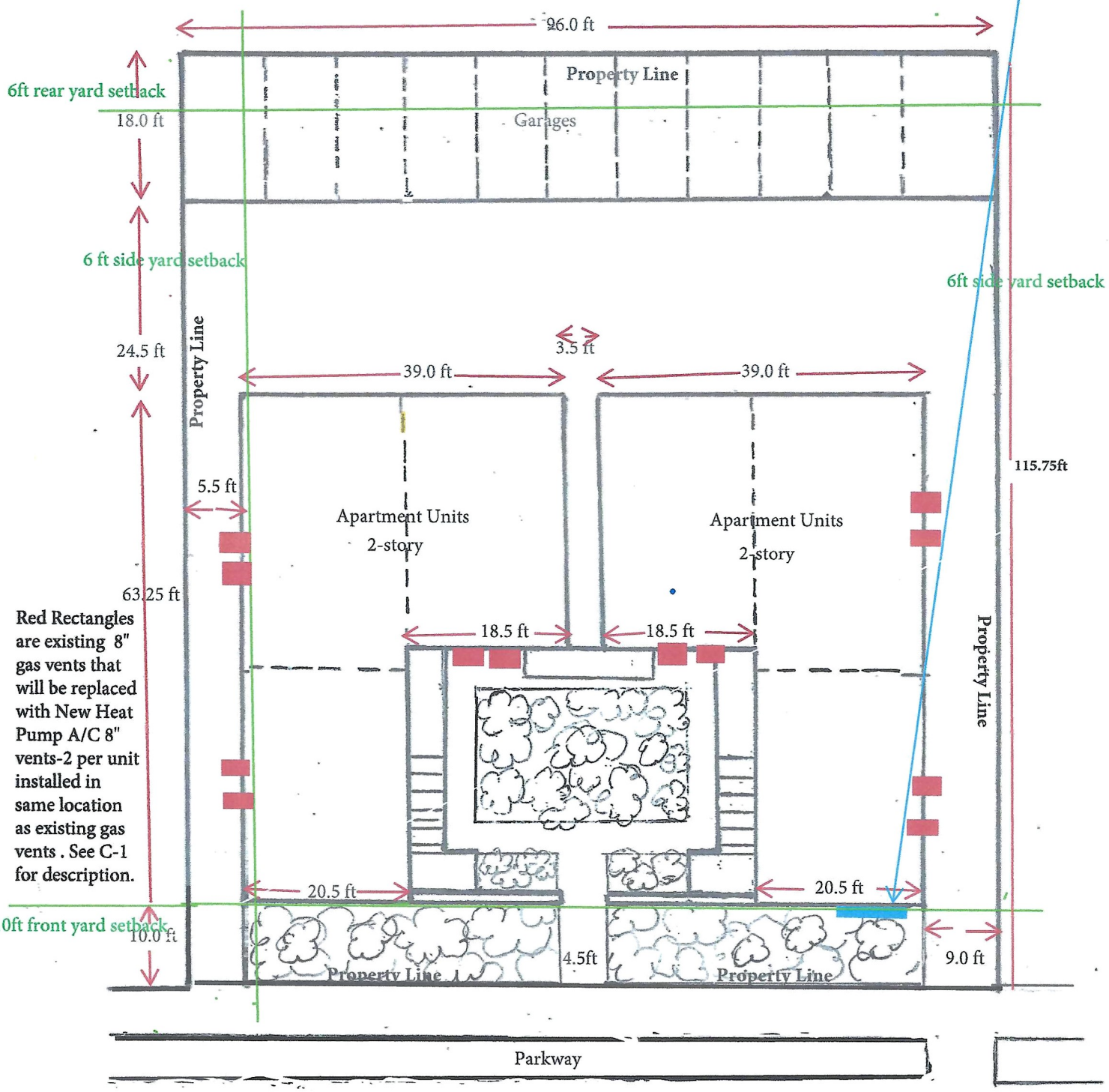
2024-07-02 APN: 039-162-027
Site Plan : 316 W Anapamu St Santa Barbara
Zone: R-MH (Residential Multi-Unit and Hotel)
Occ type: R-2 General Plan: High Density Residential (28-36 du/ac)
2-story apartment building
Lot Size: 0.26 acres; approx. 11,217.61 sq. ft.
Avg.Slope: 4% (est. from City GIS)
Floor Area: 5497 sqft
Owner:Draghi 316 Anapamu LLC
Contact: Patricia Sherman
pls101715@gmail.com 805-453-5741

Setbacks Required: 6.0 ft sides and back. 10.0 ft front yard setback. Property only complies on front yard setback.

Scope of work: new exterior A/C vents on exterior of 3 elevations and Mech Equip in Front Yard Setback with approved HLC waiver

Mechanical Equipment: request HLC waiver to place 2 Heat Pump condensers in front yard setback. See East Elevation for description. Place equipment pad 3 ft from corner of building screened by vegetation detailed on Landscape Detail.



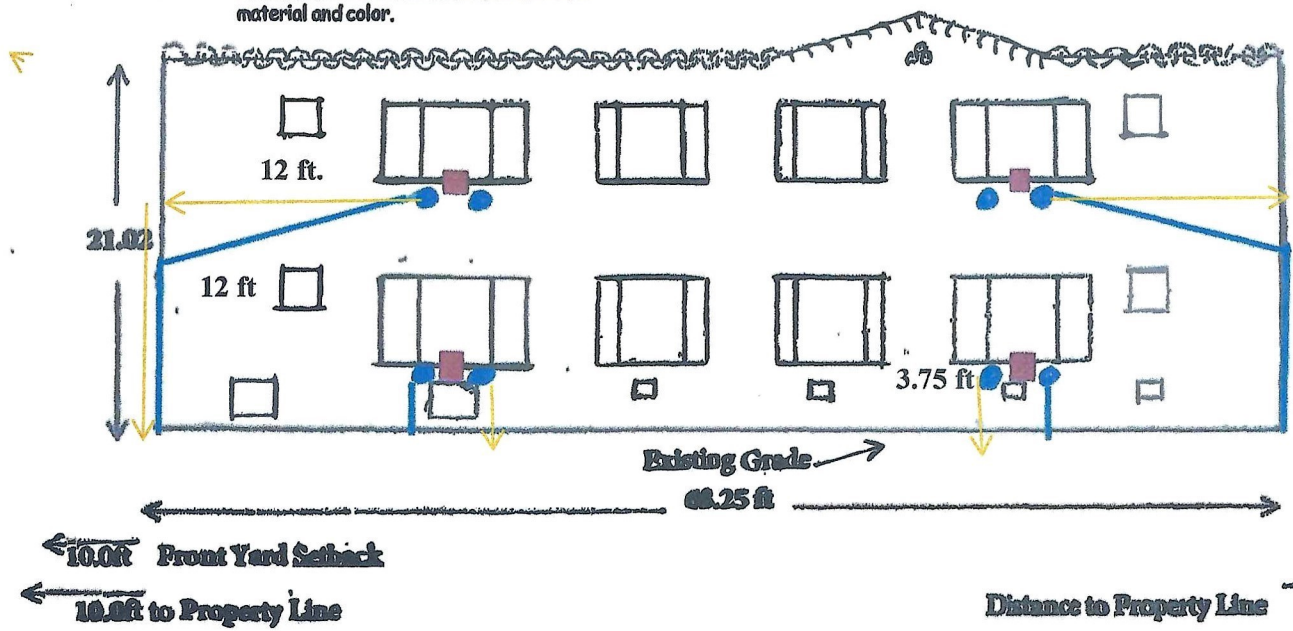
Red Rectangles are existing 8" gas vents that will be replaced with New Heat Pump A/C 8" vents-2 per unit installed in same location as existing gas vents . See C-1 for description.

2024-07-02. Elevations X5.1a
316 W Anapamu Street 12-unit Apartment Building
APN 039-162-027

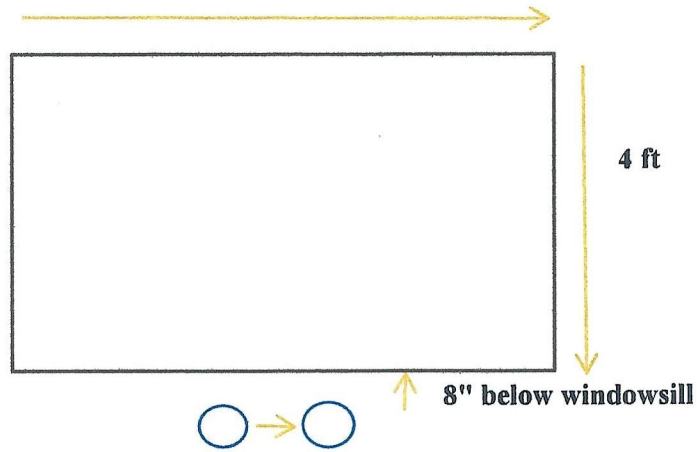
Elevation: North Position of new vents

1/8 inch scale

Blue line is condensate routing. Surface mount from upper unit to front yard setback in garden and to back driveway gravel opening. Lower unit condensate to go through floor joists to gravel opening below. Painted White to match the stucco wall. See Condensate Detail C-1 for material and color.



