

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

- Inverter technology
- Available in 9,000, 12,000, 18,000, 24,000 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;
 5°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.™



Single-Zone Duct-Free System

Duct-Free 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™ Mirror Systems

LG's Art Cool™ Mirror indoor units have a flat panel with a smoked charcoal mirror finish for a modern style. Choose from several operating settings in cooling or heating for customized comfort. The removable, washable and plasma filters are easily accessible from the front of the unit without using tools. Art Cool™ Mirror systems are available in nominal capacities of 3/4, 1, 1-1/2, and 2 tons. These systems 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™ Mirror Single-Zone Duct-Free Split Systems

LA090HSV2

9,000 Btu/h Cooling 10,800 Btu/h Heating

LA120HSV2

11,200 Btu/h Cooling 13,300 Btu/h Heating

LA180HSV2

18,200 Btu/h Cooling 22,000 Btu/h Heating



LA240HSV2

22,000 Btu/h Cooling 27,600 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
- · 4-Way auto swing
- · Dehumidifying mode
- Auto restart / changeover
- Built-in low ambient standard, down to 14°F (Cooling mode)
- Condensate sensor connection
- · Plasma air purifying system
- Includes handheld remote controller

• 24-Hour on-off timer

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

System Mode	l Number	LA090HSV2	LA120HSV2	LA180HSV2	LA240HSV2
Indoor Unit Model Number		LAN090HSV2	LAN120HSV2	LAN180HSV2	LAN240HSV2
Outdoor Unit Model Number		LAU090HSV2	LAU120HSV2	LAU180HSV2	LAU240HSV2
Rated Cooling Capacity	(Btu/h)	9,000	11,200	18,200	22,000
Rated Heating Capacity	y (Btu/h)	10,800	13,300	22,000	27,600
EER		13.3	12.5	12.6	10.8
SEER		20.0	20.0	20.5	20.0
HSPF		11.0	11.0	9.7	10.0
Air Circulation	CFM (Max./H/M/L)	423 / 335 / 272 / 212	423 / 353 / 272 / 212	777 / 622 / 509 / 399	777 / 632 / 526 / 399
Fan Speeds		6/6/6	6/6/6	6/6/6	6/6/6
Dehumidification	pts. / hr.	2.6	3.0	5.5	5.5
Thermostat Range	Cooling (°F WB)	64 - 90	64 - 90	64 - 90	64 - 90
Thermostat Kange	Heating (°F DB)	60 - 86	60 - 86	60 - 86	60 - 86
Indoor Unit Sound Pressure Levels	dB(A) (H / M / L)	38 / 33 / 24	39 / 33 / 24	45 / 40 / 35	45 / 40 / 35
Outdoor Unit Sound Pressure Level	dB(A)	45	45	53	53
Power Supply (Outdoor Phase / V / Hz)	and Indoor,	1 / 208~230 / 60	1 / 208~230 / 60	1 / 208~230 / 60	1 / 208~230 / 60
Indoor Unit Dimensions					
WxHxD	in.	34-13/16 x 11-1/4 x 8-1/16	34-13/16 x 11-1/4 x 8-1/16	40-9/16 x 12-13/16 x 9-11/16	40 9/16 x 12 13/16 x 9 11/16
Net Unit Weight	lbs.	24.3	24.3	37.5	37.5
Outdoor Unit Dimensions					
WxHxD	in.	30-5/16 x 21-1/2 x 11-5/16	30-5/16 x 21-1/2 x 11-5/16	34-1/4 x 31-1/2 x 12-5/8	34-1/4 x 31-1/2 x 12-5/8
Net Unit Weight	lbs.	77.2	77.2	132.3	132.3

Job Name/Location: Tag #:

(Project Manager)

Date:	For: File Resubmit
PO No.:	Approval Other
Architect:	GC:
Engr:	Mech:
Rep:	







LA090HSV2

Art Cool™ Single Zone Inverter

Outdoor Unit (ODU)-LAU090HSV2 Indoor Unit (IDU)-LAN090HSV2



Performance:

Cooling:

(Company)

Capacity (Btu/h)	9,000
SEER	20.0
EER	13.3

Heating:

Capacity (Btu/h)	10,800
HSPF	11.0

HSPF - Heating Seasonal Performance Factor

Cooling Nominal Test Conditions: Heating Nominal Test Conditions: Indoor: 80°F DB/67°F WB Indoor: 70°F DB/60°F WB Outdoor: 95°F DB/75°F WB Outdoor: 47°F DB/43°F WB

Electrical: **Outdoor Unit:**

Power Supply (V¹/Hz/Ø)	208-230/60/1
MOP (A)	15
MCA (A)	10
Cooling Rated Amps (A)	7.5
Heating Rated Amps (A)	8.5
Compressor (A)	7.6
Fan Motor (A)	0.45

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Indoor Unit:

Power Supply (V¹/Hz/Ø)	208-230/60/1
Cooling Power Input (kW)	0.67
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

Features:

Chaos wind	Jet cool/Jet heat
 Condensate Sensor 	 Plasma air purifying
Connection	system
Energy saving	•Self-cleaning indoor coil
•Inverter (variable speed	Sleep mode
compressor)	 Ultra quiet operation
	•Condensate Sensor Connection •Energy saving •Inverter (variable speed

Optional Accessories (sold separately):

LG Programmable Thermostat - PREMTB10U

Dry Contact for third party thermostat - PQDSBNGCM1

Dry Contact Unit (1 contact, 24 VAC external power) - PQDSB1

Operating Range:

Outdoor Unit:

Cooling (°F DB)	14-118
Heating (°F DB)	5-75

Indoor Unit:

Cooling (°F DB)	64-90
Heating (°F DB)	61-86

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs)	2.21
ODU Sound Pressure Max (±3 dB(A)) ³	45
IDU Sound Pressure (H/M/L) (±3 dB(A)) ³	38/33/24
ODU Net Unit Weight (lbs)	78
ODU Shipping Weight (lbs)	82
IDU Net Unit Weight (lbs)	25
IDU Shipping Weight (lbs)	30
Heat Exchanger Coating	GoldFin™

Fan:

ODU Type	Propeller
IDU Type	Cross Flow
Fan Speeds (Fan/Cooling/Heati	ng) 5/6/5
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)	335/272/212
Dehumidification (pts/hr)	2.6

- 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 communication/power 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.





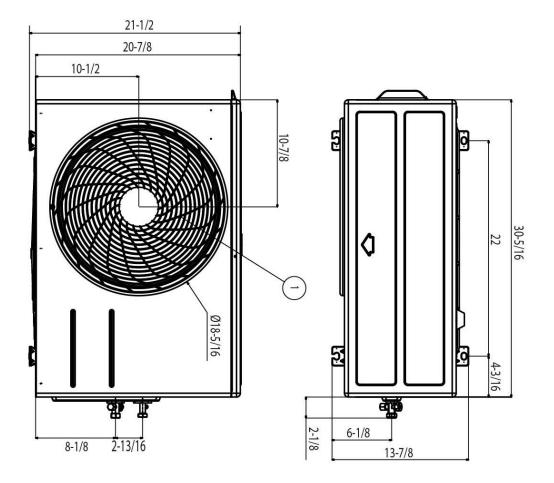


Outdoor Unit (ODU)-LAU090HSV2 Art Cool™ Single Zone Inverter

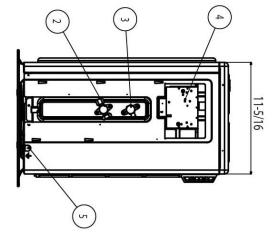


Tag #:

Date:



Unit: inch



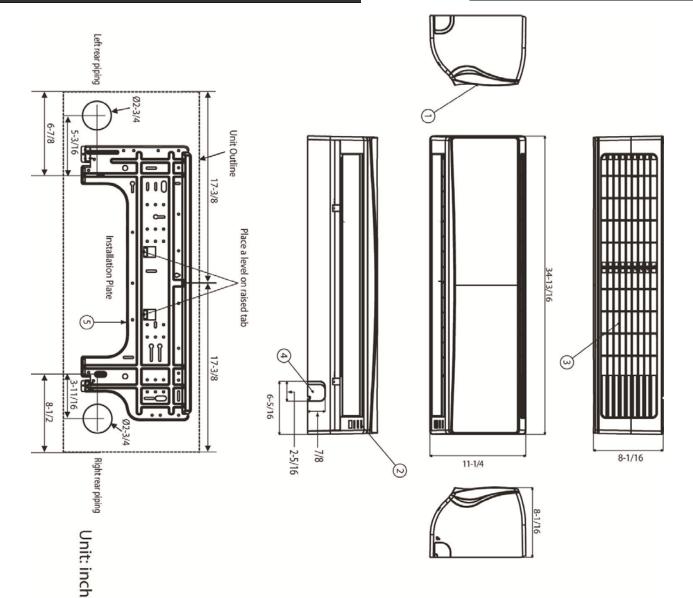
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Earth Screw	Control Box	Liquid Pipe Connection Port	Gas Pipe Connection Port	Air Discharge Grille	Part Name
					Remarks

Indoor Unit (IDU)-LAN090HSV2

Art Cool™ Single Zone Inverter



Tag #:



n No.	Part Name	Remarks
1	Front Panel	
2	Display & Signal Receiver	
3	Air Suction 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)





LA120HSV2

Art Cool™ Single Zone Inverter

Outdoor Unit (ODU)-LAU120HSV2 Indoor Unit (IDU)-LAN120HSV2

Performance:

Cooling:

Capacity (Btu/h)	11,200
SEER	20.0
EER	12.5

Heating:

Capacity (Btu/h)	13,300
HSPF	11.0

HSPF - Heating Seasonal Performance Factor

Cooling Nominal Test Conditions: Heating Nominal Test Conditions: Indoor: 80°F DB/67°F WB Indoor: 70°F DB/60°F WB
Outdoor: 95°F DB/75°F WB Outdoor: 47°F DB/43°F WB

Electrical: Outdoor Unit:

Power Supply (V¹/Hz/Ø)	208-230/60/1
MOP (A)	15
MCA (A)	10
Cooling Rated Amps (A)	7.5
Heating Rated Amps (A)	8.5
Compressor (A)	7.6
Fan Motor (A)	0.45

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Indoor Unit:

Power Supply (V¹/Hz/Ø)	208-230/60/1
Cooling Power Input (kW)	0.89
Heating Power Input (kW)	1.0

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

Features:

Chaos wind	Jet cool/Jet heat
 Condensate Sensor 	 Plasma air purifying
Connection	system
Energy saving	•Self-cleaning indoor coil
•Inverter (variable speed	•Sleep mode
compressor)	 Ultra quiet operation
	•Condensate Sensor Connection •Energy saving •Inverter (variable speed

Optional Accessories (sold separately):

■ LG Programmable Thermostat - PREMTB10U

Dry Contact for third party thermostat - PQDSBNGCM1

Dry Contact Unit (1 contact, 24 VAC external power) - PQDSB1

Life's Good

Operating Range:

Outdoor Unit:

Cooling (°F DB)	14-118
Heating (°F DB)	5-75

Indoor Unit:

Cooling (°F DB)	64-90
Heating (°F DB)	61-86

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs)	2.21
ODU Sound Pressure Max (±3 dB(A)) ³	45
IDU Sound Pressure (H/M/L) (±3 dB(A)) ³	39/33/24
ODU Net Unit Weight (lbs)	78
ODU Shipping Weight (lbs)	82
IDU Net Unit Weight (lbs)	25
IDU Shipping Weight (lbs)	30
Heat Exchanger Coating	GoldFin™

Fan:

ODU Type	Propeller
IDU Type	Cross Flow
Fan Speeds (Fan/Cooling/Heat	ing) 5/6/5
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)	353/272/212
Dehumidification (pts/hr)	3.0

- 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.
- A.All communication/power 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.





