

ComfortStar®

Ductless Mini-Splits, Light Commercial and Multi-Zone Systems

Comfort... *it's in our name.*



ALEGRIA SERIES

| GOLD | PLATINUM | HI-HEAT SERIES
High Efficiency Heat Pumps and Light Commercial Systems



PRODUCT CATALOG



We provide Comfort at a great value. *Comfort... it's in our name.*

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 ETL 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, decrease in energy usage and increased energy savings.

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



ComfortStar®

ALEGRIA  **SERIES**

INVERTER
TECHNOLOGY

ComfortStar®

Ductless Mini-Splits, Light Commercial and Multi-Zone Systems

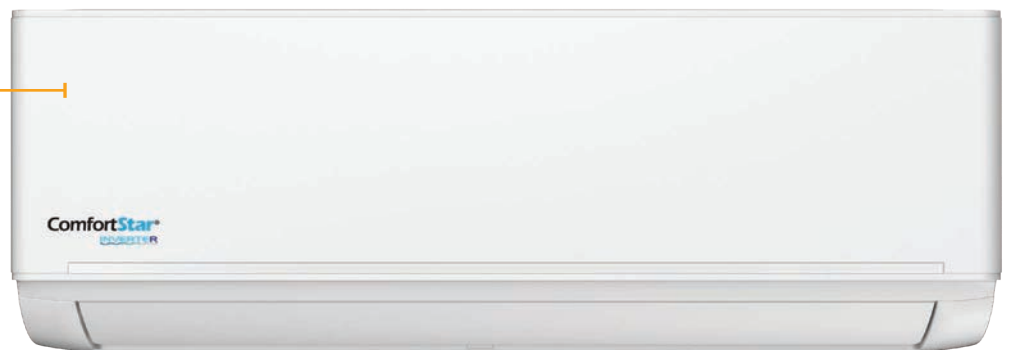
ALEGRIA SERIES

| GOLD | PLATINUM | HI-HEAT SERIES
High Efficiency Heat Pumps and Light Commercial Systems

GOLD

7 YEAR WARRANTY
COMPRESSOR

5 YEAR WARRANTY
PARTS



PLATINUM

7 YEAR WARRANTY
COMPRESSOR

7 YEAR WARRANTY
PARTS



HI-HEAT

10 YEAR WARRANTY
COMPRESSOR

10 YEAR WARRANTY
PARTS



Warranty registration required except in California and Quebec, Canada.

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Highest heating and air conditioning efficiencies on the market.

ALEGRIA GOLD Systems - 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.

ALEGRIA PLATINUM Systems -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 LIGHT COMMERCIAL Systems - Hi-wall units, cassette type, floor ceiling and fan coils, are also available from 9,000 BTUh to 60,000 BTUh.

PLATINUM MULTI-ZONE Systems - A single outdoor condensing unit can power up to 5 different indoor evaporators. There are more than 113+ possible combinations ranging from 9,000 BTUh to 36,000 BTUh in high-wall mounts and light commercial units offering contractors flexibility in system designing.

ALEGRIA Hi-HEAT Systems - 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 48,000 BTUh.

HI-HEAT MULTI-ZONE Systems - A single outdoor condensing unit can power up to 5 different indoor evaporators. There are more than 113+ possible combinations ranging from 9,000 BTUh to 36,000 BTUh in high-wall mounts and light commercial units which offers contractors flexibility in system designing.

ALEGRIA  **SERIES**

ComfortStar®



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

SINGLE ZONE System 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.

Mini-Split systems are favored in residential applications where duct work for a central A/C system is not available, making it a promising alternative to central systems for almost any HVAC application.





Control, by using your Wi-Fi.

- Control your evaporator 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 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.



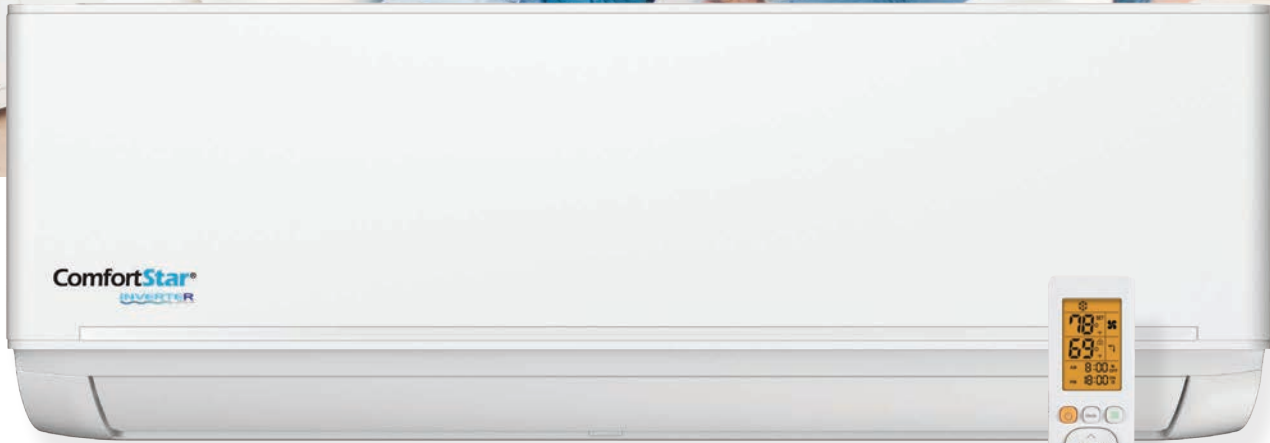
Part No. WiFi-SP WiFi Smart Port

- Allows you to connect to all **2020 Series of CPA, TPA, FPA products with WiFi**



Part No. WiFi-US COOL KIT WiFi Kit

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



ALEGRIA GOLD SERIES

SINGLE ZONE Heat Pump
 5°F Low Outdoor Ambient Operating Temperature
 for both Heating and Cooling.

Features:

- Auto-restart
- Timer (24H)
- Turbo
- Auto Swing
- Sleep mode (7 hour off)
- 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



UP TO 21.5 SEER
 High Efficiency
 15ft line set included



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)

Warranty Registration required except in California and Quebec, Canada.





UP TO
21.5 SEER
High Efficiency
Low Ambient
5°F

ALEGRIA GOLD SERIES

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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)	WiFi Control (optional)

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 depending on the type of protection the unit is in.
- **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 either left or right hand side of evaporator allows for flexible installation design.
- **3 Directional Airflow:** Air flow is directed so that it reaches more surface area including the corners of the room being conditioned.
- **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)
WiFi Control - (optional)



CGS Series

SINGLE ZONE Heat Pump Up to 21.5 SEER

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

UP TO
21.5 SEER
High Efficiency
Low Ambient
5°F



Warranty Registration required except in California and Quebec, Canada.





ComfortStar®



**UP TO
21.5 SEER**
High Efficiency
Low Ambient
5°F

ALEGRIA GOLD SERIES

CGS Series Easy Installation for Residential and Commercial Applications

GOLD Application

- 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 BTU/H								
Cooling Capacity	9000	12000	9000	12000	18000	24000	30000	36000
Heating Capacity	10000	12000	9000	12000	18000	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

Heat Pump



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
Cooling	Rated Capacity (range)	Btu/h	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
	EER	Btu/w	12.5	10.3	12.6	10.8
	SEER	Btu/w	21.5	20	21.5	20.5
Heating at 47°F	Rated Capacity (range)	Btu/h	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
	HSPF4	Btu/w	10.3	10.8	10.0	10.7
	HSPF5	Btu/w	8.3	8.5	8.3	8.5
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(WxDxH)	inch	28.70x7.87x11.50	31.57x7.87x11.61	28.70x7.87x11.50	31.57x7.87x11.61
	Packing (WxDxH)	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
Outdoor air flow (Max.)		m3/h	2200	2100	2200	2100
Outdoor air flow (Max.)		CFM	1294	1235	1294	1235
Outdoor noise level (Sound pressure)		dB(A)	55	54	55	53.5
Outdoor unit	Dimension (WxDxH)	inch	30.12x11.93x21.85	30.12x11.93x21.85	30.12x11.93x21.85	30.12x11.93x21.85
	Packing (WxDxH)	inch	34.92x13.27x24.02	34.92x13.27x24.02	34.92x13.27x24.02	34.92x13.27x24.02
	Net/Gross Weight	lbs.	57.76/63.49	62.17/67.68	55.11/60.85	59.30/64.82
Refrigerant	Type/Charged	oz	R410A/25.4	R410A/28.6	R410A/25.4	R410A/28.6
Refrigerant precharge		ft	25	25	25	25
Additional charge for each ft		oz/ft	0.16	0.16	0.16	0.16
Design pressure		PSIG	550/340	550/340	550/340	550/340
Refrigerant piping	Liquid side/Gas side	inch	1/4" / 3/8"	1/4" / 1/2"	1/4" / 3/8"	1/4" / 1/2"
	Max. pipe length	ft	82.0	82.0	82.0	82.0
	Max. diff. in level	ft	32.8	32.8	32.8	32.8
Connection wiring			16AWG*4 Stranded, unshielded			
Indoor Ambient temperature	Cooling	°F	60~90	60~90	60~90	60~90
	Heating	°F	32~86	32~86	32~86	32~86
Outdoor Ambient temperature	Cooling	°F	5~122	5~122	5~122	5~122
	Heating	°F	5~75	5~75	5~75	5~75

CGS Series · Up to 21.5 SEER · Heat Pump

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

Features:

- Auto-restart
- Timer (24H)
- Turbo
- Auto Swing
- Sleep mode (7 hour off)
- 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