Typical Living room Window 8ft



Vents are 2.25 inches apart
Edge -to edge

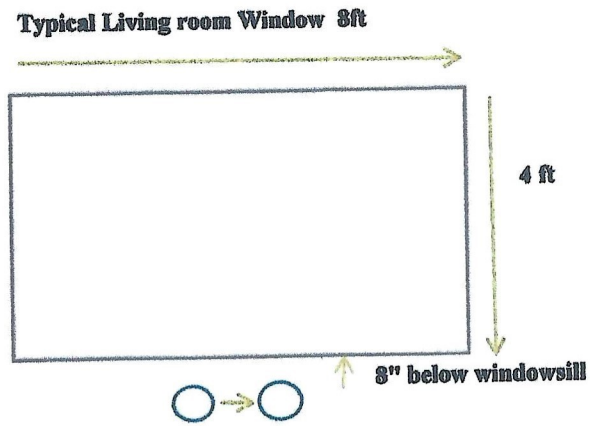
Edge of vent is 12 ft from corner of building on both sides. Bottom of vent is 12 ft from ground on 2nd floor and 3.75 ft from ground on 1st floor.

Red rectangles are existing 8" gas heater vent to be removed
Blue circles are the new 8-inch Heat Pump vents resplaced

N

2024-07-02. Elevations X5.2a
316 W Anapamu Street
12-unit Apartment Building
APN 039-162-027

Elevation: South Position of new vents

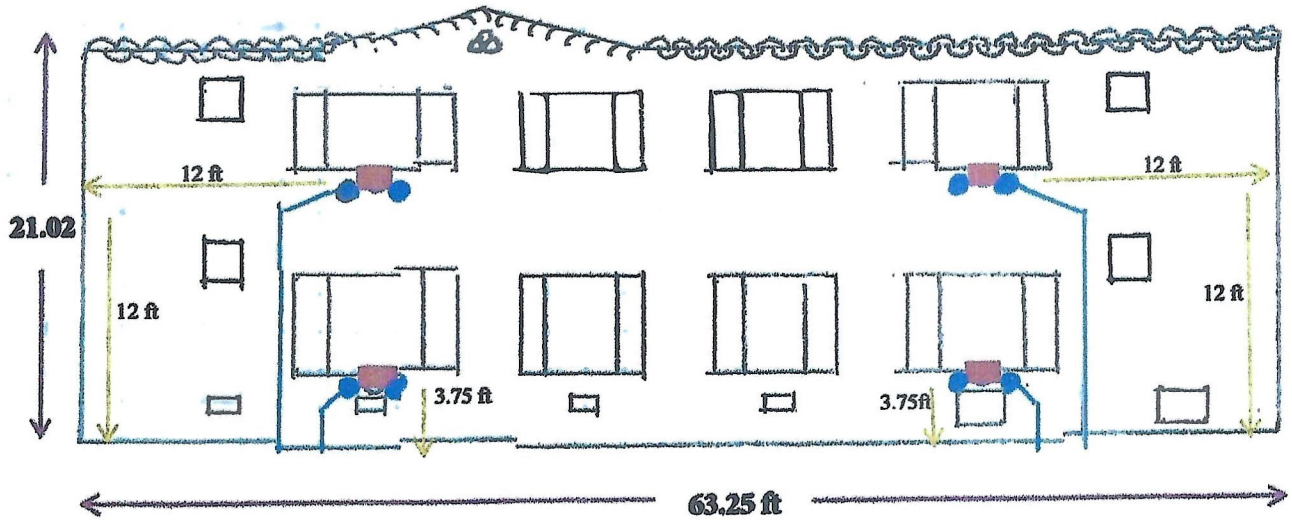


Edge of vent is 12 ft from corner of building on both sides. Bottom of vent is 12 ft from ground on 2nd floor and 3.75 ft from ground on 1st floor.

1/8 inch scale

Vents are 2.25 inches apart
Edge -to edge

Blue line is condensate routing. Surface mounted from upper and lower units on face of building to gravel pad in side yard setback and existing garden. Painted White to match the stucco wall. See Condensate Detail C-1 for material and color.



Red rectangles are Existing 8" gas heater vent to be removed.
Blue circles are the new -8 inch Heat Pump vents replaced.

42.50ft Distance to Property Line

Front yard setback
Distance to Property Line

10.0ft
10.0ft

N

2024-07-02 Elevations X5.3

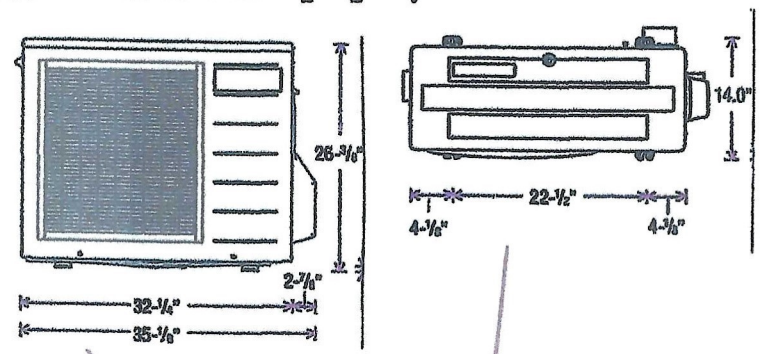
316 W Anapamu Street

APN 039-162-027

Elevation: East pictured from Anapamu Street

3/32 inch scale

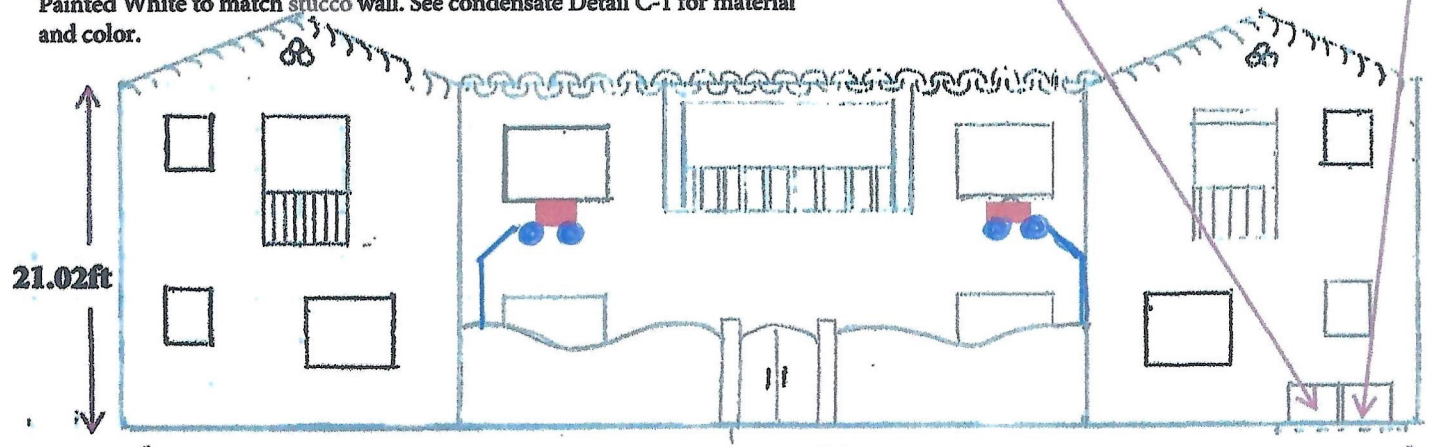
Proposed: 2 Heat Pump Condensors measuring 35"W x 26"H x 14"D to be placed prefab equip pad and screened by plantings. Request for a vaiver from HLC to allow mechanical equipment to be located within 10ft of property line.



Red rectangles are the Existing 8" gas heater vents to be removed.

Blue circles are the new 8 inch Heat Pump Vents.

Blue line is condensate routing. Surface mount at upper and lower level units down the face of the building to gravel pad in existing garden. Painted White to match stucco wall. See condensate Detail C-1 for material and color.



81.5ft

5.50ft Side Yard

6.0ft Sideyard Setback

10.0ft Front yard Setback

6.0ft Sidewalk

Driveway 9.0ft

Property Line 9.0ft

Sideyard Setback 6.0ft

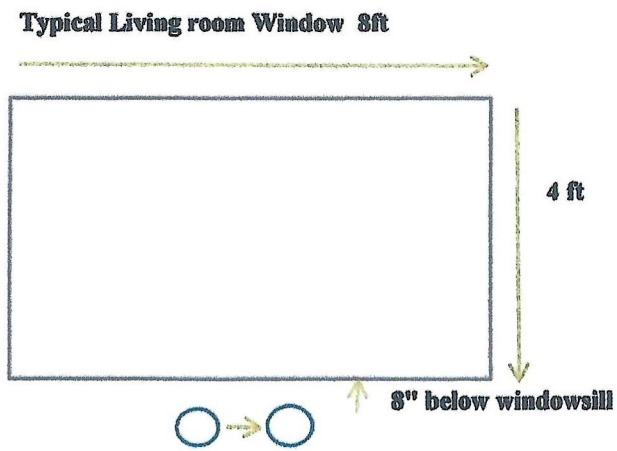
N

2024-07-02. Elevations X5.4a
316 W Anapamu Street
12-unit Apartment Building
APN 039-162-027

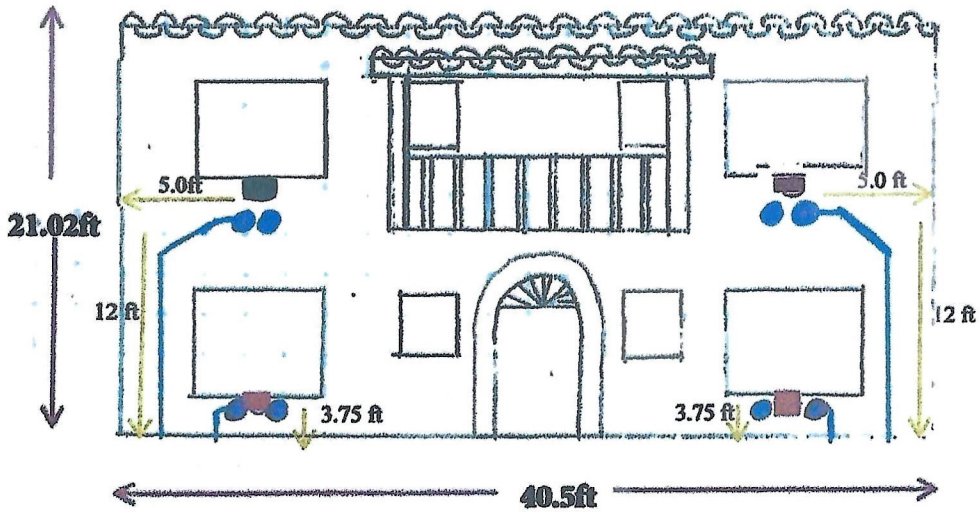
Elevation: East Inside the Courtyard pictured from Anapamu St.

