

System Model Selection - ODU

System Name: HP-2 Outdoor

Date: 03/19/2024

System No : 8/10

1. Design conditions - Outdoor

	Cooling			Heating		
	DBT(°F)	WBT(°F)	RH(%)	DBT(°F)	WBT(°F)	RH(%)
OAT	84.9	64.0	31.3	34.0	32.5	86.0
IAT	80.0	67.0	51.1	70.0	60.0	56.1

2. Outdoor Units

Model Name	No. of IDUs (Current / Max.) (EA)	Combination Ratio (Current / Max.) (%)	Corrected Capacity / Block Load (Cooling / Heating) (%)	Pre-charged Ref. amount (lbs)	Additional Ref. Amount (lbs)
ARUN048GSS4	1 / 8	100 / 130	0.0 / 0.0	6.61	1.12

Nominal/Corrected Capa. (kBtu/h)		Nominal/Corrected PI (kW)	
Cooling	Heating	Cooling	Heating
48.0/48.1	54.0/47.9	4.3/3.5	4.2/4.9

Efficiency(Btu/h/W)		Weight(lbs)	Dimension (WxHxD) (inch)	Electrical Characteristics				
Cooling	Heating			Volt	Phase	Hz	MCA (A)	MOP (A)
13.6	9.7	207x1	37-13/32x54-11/32x13	208~230	1	60	30	50

3. Pipes

Diameter(Liq:Gas,inch)	Length(ft)
3/8 : 5/8	9.8

4. Branch/Header

Model Name	Quantity
-	-

#Notes: Correction factor is corrected by such as, but not limited to, indoor unit combination, temperature, and pipe length.

The result can be slightly different from Product Data Book due to simulation.

Pipe lengths are estimations only.

Contractor is responsible for piping take-off and verification of actual pipe routing and pipe lengths.

System Model Section - IDU

System Name: HP-2 Outdoor

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5. Indoor Units(1)

Room	Room Load(kBtu/h)			Room Design Temp.(Return Air Temp.)(°F)				Model Name	Rated TC/Corrected TC(kBtu/h)			Corrected Capa/Room Load(%)		
	TC	SC	HC	Cooling		Heating			TC	SC	HC	TC	SC	HC
				DBT	WBT	DBT	WBT							
Room	-	-	-	80.0	67.0	70.0	60.0	PRLK048A0	48.1/48.1	-	48.1/48.1	-	-	-

#Notes: Correction factor is corrected by such as, but not limited to, indoor unit combination, temperature, and pipe length.

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Contractor is responsible for piping take-off and verification of actual pipe routing and pipe lengths.

EWT=Entering Water Temperature / LWT=Leaving Water Temperature.

System Model Section - IDU

System Name: HP-2 Outdoor

Date: 03/19/2024

System No : 8/10

6. Indoor Units(2)

Tag	Model Name	Type	Est. Discharge Temp.(°F)		Air flow rate (CFM)	Remark
			Cooling	Heating		
HP-2	PRLK048A0	EEV KIT	-	-	-	NA

#Notes: Correction factor is corrected by such as, but not limited to, indoor unit combination, temperature, and pipe length.

The result can be slightly different from Product Data Book due to simulation.

Pipe lengths are estimations only.

Contractor is responsible for piping take-off and verification of actual pipe routing and pipe lengths.

EWT=Entering Water Temperature / LWT=Leaving Water Temperature.

System Model Section - IDU

System Name: HP-2 Outdoor

Date: 03/19/2024

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7. Indoor Units(3)

Tag	Model Name	Weight	Dimension (WxHxD)	Electrical Characteristics				
				Volt	Phase	Hz	MCA (A)	RLA (A)
HP-2	PRLK048A0	kg	mm	220~240	1	50/60	0.10	

#Notes: Correction factor is corrected by such as, but not limited to, indoor unit combination, temperature, and pipe length.

The result can be slightly different from Product Data Book due to simulation.

Pipe lengths are estimations only.

Contractor is responsible for piping take-off and verification of actual pipe routing and pipe lengths.

EWT=Entering Water Temperature / LWT=Leaving Water Temperature.

System Validation Check

System Name: HP-2 Outdoor

Date: 03/19/2024

System No : 8/10

8. System Validation Check - General Condition

Contents	Limit	Current(Max value : connected unit)
Total pipe length	984.3 ft	9.8 ft
Longest equivalent pipe length	574.1 ft	9.8 ft : PRLK048A0[HP-2]
Height difference [Above: IDU, Below: ODU]	131.2 ft	0.0 ft
Height difference [Above: ODU, Below: IDU]	164.0 ft	9.8 ft : PRLK048A0[HP-2]
Height difference [IDU to IDU]	49.2 ft	0.0 ft : PRLK048A0[HP-2]-PRLK048A0[HP-2]
Longest actual pipe length	492.1 ft	9.8 ft : PRLK048A0[HP-2]

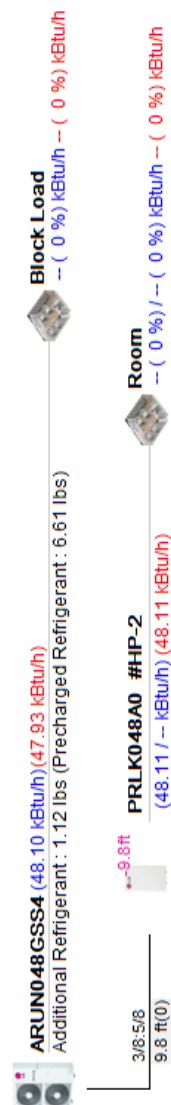
Note 1 : Except "Longest equivalent pipe length", the other pipe length limitations are actual length.

System Tree Diagram

System Name: HP-2 Outdoor

Date: 03/19/2024

System No : 8/10



* : Main pipe upsized
** : Conditional Application
Two pipe : Liquid : Gas

Thermostat, **G** Group Control, **D** Dry Contact, **E** EEV Kit for Multi V Indoor
S AHU Comm. Kit [Discharge (supply) air], **R** AHU Comm. Kit [Return air]
M AHU Comm. Kit [Main module], **C** AHU Comm. Kit [Communications module]

Indoor Units
Combination Ratio : 1 of 8
Total Pipe : 48.1 of 48.0 (100%)
ODU factory charge : 9.8 of 984.3 ft
Additional Refrigerant : 6.61 lbs
Total refrigerant : 1.12 lbs
Minimum room volume : 7.73 lbs
(Based on 26.0 lbs / 1000.0 ft³)

System Schematic Diagram

System Name: HP-2 Outdoor

Date: 03/19/2024

System No : 8/10



Note :
Power wiring, breaker size, and disconnects should follow local code and NEC.
Multi-frame outdoor units require a separate power connection for each frame.
Refer to the most up-to-date submittal sheets for applicable electrical data.
See EEV Kit Installation Manual for wiring.