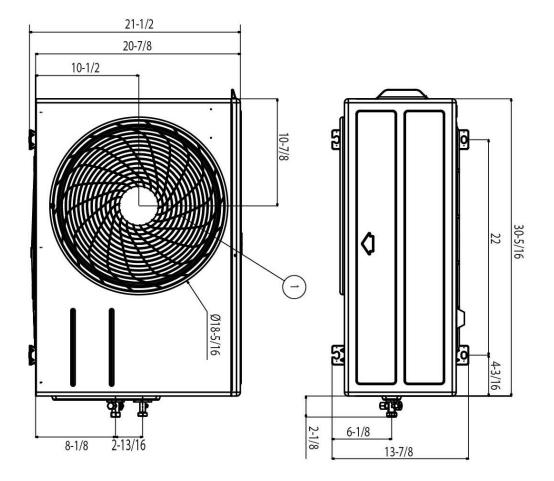


Outdoor Unit (ODU)-LAU120HSV2 Art Cool™ Single Zone Inverter

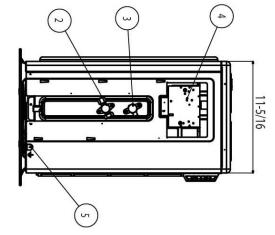


Tag #:

Date:



Unit: inch



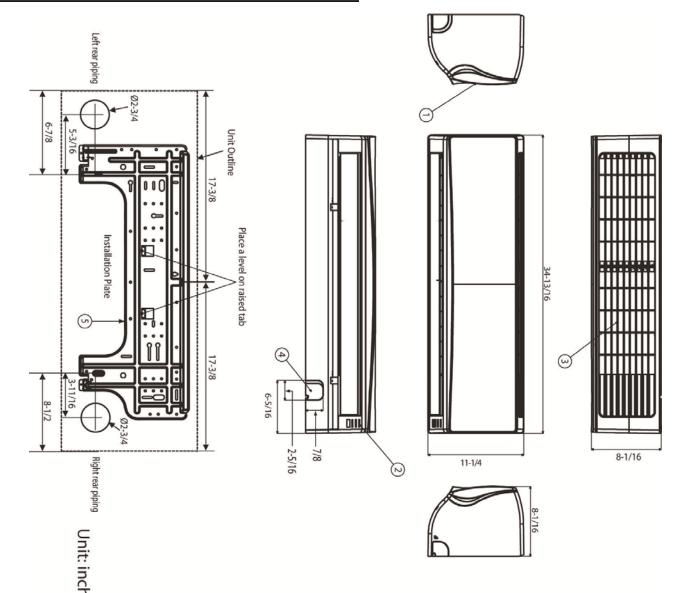
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5	4	သ	2	_	Item No.
					6.
Earth Screw	Control Box	Liquid Pipe Connection Port	Gas Pipe Connection Port	Air Discharge Grille	Part Name
					Remarks

Indoor Unit (IDU)-LAN120HSV2

Art Cool™ Single Zone Inverter



Tag #:



5	4	ω	2	1-1	em No.	
Installation Plate	Knockout hole	Air Suction Grille	Display & Signal Receiver	Front Panel	. Part Name	
	For pipe and cable				Remarks	



Job Name/Location: Tag #:

(Project Manager)

Date:	For: File Resubmit
PO No.:	Approval Other
Architect:	GC:
Engr:	Mech:
Rep:	





(Company)

LA180HSV2

Art Cool™ Single Zone Inverter

Outdoor Unit (ODU)-LAU180HSV2 Indoor Unit (IDU)-LAN180HSV2

Performance:

Cooling:

Capacity (Btu/h)	18,200
SEER	20.5
EER	12.6

Heating:

Capacity (Btu/h)	22,000
HSPF	9.7

HSPF - Heating Seasonal Performance Factor

Cooling Nominal Test Conditions: **Heating Nominal Test Conditions:** Indoor: 80°F DB/67°F WB Indoor: 70°F DB/60°F WB Outdoor: 95°F DB/75°F WB Outdoor: 47°F DB/43°F WB

Electrical: **Outdoor Unit:**

Power Supply (V¹/Hz/Ø)	208-230/60/1
MOP (A)	30
MCA (A)	19
Cooling Rated Amps (A)	17.0
Heating Rated Amps (A)	17.0
Compressor (A)	14.6
Fan Motor (A)	0.75

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Indoor Unit:

Power Supply (V¹/Hz/Ø)	208-230/60/1
Cooling Power Input (kW)	1.44
Heating Power Input (kW)	1.76

Piping:

Liquid Line (in, OD)	3/8
Vapor Line (in, OD)	5/8
Additional Refrigerant (oz/ft)	0.38
Max Pipe Length (ft) ²	98.4
Piping Length (no add'l refrigerant, ft)	24.6
Max Elevation (ft)	49.2

reatures:		
4-Way auto swing	Chaos wind	Jet cool/Jet heat
•24-Hour on/off timer	 Condensate Sensor 	 Plasma air purifying
•Auto restart	Connection	system
 Auto changeover 	Energy saving	•Self-cleaning indoor coil
Built-in low ambient	•Inverter (variable speed	Sleep mode
standard, down to 14°F	compressor)	 Ultra quiet operation

(cooling mode) Optional Accessories (sold separately):

- LG Programmable Thermostat PREMTB10U
- Dry Contact for third party thermostat PQDSBNGCM1
- PI485 PMNFP14A0





Operating Range:

Outdoor Unit:

Cooling (°F DB)	14-118
Heating (°F DB)	5-75

Indoor Unit:

Cooling (°F DB)	64-90
Heating (°F DB)	61-86

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs)	3.97
ODU Sound Pressure Max (±3 dB(A)) ³	53
IDU Sound Pressure (H/M/L) (±3 dB(A)) ³	45/40/35
ODU Net Unit Weight (lbs)	133
ODU Shipping Weight (lbs)	142
IDU Net Unit Weight (lbs)	38
IDU Shipping Weight (lbs)	42
Heat Exchanger Coating	GoldFin™

Fan:

• • • • • • • • • • • • • • • • • • • •	
ODU Type	Propeller
IDU Type	Cross Flow
Fan Speeds (Fan/Cooling/Heat	ing) 5/6/6
Quantity (ODU + IDU)	1+1
Motor/Drive	Brushless Digitally Controlled/Direct
ODU Max Air Flow Rate (CFM)	2,119
IDU Air Flow H/M/L (CFM)	622/509/399
Dehumidification (pts/hr)	5.5

- 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 communication/power 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.



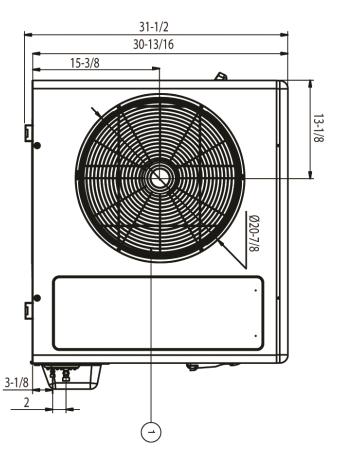


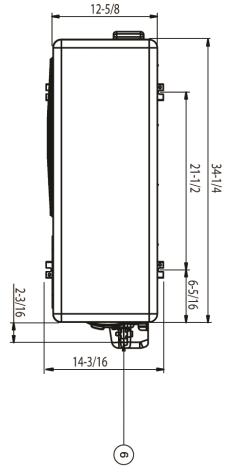


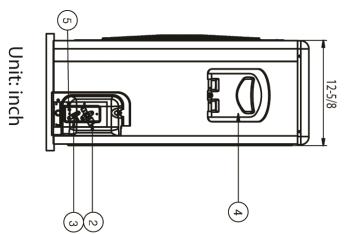
Outdoor Unit (ODU)-LAU180HSV2 Art Cool™ Single Zone Inverter