Position of new Vents

1/8 inch Scale



Edge of vent is 5 ft from corner of building on both sides. Bottom of vent is 12 ft from ground on 2nd floor and 3.75 ft from ground on 1st floor.

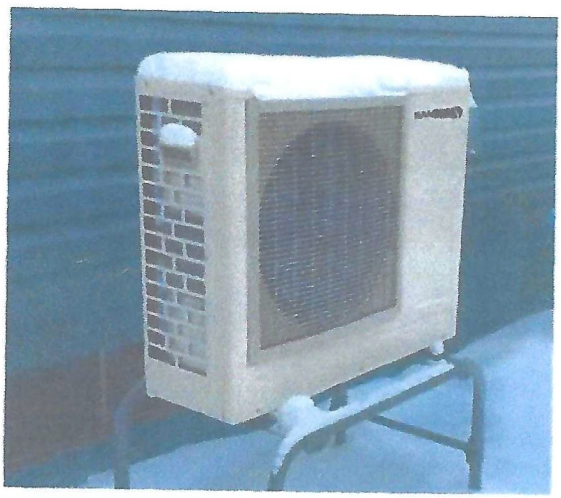


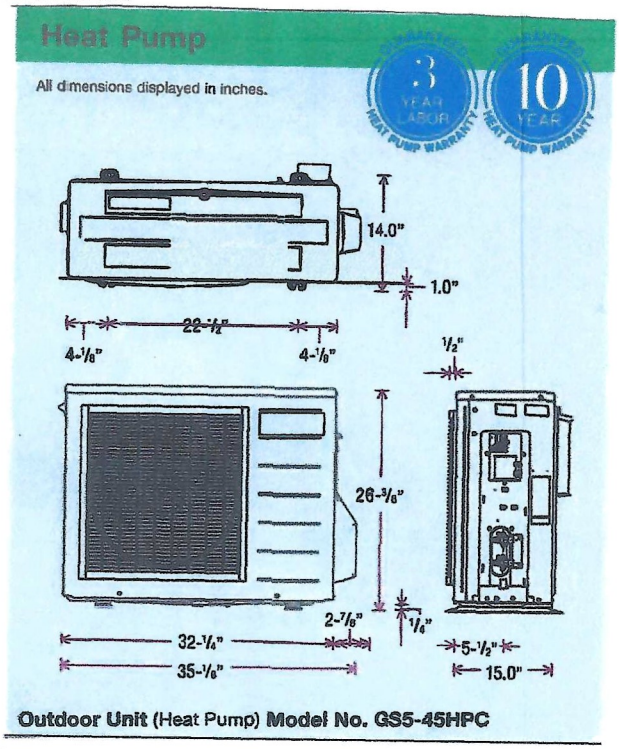
Red rectangles are the Existing 8 " gas heater vents to be removed.
Blue Circles are the new 8 " Heat Pump Vents replaced.

Blue line is condensate routing. Surface mount at upper and lower level units down the face of the building to gravel pad in existing garden. Painted White to match the stucco wall. See Condensate Detail C-1 for material and color

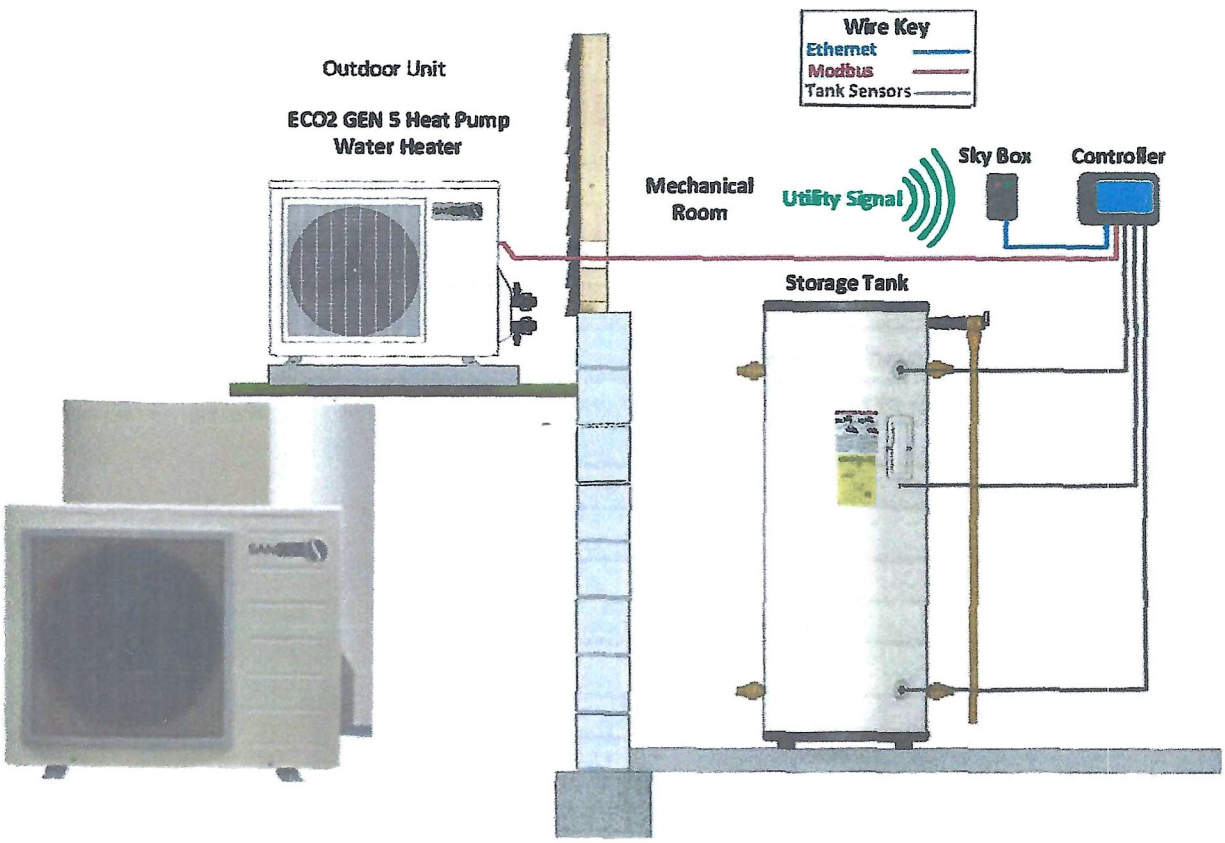
2024-07-02

H.1 Details of 2 Heat Pump Condensers and Photos





SANCO2 GS5 System Communication Controller

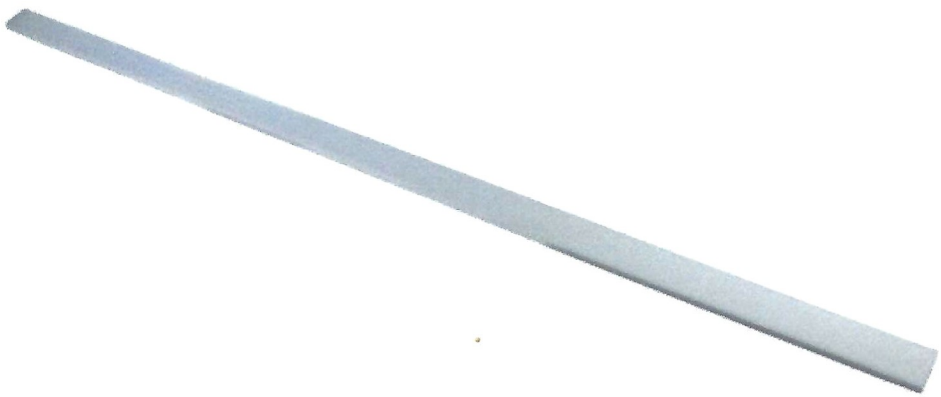


2024-07.02. C-1 Condensate Materials and new Venting Specs

Condensate Cover

SPEEDICHANNEL 3IN. LINE SET COVER - WHITE

Item#: **230-D3W**



The SpeediChannel™ 230-D3W 3 in. white line set cover channel by DiversiTech® is 6-1/2 ft. long and includes a pack of SpeediClips™. It's made of UV resistant PVC material to resist the elements and provide lasting protection.

The condensate cover channel is white. It is 3 inches wide. It will be painted to match the white stucco of the building. The white stucco of the building matches the whitest color of the Primary Building Mass index in the “Santa Barbara Colors” guide from the HLC.

Santa Barbara Colors Guide:

Sherwin Williams 7637 Oyster White

New Heat Pump Vents:

The vents are 8 inch round and are paintable to match the stucco of the building. They are flush and unobtrusive especially compared to the unsightly galvanized gas vents that exist right now.

Existing gas vent

New Maestro Heat Pump Vent

The finished Heat Pump vents are spaced 2.25 inches apart and approximately 8 inches below the window sills.

This is a manufacturer example of what the Heat pump vents look like but we propose to paint to match the building.