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
Cooling	Rated Capacity (range)	Btu/h	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
	EER	Btu/w	11	9.5	12.2	9.5
	SEER	Btu/w	19.5	18.5	20	18
Heating at 47°F	Rated Capacity (range)	Btu/h	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
	HSPF4	Btu/w	10	10.2	10	12
	HSPF5	Btu/w	8.5	8.3	7.7	9
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(WxDxH)	inch	38.23x8.98x12.64	42.60x9.21x13.27	49.57x11.14x14.25	49.57x11.14x14.25
	Packing (WxDxH)	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
Outdoor air flow (Max.)		m3/h	2100	3000	3800	3800
Outdoor air flow (Max.)		CFM	1235	1765	2235	2235
Outdoor noise level (Sound pressure)		dB(A)	57	60	61.5	61.5
Outdoor unit	Dimension (WxDxH)	inch	31.69x12.99x21.81	35.04x13.46x26.50	37.24x16.14x31.89	37.24x16.14x31.89
	Packing (WxDxH)	inch	36.02x14.57x24.21	39.17x15.67x29.13	42.91x19.69x34.84	42.91x19.69x34.84
	Net/Gross Weight	lbs.	73.85/79.81	29.98/38.14	141.76/151.90	150.13/158.95
Refrigerant	Type/Charged	oz	R410A/47.6	R410A/62.8	R410A/97	R410A/119.9
Refrigerant precharge		ft	25	25	25	25
Additional charge for each ft		oz/ft	0.16	0.32	0.32	0.32
Design pressure		PSIG	550/340	550/340	550/340	550/340
Refrigerant piping	Liquid side/Gas side	inch	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"	3/8" / 5/8"
	Max. pipe length	ft	98.0	164.0	164.0	213.0
	Max. diff. in level	ft	66.0	82.0	82.0	98.0
Connection wiring			16AWG*4 Stranded, unshielded			
Indoor Ambient temperature	Cooling	°F	60~90	60~90	60~90	60~90
	Heating	°F	32~86	32~86	32~86	32~86
Outdoor Ambient temperature	Cooling	°F	5~122	5~122	5~122	5~122
	Heating	°F	5~75	5~75	5~86	5~86



ALEGRIA PLATINUM SERIES

SINGLE ZONE Heat Pump
 -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 Speeds
- Emergency Mode
- Anti-Cold Air Function
- Bypass Mode
- Mute Operation
- GOLD Fin
- Refrigerant Leak Detection Error Code
- Manual Power Switch
- Interactive display
- Self-Diagnosis
- 3-Directional Airflow
- 2-Way Draining
- Optional Wired Control



UP TO 25.5 SEER
 High Efficiency
 15ft line set included

 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)
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Warranty Registration required except in California and Quebec, Canada.





UP TO
25.5 SEER
High Efficiency
Low Ambient
-13°F

ALEGRIA PLATINUM SERIES

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PLATINUM 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)	WiFi Control (optional)

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 depending on the type of protection the unit is in.
- **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 either left or right hand side of evaporator allows for flexible installation design.
- **3 Directional Airflow:** Air flow is directed so that it reaches more surface area including the corners of the room being conditioned.
- **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)
WiFi Control - Cool Link installed in unit (optional)



CHF
Indoor Unit

CZP
Outdoor Unit

SINGLE ZONE Heat Pump Up to 25.5 SEER

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

UP TO
25.5 SEER
High Efficiency
Low Ambient
-13°F



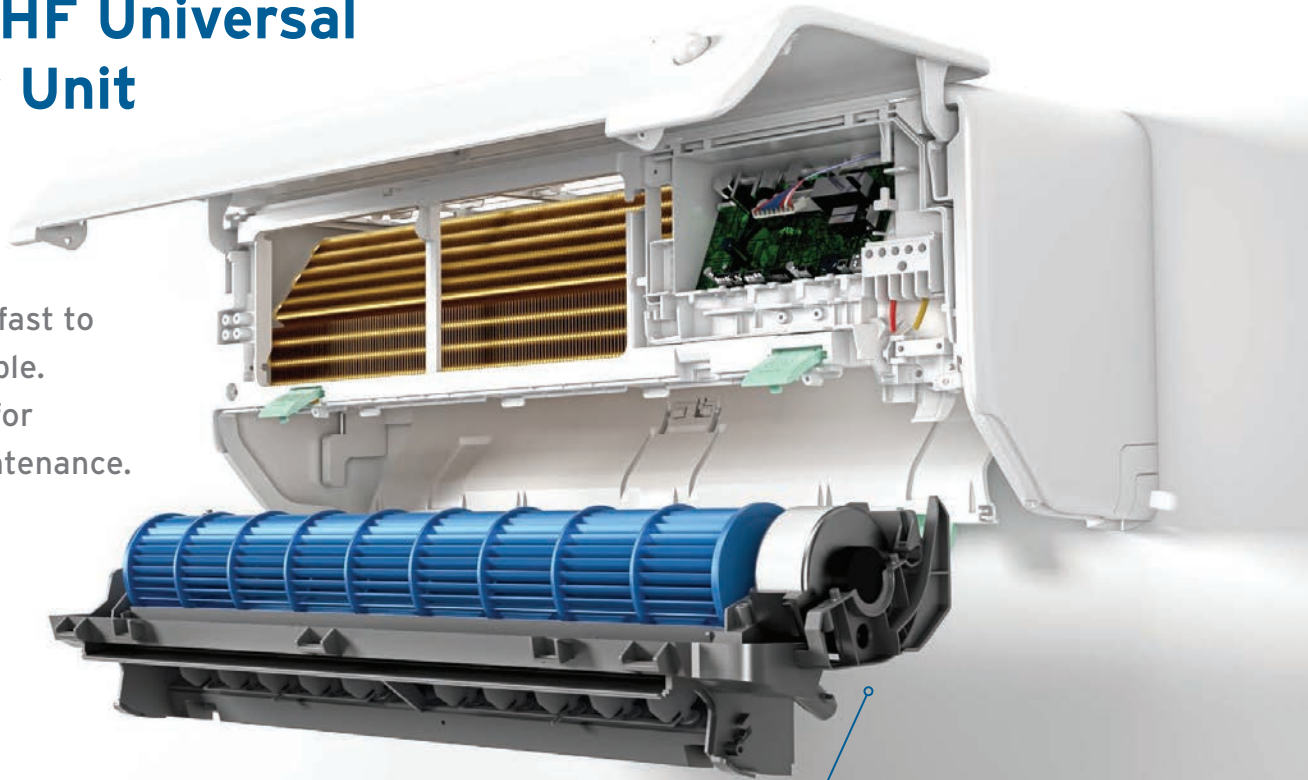
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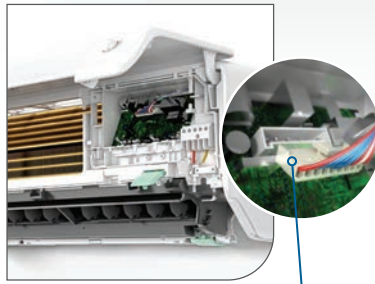
New CHF Universal Indoor Unit

Features:

- Easy and fast to disassemble.
- Allowing for easy maintenance.



1. Snap open the front, remove the screw, 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.

**ONLY 3 STEPS
TO DISASSEMBLE
FAST & EASY!**

Equipment Nomenclature Characteristics:

Do Not Mismatch: CPP 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
CZP12CA(O)	CHF12CA(I)	—	—	—
CZP09CD(O)	CHF09CD(I)	—	TPA-09	CPA-09
CZP12CD(O)	CHF12CD(I)	—	TPA-12	CPA-12
CZP18CD(O)	CHF18CD(I)	FPA-18	TPA-18	CPA-18
CZP24CD(O)	CHF24CD(I)	FPA-24	TIP-24	CPA-24
CZP36CD(O)	—	FPA-36	TIP-36	CPA-36
CZP48CD(O)	—	FPA-48	TIP-48	CPA-48
CZP60CD(O)	—	FPA-60	—	CPA-60

Nomenclature Platinum Series:

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



CHF Indoor Unit

CZP Outdoor Unit

Indoor unit model			CHF12CA(I)	CHF09CD(I)
Outdoor unit model			CZP12CA(O)	CZP09CD(O)
Capacity			12K	9K
Power supply	Rated	V, Ph, Hz	115, 1, 60	208/230,1,60
	Voltage range	V	103.5-126.5	187-253
Cooling	Rated Capacity (range)	Btu/h	12000(3500~13200)	9000(2500~11900)
	Input power	W	923	600
	Rated current	A	8	2.61
	EER	Btu/w	13	15
	SEER	Btu/w	23	25.5
	Heating at 47°F	Rated Capacity (range)	Btu/h	12000(5000~12200)
Heating at 47°F	Input power	W	1000	742
	Rated current	A	8.7	3.23
	COP	W/W	3.52	3.95
	HSPF4	HSPF4	Btu/w	11.6
	HSPF5	HSPF5	Btu/w	9
Heating at 17°F (AHRI)	Rated capacity	Btu/h	8500	9500
Heating at 5°F (-15°C)	Rated capacity	Btu/h	7100	8300
	COP	W/W	2	1.85
MINIMUM CIRCUIT AMPACITY (Outdoor unit)		A	19.0	13.0
MAX.FUSE (Outdoor unit)		A	25.0	15.0
Indoor air flow (Hi/Mi/Lo)		CFM	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	38/34/23
Indoor Unit	Dimension (WxDxH)	inch	31.30x8.86x11.61	31.30x8.86x11.61
	Packing (WxDxH)	inch	34.25x14.57x12.01	34.25x14.57x12.01
	Net/Gross weight	lbs.	22.93/29.10	22.71/28.88
Outdoor air flow (Max.)		CFM	794	1294
Outdoor noise level (Sound pressure)		dB(A)	54	53
Outdoor Unit	Dimension (WxDxH)	inch	30.12x11.93x21.85	30.12x11.93x21.85
	Packing (WxDxH)	inch	34.92x13.27x24.02	34.92x13.27x24.02
	Net/Gross weight	lbs.	66.80/72.31	63.71/69.00
Refrigerant	Type/Charged	oz	R410A/39.5	R410A/38.1
Refrigerant precharge		ft	25	25
Additional charge for each ft		oz/ft	0.16	0.16
Design pressure		PSIG	550/340	550/340
Refrigerant piping	Liquid/Gas side	inch	1/4" / 1/2"	1/4" / 3/8"
	Max. pipe length	ft	82.0	82.0
	Max. diff. in level	ft	32.8	32.8
Indoor Ambient temp.	Cooling	°F	60~90	
	Heating	°F	32~86	
Outdoor Ambient temp.	Cooling	°F	-13~122	
	Heating	°F	-13~75	