System Model Selection - ODU

System Name: HP-3 Outdoor

Date: 03/19/2024

System No : 9/10

1. Design conditions - Outdoor

	Cooling			Heating		
	DBT(°F)	WBT(°F)	RH(%)	DBT(°F)	WBT(°F)	RH(%)
OAT	84.9	64.0	31.3	34.0	32.5	86.0
IAT	80.0	67.0	51.1	70.0	60.0	56.1

2. Outdoor Units

Model Name	No. of IDUs (Current / Max.) (EA)	Combination Ratio (Current / Max.) (%)	Corrected Capacity / Block Load (Cooling / Heating) (%)	Pre-charged Ref. amount (lbs)	Additional Ref. Amount (lbs)
ARUN048GSS4	1 / 8	100 / 130	0.0 / 0.0	6.61	1.12

Nominal/Corrected Capa. (kBtu/h)		Nominal/Corrected PI (kW)	
Cooling	Heating	Cooling	Heating
48.0/48.1	54.0/47.9	4.3/3.5	4.2/4.9

Efficiency(Btu/h/W)		Weight(lbs)	Dimension (WxHxD) (inch)	Electrical Characteristics				
Cooling	Heating			Volt	Phase	Hz	MCA (A)	MOP (A)
13.6	9.7	207x1	37-13/32x54-11/32x13	208~230	1	60	30	50

3. Pipes

Diameter(Liq:Gas,inch)	Length(ft)
3/8 : 5/8	9.8

4. Branch/Header

Model Name	Quantity
-	-

#Notes: Correction factor is corrected by such as, but not limited to, indoor unit combination, temperature, and pipe length.

The result can be slightly different from Product Data Book due to simulation.

Pipe lengths are estimations only.

Contractor is responsible for piping take-off and verification of actual pipe routing and pipe lengths.

System Model Section - IDU

System Name: HP-3 Outdoor

Date: 03/19/2024

System No : 9/10

5. Indoor Units(1)

Room	Room Load(kBtu/h)			Room Design Temp.(Return Air Temp.)(°F)				Model Name	Rated TC/Corrected TC(kBtu/h)			Corrected Capa/Room Load(%)		
	TC	SC	HC	Cooling		Heating			TC	SC	HC	TC	SC	HC
				DBT	WBT	DBT	WBT							
Room	-	-	-	80.0	67.0	70.0	60.0	PRLK048A0	48.1/48.1	-	48.1/48.1	-	-	-

#Notes: Correction factor is corrected by such as, but not limited to, indoor unit combination, temperature, and pipe length.

The result can be slightly different from Product Data Book due to simulation.

Pipe lengths are estimations only.

Contractor is responsible for piping take-off and verification of actual pipe routing and pipe lengths.

EWT=Entering Water Temperature / LWT=Leaving Water Temperature.

System Model Section - IDU

System Name: HP-3 Outdoor

Date: 03/19/2024

System No : 9/10

6. Indoor Units(2)

Tag	Model Name	Type	Est. Discharge Temp.(°F)		Air flow rate (CFM)	Remark
			Cooling	Heating		
HP-2	PRLK048A0	EEV KIT	-	-	-	NA

#Notes: Correction factor is corrected by such as, but not limited to, indoor unit combination, temperature, and pipe length.

The result can be slightly different from Product Data Book due to simulation.

Pipe lengths are estimations only.

Contractor is responsible for piping take-off and verification of actual pipe routing and pipe lengths.

EWT=Entering Water Temperature / LWT=Leaving Water Temperature.

System Model Section - IDU

System Name: HP-3 Outdoor

Date: 03/19/2024

System No : 9/10

7. Indoor Units(3)

Tag	Model Name	Weight	Dimension (WxHxD)	Electrical Characteristics				
				Volt	Phase	Hz	MCA (A)	RLA (A)
HP-2	PRLK048A0	kg	mm	220~240	1	50/60	0.10	

#Notes: Correction factor is corrected by such as, but not limited to, indoor unit combination, temperature, and pipe length.

The result can be slightly different from Product Data Book due to simulation.

Pipe lengths are estimations only.

Contractor is responsible for piping take-off and verification of actual pipe routing and pipe lengths.

EWT=Entering Water Temperature / LWT=Leaving Water Temperature.

System Validation Check

System Name: HP-3 Outdoor

Date: 03/19/2024

System No : 9/10

8. System Validation Check - General Condition

Contents	Limit	Current(Max value : connected unit)
Total pipe length	984.3 ft	9.8 ft
Longest equivalent pipe length	574.1 ft	9.8 ft : PRLK048A0[HP-2]
Height difference [Above: IDU, Below: ODU]	131.2 ft	0.0 ft
Height difference [Above: ODU, Below: IDU]	164.0 ft	9.8 ft : PRLK048A0[HP-2]
Height difference [IDU to IDU]	49.2 ft	0.0 ft : PRLK048A0[HP-2]-PRLK048A0[HP-2]
Longest actual pipe length	492.1 ft	9.8 ft : PRLK048A0[HP-2]

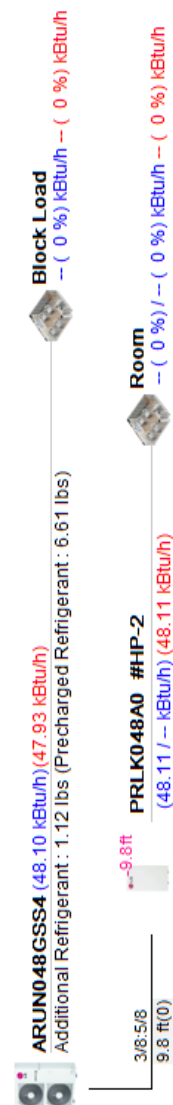
Note 1 : Except "Longest equivalent pipe length", the other pipe length limitations are actual length.

System Tree Diagram

System Name: HP-3 Outdoor

Date: 03/19/2024

System No : 9/10



* : Main pipe upsized	
** : Conditional Application	
Two pipe : Liquid : Gas	
Thermostat, Group Control, Dry Contact, EEV Kit for Multi V Indoor	
AHU Comm. Kit [Discharge (supply) air], AHU Comm. Kit [Return air]	
AHU Comm. Kit [Main module], AHU Comm. Kit [Communications module]	
Indoor Units	: 1 of 8
Combination Ratio	: 48.1 of 48.0 (100%)
Total Pipe	: 9.8 of 984.3 ft
ODU factory charge	: 6.61 lbs
Additional Refrigerant	: 1.12 lbs
Total refrigerant	: 7.73 lbs
Minimum room volume	: 297.33 ft³
(Based on 26.0 lbs / 1000.0 ft³)	

System Schematic Diagram

System Name: HP-3 Outdoor

Date: 03/19/2024

System No : 9/10



Note :
Power wiring, breaker size, and disconnects should follow local code and NEC.
Multi-frame outdoor units require a separate power connection for each frame.
Refer to the most up-to-date submittal sheets for applicable electrical data.
See EEV Kit Installation Manual for wiring.

