

ComfortStar®

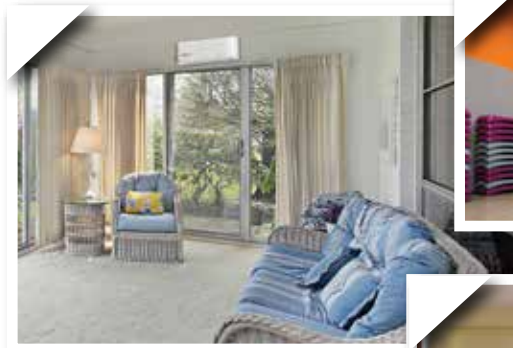
2016

PRODUCT CATALOG



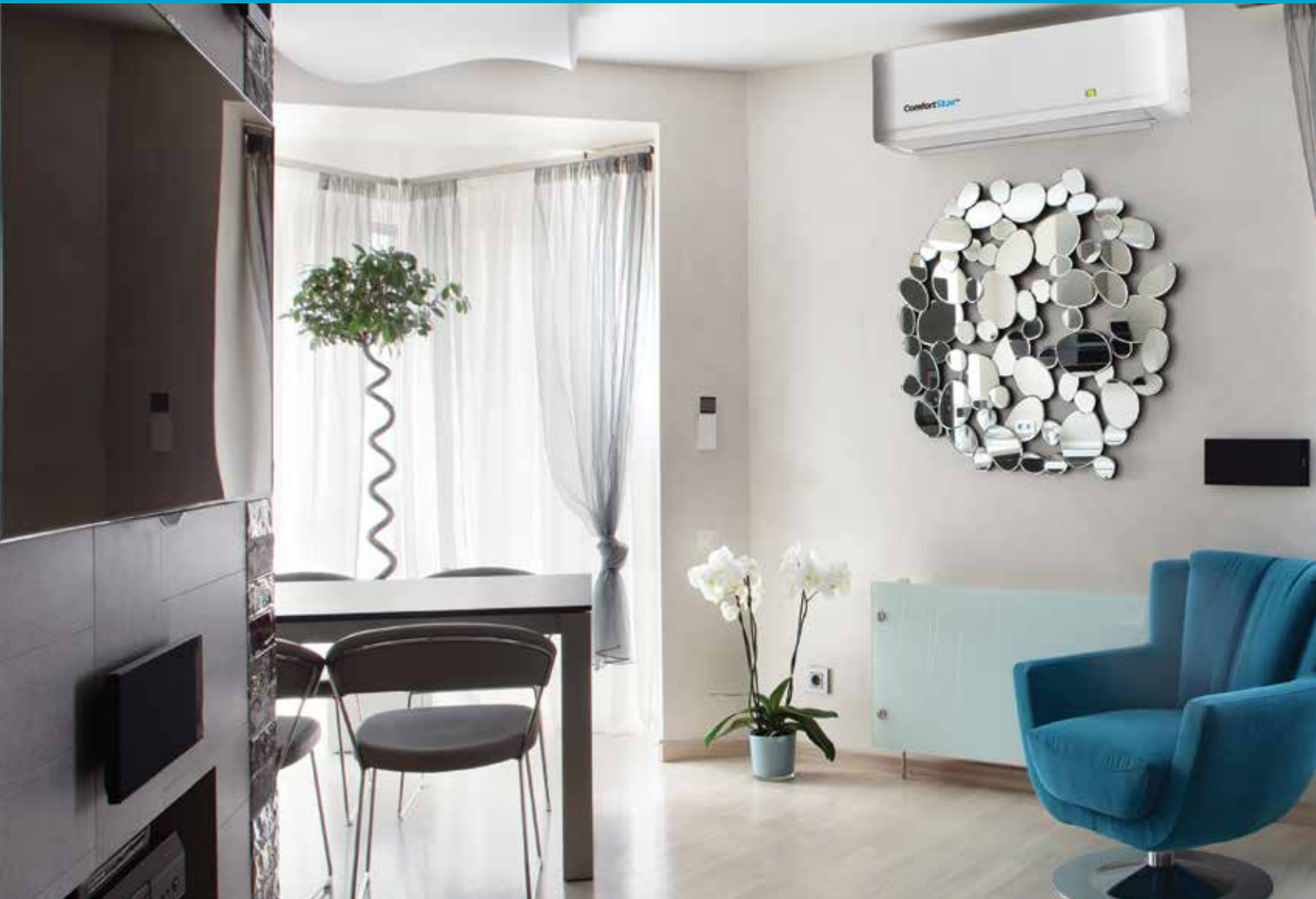
Ductless Mini-Splits Alegria Gold Series

HIGH EFFICIENCY
HEAT PUMP SYSTEMS



ALEGRIA
GOLD SERIES
INVERTER





Why ComfortStar?

With over 50 years of combined experience, ComfortStar® is recognized world-wide as a leader in providing products that are reliable, energy efficient, innovative and cost-effective. 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.

ComfortStar®

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. We provide solutions at a great value.

COMFORTSTAR®

Ductless Mini-Splits Alegria Gold Series

HIGH EFFICIENCY HEAT PUMP SYSTEMS

2016



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ALEGRIA
GOLD  **SERIES**

DUCTLESS SPLIT SYSTEMS



Why A Ductless Split System?

Advances in inverter technology have made mini-split heat pump systems among the most high efficiency heating and air conditioning systems available in the market. 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.