2024-07-02. Photos P.1

316 W Anapamu Street East Elevation

316 W Anapamu Street East Elevation

North Elevation

North Elevation

South Elevation

West Elevation

11 garages north side of property

North Neighbor

North Neighbor in relation to North Elevation of applicant.

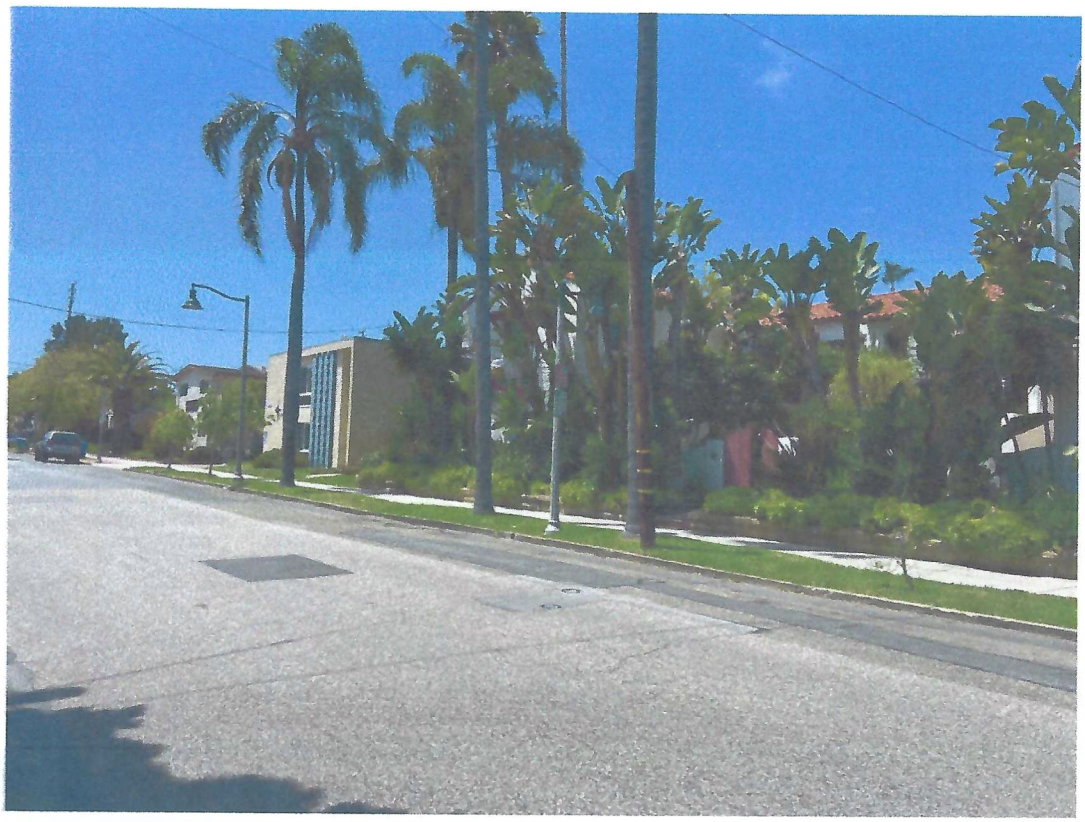
South Neighbor

East Neighbor

East Neighbor

Street scene -North

Street Scene-South

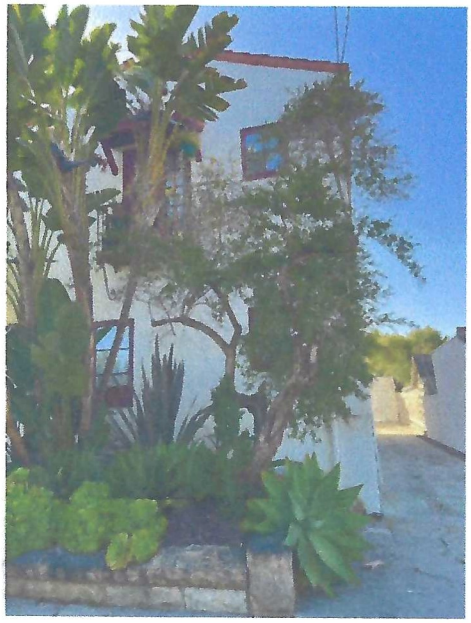


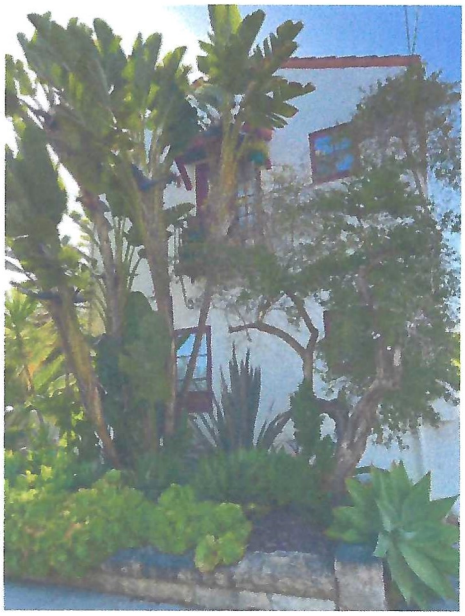
Street Scene-South

Utility Room for new HP Water Heaters

2024-07-02. Landscape Screening L.1

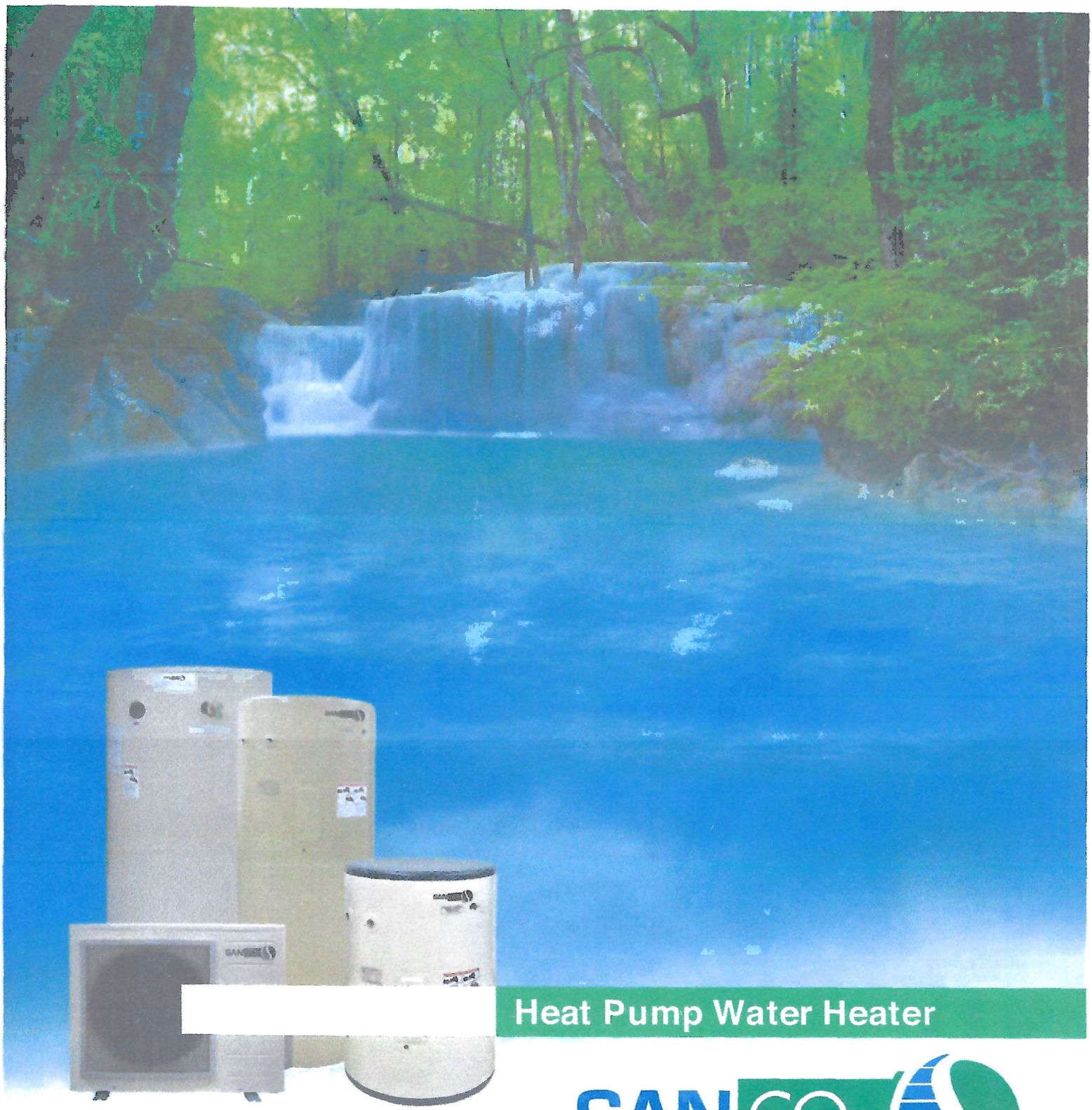
The mechanical equipment placed on a prefab equipment pad in the Front Yard setback on the East Elevation (see East Elevation for description details) will be fully screened by existing trees and shrubs and new plantings that are consistent with the existing garden.





East elevation at Driveway and existing garden in Front yard setback where Mech Equip will be located.

Varied succulents proposed to add to screening of mechanical equipment



Heat Pump Water Heater

GEN4

SANCO2

Hot water, *naturally.*

SANCO$_2$

As a highly energy-efficient alternative to the traditional electric or gas water heater, our unique system saves money, reduces greenhouse gas emissions and eliminates the production of carbon monoxide.

The SANCO$_2$ heat pump water heater system consists of two parts. The heat pump unit, where the hot water is produced, using the CO_2 refrigerant to extract heat from the ambient air, and the 43, 83 and 119 gallon storage tank.

43 Gallon Tank
69-Gallon
first hour delivery

2 to 4 people

83 Gallon Tank
115-Gallon
first hour delivery

5+ people

Superior Features

- **Highest First Hour Rating of any residential electric water heater** (Resistance and Heat Pumps) **provides more hot water.**
- **Simple installation: only plumbing connections are required to connect storage tank and heat pump.**
- **Faster recovery from a hot water draw at 20+ GPH of 150°F water to the top of the tank.**
- **Heat pump will make hot water below -25°F to 104°F ambient temperature.**
- **Highest real world efficiency: 80% savings over electric resistance water heaters and 40%+ over a hybrid HPWH.**
- **Perfect for homes with Solar PV Panels as the unit will use less than 2,000 Watts maximum.**
- **Most environmentally friendly water heater on the market: CO_2 refrigerant has a low global warming potential.**
- **Longest and most comprehensive warranty on the market.**

High Performance

The SANCO$_2$ unit has the highest UFHR (Uniform First Hour Rating) of any comparably sized Storage Electric or Heat Pump Water Heater.

The Natural Refrigerant (CO_2) used by the SANCO$_2$ allows it to make and store hotter water than any other Heat Pump Water Heater. This means there is more energy stored in the tank which translates into more hot water delivered via the factory supplied Mixing Valve.

Energy Efficiency

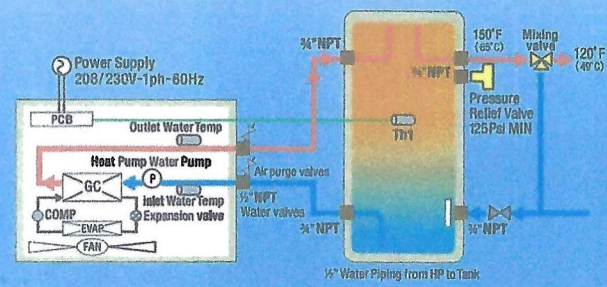
The SANCO$_2$ unit works to maximize the UEF value not only in the test lab, but also in real world operation due to several of its unique features:

Inverter Compressor Inverter Compressors increase the efficiency of a heat pump by varying the speed of the compressor and hence the amount of electrical energy used.

DC Fan Motor & Water Pump The other motors in the SANCO$_2$, the fan and water pump, are also powered by direct current (DC), just like the inverter Compressor. This allows both to run at a speed based on load requirements to optimize energy efficiency.

Technology – How It Works

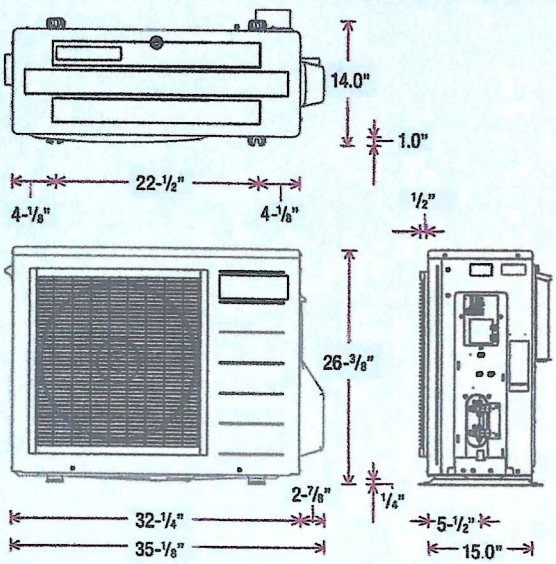
- The SANCO$_2$ Water Heater works like any other storage water heater with one exception. The tank is stratified rather than mixed.
- Cold Water connections are located at the bottom of the tank and Hot Water connections are at the top.
- The Hot Water stored in the tank is hotter than Mixing Valve for normal use in the home or building. The unit is supplied with a Thermostatic Mixing Valve that must be installed to temper the delivered water to fixtures.



SANCO2 GEN4 Specifications

Heat Pump

All dimensions displayed in inches.

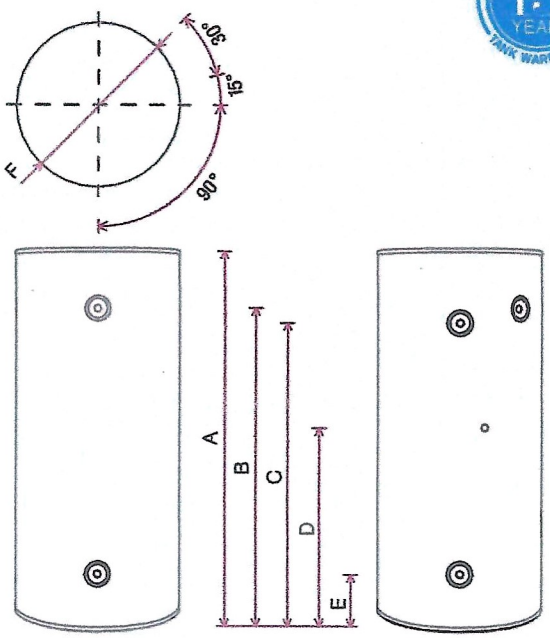


Outdoor Unit (Heat Pump) Model No. GS4-45HPC

Performance	43 Gal Sys	83 Gal Sys	119 Gal Sys
Uniform Energy Factor	3.1	3.75	3.4
First Hour Rating	69 gallons	115 gallons	135 gallons

Specifications	
Water Temperature Setting	145 or 150°F
Ambient Air Operating Range	-25 to 104°F
Nom Heating Capacity (Btu/h)	15,400 Btu/h
Nom Heating Capacity (kw)	4.5kw
Heating COP @ 80/47/17°F	5.5 / 4.2 / 2.8
Refrigerant Type	R744 (CO_2)
Power Voltage	208/230v-1Ph-60Hz
Breaker Size	15 Amps
MCA (Amps)	7.2 Amps
Compressor Type	Rotary
Noise Level (DbA)	37
Weight (lbs)	108lbs
Pipe Size (Tank to Heat Pump)	½"(Both Hot Supply & Cold Return)
Max Length inc Vertical Sep	66 ft
Max Vertical Separation	23 ft
Max Incoming Water Pressure	95 Psi

Stainless Steel Storage Tank*



Tank Model No:		SAN-43SSAOA	SAN-83SSAOA	SAN-119GLBK*
A	Height	38-1/8"	68-7/8"	63-3/5"
B	Hot Water Outlet & PR Valve	29-1/2"	60-1/4"	56"
C	Heat Pump Return	29-1/2"	60-1/4"	60-1/4"
D	Sensor Port	9-3/4"	40-3/8"	56"
E	Cold Water Inlet / Cold Water to HP	8-3/4"	8-3/4"	4"
F	Diameter	24-1/2"	24-1/2"	28"
	Weight (lbs)	88 lbs	115 lbs	345 lbs
	Tank Capacity (gallons)	43 gallons	83 gallons	119 gallons
	Warranty	15 years	15 years	10 years*

Connection Sizes	
Cold Water Inlet	¾" NPT (1½" SAN-119GLBK)
Hot Water Outlet	¾" NPT (1½" SAN-119GLBK)
Cold Water to Heat Pump	¾" NPT
Hot Water Return from Heat Pump	¾" NPT
Pressure Relief Valve Setting (Psig)	125 Psig

REV 02032021

*SAN-119GLBK tank is a glass-lined steel tank with a 10 year warranty.
Note: Materials and specifications are subject to change without notice.

For more information, please call **1-844-SANDCO2** or email **info@eco2systemsllc.com**

Eco2 Systems LLC
P.O. Box 1358, Walled Lake, MI 48390
Phone : 1-844-726-3262 or 1-844-SANDCO2
E-mail : info@eco2systemsllc.com
Website : www.eco2waterheater.com

Eco2 Dealer

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SUBMITTAL : GS4-45HPC & SAN-119GLBK 119 Gallon Tank

Job Name		Location					
Purchaser		Engineer					
Submitted to		Reference	☐	Approval	☐	Construction	☐
Unit Designation		Schedule #					

Specifications	GS4-45HPC
Performance	
Uniform Energy Factor	3.40
Uniform First Hour Rating	135 Gallons
Nom Heating Capacity (Btu/h)	15,400 Btu/h
Nom Heating Capacity (kw)	4.5kw
Heating COP @ 80/47/17°F	5.5 / 4.2 / 2.8
Water Temperature Setting (°F)	145 or 150 DegF
Refrigerant Type	R744 (CO_2)
Refrigerant Charge (Oz)	25.4oz (720g)
Power Voltage	208/230v-1Ph-60Hz
Breaker Size	15A
MCA (Amps)	7.2A
Compressor MRC (Amps)	5.0A
Fan Motor MOC/Watts	0.3A / 30W
Pump MOC/Watts	0.6A / 60W
Noise Level (DbA)	37
Weight (lbs)	108lbs
Storage Tank	**SAN-119GLBK**
Nominal Volume	119 Gallons
Pressure Relief Valve (Psig & °F	150 & 210°F
Temperature Sensor	Thermistor
Tank Weight (lbs)	345lbs
Standby Loss in 67°F Ambient	107 Btu/h
Tank Connection Sizes	
Cold Water Inlet	1 1/2" NPT
Hot Water Outlet	1 1/2" NPT
Cold Water to Heat Pump	3/4" NPT
Hot Water Return from HP	3/4" NPT
Pipe Size - Tank to Heat Pump	
Cold Water pipe - Tank to HP	1/2"
Hot Water pipe - HP to Tank	1/2"
Max Pipe Length inc	66ft
Max Vertical Separation of	23ft
Certifications	
Safety	ETL & ETLc
Performance	Energy Star
Warranty - System	3 Years Labor
Heat Pump	10 Years Parts
Tank	10 Years

