



Benefits of Single-Zone Duct-Free Split Art Cool™ Premier Systems

- Inverter technology
- Available in 9,000 and 12,000 Btu/h capacities
- All-season use—heat pump models for both cooling and heating capabilities
- Operating ranges for outdoor units of 14°F to 118°F (DB) for cooling; -13°F to 75°F (WB) for heating
- Operating ranges for indoor units of 64°F to 90°F (WB) for cooling; 60°F to 86°F (DB) for heating
- Quiet operation inside and out



About LG Electronics, Inc.

LG Electronics, Inc. is a global leader and technology innovator in consumer electronics, mobile communications, and home appliances, employing more than 213,000 people in more than 60 countries worldwide. LG's commercial air conditioning business unit was established in 1968, and offers VRF, Multi F, duct-free split systems, packaged terminal air conditioners (PTACs), and room air conditioners.

With LG, it's all possible.™

Art Cool™ Premier

Single-Zone Duct-Free System

Split systems are comprised of two major components—indoor units and outdoor units—that are connected through refrigerant piping and power wiring / communications cable. These Inverter heat pump systems provide a smart alternative to both central HVAC and window-mounted air conditioners, and are available in a variety of configurations to suit different cooling and heating situations. Installation by a qualified HVAC contractor is safe and easy—little to no duct work or sheet metal is required.

Art Cool™ Premier Systems

The Art Cool™ Premier Wall-Mount Split System is among the industry's best air-conditioning units. Choosing this product provides a system designer an edge with individual advanced control and design flexibility.

Art Cool™ Premier systems are available in nominal capacities of 3/4 and 1 ton. These are best suited for applications with zones that require heating or cooling, such as residential and small business office buildings.



Inverter Technology

Inverter variable-speed split systems are measurably quieter and consume less energy than conventional air conditioners. The Inverter compressor ramps up or down to match the required room capacity and maintain the comfort level. When the selected temperature is reached, the inverter compressor operates at low speed to maintain that comfort level, thereby using less energy.

Quality Commitment

LG is committed to the success of air-conditioning projects. We provide technical support during installation, and offer a variety of classes designed for installers and service providers. Classes are conducted at LG's training centers and in field locations at various times throughout the year and upon special request.

Art Cool™ Premier Single-Zone Duct-Free Split Systems

LA090HYV

9,000 Btu/h Cooling
11,000 Btu/h Heating

LA120HYV

12,000 Btu/h Cooling
13,600 Btu/h Heating



Features

- Inverter (Variable speed compressor)
- Gold Fin™ anti-corrosion
- Self-cleaning indoor coil
- Cooling / Heating / Fan modes
- Jet Cool / Jet Heat
- Chaos Wind
- Four-way auto swing
- Dehumidifying mode
- Auto restart
- Auto changeover
- Built-in low ambient standard, down to 14°F (Cooling mode)
- 24-Hour on-off timer
- Condensate sensor connection
- Includes handheld remote controller

Warranty: Five (5) years parts; seven (7) years compressor.

System Model Number		LA090HYV	LA120HYV
Indoor Unit Model Number		LAN090HYV	LAN120HYV
Outdoor Unit Model Number		LAU090HYV	LAU120HYV
Rated Cooling Capacity (Btu/h)		9,000	12,000
Rated Heating Capacity (Btu/h) (47°F [DB] / 43°F [WB])		11,000	13,600
Rated Heating Capacity (Btu/h) (19°F [DB] / 17°F [WB])		7,100	8,400
Maximum Heating Capacity (19°F [DB] / 17°F [WB])		11,935	14,650
Maximum Heating Capacity (6°F [DB] / 5°F [WB])		11,220	13,720
Maximum Heating Capacity (-12°F [DB] / -13°F [WB])		7,920	9,520
EER (at Rated Cooling Capacity)		16.0	14.1
SEER (at Rated Cooling Capacity)		27.5	25.5
HSPF (at Rated Heating Capacity 47°F [DB] / 43°F [WB])		11.8	11.5
Air Circulation	CFM (Max. / H / M / L)	547 / 494 / 417 / 283	547 / 494 / 417 / 283
Fan Speeds		6 / 6 / 6	6 / 6 / 6
Dehumidification	pts. / hr.	3.3	3.7
Thermostat Range	Cooling (°F WB)	64 - 90	64 - 90
	Heating (°F DB)	60 - 86	60 - 86
Indoor Unit Sound Pressure Levels	dB(A) (H / M / L)	42 / 36 / 25	42 / 36 / 25
Outdoor Unit Sound Pressure Level	dB(A)	45	45
Power Supply (Outdoor and Indoor, Phase / V / Hz)		1 / 208-230 / 60	1 / 208-230 / 60
Indoor Unit Dimensions			
W x H x D	in.	34-7/16 x 11-5/8 x 9-1/4	34-7/16 x 11-5/8 x 9-1/4
Net Unit Weight	lbs.	24.3	24.3
Outdoor Unit Dimensions			
W x H x D	in.	30-5/16 x 21-1/2 x 11-5/16	30-5/16 x 21-1/2 x 11-5/16
Net Unit Weight	lbs.	72.8	72.8