DUCTLESS SPLIT SYSTEMS



Important Characteristics:

- No Duct Work Required: Helps to save space, eliminates heat loss and easier installation.
- Zone Control: Maximize energy efficiency by individually cooling or heating only those spaces desired.
- Inverter, no compressor/motor hard starts: Increases efficiency, and extends the life of mechanical components. Thermal loads are reached quickly and sustained using minimal energy consumption.
- Flexibility - suitable for residential and light commercial application.
- Very quiet - low decibel levels for indoor/outdoor units.

Ductless Split Overview:

SYSTEMS ARE AVAILABLE FOR SINGLE ZONE AND MULTI-ZONE APPLICATIONS:

Single Zone Units - 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 BTU to 36,000 BTU. Light commercial evaporator units: cassette type, floor ceiling and fan coils, are also available from 9,000 BTU all the way up to 48,000 BTU!

Multi-Zone Units- A single outdoor condensing unit can power up to 5 different indoor evaporators. There are more than 350+ possible combinations ranging from 9,000 BTU to 24,000 BTU in high-wall mounts and light commercial units which make it very flexible for contractors in the designing of the system.

DUCTLESS SPLIT SYSTEMS

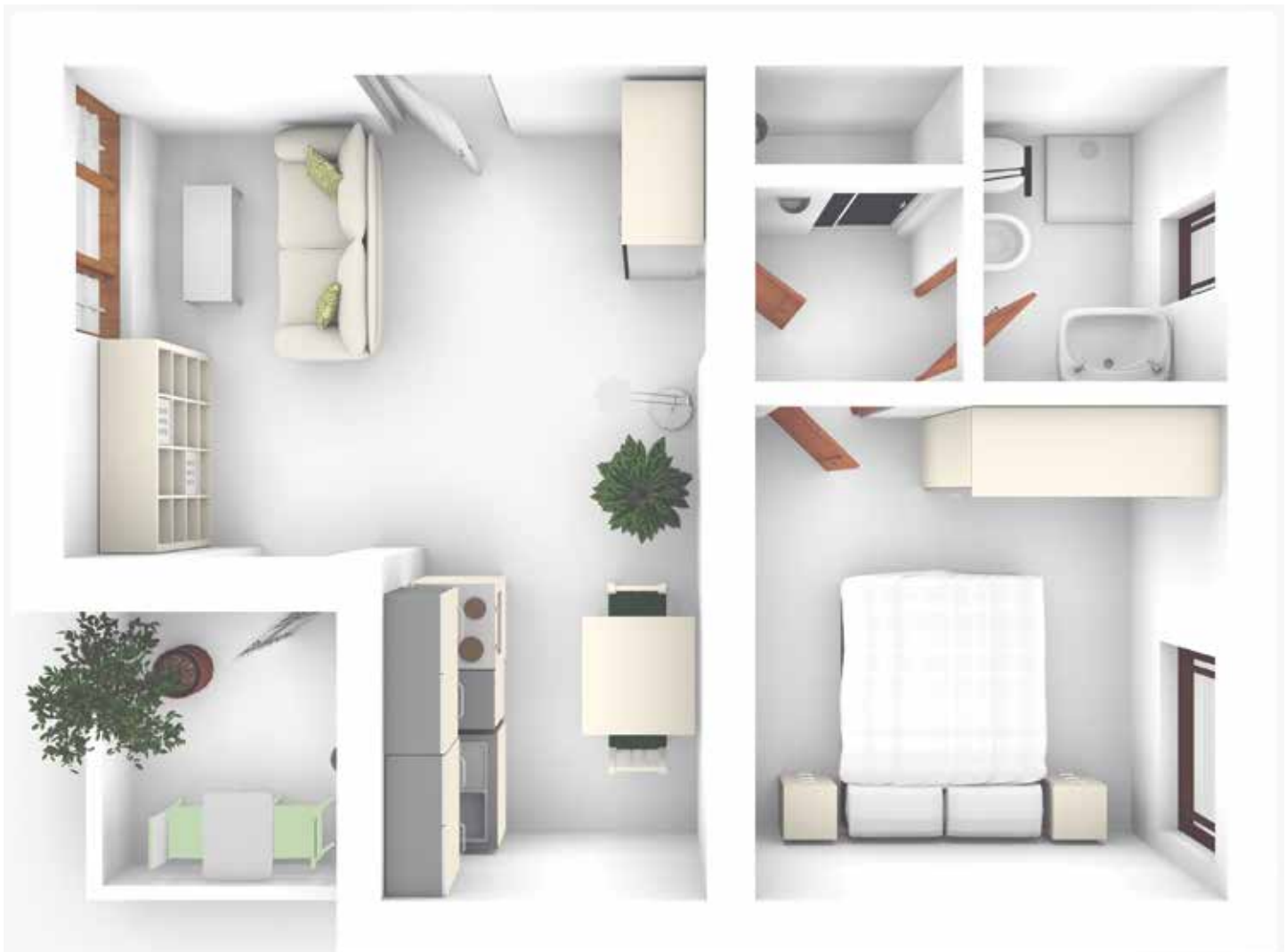
How Does A Ductless Split System Work?

Ductless Split Systems, similar to central cooling systems, are categorized as air conditioning (cooling only) and heat pump systems which provide heating and cooling.