Construction
The Outdoor unit shall be galvanized steel with a baked on powder coated finish on all panels except for unit base

Heat Exchangers
Evaporator coil shall be mechanically bonded Aluminum fin to copper tube. Fins shall be coated to resist corrosion
The Refrigerant to Water HX (Gas Cooler) shall be a Double Wall type pressure tested to 6000 psi

Refrigerant System
Compressor shall be a hermetically sealed DC Inverter drive Rotary vane type
Refrigerant shall be R744 (CO_2).
Refrigerant flow shall be controlled by Electronic Expansion Valve

Fan & Motor
The outdoor unit fan shall be a propeller type, driven by a BLDC Motor

Water Pump
The pump shall be a BLDC Impellor type, with a maximum distance of 66ft including a vertical separation of 23ft from the Storage Tank

Controls
The unit shall be operated using a temperature sensor mounted in the Storage tank
Control wiring shall require 16AWG shielded wire
Ambient operating range shall be -25°F to 104°F

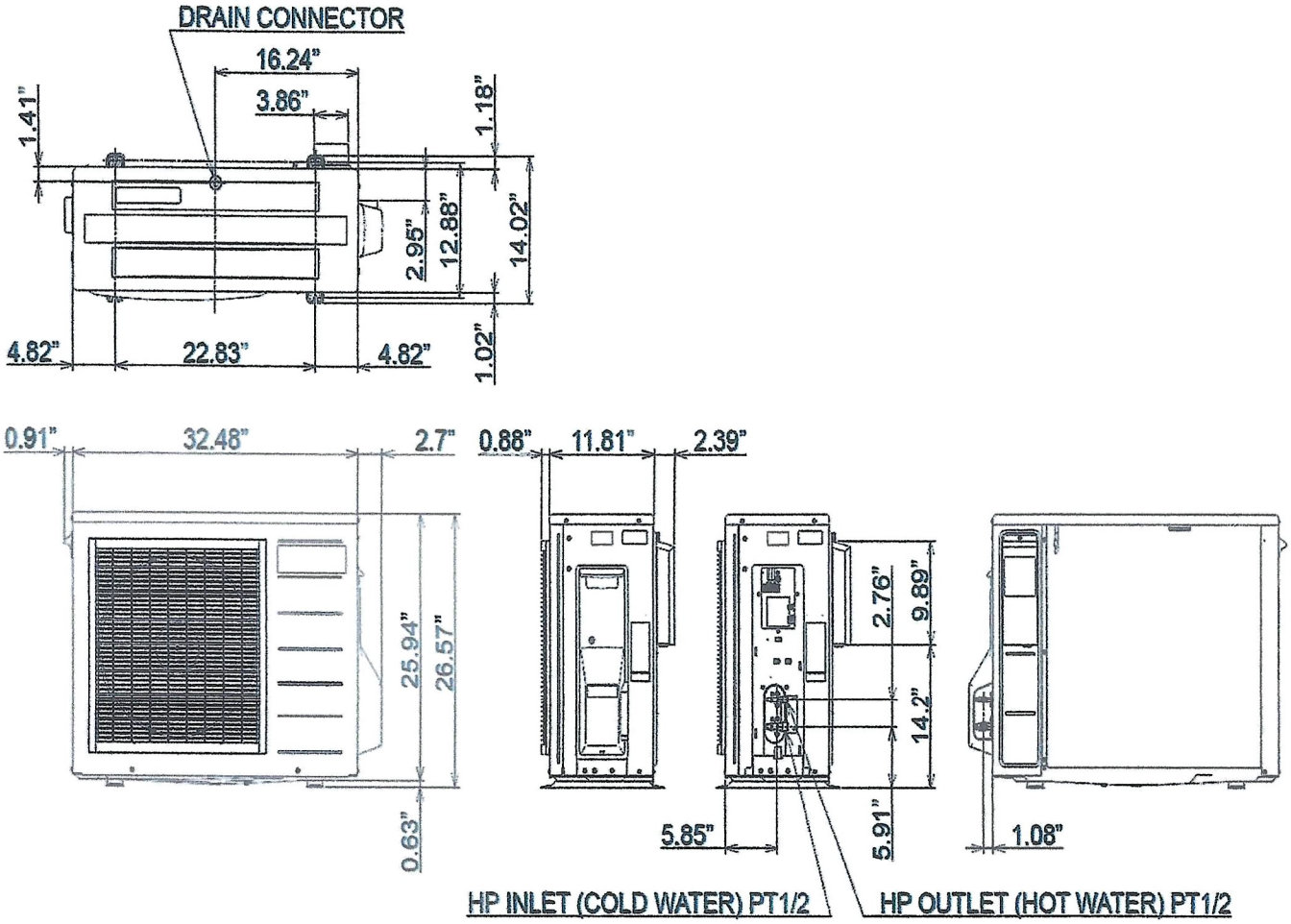
Storage Tank
Storage tank shall be constructed from mild steel with a baked on Colbalt enriched porcelain lining
Storage Tank connections shall be NPT. Storage Tank shall be supplied with Mixing Valve & PTR Valve

Interconnect Piping
Interconnect Piping shall be 1/2" soft copper or where permitted 1/2" PEX tubing
Both Cold and Hot piping should be insulated with 1" closed cell foam and where required Heat Trace tape shall be used to prevent pipes from freezing

SUBMITTAL : GS4-45HPC & SAN-119GLBK 119 Gallon Tank

Job Name	Location					
Purchaser	Engineer					
Submitted to	Reference	☐	Approval	☐	Construction	☐
Unit Designation	Schedule #					

GS4-45HPC Dimensions



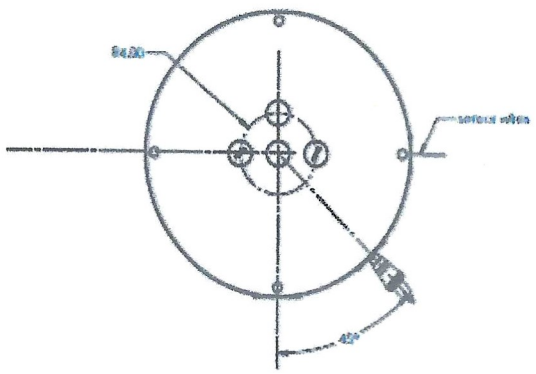
Unit: inch

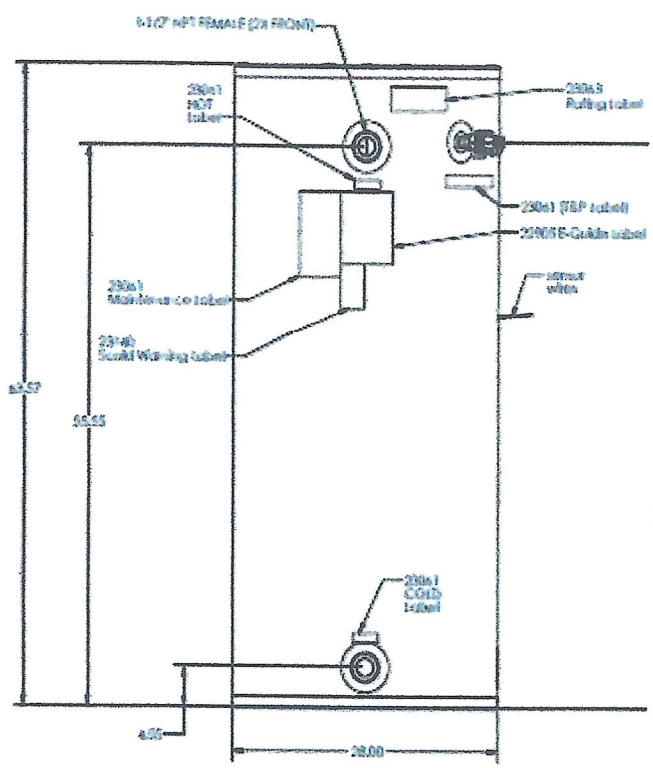
Eco2 Systems LLC PO Box 1358, Walled Lake MI 48390, Tel : 1-844 SAND CO2 (1-844 726 3262)
www.eco2waterheater.com

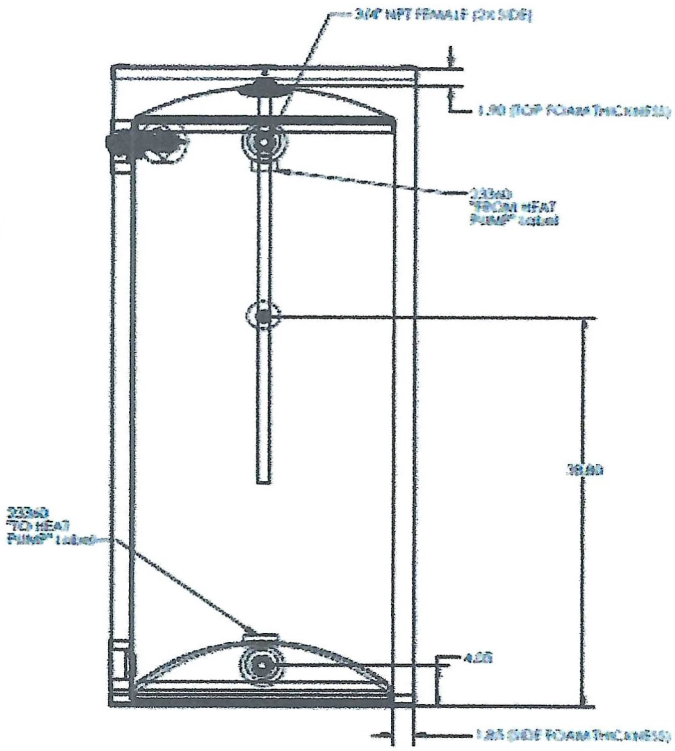
SUBMITTAL : GS4-45HPC & SAN-119GLBK 119 Gallon Tank