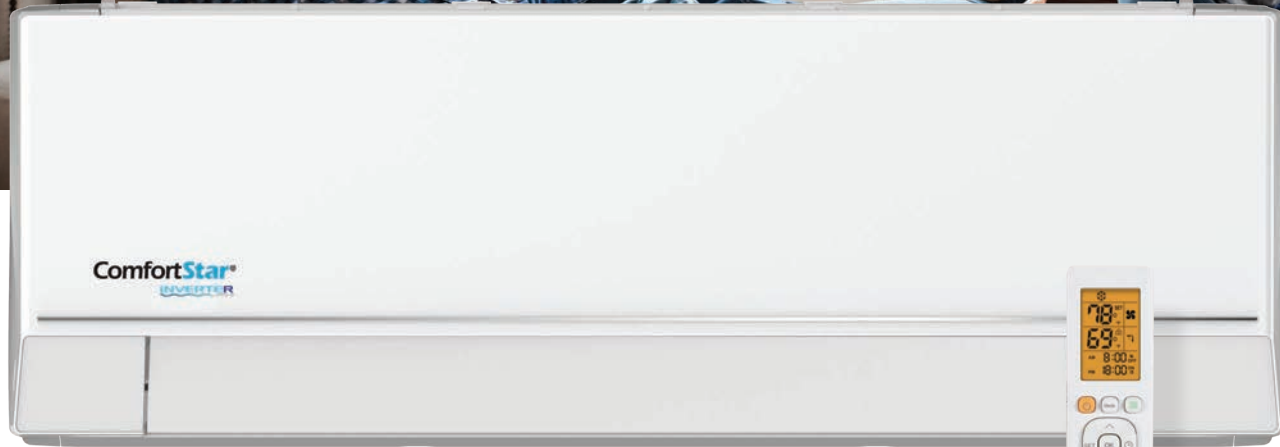
CHF AND CZP Series · Up to 25.5 SEER - Wi-Fi Compatible

-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

Indoor unit model			CHF12CD(I)	CHF18CD(I)	CHF24CD(I)
Outdoor unit model			CZP12CD(O)	CZP18CD(O)	CZP24CD(O)
Capacity			12K	18K	24K
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)	Btu/h	12000(3600~13300)	18000(2000~19300)	24000(9200~26800)
	Input power	W	880	1440	1714
	Rated current	A	3.82	6.45	8
	EER	Btu/w	13.7	12.5	14
	SEER	Btu/w	23.2	22.6	22
Heating at 47°F	Rated Capacity (range)	Btu/h	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
	HSPF4	HSPF4	12.2	13.2	12
	HSPF5	HSPF5	10.0	11	10
Heating at 17°F (AHRI)	Rated capacity	Btu/h	10000	15600	16500
Heating at 5°F (-15°C)	Rated capacity	Btu/h	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 (WxDxH)	inch	31.30x8.86x11.61	37.99x9.41x12.56	44.88x10.83x14.57
	Packing (WxDxH)	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
Outdoor air flow (Max.)		CFM	1294	1765	2235
Outdoor noise level (Sound pressure)		dB(A)	53.5	58	60
Outdoor Unit	Dimension (WxDxH)	inch	30.12x11.93x21.85	35.04x13.46x26.50	37.24x16.14x31.89
	Packing (WxDxH)	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
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/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. diff. in level	ft	32.8	66.0	82.0
Indoor Ambient temp.	Cooling	°F		60~90	
	Heating	°F		32~86	
Outdoor Ambient temp.	Cooling	°F		-13~122	
	Heating	°F		-13~75	



ALEGRIA HI-HEAT SERIES

SINGLE ZONE Heat Pump

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

Features:

- Wi-Fi Compatible (optional)
- Auto Swing
- Auto Defrost
- 12-Speed Indoor Fan Speeds
- 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



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)

Warranty Registration required except in California and Quebec, Canada.





UP TO
28.1 SEER
High Efficiency
Low Ambient
-22°F

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PLATINUM Quick Glance Features:



HI-HEAT Expanded Features:

- **Low Ambient:** Capable of producing comfortable heating and cooling to outdoor ambient temperatures as low as -22°F.
- **Advanced Defrost:** Special base plate design provides excellent performance.
- **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 depending on the type of protection the unit is in.
- **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 either left or right hand side of evaporator allows for flexible installation design.
- **3 Directional Airflow:** Air flow is directed so that it reaches more surface area including the corners of the room being conditioned.
- **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)
WiFi Control - Cool Link installed in unit (optional)



CHF Indoor Unit and Outdoor Units



Indoor unit model			CHF09CD(I)	CHF12CD(I)	CHF18CD(I)	CHF24CD(I)
Outdoor unit model			CHF09CD(O)	CHF12CD(O)	CHF18CD(O)	CHF24CD(O)
Capacity			9K	12K	18K	24K
Power supply	Rated	V, Ph, Hz	208/230,1,60	208/230,1,60	208/230,1,60	208/230,1,60
Cooling	Rated Capacity (range)	Btu/h	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	12.5	13
	SEER	Btu/w	28.1	25.5	21.5	21.5
Heating at 47°F	Rated Capacity (range)	Btu/h	11800(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
	HSPF4	Btu/w	13.0	13	13	12
	HSPF5	Btu/w	11.0	10.5	11	10
Heating at 17°F (AHRI)	Rated capacity	Btu/h	12000	12000	20270	19800
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
Outdoor Unit	Dimension(WxDxH)	inch	31.30x8.86x11.61	31.30x8.86x11.61	37.99x9.41x12.56	44.88x10.83x14.57
	Packing (WxDxH)	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	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 (WxDxH)	inch	31.69x12.99x21.81	31.69x12.99x21.81	35.04x13.46x26.50	37.24x16.14x31.89
	Packing (WxDxH)	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	Type/Charged	oz	R410A/41.62	R410A/41.62	R410A/65.2	R410A/91.7
Refrigerant precharge		ft	25	25	25	25
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. diff. in level	ft	32.8	32.8	66.0	82.0
Connection wiring			16AWG*4 Stranded, unshielded			
Indoor Ambient temperature	Cooling	°F	60-90			
	Heating	°F	32~81			
Outdoor Ambient temperature	Cooling	°F	-22~122			
	Heating	°F	-22~86			

ALEGRIA PLATINUM SERIES

SINGLE-ZONE · LIGHT COMMERCIAL SERIES

- Up to 25.5 SEER
- Single Zone Heat Pump
- -13°F Low Ambient Temperature



Warranty Registration required except in California and Quebec, Canada.

ALEGRIA PLATINUM LIGHT COMMERCIAL SERIES

CZP Series Light Commercial Condenser Single Zone Heat Pump

- 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

UP TO
25.5 SEER
High Efficiency
Low Ambient
-13°F



INVERTER



Warranty Registration required except in California and Quebec, Canada.



CHF Series

Indoor High Wall Mount



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

TPA/TIP Series

Indoor Cassette Type



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



ALEGRIA PLATINUM LIGHT COMMERCIAL SERIES



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)



CPA Series Indoor Fan Coil



- Compact Design
- Quiet Operation
- Wired Control (standard)
- Available Fresh Air Intake



INVERTER



ALEGRIA PLATINUM LIGHT COMMERCIAL SERIES



CZP Series

Light Commercial
Side Discharge Condensers



Outdoor unit model			CZP09CD(0)	CZP12CD(0)	CZP18CD(0)	CZP24CD(0)
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
Rated Input Current - 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.)		m3/h	2200	2200	3000	3800
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 (WxDxH)	inch	30.12x11.93x21.85	30.12x11.93x21.85	35.04x13.46x26.50	37.24x16.14x31.89
	Packing (WxDxH)	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. diff. 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.

CZP Series

Light Commercial Side Discharge Condensers



Outdoor unit model			CZP36CD(0)	CZP48CD(0)	CZP60CD(0)
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
Rated Input Current - Power Conversion Equipment		A	23.5	28.0	-
MINIMUM CIRCUIT AMPACITY (Outdoor unit)		A	30.0	36.5	36.0
MAX.FUSE (Outdoor unit)		A	45.0	50.0	50.0
Outdoor air flow (Max.)		m3/h	3600	7650	7500
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 (WxDxH)	inch	37.24x16.14x31.89	37.48x16.34x52.48	37.48x16.34x52.48
	Packing (WxDxH)	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/163
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" / 5/8"
	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.

CHF Series

Indoor High Wall Mount



Light Commercial Single Zone Combinations

Indoor unit model			CHF09CD(I)	CHF12CD(I)	CHF18CD(I)	CHF24CD(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)	Btu/h	9000 (2500~11900)	12000 (3600~13300)	18000 (2000~19300)	24000 (9200~26800)	30000 (7200~31600)	36000 (8300~37500)
			Heating at 47°F	Rated Capacity (range)	Btu/h	10000 (3400~13000)	12000 (4500~13500)	19000 (6200~21000)
MINIMUM CIRCUIT AMPACITY (Indoor unit)		A	3.0	3.0	3.0	3.0	3.0	3.0
MAX. FUSE (Indoor unit)		A	15.0	15.0	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	1193/911/646	1110/760/560
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	701.76/ 535.88/380.00	652.94/ 447.06/329.41
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	49.5/43.5/39.5	54/45/40
Indoor unit	Dimension (WxDxH)	inch	33.39x9.06x11.69	33.39x9.06x11.69	40.04x9.53x12.56	46.85x10.96x14.57	49.57x11.14x14.25	49.57x11.14x14.25
	Packing (WxDxH)	inch	36.22x14.57x12.32	36.22x14.57x12.32	43.11x15.75x12.91	50.39x17.91x14.17	52.76x17.72x15.16	52.76x17.72x15.16
	Net/Gross weight	lbs.	25.35/30.64	25.57/30.86	28.66/37.48	48.50/59.30	42.99/55.56	42.77/55.56
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"
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
	WiFi		Optional	Optional	Optional	Optional	Optional	Optional
Ambient 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.