Job Name/Location:

Tag #:

Date:

For: ☐ File ☐ Resubmit

PO No.:

☐ Approval ☐ Other _____

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

LA090HYV

Art Cool™ Premier Single Zone Inverter

Outdoor Unit (ODU) - LAU090HYV Indoor Unit (IDU) - LAN090HYV

**Performance:****Cooling:**

Capacity (Btu/h)	9,000
SEER	27.5
EER	16.0

SEER - Seasonal Energy Efficiency Ratio EER - Energy Efficiency Ratio

Heating:

Capacity (Btu/h)	11,000
HSPF	11.8

HSPF - Heating Seasonal Performance Factor

Cooling Nominal Test Conditions:

Indoor: 80°F DB/67°F WB

Outdoor: 95°F DB/75°F WB

Heating Nominal Test Conditions:

Indoor: 70°F DB/60°F WB

Outdoor: 47°F DB/43°F WB

Electrical:

Power Supply (V ¹ /Hz/Ø)	208-230/60/1
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Outdoor Unit:

MOP (A)	15
MCA (A)	11.2
Cooling Rated Amps (A)	8.70
Heating Rated Amps (A)	8.70
Compressor (A)	8.3
Fan Motor (A)	0.40

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Total Power Input:

Cooling Power Input (kW)	0.56
Heating Power Input (kW)	0.70

Piping:

Liquid Line (in, OD)	1/4
Vapor Line (in, OD)	3/8
Additional Refrigerant (oz/ft)	0.22
Max Pipe Length (ft) ²	65.6
Piping Length (no add'l refrigerant, ft)	41.0
Max Elevation (ft)	32.8

Controls Features:

- 24-Hour on/off timer
- 4-Way auto swing
- Auto changeover
- Auto restart
- Built-in low ambient operation to 14°F
- Chaos wind
- Condensate sensor connection
- Defrost control
- Dehumidifying mode
- Hot start
- Jet cool/Jet heat
- Self cleaning indoor coil
- Self diagnosis
- Sleep mode
- Soft dry operation
- Ultra quiet operation
- Cooling only switch

Optional Accessories (sold separately):

- ☐ LG Programmable Thermostat - PREMTB10U
- ☐ Dry Contact for third party thermostat - PQDSBNGCM1

Operating Range:**Outdoor Unit:**

Cooling (°F DB)	14-118
Heating (°F WB)	-13-75

Indoor Unit:

Cooling (°F WB)	64-90
Heating (°F DB)	60-86

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs)	2.54
ODU Sound Pressure (Max) ±3 dB(A) ³	45
IDU Sound Pressure (H/M/L/Sleep) ±3 dB(A) ³	42/36/25/17
ODU Net Unit Weight (lbs)	73
ODU Shipping Weight (lbs)	78
IDU Net Unit Weight (lbs)	25
IDU Shipping Weight (lbs)	29
Heat Exchanger Coating	GoldFin™

Fan:

ODU Type	Propeller
IDU Type	Cross Flow
Fan Speeds (Fan/Cooling/Heating)	6/6/6
Quantity (ODU + IDU)	1 + 1
Motor/Drive	Brushless Digitally Controlled/Direct
ODU Max Air Flow Rate (CFM)	1,165
IDU Air Flow H/M/L (CFM)	494/417/283
Dehumidification (pts/hr)	3.3