System Model Selection - ODU

System Name: HP-4 Outdoor

Date: 03/19/2024

System No : 10/10

1. Design conditions - Outdoor

	Cooling			Heating		
	DBT(°F)	WBT(°F)	RH(%)	DBT(°F)	WBT(°F)	RH(%)
OAT	84.9	64.0	31.3	34.0	32.5	86.0
IAT	80.0	67.0	51.1	70.0	60.0	56.1

2. Outdoor Units

Model Name	No. of IDUs (Current / Max.) (EA)	Combination Ratio (Current / Max.) (%)	Corrected Capacity / Block Load (Cooling / Heating) (%)	Pre-charged Ref. amount (lbs)	Additional Ref. Amount (lbs)
ARUN060GSS4	1 / 12	90 / 130	0.0 / 0.0	7.72	1.12

Nominal/Corrected Capa. (kBtu/h)		Nominal/Corrected PI (kW)	
Cooling	Heating	Cooling	Heating
60.0/60.0	64.0/56.7	5.7/4.2	5.0/5.4

Efficiency(Btu/h/W)		Weight(lbs)	Dimension (WxHxD) (inch)	Electrical Characteristics				
Cooling	Heating			Volt	Phase	Hz	MCA (A)	MOP (A)
14.4	10.5	260x1	37-13/32x54-11/32x13	208~230	1	60	25.4	40

3. Pipes

Diameter(Liq:Gas,inch)	Length(ft)
3/8 : 3/4	9.8

4. Branch/Header

Model Name	Quantity
-	-

#Notes: Correction factor is corrected by such as, but not limited to, indoor unit combination, temperature, and pipe length.

The result can be slightly different from Product Data Book due to simulation.

Pipe lengths are estimations only.

Contractor is responsible for piping take-off and verification of actual pipe routing and pipe lengths.

System Model Section - IDU

System Name: HP-4 Outdoor

Date: 03/19/2024

System No : 10/10

5. Indoor Units(1)

Room	Room Load(kBtu/h)			Room Design Temp.(Return Air Temp.)(°F)				Model Name	Rated TC/Corrected TC(kBtu/h)			Corrected Capa/Room Load(%)		
	TC	SC	HC	Cooling		Heating			TC	SC	HC	TC	SC	HC
				DBT	WBT	DBT	WBT							
Room	-	-	-	80.0	67.0	70.0	60.0	PRLK048A0	53.9/53.9	-	53.9/53.9	-	-	-

#Notes: Correction factor is corrected by such as, but not limited to, indoor unit combination, temperature, and pipe length.

The result can be slightly different from Product Data Book due to simulation.

Pipe lengths are estimations only.

Contractor is responsible for piping take-off and verification of actual pipe routing and pipe lengths.

EWT=Entering Water Temperature / LWT=Leaving Water Temperature.

System Model Section - IDU

System Name: HP-4 Outdoor

Date: 03/19/2024

System No : 10/10

6. Indoor Units(2)

Tag	Model Name	Type	Est. Discharge Temp.(°F)		Air flow rate (CFM)	Remark
			Cooling	Heating		
HP-4	PRLK048A0	EEV KIT	-	-	-	NA

#Notes: Correction factor is corrected by such as, but not limited to, indoor unit combination, temperature, and pipe length.

The result can be slightly different from Product Data Book due to simulation.

Pipe lengths are estimations only.

Contractor is responsible for piping take-off and verification of actual pipe routing and pipe lengths.

EWT=Entering Water Temperature / LWT=Leaving Water Temperature.

System Model Section - IDU

System Name: HP-4 Outdoor

Date: 03/19/2024

System No : 10/10

7. Indoor Units(3)

Tag	Model Name	Weight	Dimension (WxHxD)	Electrical Characteristics				
				Volt	Phase	Hz	MCA (A)	RLA (A)
HP-4	PRLK048A0	kg	mm	220~240	1	50/60	0.10	

#Notes: Correction factor is corrected by such as, but not limited to, indoor unit combination, temperature, and pipe length.

The result can be slightly different from Product Data Book due to simulation.

Pipe lengths are estimations only.

Contractor is responsible for piping take-off and verification of actual pipe routing and pipe lengths.

EWT=Entering Water Temperature / LWT=Leaving Water Temperature.

System Validation Check

System Name: HP-4 Outdoor

Date: 03/19/2024

System No : 10/10

8. System Validation Check - General Condition

Contents	Limit	Current(Max value : connected unit)
Total pipe length	984.3 ft	9.8 ft
Longest equivalent pipe length	574.1 ft	9.8 ft : PRLK048A0[HP-4]
Height difference [Above: IDU, Below: ODU]	131.2 ft	0.0 ft
Height difference [Above: ODU, Below: IDU]	164.0 ft	9.8 ft : PRLK048A0[HP-4]
Height difference [IDU to IDU]	49.2 ft	0.0 ft : PRLK048A0[HP-4]-PRLK048A0[HP-4]
Longest actual pipe length	492.1 ft	9.8 ft : PRLK048A0[HP-4]

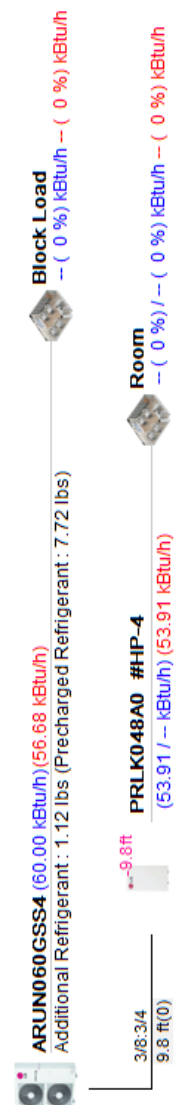
Note 1 : Except "Longest equivalent pipe length", the other pipe length limitations are actual length.

System Tree Diagram

System Name: HP-4 Outdoor

Date: 03/19/2024

System No : 10/10



* : Main pipe upsized
** : Conditional Application
Two pipe : Liquid : Gas

Thermostat, **G** Group Control, **D** Dry Contact, **E** EEV Kit for Multi V Indoor
S AHU Comm. Kit [Discharge (supply) air], **R** AHU Comm. Kit [Return air]
M AHU Comm. Kit [Main module], **C** AHU Comm. Kit [Communications module]

Indoor Units
Combination Ratio : 1 of 12
Total Pipe : 53.9 of 60.0 (90%)
ODU factory charge : 9.8 of 984.3 ft
Additional Refrigerant : 7.72 lbs
Total refrigerant : 1.12 lbs
Minimum room volume : 8.83 lbs
(Based on 26.0 lbs / 1000.0 ft³)

System Schematic Diagram

System Name: HP-4 Outdoor

Date: 03/19/2024

System No : 10/10



Note :
Power wiring, breaker size, and disconnects should follow local code and NEC.
Multi-frame outdoor units require a separate power connection for each frame.
Refer to the most up-to-date submittal sheets for applicable electrical data.
See EEV Kit Installation Manual for wiring.