TPA/TIP Series

Indoor Cassette Type



Light Commercial - Single Zone Combinations

Indoor unit model			TPA-09	TPA-12	TPA-18	TIP-24	TIP-36	TIP-48
Outdoor unit model			CZP09CD(O)	CZP12CD(O)	CZP18CD(O)	CZP24CD(O)	CZP36CD(O)	CZP48CD(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 Cap. (range)	Btu/h	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
	EER	Btu/w	13	14	12.5	12.5	9.0	9.5
	SEER	Btu/w	20	22	20.5	20.7	18.2	17.8
	Heating at 47 °F	Rated Cap. (range)	Btu/h	10000 (2230~11650)	12000 (1950~14600)	18500 (7700~18500)	25000 (10650~30000)	38000 (11200~38000)
Heating at 47 °F	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
	HSPF4	Btu/w	10.5	10.6	11.00	10.5	10.6	11.5
	HSPF5	Btu/w	9	9	9.00	8.5	8.5	8.8
Heating at 5°F	Rated capacity	Btu/h	8500	7400	9500	16000	20000	27000
	COP	W/W	2.04	1.89	1.75	2.12	1.9	1.8
MINIMUM CIRCUIT AMPACITY		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 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 (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. 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"
Connection wiring			16AWG*4 Stranded, unshielded					
Communication protocol between IDU and ODU			Current loop	Current loop	Current loop	Current loop	RS485	RS485
Thermostat type	Wireless Control		Standard	Standard	Standard	Standard	Standard	Standard
	Wired Control		Optional	Optional	Optional	Optional	Optional	Optional
	Program. W. Control		Optional	Optional	Optional	Optional	Optional	Optional
	WiFi		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.

FPA Series

Indoor Floor/Ceiling



Light Commercial - Single Zone Combinations

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)
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)	Btu/h	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
	EER	Btu/w	12.5	12.5	8	9.3	9.8
	SEER	Btu/w	21.5	20.0	17	18	18.0
Heating at 47°F	Rated Capacity (range)	Btu/h	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
	HSPF4	Btu/w	10.50	11.2	10	11	10.5
Heating at 5°F	Rated capacity	Btu/h	9700	17459	22000	28000	34000
	COP	W/W	1.80	2.10	1.75	1.75	1.9
MINIMUM CIRCUIT AMPACITY		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)		m3/h	932/825/715	1290/1204/1017	1762/1559/1084	2300/1900/1700	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	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 (WxDxH)	Dimension	inch	42.05x26.57x9.25	42.05x26.57x9.25	50.59x26.57x9.25	64.96x26.57x9.25	64.96x26.57x9.25
	Packing	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
Refrig. piping	Liquid/Gas side	inch	1/4" / 1/2"	3/8" / 5/8"	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	RS485
Room temp.	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.

CPA Series



Indoor Fan Coil



Light Commercial - Single Zone Combination

Indoor unit model			CPA-09	CPA-12	CPA-18	CPA-24	CPA-36DUB	CPA-48DUB	CPA-60DU
Outdoor unit model			CZP09CD(O)	CZP12CD(O)	CZP18CD(O)	CZP24CD(O)	CZP36CD(O)	CZP48CD(O)	CZP60CD(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
Cooling	Rated Capacity	Btu/h	9000 (2220~11600)	12000 (2100~13450)	18000 (5800~18000)	24000 (6100~28200)	36000 (5973~36000)	48000 (12077~48000)	57000 (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
	EER	Btu/w	13.5	12.5	12.5	12.6	9	9.2	10
	SEER	Btu/w	21	21.5	20.5	21.5	16.7	17.4	18
	Heating at 47°F	Rated Capacity	Btu/h	10000 (2240~13350)	12000 (1900~15000)	20000 (5000~20000)	24600 (11700~33000)	40000 (12765~40000)	50000 (11607~50000)
	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
	HSPF4	Btu/w	11.5	11.5	11	11.2	11.5	10.3	10
	HSPF5	Btu/w	9.2	9.5	9	9.5	9.5	8.8	8
Heating at 5 °F	Capacity	Btu/h	8499	7300	10500	15688	22000	32000	35000
	COP	W/W	2.38	1.92	2.00	2.07	1.75	1.75	2
MIN. CIRCUIT AMPACITY		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)		m3/h	600/480/300	600/480/300	900/765/630	1318.3/1178.2/739.3	1839/1551/1195	2088.3/1752.7/1214.9	3665/2906/2145
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
Eternal 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	55.12/33.78/17.32
	Packing	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 W.	lbs.	37.5/48.3	37.5/48.3	54/66	87/103	62x32x12	55.31x36.02x13.98	63.19/35.83/19.88
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" / 5/8"
Connection wiring		16AWG*4 Stranded, unshielded							
Communication protocol between IDU and ODU		Current loop	Current loop	Current loop	Current loop	RS485	RS485	RS485	RS485
Thermostat type	Wireless Control	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	Wired Control	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	Program Wiired Control	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
	WiFi	Optional	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.

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-SP

WiFi Smart Port

- Allows you to connect to all **2020 Series of CPA, TPA, FPA products with WiFi**



Part No. WiFi-US

COOL LINK WiFi Kit

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



Part No. AWC-7P

Wired 7-day Programmable Control

Remote Control Compatible.
Convenient and compatible.

Features:

- Daisy chain up to 16 Indoor Units.
- Transmission Indicator
- Temp °C/°F and Timer display
- Fan speed display
- Lock display
- Mode display
- ON/OFF display
- Child Lock function, prevents unauthorized settings. Saves energy consumption, especially in shops, restaurants and offices.



Part No. AWC-2

Simple Wired Non-Programmable Control Standard for CPA.

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

Features:

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



Part No.	Description	Standard	Field Option Models
ARC-88B	Remote Control	TPA, FPA, AHU-SG2	-
AWC-2	Simple Wired Control	CPA	CPG(I), CPP(I), CXH(I), CGS(I), CHF(I), TPA, TIP, FPA
AWC-7P	7-day programmable wired Control	-	CGS(I) + Adaptor board (AWC-7P-CGS) CHF (I) + Adaptor board (AWC-7P-CHF) CPA, FPA, TPA, TIP
WiFi-US	COOL LINK - Wifi Kit USB stick	-	CGS(I), CHF(I), TIP
WiFi-SP	Wifi Smart Port	-	2022 - CPA, TPA, FPA

ALEGRIA PLATINUM SERIES

FLEX-MOUNT MULTI-ZONE

- Up to 23.8 SEER
- Single Zone Heat Pump
- -13°F Low Ambient Temperature

Mix and match evaporator units depending on capacity, with individual zoning for up to 5 zones.



Warranty Registration required except in California and Quebec, Canada.

ALEGRIA PLATINUM FLEX-MOUNT MULTI-ZONE

ComfortStar®



ALEGRIA PLATINUM FLEX-MOUNT MULTI-ZONE

Heat or cool multiple living spaces independently with only 1 outdoor unit!

- Flexible design - allows for up to 5 indoor units.
- Choose from 5 different indoor evaporators - high-wall mount, cassette type, fan coil, multi-position AHU and floor/ceiling.
- Simple installation.
- All indoor units can be controlled individually.
- Connect 2 to 5 indoor units depending on capacity.
- Capacity up 54,000 BTU
- Energy Efficient - up to 23 SEER.

UP TO
23.8 SEER
High Efficiency
Low Ambient
-13°F

**NEW FACTORY INSTALLED LOW AMBIENT OPERATION
ALLOWS BOTH HEATING AND COOLING DOWN TO -13°F
OUTDOOR AMBIENT TEMPERATURE.**

FLEX-MOUNT MULTI-ZONE

2

DUAL ZONE

CMZ-18-2Z

Mix & Match

9,000-12,000 BTU/h



3

TRI ZONE

CMZ-27-3Z

Mix & Match

9,000-18,000 BTU/h



4

QUAD ZONE

CMZ-48-4Z

Mix & Match

9,000-24,000 BTU/h



5

FIVE ZONE

CMZ-54-5Z

Mix & Match

9,000-24,000 BTU/h



Heat Pump
INVERTER



2

**DUAL
ZONE**

CMZ-18-2Z

3

**TRI
ZONE**

CMZ-27-3Z

4

**QUAD
ZONE**

CMZ-48-4Z

5

**FIVE
ZONE**

CMZ-54-5Z
DUAL ZONE

More than 113+ combinations available

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

Features:

- Low Ambient (-13°F)
- Wi-Fi optional
- Bypass Mode
- Interactive display
- Self-Diagnosis
- 113+ 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/Ceiling
- Fan Coil
- AHU

113+

ALEGRIA PLATINUM FLEX-MOUNT MULTI-ZONE

CMZ Series

Flex Mount Non-Ducted - Outdoor Models
Heat Pump 18,000 - 48,000 Btu/h



Indoor Model No.			NON DUCT	NON DUCT	NON DUCT	NON DUCT
Outdoor unit model			CMZ-18-2Z	CMZ-27-3Z	CMZ-48-4Z	CMZ-54-5Z
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	Capacity	Btu/h	18000(5650~22000)	28000(9838~30438)	36000(8209~40555)	48000(19000~50000)
	Input	W	1355	2240	3125	3840
	Rated current	A	6.2	11	13.6	16.8
	EER	Btu/Btu	13.3	12.5	11.5	12.5
	SEER		22.5	23.8	23.0	22.4
Heating at 47°F	Capacity	Btu/h	19000(5050~24400)	28000(8218~31000)	37000(8008~44632)	48000(12500~52000)
	Input	W	1420	2200	3000	3910
	Rated current	A	6.3	10.5	13.0	17.1
	COP	W/W	3.92	3.73	3.61	3.6
	HSPF4		10.6	10.5	11.3	11.0
Heating at 5°F	Rated capacity	Btu/h	12400	15500	23959	27000
	COP	W/W	1.75	1.75	1.75	1.65
Input Current Power Conv. Equip (outdoor unit)		A	13.0	19.0	20.5	26.0
MINIMUM CIRCUIT AMPACITY (outdoor unit)		A	18.0	24.5	25.0	40.0
MAX. FUSE (outdoor unit)		A	25.0	30.0	40.0	60.0
Outdoor air flow	m3/h		3000	3620	3650	7650
	CFM		1764.71	2129.41	2147.06	4500.00
Outdoor noise level		dB(A)	58.5	61	63	64
Throttle type			Capillary +EXV	Capillary +EXV	Capillary +EXV	Capillary +EXV
Outdoor unit	Dimension (WxDxH)	inch	35.04x13.46x26.50	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48
	Packing (WxDxH)	inch	39.17x15.67x29.13	42.91x19.69x34.84	42.91x19.69x34.84	43.11x19.49x58.27
	Net/Gross weight	lbs.	100.31/108.69	139.77/150.57	169.09/181.44	225.53/256.62
	Type/Charged	oz	R410A/65.26	R410A/91.7	R410A/134.04	R410A/162
Refrigerant precharge (pipe length)	ft		49	74	98	123
	oz		0.161	0.161	0.161	0.161
Additional charge for each ft		oz	0.322	0.322	0.322	0.322
Design pressure		PSIG	550/340	550/340	550/340	550/340
Refrig. Piping	Liquid Side	inch	2 x 1/4"	3 x 1/4"	4 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"
	Max. length all rooms	ft	131	197	262	262
	Max. One Indoor Unit	ft	82	98	115	115
	H. Diff. in/out door	ft	49	49	49	49
H. Diff. indoor units		ft	33	33	33	33
Connection wiring			16AWG*4 Stranded, unshielded			
Outdoor Ambient	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.



