	CZP60CD(0)-B	25	0.32	3/4"	17.0	10.3	8.4	6.5

T1W - 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
T1W9P	CZP09CD(0)	25	0.16	1"	22.5	13.0	11.5	9.1
T1W12P	CZP12CD(0)	25	0.16	1"	22.0	12.6	9.8	7.5
T1W18P	CZP18CD(0)	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)
T1W9P	CZP09CD(O)	12*3	14*4 AWG	15	1/4", 3/8"	82	12	33
T1W12P	CZP09CD(O)	12*3		15	1/4" / 1/2"	82	12	33
T1W18P	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

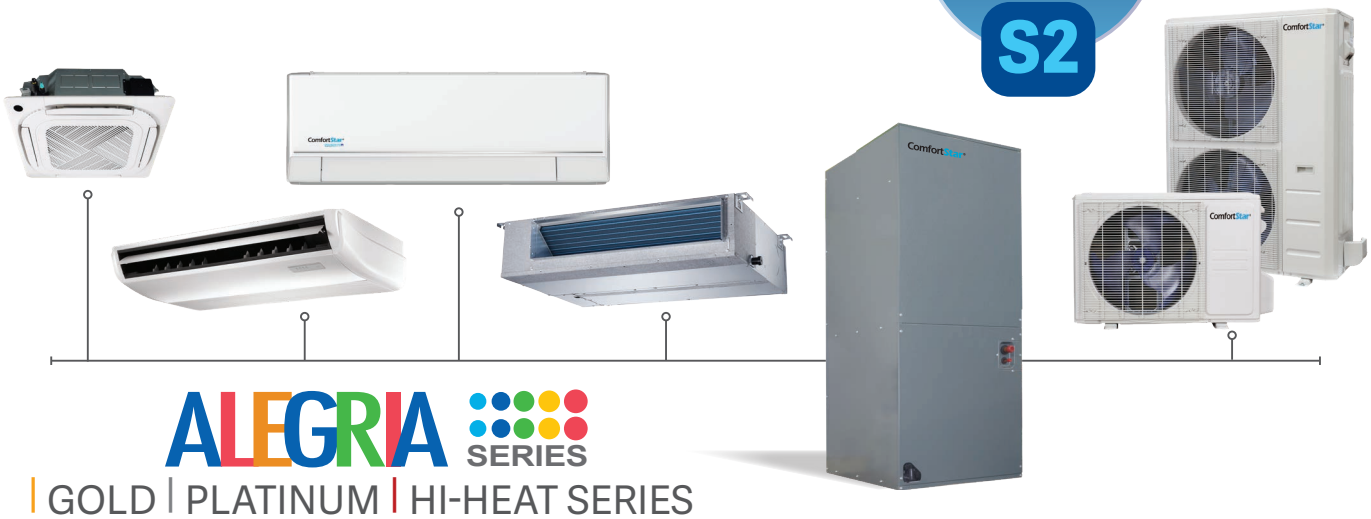
ComfortStar Indoor Model No.	ComfortStar Outdoor Model No.	Factory Refrigerant Charge (ft)	Refrigerant Adjustment Factor (oz. per foot)	Drain Pipe Size(in)	SEER2	EER2	HSPF2-4	HSPF2-5
T1W9P	CHF09CD(O)	25	0.16	3/4"	24.0	13.0	12.4	9.5
T1W12P	CHF12CD(O)	25	0.16	3/4"	23.0	13.0	10.0	7.8
T1W18P	CHF18CD(O)	25	0.16	3/4"	19.8	12.5	11.2	8.5



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Sales inquiries: sales@eairllc.com

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