A single-zone system includes a condensing unit (outdoor) and an evaporator unit (indoor); which is what will supply the conditioned air. 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 comfort cooling or heating depending on the preference of the end user.



DUCTLESS SPLIT SYSTEMS

Where Can Ductless Split Systems Be Used?

Mini-split systems are favored in residential applications where duct work from a central a/c system is not available. This typically occurs when renovating or making an addition to a home. In most cases, expanding on existing duct work can be difficult and very expensive. Ductless mini-split systems allow for ease of design and installation, making it a promising alternative to central systems for almost any HVAC application.

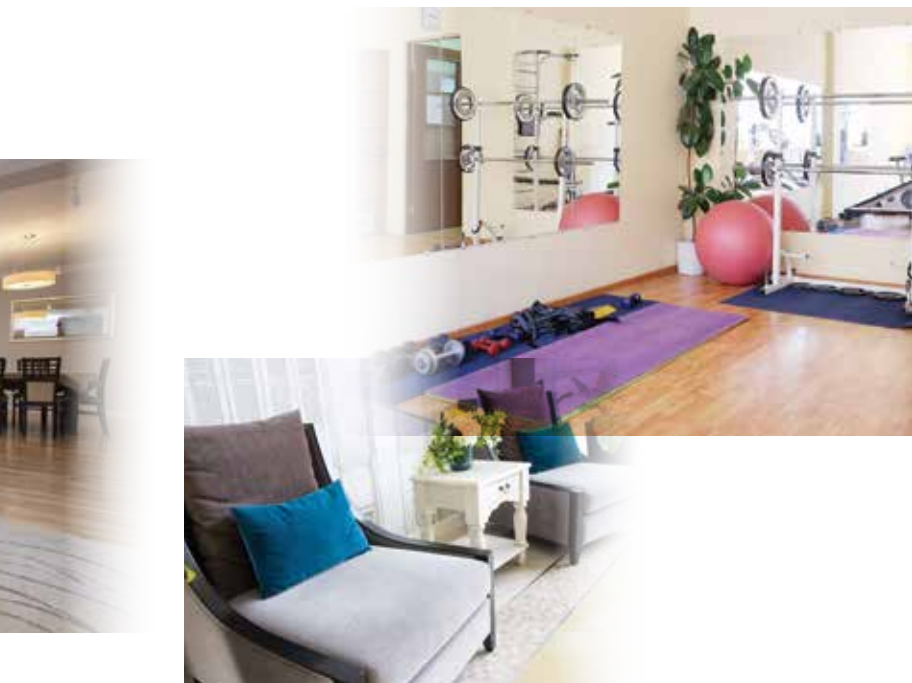
Mini-splits are perfect for older buildings with no space for duct work, existing building with hot or cold areas caused by uneven air distribution, residential additions, schools, churches, server rooms and even restaurants!

Residential Applications:

- Sun Room
- Garage
- Pool House
- Server Rooms
- Home Theatre Room
- Home Gym
- Or any addition to a home where central duct work is not available...

Commercial Applications:

- Malls
- Office Spaces
- Gym
- Hospitals
- Hotels
- Shopping Plazas
- Sporting Facilities
- Warehouses



DUCTLESS SPLIT SYSTEMS



Installation Of A Ductless Split System:



The steps are very similar to a conventional a/c or heat pump system, where the main difference is the interconnecting wiring between the indoor unit and outdoor unit.

IN GENERAL, INSTALLATION IS AS FOLLOWS:

1. Mount indoor and outdoor units.
2. Connect the refrigeration lines.
Insulate both gas and liquid lines.
3. Connect power supply wire to condenser.
4. Connect interconnecting wire from condenser to evaporator.
5. Power up the system.



How Does Inverter Technology Work?

Inverter systems work with standard AC power supply. This voltage however goes through a series of circuit boards that convert ac voltage to dc voltage, then inverting it back to a simulated three-phase ac voltage to drive the compressor. A series of controls attached to the main boards send different commands in order for the system to fully operate simultaneously. The inverter compressor runs depending on the thermal load demand required indoors.



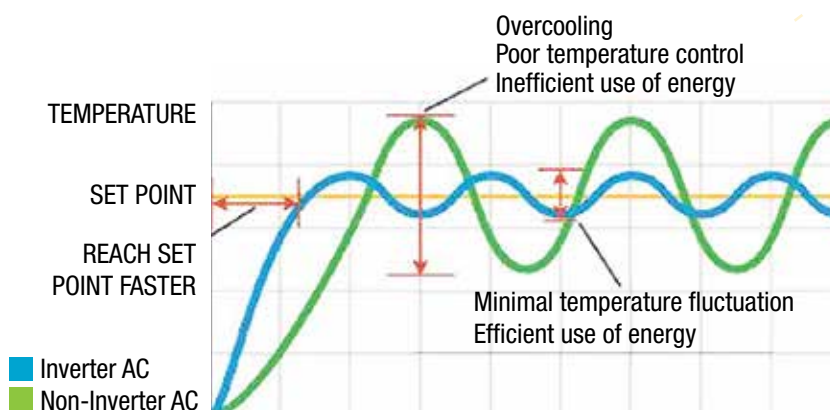
INVERTER

INVERTER TECHNOLOGY

What Is Inverter Technology?