CMZ Series

Flex Mount Ducted
Outdoor Models

Heat Pump 18,000 - 48,000 Btu/h

Indoor Model No.			DUCTED	DUCTED	DUCTED	DUCTED
Outdoor unit model			CMZ-18-2Z	CMZ-27-3Z	CMZ-48-4Z	CMZ-54-5Z
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	Capacity	Btu/h	18000(3850~22400)	28000(9277~30776)	36000(8789~40288)	49000(19400~51000)
	Input	W	1498	2485	3400	4850
	Rated current	A	6.7	11.5	14.8	21.5
	EER	Btu/Btu	12	11.2	11.0	10.1
	SEER		19.0	21	19.5	20.5
Heating at 47°F	Capacity	Btu/h	19000(5050~24400)	28000(8388~28869)	37000(6900~46624)	50000(15500~56000)
	Input	W	1465	2245	3012	4100
	Rated current	A	6.5	10.5	13.0	18.2
	COP	W/W	3.8	3.66	3.60	3.57
	HSPF4		10.8	10.2	10.7	11.5
	HSPF5		8.8	8.3	8.6	9.78
Heating at 5°F	Rated capacity	Btu/h	13000	15500	24000	29000
	COP	W/W	1.75	1.6	1.68	1.70
Input Current Power Conv. Equip (outdoor unit)		A	13.0	19.0	20.5	26.0
MINIMUM CIRCUIT AMPACITY (outdoor unit)		A	18.0	24.5	25.0	40.0
MAX. FUSE (outdoor unit)		A	25.0	30.0	40.0	60.0
Outdoor air flow	m3/h		3000	3620	3650	7650
	CFM		1764.71	2129.41	2147.06	4500.00
Outdoor noise level		dB(A)	58.5	61	63	64
Throttle type			Capillary +EXV	Capillary +EXV	Capillary +EXV	Capillary +EXV
Outdoor unit	Dimension (WxDxH)	inch	35.04x13.46x26.50	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48
	Packing (WxDxH)	inch	39.17x15.67x29.13	42.91x19.69x34.84	42.91x19.69x34.84	43.11x19.49x58.27
	Net/Gross weight	lbs.	100.31/108.69	139.77/150.57	169.09/181.44	225.53/256.62
	Type/Charged	oz	R410A/65.26	R410A/91.7	R410A/134.04	R410A/162
Refrigerant precharge (pipe length)	ft		49	74	98	123
	oz		0.161	0.161	0.161	0.161
Additional charge for each ft		oz	0.322	0.322	0.322	0.322
Design pressure		PSIG	550/340	550/340	550/340	550/340
Refrig. Piping	Liquid Side	inch	2 x 1/4"	3 x 1/4"	4 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"
	Max. length all rooms	ft	131	197	262	262
	Max. One Indoor Unit	ft	82	98	115	115
	H. Diff. in/out door	ft	49	49	49	49
	H. Diff. indoor units	ft	33	33	33	33
Connection wiring			16AWG*4 Stranded, unshielded			
Outdoor Ambient	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.

CHF Series

Flex-Mount Indoor High Wall



For proper wiring sizes always refer to local codes.

Indoor unit model			CHF09CD(I)	CHF12CD(I)	CHF18CD(I)	CHF24CD(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
Cooling	Rated Capacity (range)		Btu/h	9000 (2500~11900)	12000 (3600~13300)	18000 (2000~19300)	24000 (9200~26800)	30000 (7200~31600)
	Heating at 47°F		Rated Capacity (range)		Btu/h	10000 (3400~13000)	12000 (4500~13500)	19000 (6200~21000)
MINIMUM CIRCUIT AMPACITY (Indoor unit)		A	3.0	3.0	3.0	3.0	3.0	3.0
MAX. FUSE (Indoor unit)		A	15.0	15.0	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	1193/911/646	1110/760/560
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	701.76/ 535.88/380.00	652.94/ 447.06/329.41
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	49.5/43.5/39.5	54/45/40
Indoor unit	Dimension (WxDxH)		inch	33.39x9.06x11.69	33.39x9.06x11.69	40.04x9.53x12.56	46.85x10.96x14.57	49.57x11.14x14.25
	Packing (WxDxH)		inch	36.22x14.57x12.32	36.22x14.57x12.32	43.11x15.75x12.91	50.39x17.91x14.17	52.76x17.72x15.16
	Net/Gross weight		lbs.	25.35/30.64	25.57/30.86	28.66/37.48	48.50/59.30	42.99/55.56
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"
	Connection wiring/ Comm between IDU and ODU			16AWG*4 Stranded, unshielded				
Thermostat type	Wireless remote controller		Standard	Standard	Standard	Standard	Standard	Standard
	Wired/programable Controller/Wifi		Optional	Optional	Optional	Optional	Optional	Optional
Ambient 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

TPA/TIP Series

Flex-Mount Indoor Cassette Type

Heat Pump 9,000 - 24,000 Btu/h



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			
Cooling	Rated Capacity (range)		Btu/h	9000(2970~10500)	12000(2800~14100)	16000(5600~16000)
	Heating at 47 °F		Rated Capacity (range)		Btu/h	10000(2230~11650)
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
	Packing (WxDxH)		inch	26.06x26.06x12.48	26.06x26.06x12.48	26.06x26.06x12.48
	Net/Gross weight		lbs.	31.97/38.14	35.27/41.01	35.71/46.96
Panel	Dimension (WxDxH)		inch	25.47x25.47x1.97	25.47x25.47x1.97	25.47x25.47x1.97
	Packing (WxDxH)		inch	28.15x28.15x4.84	28.15x28.15x4.84	28.15x28.15x4.84
	Net/Gross weight		lbs.	5.52/9.92	5.52/9.92	5.52/9.92
Refrig. piping	Liquid side/Gas side		inch	1/4" / 3/8"	1/4" / 1/2"	1/4" / 1/2"
	Connection wiring			16AWG*4 Stranded, unshielded		
Thermostat type	Wireless remote Control		Standard	Standard	Standard	Standard
	WiredProgrammable Control, Wifi		Optional	Optional	Optional	Optional
Room 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.

FPA Series

Flex-Mount Indoor Floor/Ceiling



For proper wiring sizes always refer to local codes.

Indoor unit model			FPA-18	FPA-24
Power supply	Rated	V, Ph, Hz	208/230, 1, 60	208/230, 1, 60
	Voltage range		187-253	187-253
Cooling	Rated Capacity (range)		18000(6200~18000)	24000(7700~25500)
Heating at 47°F	Rated Capacity (range)		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)		42.05x26.57x9.25	42.05x26.57x9.25
	Packing (WxDxH)		45.08x29.72x12.52	45.08x29.72x12.52
	Net/Gross weight		57.10/68.34	60.63/72.09
Refrigerant piping	Liquid side/Gas side		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
	WiFi		Optional	Optional
Room Temp.	Cooling	°F	60~90	60~90
	Heating	°F	32~86	32~86

CPA Series

Flex-Mount Indoor Fan Coil



Indoor Type			Ducted			
Indoor unit model			CPA-09	CPA-12	CPA-18	CPA-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		187-253	187-253	187-253	187-253
Cooling	Rated Capacity (range)		9000(2220~11600)	12000(2100~13450)	18000(5800~18000)	24000(6100~28200)
Heating at 47°F	Rated Capacity (range)		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)		27.56x17.72x7.87	27.56x17.72x7.87	34.65x28.53x8.27	43x30x10
	Packing (WxDxH)		33.86x21.26x10.83	33.86x21.26x10.83	42.13x28.53x10.63	51x32x12
	Net/Gross Weight		37.5/48.3	37.5/48.3	54/66	87/103
Refrig. Pipping	Liquid Gas Side		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
	Liquid side/Gas side		Standard	Standard	Standard	Standard
	WiFi		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.

AHU Series

Flex-Mount Indoor/Outdoor Heat Pump



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)	Btu/h	18000 (5300~18700)	24000 (7400~26000)	30000 (9400~33000)	36000 (7600~38800)
	Rated Capacity (range)	Btu/h	18000 (5600~18700)	26000 (5600~30000)	31000 (12200~32000)	36000 (6000~36400)
Heating	Rated Capacity (range)	Btu/h	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	
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.

Controls

Part No. ARC-88B Wireless Remote Control

Hi-Wall, Cassette Floor/Ceiling (standard)
Ducted (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-SP WiFi Smart Port

- Allows you to connect to all **2020 Series of CPA, TPA, FPA products with WiFi**



Part No. AWC-7P Wired 7-day Programmable Control

Part No. AWC-7A For AHU units

Remote Control Compatible.
Convenient and compatible.

Features:

- Daisy chain up to 16 Indoor Units.
- Transmission Indicator
- Temp °C/°F and Timer display
- Fan speed display
- Lock display
- Mode display
- ON/OFF display
- Child Lock function, prevents unauthorized settings. Saves energy consumption, especially in shops, restaurants and offices.