Notes:

1. Acceptable operating voltage: 187V - 253V.
2. Piping lengths are equivalent.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 1996.
4. All power/communication cable to be minimum 18 AWG, 4-conductor, stranded, shielded and must comply with applicable local and national code.
5. See Engineering Manual for sensible and latent capacities.
6. Power wiring cable size must comply with the applicable local and national code.
7. The indoor unit comes with a dry helium charge.
8. This data is rated 0 ft above sea level, with 24.6 ft of refrigerant line and a 0 ft level difference between outdoor and indoor units.
9. Must follow installation instructions in the applicable LG installation manual.

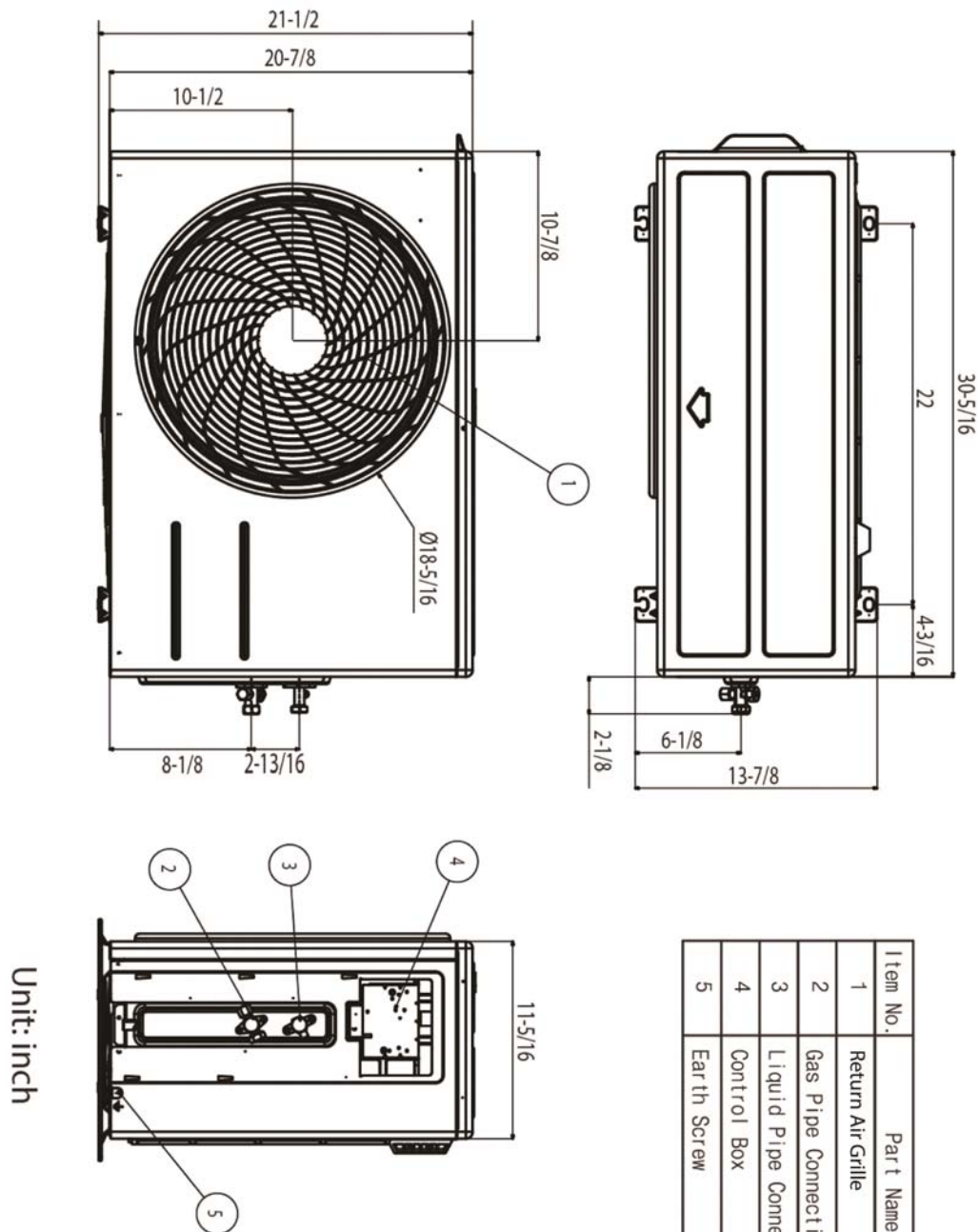


Job Name/Location:

Outdoor Unit (ODU) - LAU090HYV
Art Cool™ Premier Single Zone Inverter



Tag #: _____
Date: _____
PO No.: _____



Item No.	Part Name	Remarks
1	Return Air Grille	
2	Gas Pipe Connection Port	
3	Liquid Pipe Connection Port	
4	Control Box	
5	Earth Screw	

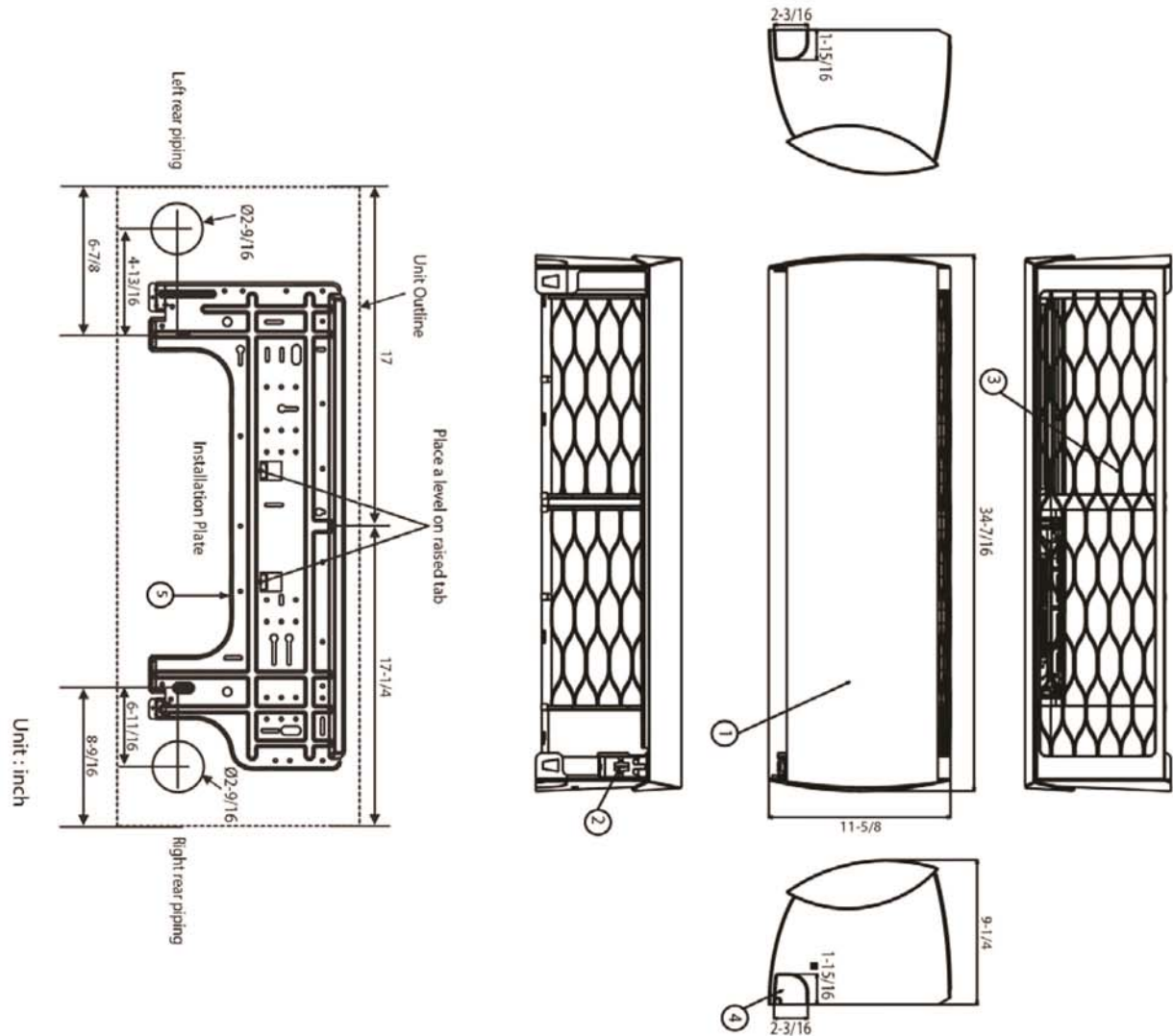
Indoor Unit (IDU) - LAN090HYV
Art Cool™ Premier Single Zone Inverter