INVERTER

Inverter technology is the capability of various electronic components to regulate the inverter compressor at different speeds (frequencies). Using a simulated 3-phase power to drive the compressor, the system achieves set temperature in a short time and maintains it. The Inverter is the combination of an Inverter rotary compressor and an intelligent compressor controller.



What Are The Benefits Of Inverter Technology?

- Eliminate compressor hard starts which is the main cause of high power consumption.
- Reach set temperature quicker compared to conventional systems.
- Maintain steady room temperature for better comfort.
- Quiet operation.
- High efficiency systems.
- Built-in low ambient kit for Heating and Cooling operation when the outdoor ambient temperature decreases to 5°F.
- Self-diagnostics LED's on the outdoor unit main board and intelligent error codes displayed on indoor unit digital display for easy servicing & troubleshooting.

ALEGRIA GOLD SERIES

17 Seer - Gold Series Single Zone Heat Pump



ALEGRIA
GOLD SERIES



INVERTER

ALEGRIA GOLD SERIES



Standard Features:

- Inverter Technology
- Low Ambient Kit
- Manual Switch
- Interactive Display
- Self-Diagnosis
- Bypass Mode
- 2-Way Draining
- 3-Directional Airflow
- Refrigerant Leak Detection
- Mute Operation
- Remote Control
- "Follow Me" Function



our green promise™

NOMENCLATURE



17 Seer - Gold Series Single Zone Heat Pump

Equipment Nomenclature Characteristics:

DO NOT MISMATCH:

- CPG with other models (CCS)
- CA (115V) with CD (208-230V)

NOMENCLATURE:

CPG	=	Heat Pump Gold Series
CA	=	115V
CD	=	208-230V
(I)	=	Indoor
(O)	=	Outdoor

NOMENCLATURE

INDOOR MODEL NUMBER	CPG009CA (I)	CPG012CA (I)	CPG012CD (I)	CPG018CD (I)	CPG024CD (I)	CPG030CD (I)	CPG036CD (I)
OUTDOOR MODEL NUMBER	CPG009CA (O)	CPG012CA (O)	CPG012CD (O)	CPG018CD (O)	CPG024CD (O)	CPG030CD (O)	CPG036CD (O)

CAPACITY

Cooling Capacity	Btu/h	9000	12000	12000	18000	23000	30000	36000
Heating Capacity	Btu/h	10000	12500	13000	19000	23000	30000	36000

ELECTRICAL DATA

Power Supply	V-,HzPh	115V,60hz,1ph	115V,60hz,1ph	208-230V,60hz,1ph	208-230V,60hz,1ph	208-230V,60hz,1ph	208-230V,60hz,1ph	208-230V,60hz,1ph
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ALEGRIA GOLD SERIES



Standard Features:

- **Low Ambient Kit:** Systems are capable of producing comfort heating to ambient outdoor temperatures as low as 5°F.
- **Manual Switch** – Power unit ON/OFF using manual switch button located at the evaporator.
- **INTERACTIVE DISPLAY:**
 - Display shows error codes based on system failure.
 - Display shows service codes if you have dirty filters.
 - Display will show error code if leak in the system is detected.
 - Display also alerts when unit goes into auto defrost.
- **Self-Diagnosis** – unit will shut down and switch into protection 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 to place drain hose on left or right hand side of evaporator makes 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.
- **Refrigerant Leak Detection** – Error code is displayed at the indoor unit if there is a leak detected in the system.
- **Mute Operation** – Silence beep from remote control.
- **Follow Me Function** – Remote control has a sensor built in. In this mode, the unit will regulate the temperature at the remote control instead of at the evaporator for the set temperature.

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GOLD  **SERIES** **INVERTER**

I-REMOTE

New I-Remote functions allow for more performance from your mini-split



Aside from common features such as being able to adjust temperature, switch modes and control louvers; it's now possible for users to adjust their temperature compensation (to the set temperature) according to the level of comfort they want to achieve. Lock/Unlock function prevents accidental changing of set temperature or switching of modes. Choose to stop, keep or lower the speed of your fan blower when set temperature is reached (cooling mode).



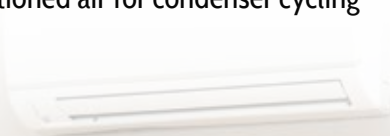
I-REMOTE

Standard Features:

- **Auto Restart** – Unit will restart with the same settings prior to a power loss or unit turned off.
- **Lock Function** – Lock remote control to avoid changing set temperature accidentally.
- **Anti-Cold Air Function** – (Heat Mode only).

COMMON MODE VS. INTELLIGENT MODE:

- Common Mode – Unit will cycle depending on the temperature of the evaporator coil only.
 - In this case, colder air from the blower wheel (relative to coil temperature) may drop the temperature of the coil and cause unwanted over-heating by the evaporator.
 - Intelligent Mode – Unit will take into account the set temperature as well as the temperature of the fan coil to cycle through; results in higher level of comfort.
- **Fan Speed Operation once Set Temperature is reached:**
(Cooling Mode Only)
Once set temperature is reached, you have the option to stop the fan blower, reduce the fan blower speed or keep fan blower speed the same. Previous models would continuously run in cooling mode in order to accurately measure the conditioned air for condenser cycling operation.