Part No. WiFi-US COOL KIT WiFi Kit

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





Flex-Mount Multi-Zone Selection Chart



Outdoor Unit	CHF/CGS	Cassette	Floor Ceiling	Ducted	AHU
CM2-18-2Z	CHF09CD(I) CHF12CD(I)	TPA-09 TPA-12	—	CPA-09B CPA-12B	—
CM3-27-3Z	CHF09CD(I) CHF12CD(I) CHF18CD(I) CHF24CD(I)	TPA-09 TPA-12 TPA-18	FPA-18	CPA-09B CPA-12B CPA-18B	AHU18-M
CM4-48-4Z	CHF09CD(I) CHF12CD(I) CHF18CD(I) CHF24CD(I)	TPA-09 TPA-12 TPA-18 TIP-24	FPA-18 FPA-24	CPA-09B CPA-12B CPA-18B CPA-24B	AHU18-M AHU24-M
CM5-54-5Z	CHF09CD(I) CHF12CD(I) CHF18CD(I) CHF24CD(I) CGS30CD(I) CGS36CD(I)	TPA-09 TPA-12 TPA-18 TIP-24	FPA-18 FPA-24	CPA-09B CPA-12B CPA-18B CPA-24B	AHU18-M AHU24-M AHU30-M AHU36-M

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+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+30	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+36	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	
	30+30	9+12+24	12+12+12	18+18+18	9+9+12+12	9+12+12+24	12+12+18+18		
		9+12+30	12+12+18	18+18+24	9+9+12+18				
		9+12+36	12+12+24						

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 evidently during heating mode.

Flex-Mount Multi-Zone Table of Efficiency Regular models	Outdoor Unit	Non Ducted/Ducted	SEER	EER	HSPF	
	CMZ-18-2Z	Non Ducted		22.5	13.3	10.6
		Ducted		19	12	10.8
		Mix		20.75	12.65	10.7
	CMZ-27-3Z	Non Ducted		23.8	12.5	10.5
		Ducted		21	11.2	10.2
		Mix		22.4	11.85	10.35
	CMZ-48-4Z	Non Ducted		23.0	11.5	11.3
		Ducted		19.5	11.0	10.7
		Mix		21.25	11.25	11
	CMZ-54-5Z	Non Ducted		22.4	12.5	11
		Ducted		20.5	10.1	11.5
		Mix		21.45	11.3	11.25

ALEGRIA HI-HEAT SERIES

SINGLE-ZONE · LIGHT COMMERCIAL SYSTEMS

- Up to 28.1 SEER
- Single Zone Heat Pump
- -22°F Low Ambient Temperature



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-7P

Wired 7-day Programmable Control

Part No. AWC-7A

For AHU units

Remote Control Compatible.
Convenient and compatible.

Features:

- Daisy chain up to 16 Indoor Units.
- Transmission Indicator
- Temp °C/°F and Timer display
- Fan speed display
- Lock display
- Mode display
- ON/OFF display
- Child Lock function, prevents unauthorized settings. Saves energy consumption, especially in shops, restaurants and offices.



Part No. AWC-2

Simple Wired Non-Programmable Control Standard for CPA.

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

Features:

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



ALEGRIA HI-HEAT LIGHT COMMERCIAL SERIES

ComfortStar®



CHF Series

Hi-Heat Light Commercial
Side Discharge Condensers

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
Communication protocol IDU and ODU			Current loop	Current loop	Current loop	Current loop	RS485	RS485
Rated Input Current 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
MAX.FUSE (Outdoor unit)		A	15.0	15.0	25.0	35.0	50.0	50.0
Outdoor air flow (Max.)		m3/h	2250	2250	3000	3800	7650	7650
Outdoor air flow (Max.)		CFM	1323.5	1323.5	1764.7	2235.3	4500.00	4500.00
Outdoor noise level (Sound pressure)		dB(A)	54.5	56	59	62	63.0	65
Throttle type			Capillary +EXV	Capillary +EXV	Capillary +EXV	Capillary +EXV	Capillary +EXV	Capillary +EXV
Outdoor unit (WxDxH)	Dimension	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
	Packing	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
	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
Refrig.	Type/Charged	oz	R410A/41.62	R410A/41.62	R410A/65.2	R410A/91.7	R410A/148	R410A/148
Refrigerant precharge		ft	25	25	25	25	25	25
Additional charge for each ft		oz	0.16	0.16	0.16	0.32	0.32	0.32
Design pressure		PSIG	550/340	550/340	550/340	550/340	550/340	550/340
Refrigerant 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"
	Max. pipe length	ft	98	98	98	164	213	213
	Max. diff. in level	ft	66	66	66	82	98	98
Ambient temp.	Cooling	°F	-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

For proper wiring sizes always refer to local codes.

CHF Series



Hi-Heat Indoor High Wall Mount



Light Commercial - Single Zone Combinations

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)	Btu/h	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
	SEER	Btu/w	28.1	25.5	21.5	21.5
Heating at 47°F	Rated Capacity (range)	Btu/h	11800(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	13.0	13.0	13.0	12.0
	HSPF5	Btu/w	11.0	10.5	11.0	10.0
Heating at 5°F	Rated capacity	Btu/h	10500	12000	18000	25400
	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	38/33.5/23.5	46/42/24	46/39/34
Indoor unit (WxDxH)	Dimension	inch	33.39x9.06x11.69	33.39x9.06x11.69	40.04x9.53x12.56	46.85x10.96x14.57
	Packing	inch	36.22x14.57x12.32	36.22x14.57x12.32	43.11x15.75x12.91	50.39x17.91x14.17
	Net/Gross weight	lbs.	25.35/30.64	25.57/30.86	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.

TPA/TIP Series

Hi-Heat Indoor Cassette Type

Controls



AWC-7P
(optional)



AWC-2
(optional)



ARC-88C
(included)



Light Commercial - Single Zone Combinations

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	Btu/h	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
	SEER	Btu/w	20.5	21.5	20.0	20.2	19	16.5
Heating at 47°F	Rated Capacity-range	Btu/h	10000(2270~12500)	12000(2000~15300)	18000(8700~21000)	25000(111840~27000)	39000(17600~47000)	51000(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	Btu/h	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
	WiFi		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.

FPA Series

Hi-Heat Indoor Floor/Ceiling



Light Commercial - Single Zone Combinations

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)	Btu/h	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
	SEER	Btu/w	20.2	20.2	17.5	17
Heating at 47°F	Rated Capacity (range)	Btu/h	18000(8600~21500)	24600(12500~30500)	39000(11501~45750)	50000(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	Btu/h	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.

CPA Series

Hi-Heat High Wall Mount



Controls

AWC-7P
(optional)



AWC-2
(included)

Light Commercial - Single Zone Combinations

Indoor unit model			CPA-09	CPA-12	CPA-18	CPA-24	CPA-36DUB	CPA-48DUB
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)	Btu/h	9000(2400-12500)	12000(2250-14400)	16500(6500-18800)	24000(6500-27800)	36000(9769-12261)	48000(10314-53156)
	Input power	W	643	923	1320	1920	3950	5770
	Rated current	A	2.94	4.22	8.50	8.52	17.5	24.22
	EER	Btu/w	14	13	12.5	12.5	9.0	8.7
	SEER	Btu/w	23	21.5	19.6	20.6	17.5	16
Heating at 47°F	Rated Capacity (range)	Btu/h	10000 (1700-15600)	1200(1800-16300)	1900(8900-22000)	24600 (12200-32200)	40000 (12704-15355)	48000 (11561-63678)
	Input power	W	810	1000	1900	1920	3700	4610
	Rated current	A	3.71	4.58	11.50	8.19	16.9	19.30
	COP	W/W	3.62	3.52	2.93	3.66	3.17	3.05
	HSPF4	Btu/w	12	11.5	11.0	12.6	11.5	11.1
Heating at 5°F	HSPF5	Btu/w	10	9.5	9.0	10.7	10	9.7
	Capacity	Btu/h	9900	12400	17400	24600	36000	48000
	COP	W/W	1.78	1.87	1.75	2.01	1.75	1.9
Rated Input Current Power Conversion Equip.		A	1.27	1.37	1.30	1.70	2.45	2.50
MIN. CIRCUIT AMPACITY (Indoor unit)		A	3.0	3.0	3.0	3.0	15.0	5.0
MAX. FUSE (Indoor unit)		A	15.00	15.00	15.00	15.0	15.0	15.0
Indoor air flow (Hi/Mi/Lo)		m3/h	600/480/300	600/480/300	900/765/630	1318.3/1178.2/739.3	1839/1551/1195	2088.3/1752.7/1214.9
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
Indoor noise level (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
Eeternal Static Pres- sure (ESP)	Rated	Pa	25	25	25	25	37	50
		In. wc.	0.1	0.1	0.1	0.1	0.15	0.2
	Range	Pa	0-40	0-40	0-100	0-160	0-160	0-160
		In. wc.	0-0.16	0-0.16	0-0.40	0-0.64	0-0.64	0-0.64
Indoor unit (WxDxH)	Dimension	inch	27.56x17.72x7.87	27.56x17.72x7.87	34.65x28.53x8.27	43x30x10	54x30x10	47.24x34.41x11.81
	Packing	inch	33.86x21.26x10.83	33.86x21.26x10.83	42.13x28.53x10.63	51x32x12	62x32x12	55.31x36.02x13.98
	Net/Gross weight	lbs.	37.5/48.3	37.5/48.3	54/66	87/103	106/122	120/142
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"
Connection wiring		16AWG*4 Stranded, unshielded						
Communication protocol between IDU and ODU			Current loop	Current loop	Current loop	Current loop	RS485	RS485
Thermostat type	Wireless Control		Optional	Optional	Optional	Optional	Optional	Optional
	Wired Control		Standard	Standard	Standard	Standard	Standard	Standard
	Program. wired Control		Optional	Optional	Optional	Optional	Optional	Optional
	WiFi		Optional	Optional	Optional	Optional	Optional	Optional
Room 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.

HI-HEAT FLEX-MOUNT MULTI-ZONE

- Up to 22.5 SEER
- Single Zone Heat Pump
- -22°F Low Ambient Temperature
- Flexible design - up to 5 indoor units
- Choose from 5 different indoor evaporators
- Simple installation
- All indoor units can be controlled individually
- Capacity up 48,000 BTU



Warranty Registration required except in California and Quebec, Canada.