Job Name	Location					
Purchaser	Engineer					
Submitted to	Reference	☐	Approval	☐	Construction	☐
Unit Designation	Schedule #					

Storage Tank Dimensions







Due to Eco2 SystemsLLC's policy of on-going product development specifications are subject to change without notice
© 2021 Eco2 Systems LLC

NEW

MAESTRO PRO

With no outdoor unit

Industry leading inverter compressor technology provides unparalleled comfort in heating and cooling for both residential or commercial applications

OLIMPIA SPLENDID
HOME OF COMFORT

Inverter 12 HP

MAESTRO

Made in Italy

CLOUD
Wi Fi Ready
Bluetooth

Industry leading Wi-Fi technology with all the security of the cloud

Maestro Pro12 HP **Model# 01925**

FEATURES

- **Cooling Capacity (BTUs):** up to
- **Heating Capacity (BTUs):** up to
- **Installation Versatility:** Top or bottom wall
- **Easy Installation:** Can be installed from inside the space in just a few minutes
- **Rotating Flap:** Provides total air diffusion for consistent temperature throughout the space.
- **Backlite Display:** On-board touch control
- **User Control Options:**
  Multifunction remote (Standard)
  Wireless Wall Mounted Thermostat (Optional)
- **24 hour Timer**
- **Sound Transmission:** Best in Class STC and OITC

FUNCTIONS

- **Dehumidification Mode:** Controls humidity during mild ambient conditions for increased comfort
- **Fan Mode:** Variable speed motor maintains a consistent temperature throughout the conditioned space.
- **Economy Mode:** Allows for energy saving by automatically optimizing the unit's performance
- **Auto Mode:** Adjusts comfort settings based on ambient conditions.
- **Sleep Mode:** Gradually increases the temperature setpoint ensuring whisper quiet operation, greater comfort and energy savings while you sleep.
- **Silent Mode:** Allows the user to set the system to minimum sound level.

INVERTER COMPRESSOR
Innovative compressor technology that is versatile and efficient with a wide range of frequencies available and electronic management of the thermal expansion valve (TXV)

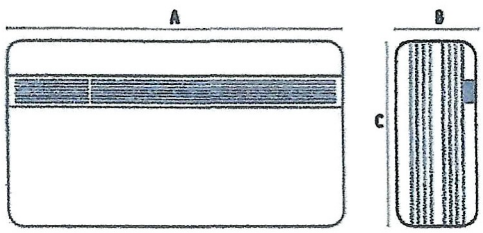
SILENT MODE
Maestro Pro is designed so the inverter compressor and variable speed fan motor operate for maximum acoustical comfort down to 32 dBA (sound power). All enclosed in a sleek Italian designed cabinet by Matteo Thun and lined with state-of-the-art sound reducing material.

VARIABLE SPEED FAN (ECM)
The fan motor has a variable frequency drive technology installed to control motor speed and torque (V PRO). Designed to eliminate swings in temperature resulting in reduced energy consumption while providing quiet operation in all modes.

HEAT PUMP
Our reverse cycle heat pumps offer both heating and cooling to provide occupants with year-round comfort. It can also be used as backup heat during shoulder seasons.

PRO POWER
The use of inverter technology provides a capacity boost up to 11,600 btu/h

REMOTE CONTROL
"Fully Digital" remote control allows functions such as dehumidification, silent mode, sleep mode and ventilation mode.



A	B	C	Weight
35.6"	8.5"	20.5"	86 lbs

S-2

FEATURES AND FUNCTIONS: MAESTRO PRO INVERTER 12 HP

MODEL #01925

Industry leading inverter compressor technology provides unparalleled comfort in heating and cooling for both residential or commercial applications

Cooling Capacity (BTU/h): Up to 11,600

Heating Capacity (BTU/h): Up to 10,600

Installation Versatility: Low or high wall

Easy installation: Can be installed from inside the space in just a few minutes

Rotating Flap: Provides total air diffusion for consistent temperature throughout the space.

Backlite Display: On-board touch control

User Control Options:
- Multifunction remote (Standard)
- Wired wall mounted thermostat (Optional)
- Wireless wall mounted thermostat (Optional)

24 hour Timer

Sound Transmission: Best in Class STC and OITC

Dehumidification Mode
Controls humidity during mild ambient conditions for increased comfort

Economy Mode
Allows for energy saving by automatically optimizing the unit's performance

Auto Mode
Adjusts comfort settings based on ambient conditions.

Sleep Mode
Gradually increases the temperature setpoint ensuring whisper quiet operation, greater comfort and energy savings while you sleep.

Inverter Compressor
Innovative compressor technology that is versatile and efficient with a wide range of frequencies available and with electronic expansion valve (EXV).

Pro Power
The use of inverter technology provides a capacity boost up to 11,600 BTU/h

Remote Control
"Fully Digital" remote control allows functions such as dehumidification, silent mode, sleep mode and ventilation mode.

Heat Pump
Our reverse cycle heat pumps offer both heating and cooling to provide occupants with year-round comfort. It can also be used as backup heat during shoulder seasons.

Wi-Fi Ready
Industry leading Wi-Fi technology with all the security of the cloud

Variable Speed Fan (ECM)
The fan motor has a variable frequency drive technology installed to control motor speed and torque (V PRO). Designed to eliminate swings in temperature resulting in reduced energy consumption while providing quiet operation in all modes. Variable speed motor maintains a consistent temperature throughout the conditioned space.

Silent Mode
Maestro Pro is designed so the inverter compressor and variable speed fan motor operate for maximum acoustical comfort down to 32 dB(A) (sound pressure). All enclosed in a sleek Italian designed cabinet by Matteo Thun and lined with state-of-the-art sound reducing material. Allows the user to set the system to minimum sound level.

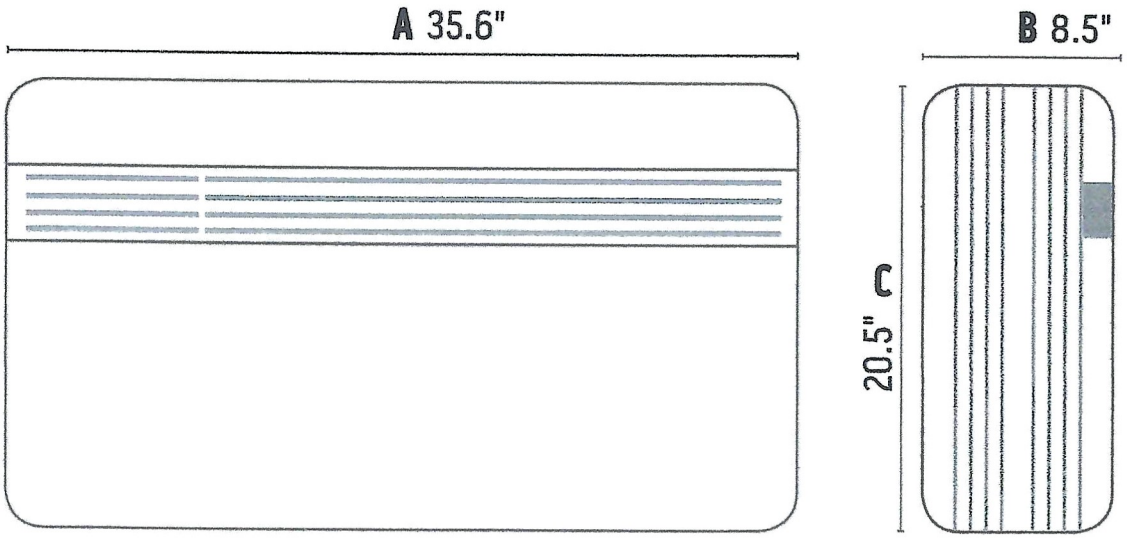
Pure System 2
A multi-filtration system that combines two state of the art filtration technologies:

- **An Electrostatic Filter** designed to eliminate small particles such as smoke, dust, pollen and pet dander to provide relief to people with allergies.

- **An Active Carbon Filter** which eliminates unpleasant odors keeping the indoor air quality fresh and clean.