ALEGRIA GOLD SPECS



INDOOR UNIT			CPG009CA (I)	CPG012CA (I)	CPG009CD (I)	CPG012CD (I)
OUTDOOR UNIT			CPG009CA (O)	CPG012CA (O)	CPG009CD (O)	CPG012CD (O)
Power supply			Ph-V-Hz	115V~60Hz, 1Ph	115V~60Hz, 1Ph	208-230V~60Hz, 1Ph
Cooling	Capacity	Btu/h	9000	12000	9000	12000
	Input	W	782	1200	900	1090
	Rated current	A	3.5	5.2	4.0	4.8
	EER	Btu/w	11.5	10.5	11.5	11
	SEER	Btu/w	17	17.2	17	17.5
Heating	Capacity	Btu/h	9800	12000	9800	12000
	Input	W	925	1135	900	1035
	Rated current	A	4.2	5.0	4	4.5
	HSPF	Btu/w	9	9.0	9	9
Indoor unit	Indoor Noise Level (Hi/Med/Low)	dB(A)	36.5/22	38/30/24	36/23	38/23
	Dimension (W*D*H)	in	28.43x7.36x11.42	31.57x7.44x11.69	28.43x7.36x11.42	31.57x7.44x11.69
	Packing (W*D*H)	in	31.10x10.63x14.57	34.45x11.22x14.76	31.10x10.63x14.57	34.45x11.22x14.76
	Net/Gross Weight	lbs.	16.5/20.9	18.7/22.5	16.5/20.9	18.7/22.5
Outdoor unit	Outdoor Noise Level	dB(A)	53.5	53	54.5	54.5
	Dimension (W*D*H)	in	30.31x11.81x21.85	30.31x11.81x21.85	30.31x11.81x21.85	30.31x11.81x21.85
	Packing (W*D*H)	in	35.43x13.58x23.03	35.43x13.58x23.03	35.43x13.58x23.03	35.43x13.58x23.03
	Net/Gross Weight	lbs.	63.9/69.4	65.0/70.5	63.9/69.4	65.0/70.5
Refrigerant precharge			ft	25	25	25
Additional charge for each ft			oz	0.161	0.161	0.161
Design pressure		PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Ø6.35/Ø1509.52(1/4"/3/8")	Ø6.35/Ø12.7(1/4"/1/2")	Ø6.35/Ø9.52(1/4"/3/8")	Ø6.35/Ø12.7(1/4"/1/2")
	Max. refrigerant pipe length	ft	82	82	82	82
	Max. difference in level	ft	33	33	33	33
Operation temperature	Indoor(cooling/ heating)	°F	62-90/32-86	62-90/32-86	62-90/32-86	62-90/32-86
	Outdoor(cooling/ heating)-optional	°F	5-122/5-86	5-122/5-86	5-122/5-86	5-122/5-86
Connection wiring			16AWG*4 Stranded	16AWG*4 Stranded	16AWG*4 Stranded	16AWG*4 Stranded
Thermostat type			Remote Control	Remote Control	Remote Control	Remote Control

INVERTER

ALEGRIA GOLD
• Compressor, 5 YEARS
• Parts, 2 YEAR
COMFORTSTAR WARRANTY
• SATISFACTION GUARANTEED •

R-410A
REFRIGERANT

ETL
LISTED US

AIR
CERTIFIED

AIR
CERTIFIED

ENERGY STAR

ALEGRIA GOLD SPECS



INDOOR UNIT			CPG018CD (I)	CPG024CD (I)	CPG030CD (I)	CPG036CD (I)
OUTDOOR UNIT			CPG018CD (O)	CPG024CD (O)	CPG030CD (O)	CPG036CD (O)
Power supply		Ph-V-Hz	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph	208-230V~60Hz, 1Ph
Cooling	Capacity	Btu/h	18000	24000	30000	36000
	Input	W	1635	2665	2857	4235
	Rated current	A	7.2	11.8	12.5	18.5
	EER	Btu/w	11	9	10.5	8.5
	SEER	Btu/w	17.7	16	18	16
Heating	Capacity	Btu/h	18000	24000	30000	36000
	Input	W	1935	2400	3110	3835
	Rated current	A	8.5	10.5	13.5	16.7
	HSPF	Btu/w	9.8	9	9.6	10
Indoor unit	Indoor Noise Level (Hi/Med/Lo)	dB(A)	44/26.5	45.5/33	50/46/42	52/44/34
	Dimension (W*D*H)	in	37.99x8.46x12.56	42.52x8.90x13.19	49.57x11.10x14.25	49.57x11.10x14.25
	Packing (W*D*H)	in	41.14x12.01x15.94	45.47x16.34x12.40	52.76x17.72x14.96	52.76x17.72x14.96
	Net/Gross Weight	lbs.	26.0/34.2	29.1/37.0	43.2/55.6	43.2/55.6
Outdoor unit	Outdoor Noise Level	dB(A)	55	59.5	59.5	60.5
	Dimension (W*D*H)	in	31.50x13.11x21.81	35.98x14.17x23.90	40.55x16.54x31.89	40.55x16.54x31.89
	Packing (W*D*H)	in	36.22x15.35x24.21	38.00x15.55x29.72	42.91x19.69x34.06	42.91x19.69x34.06
	Net/Gross Weight	lbs.	80.5/87.1	136.69/147.27	137.79/147.71	136.69/147.27
Refrigerant precharge		ft	25	25	25	25
Additional charge for each ft		oz	0.161	0.322	0.322	0.322
Design pressure		PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG	550/340 PSIG
Refrigerant piping	Liquid side/ Gas side	mm(inch)	Ø6.35/Ø12.7(1/4"/1/2")	Ø9.52/Ø16(3/8"/5/8")	Ø9.52/Ø15.9(3/8"/5/8")	Ø9.52/Ø15.9(3/8"/5/8")
	Max. refrigerant pipe length	ft	98	98	164	213
	Max. difference in level	ft	66	66	82	98
Operation temperature	Indoor(cooling/ heating)	°F	62-90/32-86	62-90/32-86	62-90/32-86	62-90/32-86
	Outdoor(cooling/ heating)-optional	°F	5-122/5-86	5-122/5-86	5-122/5-86	5-122/5-86
Connection wiring			16AWG*4 Stranded	16AWG*4 Stranded	16AWG*4 Stranded	16AWG*4 Stranded
Thermostat type			Remote Control	Remote Control	Remote Control	Remote Control