Job Name/Location

Tag #:

Date:

For: File Resubmit

PO No.:

Approval Other

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

ARUN048GSS4

Multi V™ S Heat Pump

4.0 Ton Outdoor Unit

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

Rated Capacity (Btu/h)	48,000
Power Input ¹ (kW)	4.3

Heating Mode:

Rated Capacity (Btu/h)	54,000
Power Input ¹ (kW)	4.2

Rated Capacity is based on the following conditions:

Cooling	Heating:
Indoor: 80°F DB / 67°F WB	Indoor: 70°F DB
Outdoor: 95°F DB	Outdoor: 47°F DB / 43°F WB

Electrical:

Power Supply (V/Hz/Ø)	208-230V / 60 / 1
MOP (A)	50
MCA (A)	30
Rated Amps (A)	
Compressor (A)	23.1
Fan (A) x Qty.	0.5 x 2

Piping:

Refrigerant Charge (lbs)	6.6
Liquid Line (in, OD)	Ø3/8 Braze
Vapor Line (in, OD)	Ø5/8 Braze

Standard Features:

- Night Quiet Operation
- Fault Detection and Diagnosis

Optional Accessories:

- ☐ Low Ambient Baffle Kit ZLABGP04A (2 required)
- ☐

***Installation of an optional Low Ambient Wind Baffle Kit will allow operation down to -9.9°F in cooling mode.**

Operating Range:

Cooling (°F DB)*	23 - 122
Heating (°F WB)	-4 to +61

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Max Number of Indoor Units ²	8
Sound Pressure ³ dB(A)	51
Net Unit Weight (lbs)	207
Shipping Weight (lbs)	218
Communication Cable ⁴ (No x AWG)	2 x 18
Heat Exchanger Coating	GoldFin™

Compressor:

Type	DC Inverter Starting
Quantity	1
Oil / Type	PVE/FVC68D

Fan:

Type	Axial Flow Fan
Quantity	2
Motor / Drive	Brushless Digitally Controlled/Direct
Air Flow Rate (CFM)	3,885

Notes:

1. For AHRI rating, refer to the AHRI website <http://www.ahridirectory.org>.
2. The combination ratio must be between 50 – 130%.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. Communication cable between ODU, IDU(s), and Central Controller must be a minimum of 2-conductor, 18 AWG, twisted, stranded, and shielded. Ensure the communication cable shield is properly grounded to the ODU chassis only. Do not ground the communication cable at any other point. Wiring must comply with all applicable local and national codes.
5. Nominal data is rated 0 ft above sea level, with 25 ft of refrigerant line per indoor unit and a 0 ft level difference between outdoor and indoor units. All capacities are net with a combination ratio between 95-105%.
6. Power wiring cable size must comply with the applicable local and national codes.
7. The voltage tolerance is $\pm 10\%$.

Inverter



Job Name/Location: _____

ARUN048GSS4

Multi V™ S Heat Pump

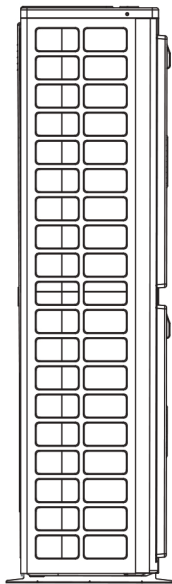
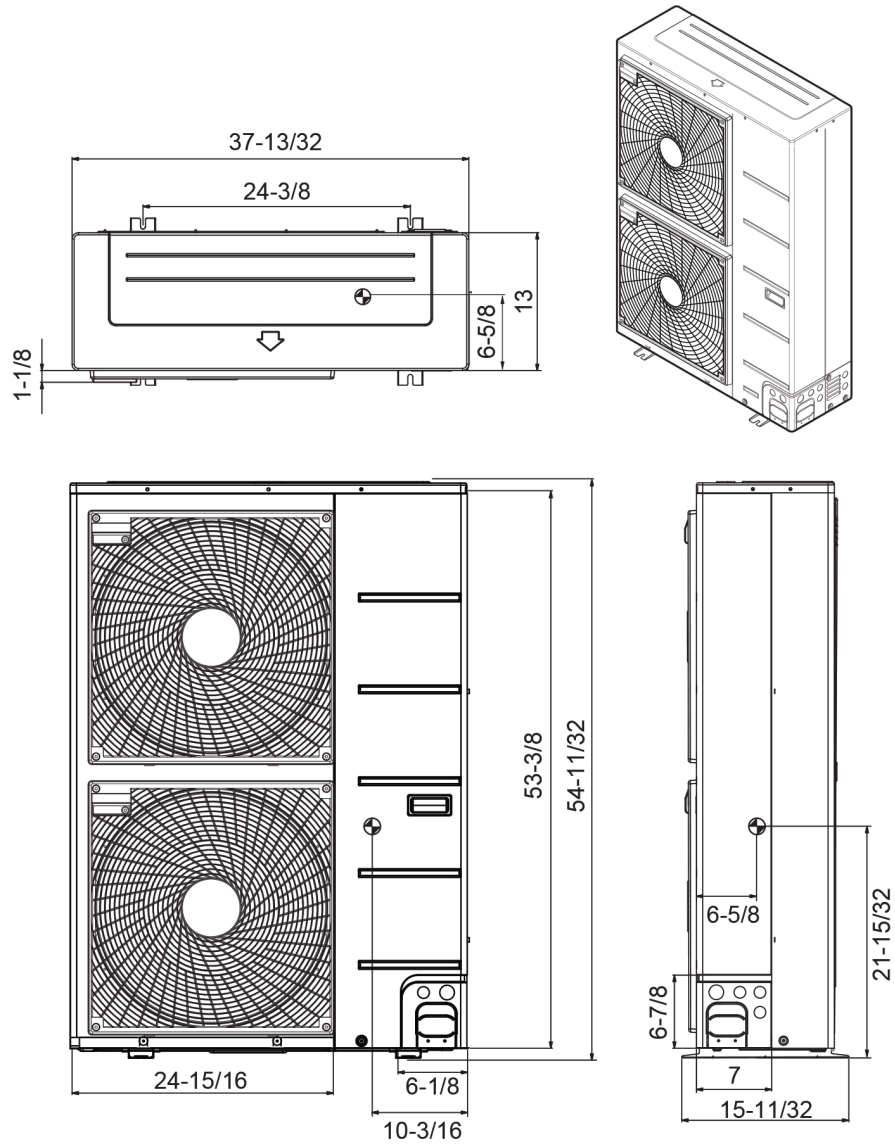
4.0 Ton Outdoor Unit



Tag No.: _____

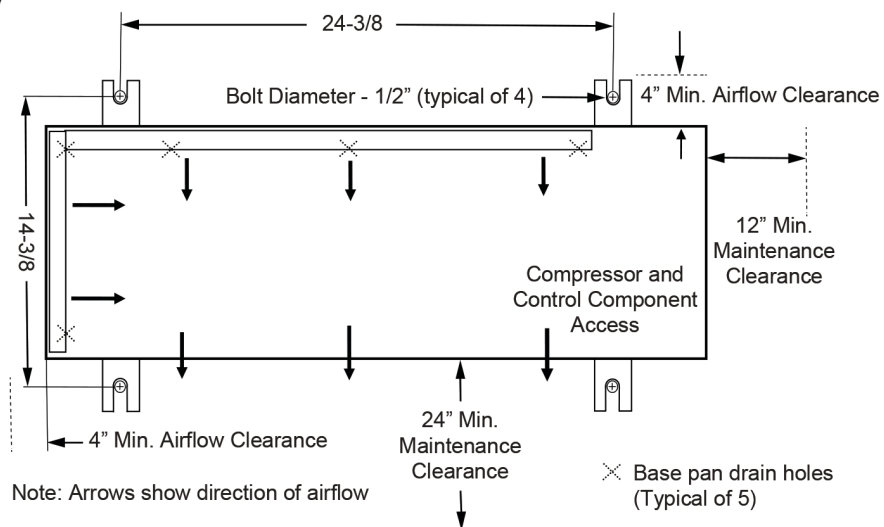
Date: _____

PO No.: _____



Unit: inch

⊕ Center of Gravity



Job Name/Location: _____

ARUN048GSS4

Multi V™ S Heat Pump

4.0 Ton Outdoor Unit



Tag No.: _____

Date: _____

PO No.: _____

AHRI Data:

Indoor Unit Type	Cooling Capacity (95°F)	EER2 (95°F)	SEER2	High Heating Capacity (47°F)	Low Heating Capacity (17°F)	HSPF2	Low Heating Capacity (5°F)	Heating COP at 5°F
Non-Ducted Indoor Units	48,000	13.20	20.00	54,500	36,000	10.20	39,000	2.16
Ducted Indoor Units	48,000	13.20	20.00	54,500	36,000	10.20	39,000	2.16

Job Name/Location

Tag #:

Date:

For: File Resubmit

PO No.:

Approval Other

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)

ARUN060GSS4

Multi V™ S Heat Pump

5.0 Ton Outdoor Unit

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

Rated Capacity (Btu/h)	60,000
Power Input ¹ (kW)	5.7

Heating Mode:

Rated Capacity (Btu/h)	64,000
Power Input ¹ (kW)	5.0

Rated Capacity is based on the following conditions:

Cooling	Heating:
Indoor: 80°F DB / 67°F WB	Indoor: 70°F DB
Outdoor: 95°F DB	Outdoor: 47°F DB / 43°F WB

Electrical:

Power Supply (V/Hz/Ø)	208-230V / 60 / 1
MOP (A)	40
MCA (A)	25.4
Rated Amps (A)	
Compressor (A)	19.5
Fan (A) x Qty.	0.5 x 2

Piping:

Refrigerant Charge (lbs)	7.7
Liquid Line (in, OD)	Ø3/8 Braze
Vapor Line (in, OD)	Ø3/4 Braze

Standard Features:

- Night Quiet Operation
- Fault Detection and Diagnosis

Optional Accessories:

- ☐ Low Ambient Baffle Kit ZLABGP04A (2 required)
- ☐ Drain Pan Heater PQSH1200

***Installation of an optional Low Ambient Wind Baffle Kit will allow operation down to -9.9°F in cooling mode.**

Operating Range:

Cooling (°F DB)*	23 - 122
Heating (°F WB)	-13 to +61

Unit Data:

Refrigerant Type	R410A
Refrigerant Control	EEV
Max Number of Indoor Units ²	12
Sound Pressure ³ dB(A)	57
Net Unit Weight (lbs)	260
Shipping Weight (lbs)	291
Communication Cable ⁴ (No x AWG)	2 x 18
Heat Exchanger Coating	GoldFin™

Compressor:

Type	Hermetically Sealed Scroll
Quantity	1
Oil / Type	PVE/FVC68D

Fan:

Type	Axial Flow Fan
Quantity	2
Motor / Drive	Brushless Digitally Controlled/Direct
Air Flow Rate (CFM)	3,885

Notes:

1. For AHRI rating, refer to the AHRI website <http://www.ahridirectory.org>.
2. The combination ratio must be between 50 – 130%.
3. Sound Pressure levels are tested in an anechoic chamber under ISO Standard 3745.
4. Communication cable between ODU, IDU(s), and Central Controller must be a minimum of 2-conductor, 18 AWG, twisted, stranded, and shielded. Ensure the communication cable shield is properly grounded to the ODU chassis only. Do not ground the communication cable at any other point. Wiring must comply with all applicable local and national codes.
5. Nominal data is rated 0 ft above sea level, with 25 ft of refrigerant line per indoor unit and a 0 ft level difference between outdoor and indoor units. All capacities are net with a combination ratio between 95-105%.
6. Power wiring cable size must comply with the applicable local and national codes.
7. The voltage tolerance is ± 10%.

Inverter



Job Name/Location: _____

ARUN060GSS4

Multi V™ S Heat Pump

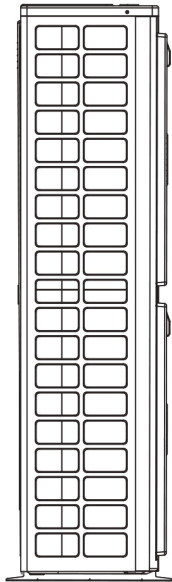
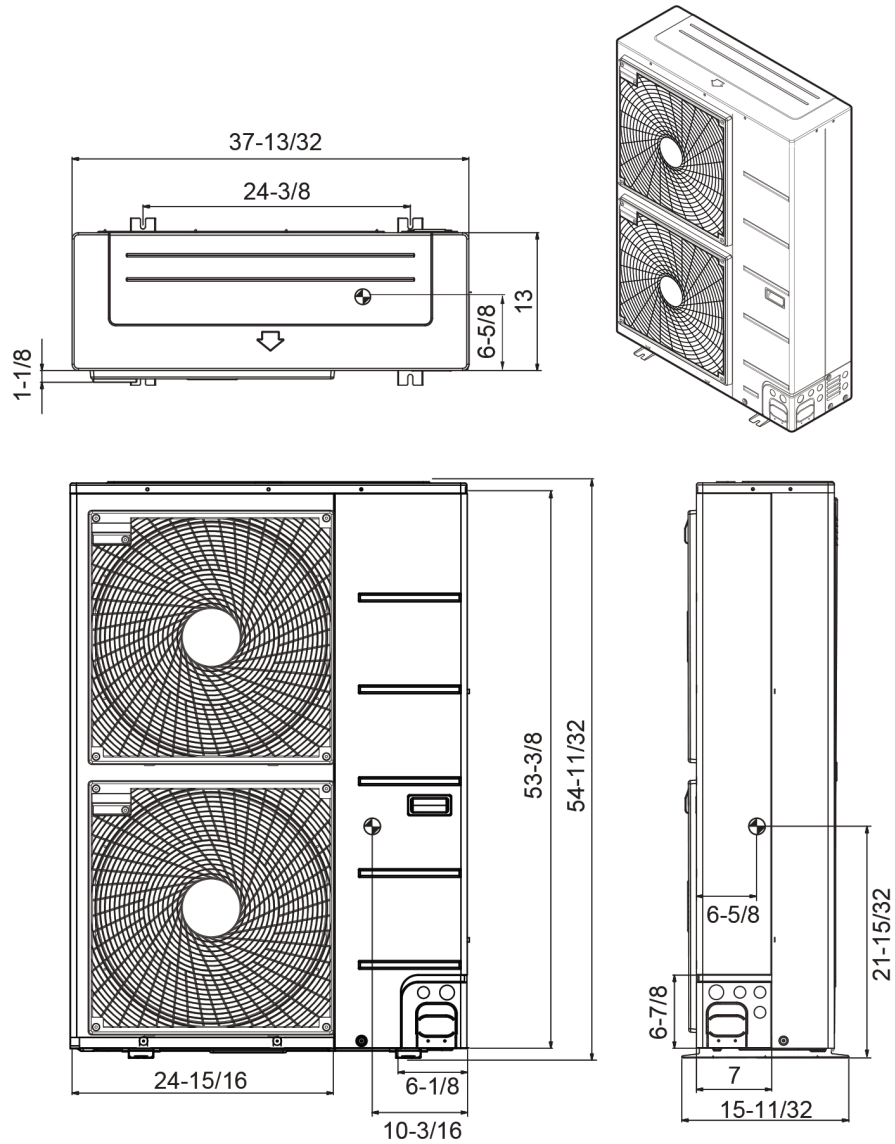
5.0 Ton Outdoor Unit