APPLICATION & INSTALLATION: MAESTRO PRO INVERTER 12 HP

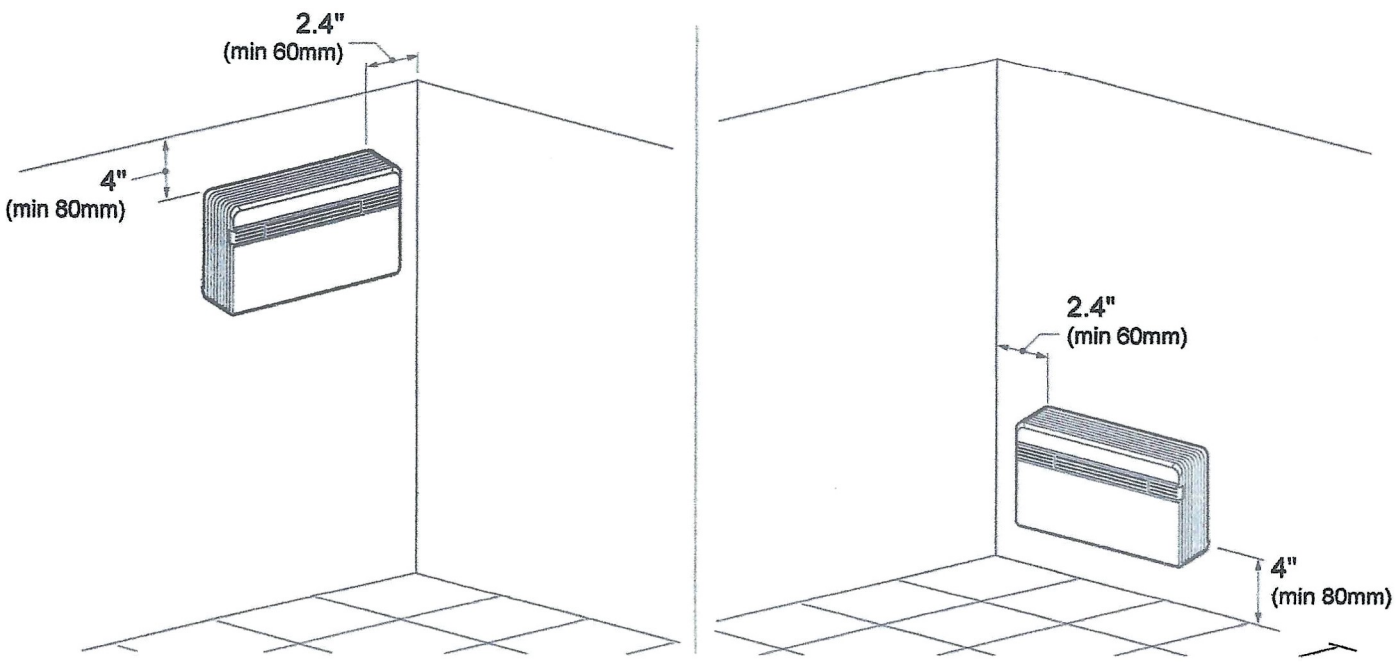
DIMENSIONS:



Unit Dimensions

A	B	C	Weight
35.6"	8.5"	20.5"	86 lbs

CLEARANCES:



PERFORMANCE DATA: MAESTRO PRO INVERTER 12 HP

Model			01925 (Proposed Unit)	02234	02283
Cooling	Capacity Range (Min - Max)	Btu/h	6,600 - 11,600	6,100 - 10,700	6,600 - 11,600
	Capacity (Rated)	Btu/h	8,300	7,600	8,300
	Input Power (Rated)	W	800	710	800
	Input Power (Max)	W	1,400	1,200	1,400
	Operating Range (Outdoor)	°F/ °C	64°F/18°C-109°F/43°C	64°F/18°C-109°F/43°C	64°F/18°C-109°F/43°C
	Combined Energy Efficiency Ratio	CEER	9.7	13.0	9.7
	Moisture Removal	Pts/h	2.3	2.1	2.3
	Sensible Heat Factor	%	0.7	0.7	0.7
Heating 47°F	Capacity Range (Min - Max)	Btu/h	6,200 - 10,600	5,800 - 10,200	6,200 - 10,600
	Capacity (Rated)	Btu/h	8,450	8,050	8,450
	Input Power (Rated)	W	825	800	825
	Input Power (Max)	W	1,400	1,200	1,400
	Energy Efficiency	COP	3.0	2.9	3.0
	Operating Range (Outdoor)	°F	5°F/-15°C-75°F/24°C	5°F/-15°C-75°F/24°C	5°F/-15°C-75°F/24°C
	Defrost Method		Reverse cycle	Reverse cycle	Reverse cycle
Heating 17°F	Capacity Range (Min - Max)	Btu/h	2,900 - 4,900	2,700 - 4,700	2,900 - 4,900
	Input Power (Min-Max)	W	390 - 930	370 - 890	390 - 930
	Energy Efficiency (Min-Max)	COP	2.15 - 1.54	2.13 - 1.53	2.15 - 1.54
Heating 5°F	Capacity Range (Min - Max)	Btu/h	2,200 - 4,000	2,100 - 3,800	2,200 - 4,000
	Input Power (Min - Max)	W	340 - 780	320 - 730	340 - 780
	Energy Efficiency (Min - Max)	COP	1.90 - 1.50	1.53 - 1.92	1.90 - 1.50
Sound	STC (Sound Transmission Class)		36	36	36
	OITC (Outdoor/Indoor Transmission Class)		25	25	25
	Sound Level	dB(A) min-max	32 - 43	32 - 43	32 - 42
	Outdoor	dB(A)	up to 53	up to 53	up to 53

- Test condition: Data refers to conditions and parameters as required by DOE requirements governing this product type.
  HEATING MODE: Outdoor Ambient Temperature DB 47°F/8.3°C WB 43°F/6°C; Indoor Ambient DB 70°F/21°C - WB 60°F/15.6°C
  COOLING MODE: Outdoor Ambient Temperature DB 95°F/35°C WB 75°F/24°C; Indoor Ambient DB 80°F/26.7°C - WB 67°F/19.4°C
- Maximum capacity achieved with Power Pro Boost inverter technology. To achieve full capacity and efficiency 8" diameter openings are recommended. Alternately, 6.5" diameter openings can be used however there is a corresponding loss to capacity and efficiency which can vary based on the specific application.
- CEER is calculated according to the AHAM RAC-1-2020 standard. The Combined Energy Efficiency Ratio (CEER) is a standard that measures the combined efficiency of the unit when it is in standby and when it's actually cooling a space
- Test conditions for sound ratings are conducted as per DOA rating conditions, conducted in a sound chamber performed at a distance of 6.5 feet (2 meters). Minimum sound pressure values are rated in ventilation mode only.
- STC and OITC calculated by an independent 3rd party in accordance with ASHRAE standards.

ELECTRICAL, COMPRESSOR & AIRFLOW: MAESTRO PRO INVERTER 12 HP

Proposed Unit

Model			01925	02234	02283
Compressor	Type		Rotary Inverter	Rotary Inverter	Rotary Inverter
	Brand		GMCC	GMCC	GMCC
	RLA	A	4.9	4.9	4.9
	Refrigerant	ASHRAE #	R-410A	R-410A	R-410A
	Refrigerant Factory Charge	lbs - oz	1 - 5	1 - 5	1 - 5
	Oil	Type	VG74	VG74	VG74
		Oz.	9.5	9.5	9.5
Electrical	Voltage	AC Volts	115	208 - 230	208 - 230
	Volt Range		98 - 127	187 - 253	187 - 253
	Hz/Phase		60-1	60-1	60-1
	Power Supply		LCDI power cord	LCDI power cord	LCDI power cord
	Power Factor		0.85	0.85	0.85
	Cooling (Rated)	A	9.7	3.5	4.8
	Heating (Rated)	A	9.9	3.8	5
	Outdoor EC Fan Motor	F.L.A.	1.93	0.97	0.97
		HP	0.17	0.17	0.17
	Indoor EC Fan Motor	F.L.A.	.33	.14	.14
	MCA	A	10.9	12.5	12.5
	MOCP	A	15	15	15
	Input Power (standby)	W	3	3	3
	Input Power (off mode)	W	.5	.5	.5
Airflow	Indoor	Type	ECM	ECM	ECM
		CFM	Up to 245	Up to 290	Up to 245
		Speeds	3	3	3
		dB(A)	Up to 41	Up to 41	Up to 41
	Outdoor	Type	ECM	ECM	ECM
		CFM	Up to 350	Up to 350	Up to 350
		Speeds	6	6	6
		dB(A)	51	51	51
		Vent	6.4" - 8"	6.4" - 8"	6.4" - 8"

PHYSICAL DATA: MAESTRO PRO INVERTER 12 HP

Proposed Unit

Model			01925	02234	02283
Controls	Basic Functionality		Backlit Dimable, On-board Touch Controller		
	WiFi		Optional	Optional	Optional
	Third Party Controller Compatibility		Optional for Standard and Smart Thermostats		
	BACnet/Modbus Compatible		Yes	Yes	Yes
	ADA Compliant		Yes	Yes	Yes
	Dry Contact		Yes	Yes	Yes
	Restricted Options		Key Pad Lock	Key Pad Lock	Key Pad Lock
	Power Outage Restart			Returns to Last Setting	
Modes	Operation		Cooling, Heating, Dehumidify, Fan Only, Auto		
	Restricted Modes		Heat Only, Cool Only, Temperature Limiting		
	Timers		24 Hour	24 Hour	24 Hour
Condensate Removal	Cooling		Built-in condensate slinger and disposal via gravity drain		
	Heating (Heat Pump)		Gravity Drain	Gravity Drain	Gravity Drain
	Drain Pipe Size	In.	0.8"	0.8"	0.8"
External Vents	Vent Pipes	In.	6.4" - 8"	6.4" - 8"	6.4" - 8"
	Grilles		Standard and Custom Options Available		
Physical Data	Unit	W/H/D	35.5" x 20.4" x 8.5"	35.5" x 20.4" x 8.5"	35.5" x 20.4" x 8.5"
	Shipping	W/H/D	38.6" x 24" x 13"	38.6" x 24" x 13"	38.6" x 24" x 13"
	Net Weight	Lbs.	86	86	86
	Shipping Weight	Lbs.	93	93	93
	Cabinet	Color	RAL 9003	RAL 9003	RAL 9003
		Finish	Specular high gloss	Specular high gloss	Specular high gloss
		Material	Plastic	Plastic	Plastic
Certification	Safety		UL 60335-2-40	UL 60335-2-40	UL 60335-2-40
	Energy Efficiency		AHAM RAC-1-2020	AHAM RAC-1-2020	AHAM RAC-1-2020
Warranty	1 Year (Limited)		Unit Replacement	Unit Replacement	Unit Replacement
	2 Years (Limited)		Parts	Parts	Parts
	7 Years (Limited)		Compressor	Compressor	Compressor
Origin	Country of Origin		Italy	Italy	Italy