AIR CURTAIN

Air Curtain EAC Series

COMFORTSTAR® AIR CURTAIN PRODUCES A HIGH SPEED AIR CURRENT and creates an invisible door at a building's entrance to reduce air transfer, maintain comfortable indoor environment, improve energy efficiency, and prevent dust, insects and contaminants. The Air Curtain can be used in many different

types of applications such as office buildings, retail outlets, restaurants and food producing plant. The benefits are numerous.



Energy Efficient Unit with Remote Control



AIR CURTAIN



Standard Features:

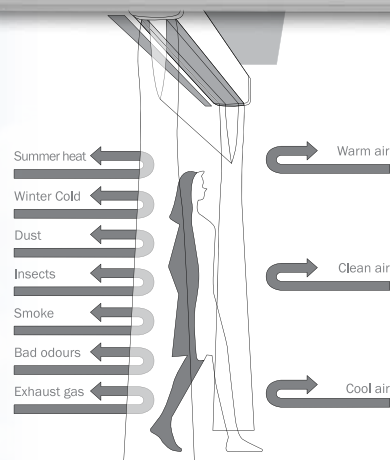
- Compact design for easy positioning.
- Attached cord and plug for easy installation.
- Luxurious appearance and two-speed motor for your convenience.
- Prevents the influx of outside air through an opening into a heated or cooled area, therefore, it reduces energy consumption.
- The powerful air stream shields against dust, insects and contaminants.
- Superior double-ball bearing motor technology ensures reliable operation and long life span.
- Because of the compact and slim design, the units can be mounted where there is limited space between the top of the doorway and the ceiling.
- 3', 4' & 5' models to fit doorways with different entrance sizes.
- 2-speed fan can be controlled by remote controller or the control panel located on the unit.
- Remote control function for easy operation. Elegant appearance and low noise level makes life more comfortable inside.



AIR CURTAIN



Air Curtain EAC Series



MODEL NUMBER	AIR VOLUME (CFM)		AIR VELOCITY (FT/S)		NOISE		DIMENSION (INCH)	WEIGHT (lb)	POWER SUPPLY	MAX. POWER INPUT (W)
	Hi	Low	Hi	Low	Hi	Lo				
EAC-900L-1	647	529	53	43	52	49	35.4*9.0*8.5	35	120v/1PH/60Hz	300
EAC-1200L-1	882	706			53	50	47.2*9.0*8.5	40		400
EAC-1500L-1	1117	882			55	52	59.0*9.0*8.5	51		500

DOOR HEIGHT	HI			LO		
	Velocity (ft/s)	Insect Stop Capability	Wind Stop Capability (mph)	Velocity (ft/s)	Insect Stop Capability	Wind Stop Capability (mph)
4	30	mosquitoes, butterflies, moths, gnat, dragonflies, large moths, large butterflies	N/A	20	mosquitoes, butterflies, moths, gnat, dragonflies, flies	15
5	27	mosquitoes, butterflies, moths, gnat, dragonflies, flies	N/A	20	mosquitoes, butterflies, moths, gnat	14
6						13
7						12
8	20	mosquitoes, butterflies, moths, gnat	16	13	mosquitoes, butterflies	11
9			15			10
10			15			9
11	17	mosquitoes, butterflies	14	10	N/A	8
12			13			
13			12			
14	13	N/A	12	N/A	N/A	N/A
15						

INSTALLATION ACCESSORIES



Line Set Covers For Ductless Split Systems

For Residential and Light Commercial Applications

Super Line Set Wall Duct Kit



SPLIT LINE TUBES

MODEL	DESCRIPTION	NO. OF PCS. IN KIT	SIZE
SEC110	90° Horizontal Elbow	1	4' 5/8" Diameter
SWW110	Wall Inlet	1	7' 7/8" Diameter
SJ110	Joint	2	4' 5/8" Diameter
SDD110	Split Line Tube	3	4' 5/16" Diameter
SRJ110	Reducer Joint	1	4' 5/8" Diameter

Smart Duct™



INSTALLATION ACCESSORIES

Line Set Covers For Ductless Split Systems

FOR RESIDENTIAL AND LIGHT COMMERCIAL APPLICATIONS

Smart Duct™

Split Line Tube

MODEL	Split Line Tube Dimensions (in/mm)										Weight (Ounces)
	A		B		C		D		E		
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SDD65	2 5/16	59	2 5/16	59	78 3/4	2000	N/A	N/A	N/A	N/A	32.0
SDD75	2 15/16	75	2 7/16	62	78 3/4	2000	N/A	N/A	N/A	N/A	41.0
SDD110	4 5/16	110	3 1/16	78	78 3/4	2000	N/A	N/A	N/A	N/A	69.0