**UP TO
22.5 SEER**
High Efficiency
Low Ambient
-22°F

Hi-Heat Flex-Mount Multi-Zone Selection Chart



Outdoor Unit	CHF/CGS	Cassette	Floor Ceiling	Ducted	AHU
CVH-18-2SH	CHF09CD(I) CHF12CD(I)	TPA-09 TPA-12	—	CPA-09B CPA-12B	—
CVH-27-3SH	CHF09CD(I) CHF12CD(I) CHF18CD(I) CHF24CD(I)	TPA-09 TPA-12 TPA-18	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 TIP-24	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) CGS30CD(I) CGS36CD(I)	TPA-09 TPA-12 TPA-18 TIP-24	FPA-18 FPA-24	CPA-09B CPA-12B CPA-18B CPA-24B	AHU18-M AHU24-M AHU30-M AHU36-M

HI-HEAT FLEX-MOUNT MULTI-ZONE

2

DUAL ZONE

CVH-18-2SH

Mix & Match

9,000-18,000 BTU/h

3

TRI ZONE

CVH-27-3SH

Mix & Match

9,000-24,000 BTU/h

4

QUAD ZONE

CVH-36-4SH

Mix & Match

9,000-24,000 BTU/h

5

FIVE ZONE

CVH-48-5SH

Mix & Match

9,000-36,000 BTU/h



Mix and match indoor units up to 5 zones, providing you with total flexibility.

Heat Pump
INVERTER



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	18+18	9+9+18	

QUAD ZONE CONDENSER CVH-36-4SH

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	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 CVH-48-5SH (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+30	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+36	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	
	30+30	9+12+24	12+12+12	18+18+18	9+9+12+12	9+12+12+24	12+12+18+18		
		9+12+30	12+12+18	18+18+24	9+9+12+18				
		9+12+36	12+12+24						

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 evidently during heating mode.

HI-HEAT Flex-Mount Multi-Zone • Table of Efficiency

Outdoor Unit	Non Ducted/ Ducted	SEER	EER	HSPF
CVH-18-2SH	Non Ducted	22	12.5	10.2
	Ducted	19	11.5	9.8
	Mix	20.5	12	10
CVH-27-3SH	Non Ducted	22.5	12.5	11.3
	Ducted	20.0	11.5	10.1
	Mix	21.25	12	10.7

Outdoor Unit	Non Ducted/ Ducted	SEER	EER	HSPF
CVH-36-4SH	Non Ducted	21.8	13.6	11
	Ducted	19.0	11.3	11
	Mix	20.4	12.45	11
CVH-48-5SH	Non Ducted	21.5	11.6	11.0
	Ducted	20.2	11.4	10.5
	Mix	20.85	11.5	10.75

ALEGRIA HI-HEAT LIGHT COMMERCIAL SERIES



CVH Series - Hi-Heat



Flex Mount Non-Ducted - Outdoor Models
Heat Pump 18,000 - 48,000 Btu/h

Indoor unit type			Non-ducted	Non-ducted	Non-ducted	Non-ducted
Outdoor unit model			CVH-18-2SH	CVH-27-3SH	CVH-36-4SH	CVH-48-5SH
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	Capacity	Btu/h	19000(5500~25000)	28000(7995~32826)	36000(17900~42000)	48000(19300~51000)
	Input	W	1520	2240	2650	4150
	Rated current	A	9.1	12.4	11.8	18.0
	EER	Btu/Btu	12.5	12.5	13.6	11.6
	SEER		22	22.5	21.8	21.5
	Heating at 47°F	Capacity	Btu/h	20000(8100~29700)	28000(5035~38712)	36500(12500~49000)
	Input	W	1725	2240	2780	4000
	Rated current	A	9.4	10.5	12.2	17.8
	COP	W/W	3.40	3.66	3.85	3.59
	HSPF4		10.2	11.3	11.0	11.0
	HSPF5		8.7	9.0	9.0	9.0
Heating at 5°F	Rated capacity	Btu/h	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
MAX. FUSE (outdoor unit)		A	25.0	40.0	60.0	50.0
Outdoor air flow		m3/h	3620	3650	7650	7650
Outdoor air flow		CFM	2129.41	2147.06	4500.00	4500.00
Outdoor noise level		dB(A)	61	63	63	65
Throttle type			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
	Packing (WxDxH)	inch	42.91x19.69x34.84	42.91x19.69x34.84	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
Refrigerant	Type/Charged	oz	R410A/91.7	R410A/134.04	R410A/162	R410A/162
Refrig. precharge(Total pipe length)		ft	49	74	98	123
Additional charge for each ft	(1/4") liquid pipe	oz	0.161	0.161	0.161	0.161
	(3/8") liquid pipe	oz	0.322	0.322	0.322	0.322
Design pressure		PSIG	550/340	550/340	550/340	550/340
Refrigerant piping Max. Length Max. Height	Liquid side	inch	2 x 1/4"	3 x 1/4"	4 x 1/4"	5 x 1/4"
	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"
	length for all rooms	ft	131	197	262	262
	length for one indoor unit	ft	82	98	115	115
	height diff. between in/outdoor unit	ft	49	49	49	49
	height diff. between indoor units	ft	33	33	33	33
Connection wiring			16AWG*4 Stranded, unshielded			
Communication protocol between IDU and ODU			Current loop	Current loop	Current loop	Current loop
Outdoor amb. tempt.	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.



CVH Series- Hi-Heat

Flex Mount Ducted - Outdoor Models
Heat Pump 18,000 - 48,000 Btu/h



Indoor unit type			Ducted	Ducted	Ducted	Ducted
Outdoor unit model			CVH-18-2SH	CVH-27-3SH	CVH-36-4SH	CVH-48-5SH
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	Capacity	Btu/h	18500(5200~23000)	28000(7683~33512)	36000(17400~44000)	48000(18500~51000)
	Input	W	1640	2435	3180	4200
	Rated current	A	9.5	14.0	14.2	18.2
	EER	Btu/Btu	11.5	11.5	11.3	11.4
	SEER		19	20.0	19.0	20.2
	Heating at 47°F	Capacity	Btu/h	19000(6400~28000)	28000(4508~38388)	37000(13300~47000)
	Input	W	1600	2331	2900	3800
	Rated current	A	9.0	11.0	12.9	17.2
	COP	W/W	3.48	3.52	3.74	3.86
	HSPF4		9.8	10.1	11.0	10.5
	HSPF5		7.9	8.0	9.3	8.2
Heating at 5°F	Rated capacity	Btu/h	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
	MAX. FUSE (outdoor unit)	A	25.0	40.0	60.0	50.0
	Outdoor air flow	m3/h	3620	3650	7650	7650
	Outdoor air flow	CFM	2129.41	2147.06	4500.00	4500.00
	Outdoor noise level	dB(A)	61	63	63	65
	Throttle type		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
	Packing (WxDxH)	inch	42.91x19.69x34.84	42.91x19.69x34.84	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
Refrigerant	Type/Charged	oz	R410A/91.7	R410A/134.04	R410A/162	R410A/162
	Refrig. precharge(Total pipe length)	ft	49	74	98	123
Additional charge for each ft	(1/4") liquid pipe	oz	0.161	0.161	0.161	0.161
	(3/8") liquid pipe	oz	0.322	0.322	0.322	0.322
	Design pressure	PSIG	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"
	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"
	length for all rooms	ft	131	197	262	262
	length for one indoor unit	ft	82	98	115	115
	height diff. between in/outdoor unit	ft	49	49	49	49
	height diff. between indoor units	ft	33	33	33	33
	Connection wiring		16AWG*4 Stranded, unshielded			
	Communication protocol between IDU and ODU		Current loop	Current loop	Current loop	Current loop
Outdoor amb. tempt.	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.

CHF Series

Hi-Heat

Flex-Mount Indoor High Wall



Controls



AWC-7P
(optional)



AWC-2
(optional)



ARC-88C
(included)

Light Commercial - Single Zone Combinations

Indoor unit model			CHF09CD(I)	CHF12CD(I)	CHF18CD(I)	CHF24CD(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		
Cooling	Rated Capacity (range)		Btu/h	9000 (2500~11900)	12000 (3600~13300)	18000 (2000~19300)	24000 (9200~26800)	30000 (7200~31600)	36000 (8300~37500)	
	Heating at 47°F		Rated Capacity (range)		Btu/h	10000 (3400~13000)	12000 (4500~13500)	19000 (6200~21000)	25000 (10350~27000)	30000 (11700~32000)
MINIMUM CIRCUIT AMPACITY (Indoor unit)		A	3.0	3.0	3.0	3.0	3.0	3.0		
MAX. FUSE (Indoor unit)		A	15.0	15.0	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	1193/911/646	1110/760/560		
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	701.76/ 535.88/380.00	652.94/ 447.06/329.41		
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	49.5/43.5/39.5	54/45/40		
Indoor unit	Dimension(WxDxH)		inch	33.39x9.06x11.69	33.39x9.06x11.69	40.04x9.53x12.56	46.85x10.96x14.57	49.57x11.14x14.25	49.57x11.14x14.25	
	Packing (WxDxH)		inch	36.22x14.57x12.32	36.22x14.57x12.32	43.11x15.75x12.91	50.39x17.91x14.17	52.76x17.72x15.16	52.76x17.72x15.16	
	Net/Gross weight		lbs.	25.35/30.64	25.57/30.86	28.66/37.48	48.50/59.30	42.99/55.56	42.77/55.56	
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"	
	Connection wiring Communication protocol between IDU and ODU		16AWG*4 Stranded, unshielded							
Thermostat type	Wireless remote control		Standard	Standard	Standard	Standard	Standard	Standard		
	Wired Control		Optional	Optional	Optional	Optional	Optional	Optional		
	Programmable wired control		Optional	Optional	Optional	Optional	Optional	Optional		
	WiFi		Optional	Optional	Optional	Optional	Optional	Optional		
Ambient 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.