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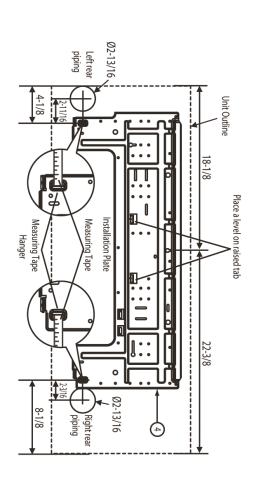
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SVC valve cover	Earth screw	Power & Transmission connection	Liquid pipe connection	Gas pipe connection	Air discharge grille	Part Name
						Remarks

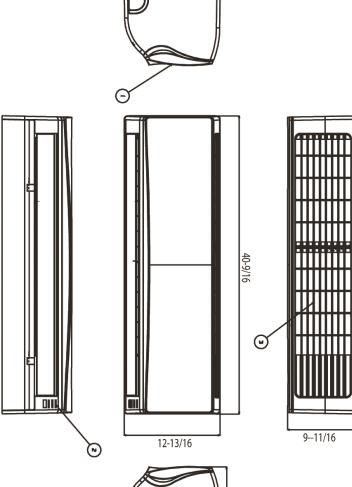
Indoor Unit (IDU)-LAN180HSV2

Art Cool™ Single Zone Inverter



Tag #:





	Installation Plate	4
	Air Suction Grille	З
	Display & Signal Receiver	2
	Front Panel	1
Remarks	Part Name	Item No.



Job Name/Location: Tag #:

Date:
PO No.:

Architect:

Engr:

For: File Resubmit
Other

Mech:





Rep:

(Project Manager)

LA240HSV2

Art Cool™ Single Zone Inverter

Outdoor Unit (ODU)-LAU240HSV2 Indoor Unit (IDU)-LAN240HSV2



Performance:

Cooling:

Capacity (Btu/h)	22,000
SEER	20.0
EER	10.8

Heating:

Capacity (Btu/h)	27,600
HSPF	10.0

HSPF - Heating Seasonal Performance Factor

Cooling Nominal Test Conditions: Heating Nominal Test Conditions: Indoor: 80°F DB/67°F WB Indoor: 70°F DB/60°F WB
Outdoor: 95°F DB/75°F WB Outdoor: 47°F DB/43°F WB

Electrical: Outdoor Unit:

Power Supply (V¹/Hz/Ø)	208-230/60/1
MOP (A)	30
MCA (A)	19
Cooling Rated Amps (A)	17.0
Heating Rated Amps (A)	17.0
Compressor (A)	14.6
Fan Motor (A)	0.75

MOP - Maximum Overcurrent Protection MCA - Minimum Circuit Ampacity

Indoor Unit:

Power Supply (V¹/Hz/Ø)	208-230/60/1
Cooling Power Input (kW)	2.04
Heating Power Input (kW)	1.67

Piping:

Liquid Line (in, OD)	3/8
Vapor Line (in, OD)	5/8
Additional Refrigerant (oz/ft)	0.38
Max Pipe Length (ft) ²	98.4
Piping Length (no add'l refrigerant, ft)	24.6
Max Elevation (ft)	49.2

Features:

reatures:		
4-Way auto swing	Chaos wind	Jet cool/Jet heat
•24-Hour on/off timer	 Condensate Sensor 	 Plasma air purifying
•Auto restart	Connection	system
 Auto changeover 	Energy saving	•Self-cleaning indoor coil
Built-in low ambient	•Inverter (variable speed	Sleep mode
standard, down to 14°F	compressor)	 Ultra quiet operation

(cooling mode) Optional Accessories (sold separately):