Wall Cover/Inlet

MODEL	Wall Cover/Inlet Dimensions (in/mm)										
	A		B		C		D		E		Weight (Ounces)
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SWW65	2 9/16	65	2 9/16	65	7 7/8	200	3 1/16	78	3 3/16	81	4.0
SWW75	3 1/4	83	2 11/16	68	8 1/4	210	3 11/16	94	3 1/4	83	6.0
SWW110	4 5/8	117	3 1/4	83	9 5/8	244	5 3/8	137	3 13/16	97	9.0



Universal Elbow (Horizontal)

MODEL	Universal Elbow (Horizontal) Dimensions (in/mm)										Weight (Ounces)
	A		B		C		D		E		
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SEC65	2 9/16	65	2 9/16	65	5 3/8	137	N/A	N/A	N/A	N/A	5.0
SEC75	3 1/4	83	2 11/16	68	5 3/4	146	N/A	N/A	N/A	N/A	5.0
SEC110	4 5/8	117	3 1/4	83	8 1/8	206	N/A	N/A	N/A	N/A	14.0



Universal Elbow (Vertical)

MODEL	Universal Elbow (Vertical) Dimensions (in/mm)										Weight (Ounces)
	A		B		C		D		E		
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SDC65	2 9/16	65	2 9/16	65	4 3/4	121	N/A	N/A	N/A	N/A	4.0
SDC75	3 1/4	83	2 11/16	68	4 13/16	122	N/A	N/A	N/A	N/A	4.0
SDC110	4 5/8	117	3 1/4	83	5 5/16	135	N/A	N/A	N/A	N/A	7.0



INSTALLATION ACCESSORIES

90° Elbow (Vertical)

MODEL	90° Elbow (Vertical) Dimensions (in/mm)										Weight (Ounces)
	A		B		C		D		E		
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SEE65	2 9/16	65	2 9/16	65	4 3/4	121	N/A	N/A	N/A	N/A	3.0
SEE75	3 1/4	83	2 11/16	68	4 7/8	124	N/A	N/A	N/A	N/A	4.0
SEE110	4 5/8	117	3 1/4	83	5 5/16	135	N/A	N/A	N/A	N/A	7.0



Wall Entry Fitting

MODEL	Wall Entry Fitting Dimensions (in/mm)										Weight (Ounces)
	A		B		C		D		E		
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SW65	4 5/16	110	4 5/16	110	5/8	16	N/A	N/A	N/A	N/A	1.0
SW75	4 15/16	125	4 1/2	114	5/8	16	N/A	N/A	N/A	N/A	2.0
SW110	7 7/8	200	7 1/16	179	5/8	16	N/A	N/A	N/A	N/A	2.0



T-Joint

MODEL	T-Joint Dimensions (in/mm)										Weight (Ounces)
	A		B		C		D		E		
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
STT75	3 1/4	83	2 11/16	68	4 3/4	121	6 5/16	160	1	25	8.0
STT110	4 5/8	117	2 15/16	75	7 7/8	200	10 1/8	257	1 3/16	30	16.0



Joint

MODEL	Joint Dimensions (in/mm)										Weight (Ounces)
	A		B		C		D		E		
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SJ65	2 9/16	65	2 9/16	65	3 1/8	79	N/A	N/A	N/A	N/A	2.0
SJ75	3 1/4	83	2 11/16	68	3 1/8	79	N/A	N/A	N/A	N/A	2.0
SJ110	4 5/8	117	3 1/4	83	3 1/8	79	N/A	N/A	N/A	N/A	3.0



Reducer Joint

MODEL	Reducer Joint Dimensions (in/mm)										Weight (Ounces)
	A		B		C		D		E		
	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	
SRJ75	2 11/16	68	2 11/16	68	3 9/16	90	3 1/4	83	2 11/16	68	3.0
SRJ110	3 3/8	86	2 13/16	71	3 9/16	90	4 5/8	117	3 1/4	83	4.0



INSTALLATION ACCESSORIES

Flexible Refrigerant Line Set Connector

MODEL NO.	DESCRIPTION	LENGTH
SFLC1/4	1/4"	3'
SFLC3/8	3/8"	3'
SFLC1/2	1/2"	3'
SFLC5/8	5/8"	3'



Standard Features:

- 3" copper stubs for silver solder or flaring.
- Stainless steel corrugated pipe.
- Pressure Rating: 800 PSI suitable for R410A system.
- 4 Sizes available.
- Eliminates kinking of the copper tubing when connecting to the mini-split indoor evaporator 3' overall length.

Plastic Mini-Split Mounting Channel



Standard Features:

- 4" Ivory Riser.
- Simple secure mounting for small and large piping systems, ductwork runs, cable trays and small equipment such as condensers.



MODEL NO.	LONG	UPPER SIDE WIDTH	LOWER SIDE WIDTH	HEIGHT	MAX. LOAD	FINISH
SER4	13 3/4"	3 1/4"	4"	3 3/4"	300 lbs	Plastic

INSTALLATION ACCESSORIES

Ductless Split Systems Condenser Mounting Brackets

Standard Features:

- Brackets offer strong and secure support for mini-split condensers in various mounting locations.
- Constructed of heavy duty steel and high quality finish for maximum weather resistance.