Tag #:

Date:

PO No.:



Item No	Part Name	Remarks
1	Front Panel	
2	Display & Signal Receiver	
3	Return Air Grille	
4	Knockout hole	For pipe and cable
5	Installation Plate	

Job Name/Location:

Tag #:

Date:

For: ☐ File ☐ Resubmit

PO No.:

☐ Approval ☐ Other _____

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

LA120HYV

Art Cool™ Premier Single Zone Inverter

Outdoor Unit (ODU) - LAU120HYV Indoor Unit (IDU) - LAN120HYV

**Performance:****Cooling:**

Capacity (Btu/h)	12,000
SEER	25.5
EER	14.1

SEER - Seasonal Energy Efficiency Ratio EER - Energy Efficiency Ratio

Heating:

Capacity (Btu/h)	13,600
HSPF	11.5

HSPF - Heating Seasonal Performance Factor

Cooling Nominal Test Conditions:

Indoor: 80°F DB/67°F WB
Outdoor: 95°F DB/75°F WB

Heating Nominal Test Conditions:

Indoor: 70°F DB/60°F WB
Outdoor: 47°F DB/43°F WB**Electrical:**

Power Supply (V ¹ /Hz/Ø)	208-230/60/1
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Outdoor Unit:

MOP (A)	15
MCA (A)	11.2
Cooling Rated Amps (A)	8.70
Heating Rated Amps (A)	8.70
Compressor (A)	8.3
Fan Motor (A)	0.40

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Total Power Input:

Cooling Power Input (kW)	0.85
Heating Power Input (kW)	0.86

Piping:

Liquid Line (in, OD)	1/4
Vapor Line (in, OD)	3/8
Additional Refrigerant (oz/ft)	0.22
Max Pipe Length (ft) ²	65.6
Piping Length (no add'l refrigerant, ft)	41.0
Max Elevation (ft)	32.8

Controls Features:

- 24-Hour on/off timer
- 4-Way auto swing
- Auto changeover
- Auto restart
- Built-in low ambient operation to 14°F
- Chaos wind
- Condensate sensor connection
- Defrost control
- Dehumidifying mode
- Hot start
- Jet cool/Jet heat
- Self cleaning indoor coil
- Self diagnosis
- Sleep mode
- Soft dry operation
- Ultra quiet operation
- Cooling only switch

Optional Accessories (sold separately):

- ☐ LG Programmable Thermostat - PREMTB10U
- ☐ Dry Contact for third party thermostat - PQDSBNGCM1

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Cooling (°F WB)	64-90
Heating (°F DB)	60-86

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs)	2.54
ODU Sound Pressure (Max) ±3 dB(A) ³	45
IDU Sound Pressure (H/M/L/Sleep) ±3 dB(A) ³	42/36/25/17
ODU Net Unit Weight (lbs)	73
ODU Shipping Weight (lbs)	78
IDU Net Unit Weight (lbs)	25
IDU Shipping Weight (lbs)	29
Heat Exchanger Coating	GoldFin™

Fan:

ODU Type	Propeller
IDU Type	Cross Flow
Fan Speeds (Fan/Cooling/Heating)	6/6/6
Quantity (ODU + IDU)	1 + 1
Motor/Drive	Brushless Digitally Controlled/Direct
ODU Max Air Flow Rate (CFM)	1,165
IDU Air Flow H/M/L (CFM)	494/417/283
Dehumidification (pts/hr)	3.7

Notes:

1. Acceptable operating voltage: 187V - 253V.
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5. See Engineering Manual for sensible and latent capacities.
6. Power wiring cable size must comply with the applicable local and national code.
7. The indoor unit comes with a dry helium charge.
8. This data is rated 0 ft above sea level, with 24.6 ft of refrigerant line and a 0 ft level difference between outdoor and indoor units.
9. Must follow installation instructions in the applicable LG installation manual.



Job Name/Location:

Outdoor Unit (ODU) - LAU120HYV

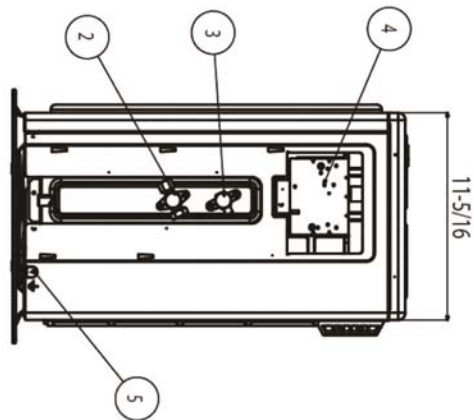
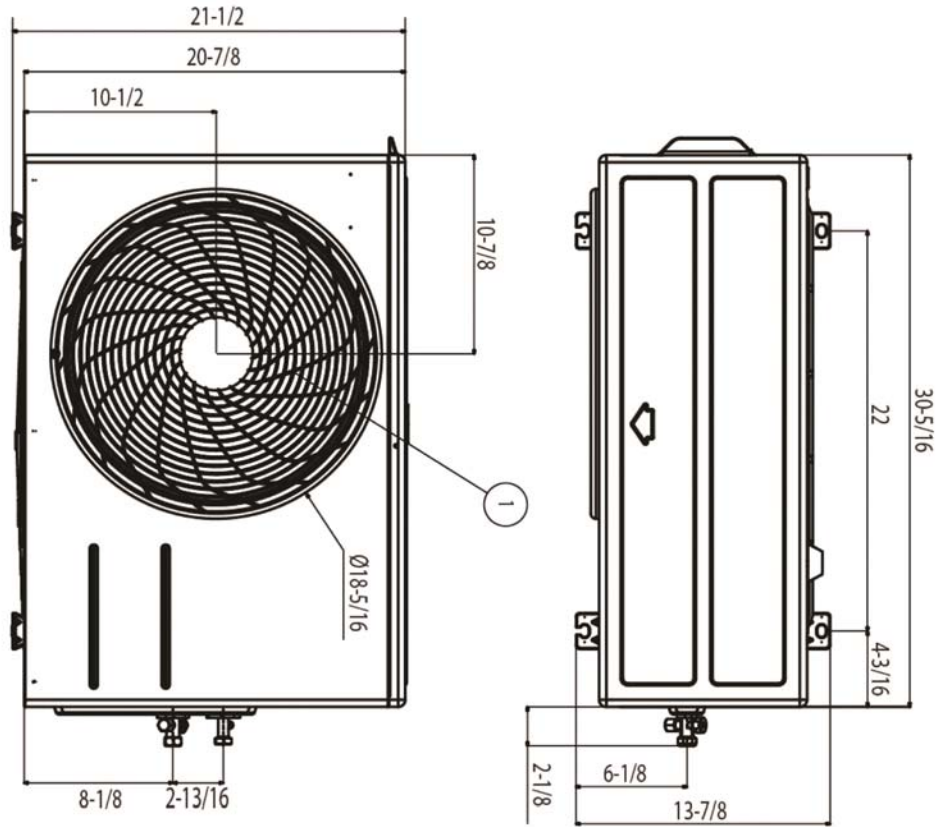
Art Cool™ Premier Single Zone Inverter



Tag #:

Date:

PO No.:



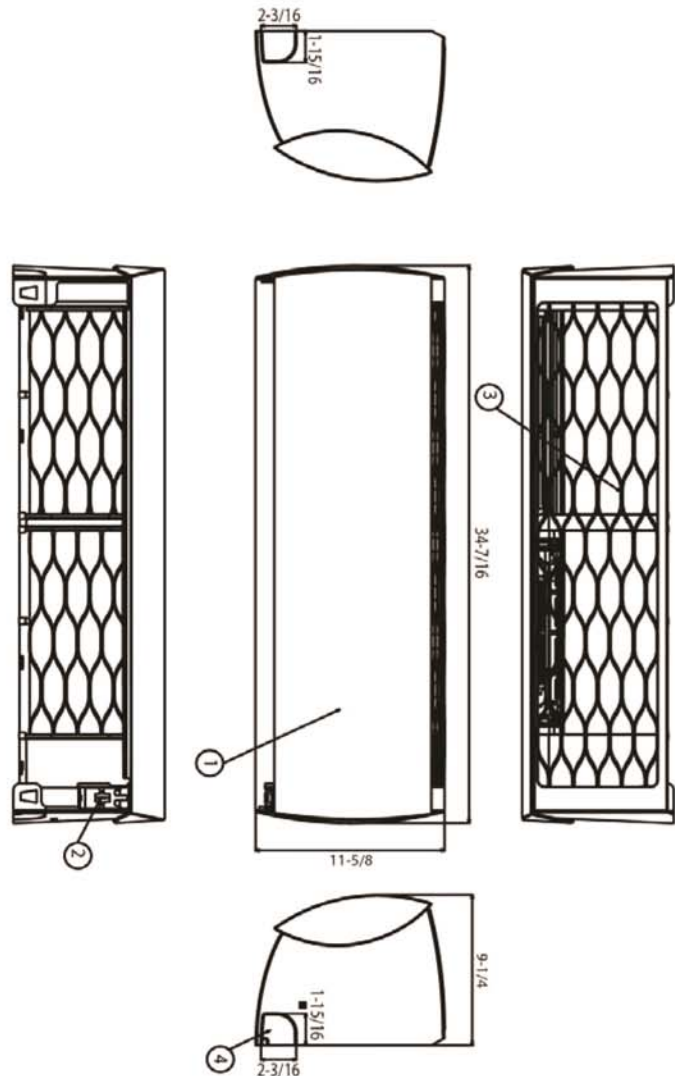
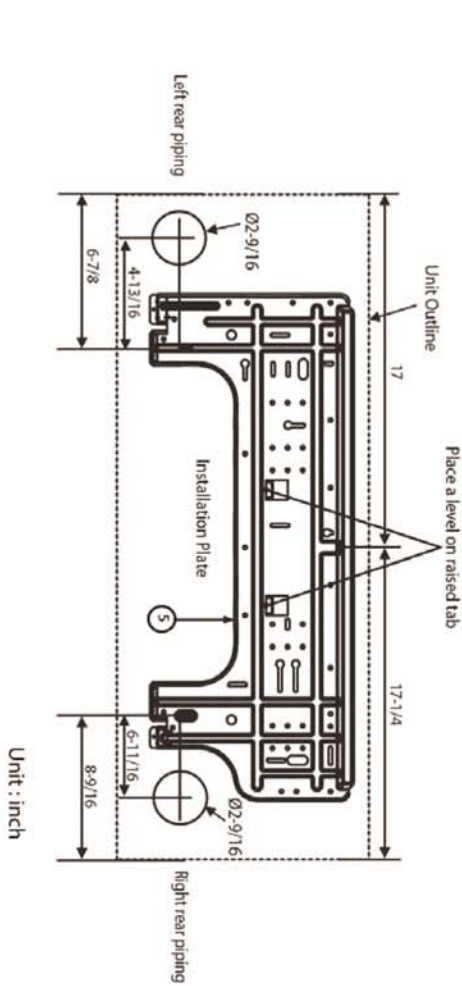
Unit: inch

Item No.	Part Name	Remarks
1	Return Air Grille	
2	Gas Pipe Connection Port	
3	Liquid Pipe Connection Port	
4	Control Box	
5	Earth Screw	

Indoor Unit (IDU) - LAN120HYV
Art Cool™ Premier Single Zone Inverter



Tag #: _____
Date: _____
PO No.: _____



Item No	Part Name	Remarks
1	Front Panel	
2	Display & Signal Receiver	
3	Return Air Grille	
4	Knockout hole	For pipe and cable
5	Installation Plate	