- LG Programmable Thermostat PREMTB10U
- Dry Contact for third party thermostat PQDSBNGCM1
- PI485 PMNFP14A0

Operating Range:

Outdoor Unit:

Cooling (°F DB)	14-118
Heating (°F DB)	5-75

Indoor Unit:

Cooling (°F DB)	64-90
Heating (°F DB)	61-86

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Refrigerant Charge (lbs)	3.97
ODU Sound Pressure Max (±3 dB(A)) ³	53
IDU Sound Pressure (H/M/L) (±3 dB(A)) ³	45/40/35
ODU Net Unit Weight (lbs)	133
ODU Shipping Weight (lbs)	142
IDU Net Unit Weight (lbs)	38
IDU Shipping Weight (lbs)	42
Heat Exchanger Coating	GoldFin™

Fan:

ODU Type	Propeller
IDU Type	Cross Flow
Fan Speeds (Fan/Cooling/Heat	ing) 5/6/6
Quantity (ODU + IDU)	1+1
Motor/Drive	Brushless Digitally Controlled/Direct
ODU Max Air Flow Rate (CFM)	2,119
IDU Air Flow H/M/L (CFM)	632/526/399
Dehumidification (pts/hr)	5.5

- 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 communication/power 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.

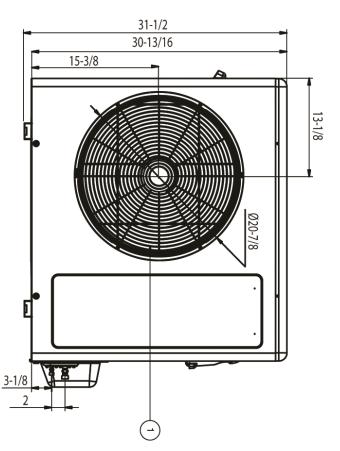


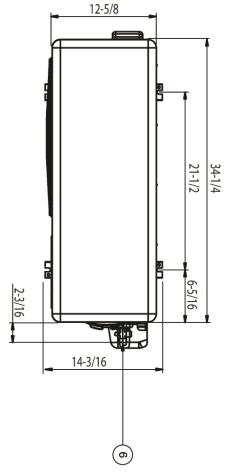


Outdoor Unit (ODU)-LAU240HSV2 Art Cool™ Single Zone Inverter



Tag #:





Unit: inch			12-5/8
	(3)(2)	4	

	5 Eart	4 Pow	3 Liqui	2 Gas	1 Air d	Item No.	
SVC valve cover	Earth screw	Power & Transmission connection	Liquid pipe connection	Gas pipe connection	Air discharge grille	Part Name	
						R emarks	

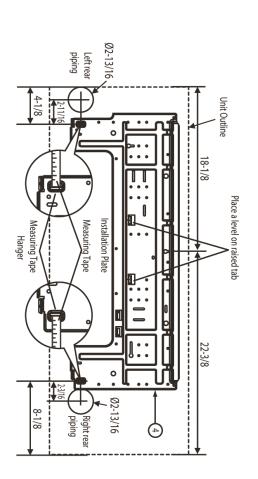
Indoor Unit (IDU)-LAN240HSV2

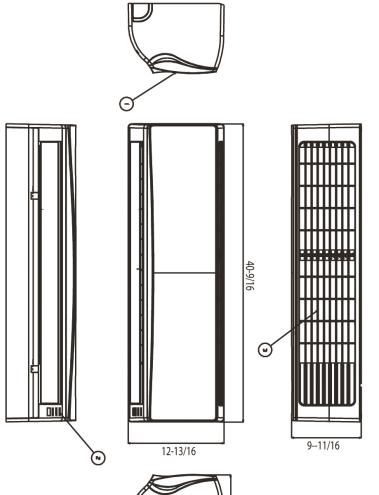
Art Cool™ Single Zone Inverter

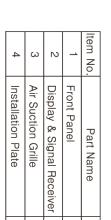


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Date:







Remarks