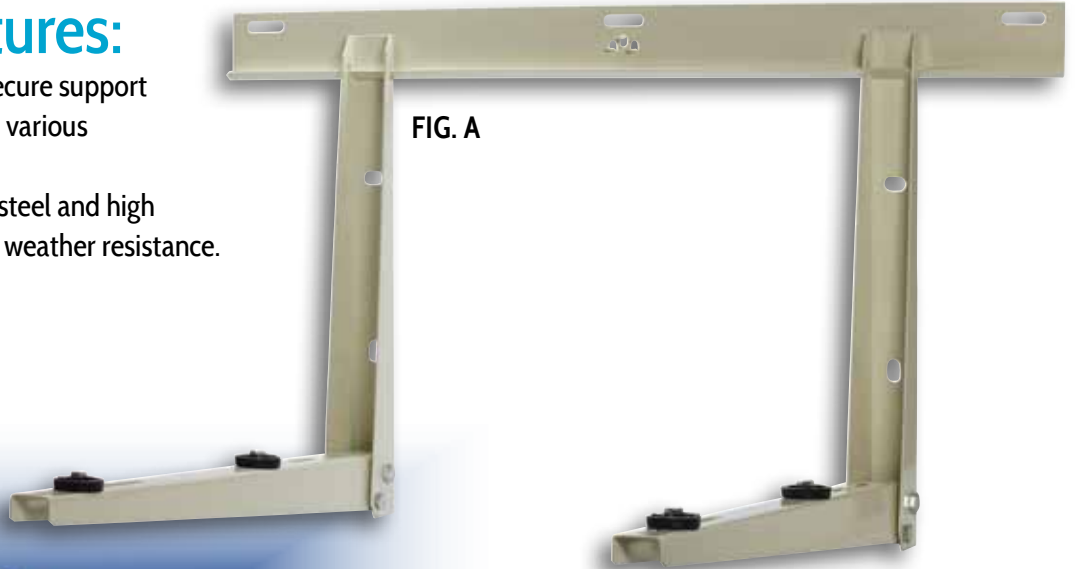


FIG. A



FIG. B

MODEL NO.	FIGURE	H X W X D	MAX. LOAD	FINISH
SB33	A	18" x 33 1/2" x 22"	300 lbs	Powdercoat
SB35	A	18" x 33 1/2" x 24"	500 lbs	Powdercoat
SB46	B	17 3/4" x 33 3/4"	300 lbs	Powdercoat
SB47	B	23 5/8" x 23 5/8"	500 lbs	Powdercoat
SB47L	B	23 5/8" x 23 5/8"	200 lbs	Powdercoat

SPECS AT A GLANCE

ComfortStar® Ductless Split Systems At-A-Glance

COMFORTSTAR 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. RECOMMENDED PIPING LENGTH (FT)	MAX. ALLOWABLE ELEVATION DIFFERENCE (FT)
ALEGRIA GOLD - 15~17 SEER HEAT PUMP SINGLE-ZONE WALL-MOUNTED							
CPG009CA	12*3	16*4, Str	25	1/4" 3/8"	82	12	33
CPG012CA	12*3	16*4, Str	30	1/4" 1/2"	82	12	33
CPG009CD	12*3	16*4, Str	25	1/4" 3/8"	82	12	33
CPG012CD	12*3	16*4, Str	15	1/4" 1/2"	82	12	33
CPG018CD	12*3	16*4, Str	20	1/4" 1/2"	98	12	66
CPG024CD	12*3	16*4, Str	25	3/8" 5/8"	98	12	66
CPG032CD	12*3	16*4, Str	25	3/8" 5/8"	164	12	82
CPG036CD	12*3	16*4, Str	30	3/8" 5/8"	213	12	98

ALEGRIA
GOLD  **SERIES**



SPECS AT A GLANCE

ComfortStar® Ductless Split Systems At-A-Glance

COMFORTSTAR MODEL NO.	FACTORY REFRIGERANT CHARGE	REFRIGERANT ADJUSTMENT FACTOR (OZ. PER FOOT)	DRAIN PIPE SIZE(IN)	SEER	EER	HSPF
ALEGRIA GOLD - 15~17 SEER HEAT PUMP SINGLE-ZONE WALL-MOUNTED						
CPG009CA	25	0.161	3/4"	17	11.5	9
CPG012CA	25	0.161	3/4"	17.2	10.5	9
CPG009CD	25	0.161	3/4"	17	11.5	9
CPG012CD	25	0.161	3/4"	17.5	11	9
CPG018CD	25	0.161	3/4"	17.7	11	9.8
CPG024CD	25	0.322	3/4"	16	9	10
CPG032CD	25	0.322	3/4"	18	10.5	9.6
CPG036CD	25	0.322	3/4"	16	8.5	10

Notes: The wire sizes listed are the manufacturer-recommended minimum sizes. Wires should be stranded and rated for high-voltage. Always refer to NEC local code.

GOLD

**ALEGRIA (G)
COMPRESSOR**



SATISFACTION GUARANTEED

GOLD

**ALEGRIA (G)
PARTS**



SATISFACTION GUARANTEED



INVERTER



ALEGRIA GOLD INVERTER

SERIES

Ductless Mini-Splits Alegria Gold Series

HIGH EFFICIENCY HEAT PUMP SYSTEMS



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