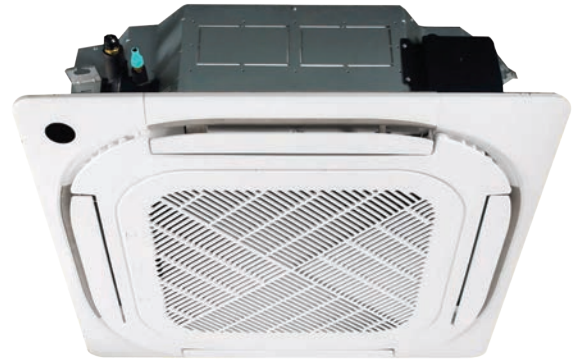
TPA/TIP Series - Hi-Heat

Flex-Mount Indoor Cassette Type

Heat Pump 9,000 - 24,000 Btu/h



ComfortStar®



Controls



AWC-7P
(optional)



AWC-2
(optional)



ARC-88C
(included)

Light Commercial - Single Zone Combinations

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)		Btu/h	9000(2970~10500)	12000(2800~14100)	16000(5600~16000)	24000(8130~26272)
Heating at 47 °F	Rated Capacity (range)		Btu/h	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"
Connection wiring			16AWG*4 Stranded, unshielded				
Thermostat type	Wireless remote control		Standard	Standard	Standard	Standard	
	Wired/Programmable Control, Wifi		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.

FPA Series



Hi-Heat

Flex-Mount Indoor Floor/Ceiling



AWC-7P (optional)



AWC-2 (optional)



ARC-88C (included)



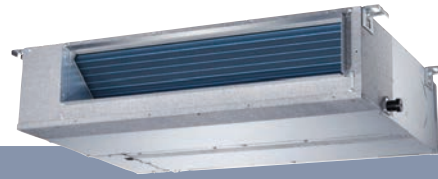
For proper wiring sizes always refer to local codes.

Indoor unit model			FPA-18	FPA-24
Power supply	Rated	V, Ph, Hz	208/230, 1, 60	208/230, 1, 60
	Voltage range		187-253	187-253
Cooling	Rated Capacity (range)		18000(6200-18000)	24000(7700-25500)
Heating at 47°F	Rated Capacity (range)		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)		42.05x26.57x9.25	42.05x26.57x9.25
	Packing (WxDxH)		45.08x29.72x12.52	45.08x29.72x12.52
	Net/Gross weight		lbs.	57.10/68.34
Refrigerant piping	Liquid side/Gas side		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
	WiFi		Optional	Optional
Room Temp.	Cooling	°F	60~90	60~90
	Heating	°F	32~86	32~86

CPA Series- Hi-Heat



Flex-Mount Indoor Fan Coil



Indoor Type			Ducted			
Indoor unit model			CPA-09	CPA-12	CPA-18	CPA-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		187-253	187-253	187-253	187-253
Cooling	Rated Capacity (range)		9000(2220-11600)	12000(2100-13450)	18000(5800-18000)	24000(6100-28200)
Heating at 47°F	Rated Capacity (range)		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
External 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)		27.56x17.72x7.87	27.56x17.72x7.87	34.65x28.53x8.27	43x30x10
	Packing (WxDxH)		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
Refrig. Pipping	Liquid Gas Side		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
	WiFi		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.

AHU Series Hi-Heat



Flex-Mount Indoor/Outdoor Heat Pump



Light Commercial - Single Zone Combinations

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)	Btu/h	18000 (5300~18700)	24000 (7400~26000)	30000 (9400~33000)	36000 (7600~38800)
	Rated Capacity (range)	Btu/h	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
Throttle type		/	NO	NO	NO	NO
Indoor Unit	Dimension(W*D*H)	inch	21*17-1/2*45	21*17-1/2*45	21.*21*49	21.*21*49
	Packing (W*D*H)	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.

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)	CPPI2CA(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-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	
	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-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	

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)	SEER	EER	HSPF
CGS09CA(I)	CGS09CA(O)	25	0.16	3/4"	21.5	12.5	10.3
CGS12CA(I)	CGS12CA(O)	25	0.16	3/4"	20	10.3	10.8
CGS09CD(I)	CGS09CD(O)	25	0.16	3/4"	21.5	12.6	10.0
CGS12CD(I)	CGS12CD(O)	25	0.16	3/4"	20.5	10.8	10.7
CGS18CD(I)	CGS18CD(O)	25	0.16	3/4"	19.5	11	10
CGS24CD(I)	CGS24CD(O)	25	0.32	3/4"	18.5	9.5	10.2
CGS30CD(I)	CGS30CD(O)	25	0.32	3/4"	20	12.2	10
CGS36CD(I)	CGS36CD(O)	25	0.32	3/4"	18	9.5	12

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)	SEER	EER	HSPF
CHF12CA(I)	CZP12CA(O)	25	0.16	3/4"	23	13	11.6
CHF09CD(I)	CZP09CD(O)	25	0.16	3/4"	25.5	15	12.2
CHF12CD(I)	CZP12CD(O)	25	0.16	3/4"	23.2	13.7	13.2
CHF18CD(I)	CZP18CD(O)	25	0.16	3/4"	22.6	12.5	12
CHF24CD(I)	CZP24CD(O)	25	0.32	3/4"	22	14	12

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)	SEER (non ducted)	EER (non ducted)	HSPF (non ducted)	SEER (ducted)
9-24K: CHF, FPA, TPA, CPA, 18-36K:AHU	CMZ-18-2Z	25*2	0.16	refer IDU	22.5	13.3	10.6	19
	CMZ-27-3Z	25*3	0.16	refer IDU	23.8	12.5	10.5	21
	CMZ-48-4Z	25*4	0.16	refer IDU	23.0	11.5	11.3	19.5
	CMZ-54-5Z	25*5	0.16	refer IDU	22.4	12.5	11	20.5
	CVH-18-2SH	25*2	0.16	refer IDU	22	12.5	10.2	19
	CVH-27-3SH	25*3	0.16	refer IDU	22.5	12.5	11.3	20.0
	CVH-36-4SH	25*4	0.16	refer IDU	21.8	13.6	11	19.0
	CVH-48-5SH	25*4	0.16	refer IDU	21.5	11.6	11.0	20.2

Specs at a Glance

FPA - FLOOR-CEILING

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

TPA/TIP - CASSETTE

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

CPA - FAN COIL

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

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)	SEER	EER	HSPF
FPA-18	CZP18CD(0)	25	0.16	3/4"	21.5	12.5	10.50
FPA-24	CZP24CD(0)	25	0.32	3/4"	20.0	12.5	11.2
FPA-36DU	CZP36CD(0)	25	0.32	3/4"	17	8	10
FPA-48DU	CZP48CD(0)	25	0.32	3/4"	18	9.3	11
FPA-60DU	CZP60CD(0)	25	0.32	3/4"	18.0	9.8	10.5

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)	SEER	EER	HSPF
TPA-09	CZP09CD(0)	25	0.16	3/4"	20	13	10.5
TPA-12	CZP12CD(0)	25	0.16	3/4"	22	14	10.6
TPA-18	CZP18CD(0)	25	0.16	3/4"	20.5	12.5	11.00
TIP-24	CZP24CD(0)	25	0.32	1"	20.7	12.5	10.5
TIP-36	CZP36CD(0)	25	0.32	1"	18.2	9.0	10.6
TIP-48	CZP48CD(0)	25	0.32	1"	17.8	9.5	11.5

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)	SEER	EER	HSPF
CPA-09B	CZP09CD(0)	25	0.16	3/4"	21	13.5	11.5
CPA-12B	CZP12CD(0)	25	0.16	3/4"	21.5	12.5	11.5
CPA-18B	CZP18CD(0)	25	0.16	3/4"	20.5	12.5	11
CPA-24B	CZP24CD(0)	25	0.32	3/4"	21.5	12.6	11.2
CPA-36DUB	CZP36CD(0)	25	0.32	3/4"	16.7	9	11.5
CPA-48DUB	CZP48CD(0)	25	0.32	3/4"	17.4	9.2	10.3
CPA-60DU	CZP60CD(0)	25	0.32	3/4"	18	10	10

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+	50	3/8", 5/8"	213	12	98
FPA-48DU	CHF48CD(O)	12*3	22*2 Shielded	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+	50	3/8", 5/8"	213	12	98
TIP-48	CHF48CD(O)	12*3	22*2 Shielded	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+	50	3/8", 5/8"	213	12	98
CPA-48DUB	CHF48CD(O)	12*3	22*2 Shielded	50	3/8", 3/4"	213	12	98

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)	SEER	EER	HSPF
CHF09CD(I)	CHF09CD(O)	25	0.16	3/4"	28.1	16.2	13.0
CHF12CD(I)	CHF12CD(O)	25	0.16	3/4"	25.5	14.0	13.0
CHF18CD(I)	CHF18CD(O)	25	0.16	3/4"	21.5	12.5	13.0
CHF24CD(I)	CHF24CD(O)	25	0.32	3/4"	21.5	13.0	12.0

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)	SEER	EER	HSPF
FPA-18	CHF18CD(O)	25	0.16	3/4"	20.2	12.5	10.6
FPA-24	CHF24CD(O)	25	0.32	3/4"	20.2	11.5	11.6
FPA-36DU	CHF36CD(O)	25	0.32	3/4"	17.5	8.6	10
FPA-48DU	CHF48CD(O)	25	0.32	3/4"	17	8.20	10.8

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)	SEER	EER	HSPF
TPA-09	CHF09CD(O)	25	0.16	3/4"	20.5	13	10.8
TPA-12	CHF12CD(O)	25	0.16	3/4"	21.5	12.7	10.6
TPA-18	CHF18CD(O)	25	0.16	3/4"	20.0	12.5	10.3
TIP-24	CHF24CD(O)	25	0.32	3/4"	20.2	11	11.6
TIP-36	CHF36CD(O)	25	0.32	3/4"	19	9.5	10.3
TIP-48	CHF48CD(O)	25	0.32	3/4"	16.5	8.30	10.7

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)	SEER	EER	HSPF
CPA-09B	CHF09CD(O)	25	0.16	3/4"	23	14	12
CPA-12B	CHF12CD(O)	25	0.16	3/4"	21.5	13	11.5
CPA-18B	CHF18CD(O)	25	0.16	3/4"	19.6	12.5	11.0
CPA-24B	CHF24CD(O)	25	0.32	3/4"	20.6	12.5	12.6
CPA-36DUB	CHF36CD(O)	25	0.32	3/4"	17.5	9.0	11.5
CPA-48DUB	CHF48CD(O)	25	0.32	3/4"	16	8.7	11.1

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