Tag No.: _____

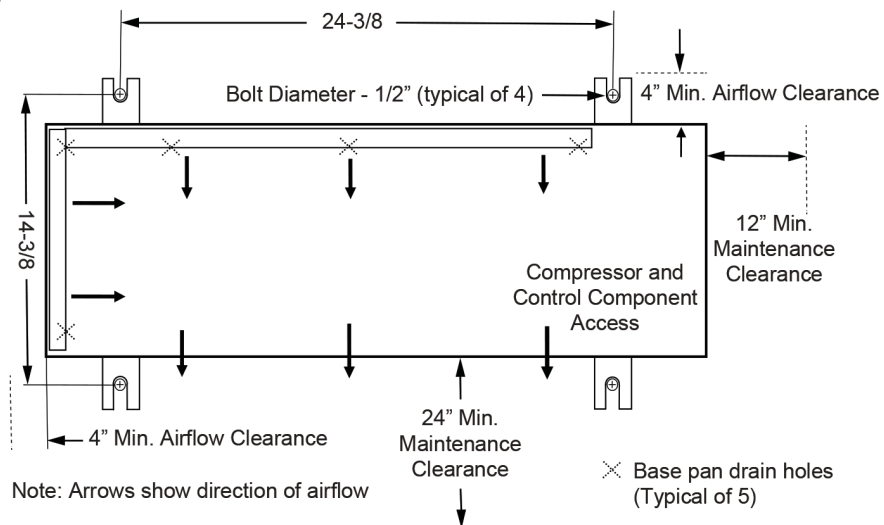
Date: _____

PO No.: _____



Unit: inch

⊕ Center of Gravity



Job Name/Location: _____

ARUN060GSS4

Multi V™ S Heat Pump

5.0 Ton Outdoor Unit



LG

Life's Good

Tag No.: _____

Date: _____

PO No.: _____

AHRI Data:

Indoor Unit Type	Cooling Capacity (95°F)	EER2 (95°F)	SEER2	High Heating Capacity (47°F)	Low Heating Capacity (17°F)	HSPF2	Low Heating Capacity (5°F)	Heating COP at 5°F
Non-Ducted Indoor Units	60,000	13.00	23.00	67,000	42,500	10.00	50,000	1.83
Ducted Indoor Units	60,000	10.00	16.20	67,000	42,500	9.10	50,000	1.83

Date:

PO No.:

Architect:

Engr:

Rep:

(Company)

(Project Manager)

For: File Resubmit Approval Other

GC:

Mech:



PAHCMR000

AHU Communications Kit

Return Air

Electrical:

Power Supply	208-230VAC, 60Hz, 1Ph
Rated Current	0.1A

Environmental Data:

Operating Temperature	-4 to +149°F
Humidity	0-98% (Non-condensing)

Unit Data:

Dimensions (inch)	11-13/16 W x 11-13/16 D x 6-3/32 H
Net Weight (lb.)	13.7
Shipping Weight (lb.)	16.4

Standard Features:

- Allows communication between third-party air handling unit controllers and LG air source and water source units
- AHU Coil Capacities
 - 41°F minimum entering air temperature
 - 12-384 kBtu/h for Multi V
- One Thermistor (Return air; 16.4 ft. in length.)
- EEV Control
- Analog input (0-10V) for capacity control
- Digital Inputs for On/Off and Mode control
- Digital Outputs for ODU running status (heat/cool/off), ODU defrost signal
- Designed for outdoor installation

Required Accessories (Sold Separately):

One of the following wired controllers:

- ☐ MultiSITE Remote Controller CRC1 - PREMTBVC0
- ☐ MultiSITE Remote Controller CRC1+ - PREMTBVC1
- ☐ Premium Remote Controller - PREMTA000
- ☐ Simple Remote Controller - PREMTCC0U

One of the following Electronic Expansion Valves:

- ☐ AHU EEV Kit PRLK048A0
- ☐ AHU EEV Kit PRLK096A0
- ☐ AHU EEV Kit PRLK396A0
- ☐

Notes:

1. Must follow installation instructions in the applicable LG installation manual.

Connectivity:

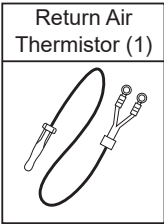
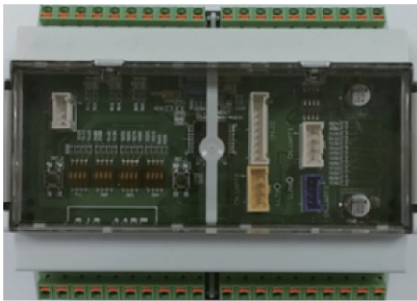
LG Communications	RS-485 (Connects to IDU A/B Communications Terminals on ODU)
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Communications Cabling Specifications:

Type	Stranded, Shielded Copper Cable
Size	18 x 2

AWG - American Wire Gauge

Communications Module

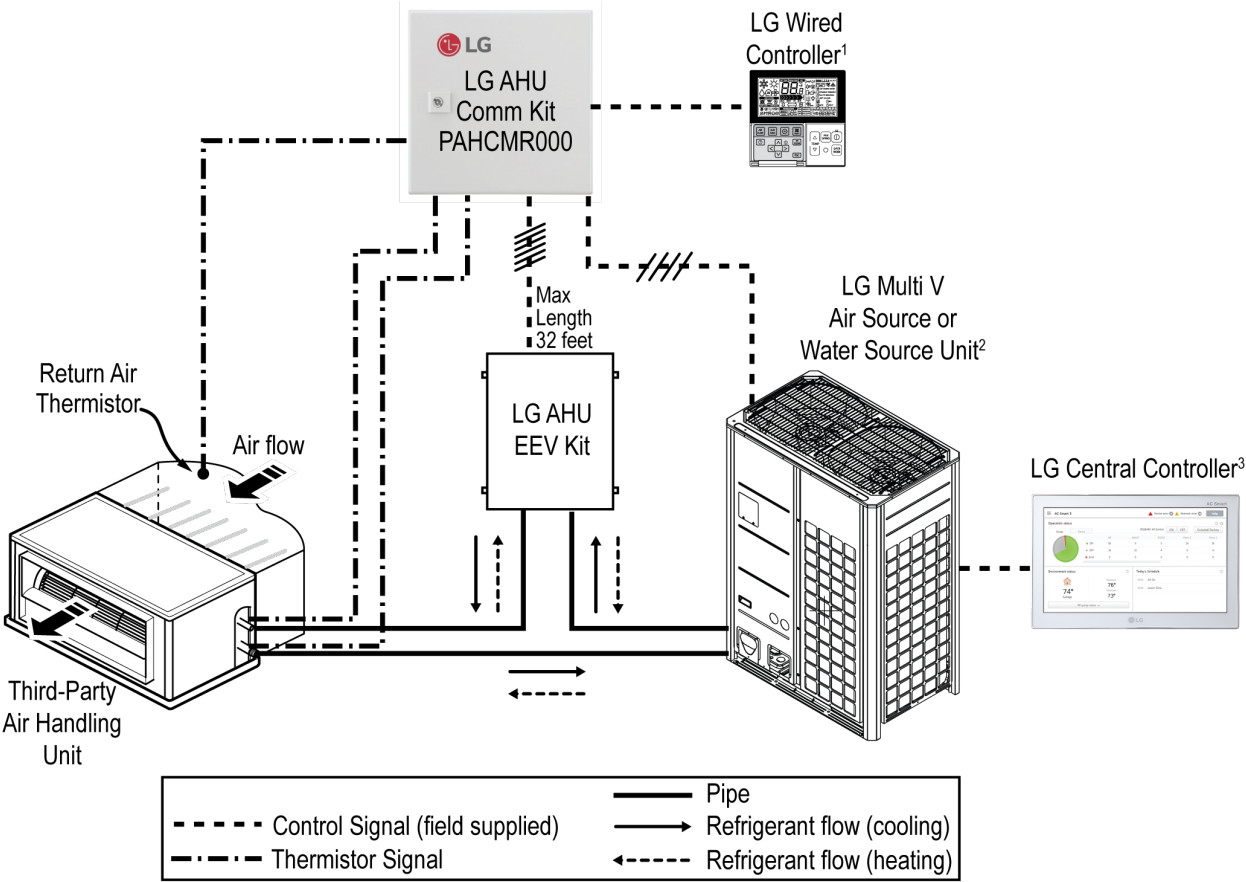


AHU Capacity Multi V (kBtu/h)
12
15
18
24
28
36
42
48
54
76
96
115
134
153
172
192
216
240
264
288
312
336
360
384

PAHCMR000
AHU Communications Kit
Return Air

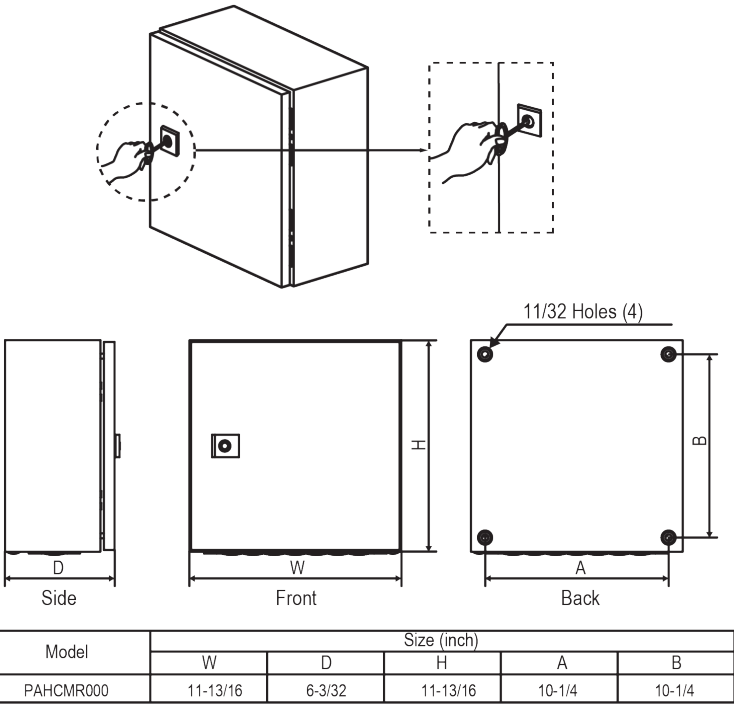


Tag No.: _____
Date: _____
PO No.: _____



¹LG wired controller is required.
²Compatible units are Multi V.
³Compatible central controllers are AC Smart V and ACP V.

AHU Communications Kit Installation



Date:	For: <input type="checkbox"/> File <input type="checkbox"/> Resubmit <input type="checkbox"/> Approval <input type="checkbox"/> Other _____
PO No.:	
Architect:	GC:
Engr:	Mech:
Rep:	
(Company)	(Project Manager)

PRLK048A0

Electronic Expansion Valve Kit

for AHU Communications Kit



Electrical:

Power Supply	Powered by AHU Comm Kit (12 VDC)
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Environmental Data:

Operating Temperature	-4 -149 °F
Humidity	0-98 % (non-condensing)

Unit Data:

Dimensions (inch)	8-5/8 W x 15-15/16 H x 3-5/16 D
Net Weight (lb)	6.8
Shipping Weight (lb)	7.9

Capacity:

Maximum AHU Capacity (Btu/h)	96,000
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Standard Features:

- Controls refrigerant flow between Multi V air or water source units and a 3rd party air handling unit
- Minimum coil entering temperature is 41°F
- Maximum distance between EEV and Comm kit is 32 feet
- Maximum of (1) EEV kit can be connected to Comm kit
- When brazing to EEV kit, use wet cloth to ensure main EEV body temperature does not exceed 248°F
- Designed for indoor installations (field supplied water-proof enclosure must be used when installing outdoors)
- Includes (1) Pipe In and (1) Pipe Out temperature sensor

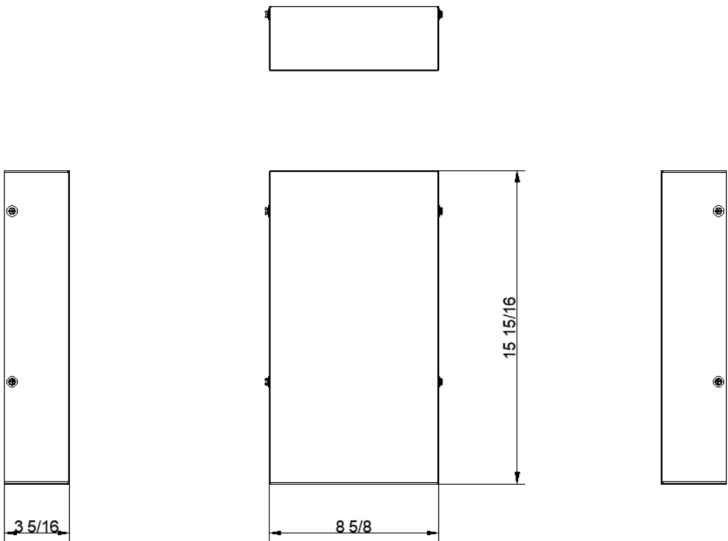
Communications Cabling Specifications:

Type	Stranded, shielded copper cable
Size	AWG 18 x 6

AWG - American Wire Gauge

Refrigerant

Refrigerant Type	R410A
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Notes:

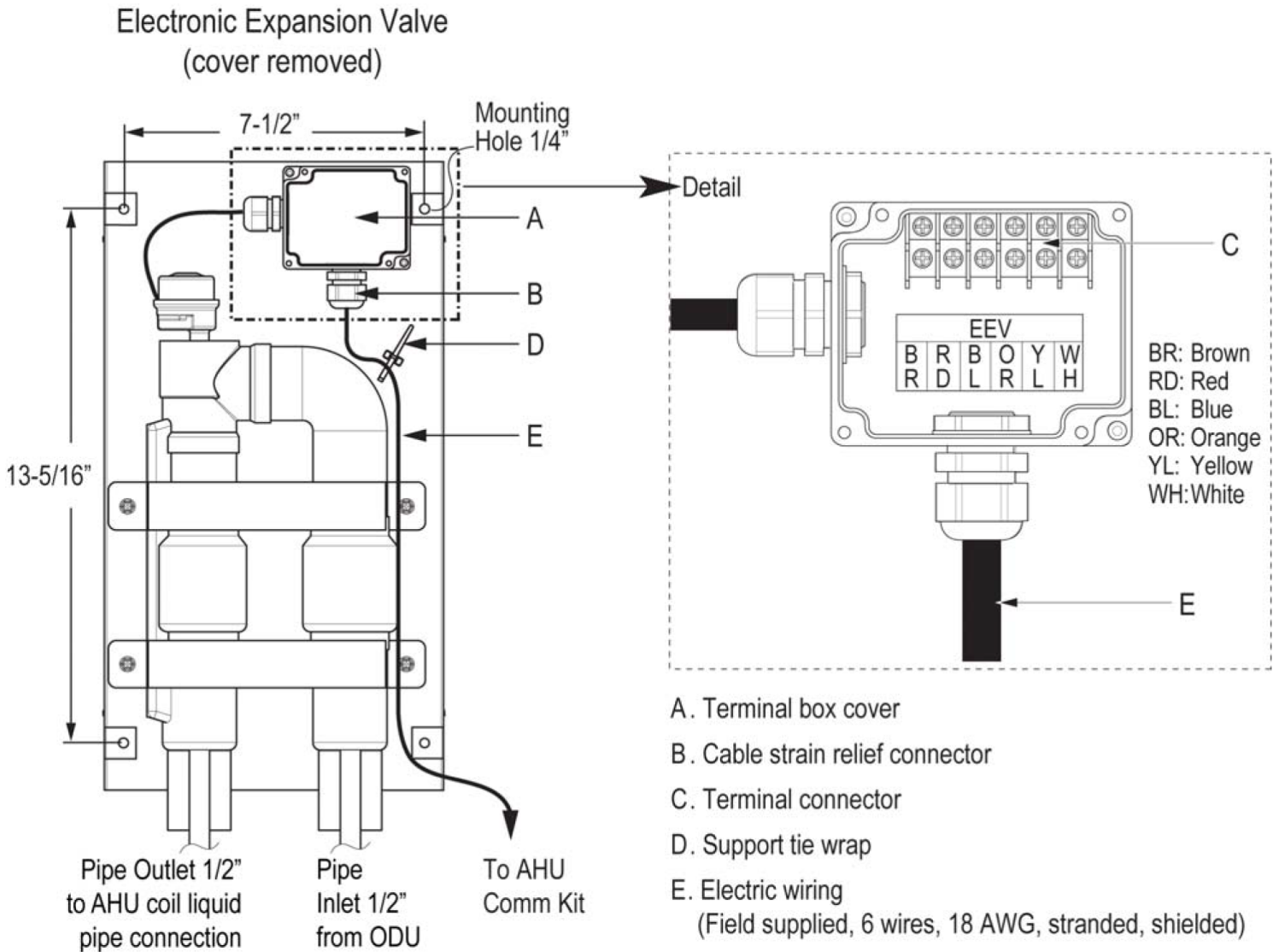
1. Must follow installation instructions in the applicable LG installation manual.

PRLK048A0**Electronic Expansion Valve Kit**

for AHU Communications Kit

**LG**

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Tag #:**Date:****PO No.:**

Job Name/Location:

Tag #:

Date:	For: <input type="checkbox"/> File <input type="checkbox"/> Resubmit
PO No.:	<input type="checkbox"/> Approval <input type="checkbox"/> Other _____
Architect:	GC:
Engr:	Mech:
Rep:	
(Company)	(Project Manager)



PRVC2 Outdoor Unit Multi Application I/O Module

Electrical:

Power Supply	24VDC
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Environmental:

Operating Temp Ranges (°F)	
Cooling	
Outdoor:	95
Indoor:	81
Heating	
Outdoor:	45
Indoor:	68

Unit Data:

Dimensions	4" W x 5" H x 1" D
Net Weight	3
Shipping Weight	4

Applications:

Low Ambient Control

- Allows control of louvers on top elbow vent of low ambient baffle kit
- Controls from one to three low ambient baffle kits
- Field supplied 24 volt damper actuator (Required)

Variable Water Flow Valve Control

- Allows variable water flow based on indoor unit demand as needed to work with variable water pumping systems
- Sends 0-10 volt signal to a modulating valve
- One control kit per each frame
- Field supplied 24 volt water control valve (required)

ODU Capacity Control (AHU or System)

- Control capacity of outdoor unit
- Accepts 0-10 volt signal
- Field supplied third party controller (required)

Connectivity:

Outdoor Unit	Power and communication
Inputs	
Digital	Dry contact
Analog	0 to 10VDC
Outputs	
Digital	Operating and error status relay (250V, 1A)
Analog	0 to 10VDC

Cabling Specifications:

Type	stranded, shielded copper cable
Size	AWG 22

AWG - American Wire Gauge

Required Accessories (sold separately)

Low Ambient Control

One or more of the following Low Ambient Baffle Kits.

- ☐ Low Ambient Baffle Kit - ZLABKA01A
- ☐ Low Ambient Baffle Kit - ZLABKA03A
- ☐ Low Ambient Baffle Kit - ZLABKA51A
- ☐ Low Ambient Baffle Kit - ZLABKA52A

Variable Water Flow Valve Control

- ☐ Variable water flow kit. PWFCCKNOOO (Includes PRVC2 controller)

AHU Capacity Control

- ☐ Communications Kit
- One of the following:**
 - ☐ PAHCMROOO Return Air
 - ☐ PAHCMSOOO Supply Air

- ☐ Electronic Expansion Valve

One of the following:

- ☐ PRLK048AO (8 Ton)
- ☐ PRLK096AO (16 Ton)
- ☐ PRLK396AO (32 Ton)
- ☐ PRLK594AO (48 Ton)

Notes:

1. Must follow installation instructions in the applicable LG installation manual.

For continual product development, LG reserves the right to change specifications without notice.

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SB_IO_Module_PRVC2_2021_04_12_115632

PRVC2

Outdoor Unit Multi Application I/O Module



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Date:

PO No.:

