

AIRTEMP INC.
MECHANICAL CONTRACTORS
20 THOMAS DRIVE
WESTBROOK, MAINE 04092
207-774-2300
207-874-2383 FAX

A COMFORT SYSTEMS USA COMPANY
QUALITY PEOPLE – BUILDING SOLUTIONS

SUBMITTAL

JOB: ALTA VISTA
DATE: 7/27/17
LOCATION: FOREST AVE PORTLAND
MECHANICAL CONTRACTOR: AIRTEMP INC.

AIRTEMP JOB NUMBER: 884

AIRTEMP IS PLEASED TO SUBMIT THE FOLLOWING ITEM(S) FOR APPROVAL:

ROOF TOP UNITS

PLEASE RETURN .PDF OF REVIEWED SUBMITTAL TO US



SUBMITTAL DATA

For: Approval

Order #:

Date: 07/26/2017

Project: Alta Vista

Project #:

Location:

Date

07/26/2017

Project Name

Alta Vista

Project Number**Client / Purchaser**

Submittal Summary Page

Qty	Tag #	Model #	Description
1		ZF090N18D4A1AAA1A1	7.5 Ton, Single Packaged R-410A Air Conditioner, Standard Efficiency, Two Stage Cooling, 11.0 EER / 12.2 IEER (CV) / 12.7 IEER (IntelliSpeed) / 12.2 IEER (VAV), 180 MBH Input Aluminized Steel, Two Stage Gas Heat, 460-3-60 <ul style="list-style-type: none"> • 3 HP High Static Belt Drive Blower • Standard 2" Throwaway Filters • Simplicity® SE Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors • Micro-Channel "all-aluminum" condenser coil, Copper tube/aluminum fin evaporator coil • Composite Drain Pan - Front Connection
1		1RC0471	Roof Curb - 14" High, Flat, Uninsulated, Full Perimeter (Shipped Knocked Down)
1		2EE04707424	Economizer for Downflow, End Return Horizontal, or ERV Applications. Includes FA Hood, Exhaust Hood w/Baro Relief
1		2EC0401	Kit, Single Enthalpy Field Installed
1		ZF150N24D4A1BAA1A1	12.5 Ton, Single Packaged R-410A Air Conditioner, Standard Efficiency, Two Stage Cooling, 10.8 EER / 12.0 IEER (CV) / 12.6 IEER (IntelliSpeed) / 12.0 IEER (VAV), 240 MBH Input Aluminized Steel, Two Stage Gas Heat, 460-3-60 <ul style="list-style-type: none"> • 5 HP High Static Belt Drive Blower • Standard 2" Throwaway Filters • Simplicity® SE Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors • Phase Monitor • Micro-Channel "all-aluminum" condenser coil, Copper tube/aluminum fin evaporator coil • Composite Drain Pan - Front Connection
1		1RC0471	Roof Curb - 14" High, Flat, Uninsulated, Full Perimeter (Shipped Knocked Down)
1		2EE04707624	Economizer for Downflow, End Return Horizontal, or ERV Applications. Includes FA Hood, Exhaust Hood w/Baro Relief
1		2EC0401	Kit, Single Enthalpy Field Installed
1		S1-02812364700	Blower Sheave for 12.5 Ton High Static Field Installed Drive
1		S1-BX54	Belt for 12.5 Ton High Static Field Installed Drive

Equipment start-up and commissioning by a factory trained technician is recommended.
Contact your supplying distributor or sales representative for additional information & guidance.



Predator (3-12.5 Ton Package) N524

York Single Package R-410A Air Conditioner

Project Name: Alta Vista

Unit Model #: ZF090N18D4A1AAA1A1

Quantity: 1

System: ZF090N18D4A1AAA1A1

Cooling Performance

Total gross capacity	93.0 MBH
Sensible gross capacity	66.8 MBH
Total net capacity	86.6 MBH
Sensible net capacity	60.4 MBH
Efficiency (at ARI)	11.00 EER
Integrated eff. (at ARI)	12.20 IEER
Ambient DB temp.	95.0 °F
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Leaving DB temp.	59.4 °F
Leaving WB temp.	57.2 °F
Power input (w/o blower)	7.30 kW
Sound power	89 dB(A)

Refrigerant

Refrigerant type	R-410A
Sys1	4 lbs 12 oz
Sys2	4 lbs 10 oz

Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	144 MBH
Supply air	3000 CFM
Heating input capacity (Max)	180 MBH
Leaving DB temp.	104.4 °F
Air temp. rise	44.4 °F
SSE	80.0 %
Stages	2

Supply Air Blower Performance

Supply air	3000 CFM
Ext. static pressure	0.6 IWG
Addl. Unit Losses (Options/Accessories)	0.2 IWG
Blower speed	1245 RPM
Max BHP of Motor (including service factor)	3.45 HP
Duct location	Bottom
Motor rating	3.00 HP
Actual required BHP	2.03 HP
Power input	1.89 kW
Elevation	0 ft.
Drive type	BELT

Electrical Data

Power supply	460-3-60
Unit min circuit ampacity	19.6 Amps
Unit max over-current protection	20 Amps

Dimensions & Weight

Hgt	42 in.	Len	89 in.	Wth	59 in.	
Weight with factory installed options						965 lbs.

Clearances

Right	12 in.	Front	36 in.	Back	36 in.
Top	72 in.	Bottom	0 in.	Left	36 in.

Note: Please refer to the tech guide for listed maximum static pressures



7.5 Ton

- York Predator units are manufactured at an ISO 9001 registered facility and each rooftop is completely computer-run tested prior to shipment.

Unit Features

- Two Stage Cooling
- 180 MBH Input Aluminized Steel, Two Stage Gas Heat
- Full perimeter base rails with built in rigging capabilities
- Either supply and/or return can be field converted from vertical to horizontal configuration without cutting panels.
- Unit Cabinet Constructed of Powder Painted Steel, Certified At 1000 Hours Salt Spray Test (ASTM B-117 Standards)
- Reciprocating Compressor
- 3 HP High Static Belt Drive Blower
- Unit Ships with 2" Throwaway Filters
- Solid Core Liquid Line Filter Driers
- Replacement Filters: 4 - (24" x 16"). Unit accepts 2" or 4" wide filters.
- Short Circuit Current: 5kA RMS Symmetrical
- Through-the-Curb and Through-the-Base Utility Connections
- Single Point Power Connection
- Micro-Channel "all-aluminum" condenser coil, Copper tube/aluminum fin evaporator coil
- Composite Drain Pan - Front Connection
- Hinged Access Panels

Standard Unit Controller: Simplicity Control Board

- Safety Monitoring - Monitors the High and Low-Pressure Switches, the Freezestats, the Gas Valve, if Applicable, and the Temperature Limit Switch on Gas and Electric Heat Units. The Unit Control Board will Alarm on Ignition Failures, Safety Lockouts and Repeated Limit Switch Trips.
- An Integrated Low-Ambient Control, Anti-Short Cycle Protection, Lead-Lag, Fan On and Fan off Delays, Low Voltage Protection, On-Board Diagnostic and Fault Code Display. Allows all units to operate in the cooling mode down to 0 °F outdoor ambient without

BAS Controller

- Simplicity SE Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors

Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty - Compressors and Electric Heater Elements
- Ten (10) Year Limited Warranty - Aluminized Steel Heat Exchanger



Predator (3-12.5 Ton Package) N524

York Single Package R-410A Air Conditioner

Project Name: Alta Vista

Unit Model #: ZF090N18D4A1AAA1A1

Quantity: 1

System: ZF090N18D4A1AAA1A1

Factory Installed Options

ZF090N18D4A1AAA1A1

Product Category:	ZF	Single Packaged R-410A Air Conditioner, Standard Efficiency 11.0 EER / 12.2 IEER (CV) / 12.7 IEER (IntelliSpeed) / 12.2 IEER (VAV)
Nominal Cooling Capacity:	090	7.5 Ton Two Stage Cooling
Heat Type and Nominal Heat Capacity:	N18	180 MBH Input Aluminized Steel, Two Stage Gas Heat
Airflow:	D	3 HP High Static Belt Drive Blower
Voltage:	4	460-3-60
Economizer / Damper:	A	
Service Options:	1	
Sensor Options:	A	
Controls:	A	Simplicity® SE Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors
Refrigeration:	A	Micro-Channel "all-aluminum" condenser coil, Copper tube/aluminum fin evaporator coil
Additional Options:	1	Standard 2" Throwaway Filters
Cabinet Options:	A	Composite Drain Pan - Front Connection
Product Generation:	1	

Field Installed Accessories

- 1RC0471 - Roof Curb - 14" High, Flat, Uninsulated, Full Perimeter (Shipped Knocked Down) (135.0 lbs)
- 2EE04707424 - Economizer for Downflow, End Return Horizontal, or ERV Applications. Includes FA Hood, Exhaust Hood w/Baro Relief (145.0 lbs)
- 2EC0401 - Kit, Single Enthalpy Field Installed (1.0 lbs)

Project Name: Alta Vista

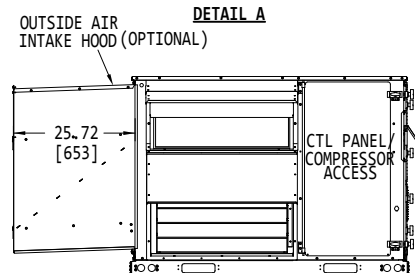
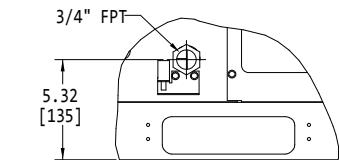
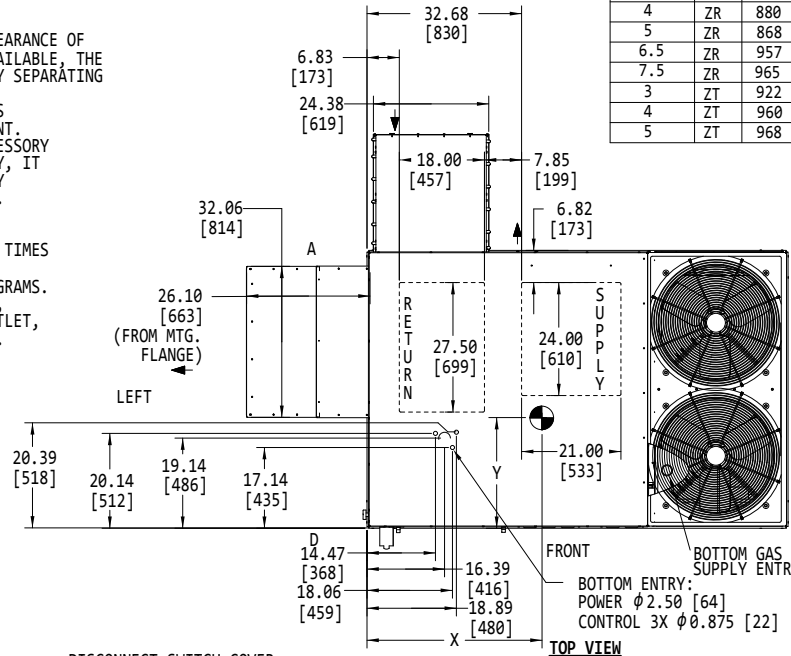
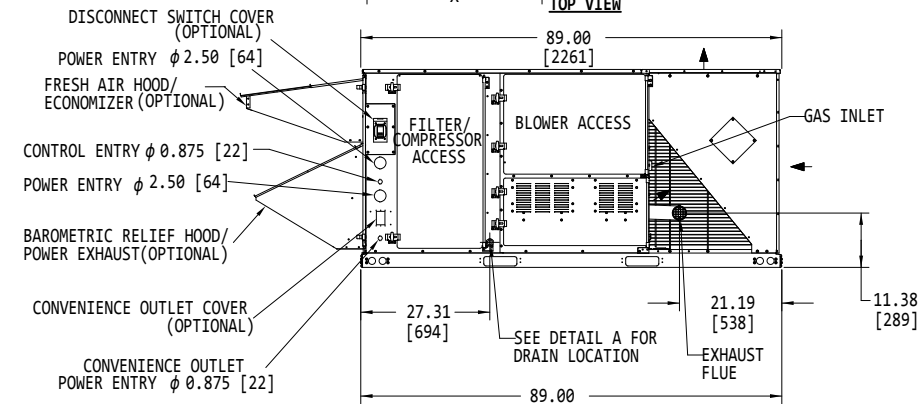
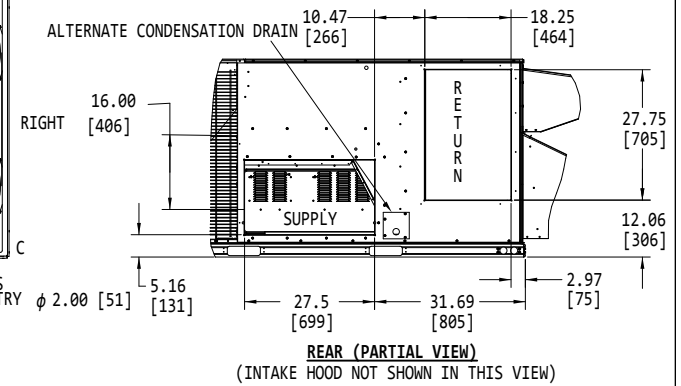
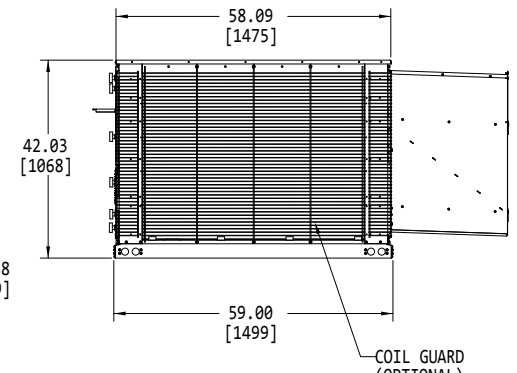
Unit Model #: ZF090N18D4A1AAA1A1

Quantity: 1

System: ZF090N18D4A1AAA1A1

Consolidated Drawing
NOTES:

1. FOR OUTDOOR USE ONLY.
2. WEIGHTS SHOWN ARE FOR COOLING ONLY UNITS.
3. MIN. CLEARANCES TO BE:
 - RIGHT SIDE: 12 [305]
 - LEFT SIDE: 36 [915]
 - FRONT: 36 [915]
 - REAR: 36 [915]
 - TOP: 72 [1830]
 - BOTTOM: 0 [0]
4. TO REMOVE THE SLIDE-OUT DRAIN PAN, A REAR CLEARANCE OF 60 in (1525 mm) IS REQUIRED. IF SPACE IS UNAVAILABLE, THE DRAIN PAN CAN BE REMOVED THROUGH THE FRONT BY SEPARATING THE CORNER WALL.
5. FOR SMALLER SERVICE AND OPERATIONAL CLEARANCES CONTACT YOUR APPLICATION ENGINEERING DEPARTMENT.
6. DOWNFLOW DUCTS DESIGNED TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY. IF UNIT IS MOUNTED SIDE SUPPLY, IT IS RECOMMENDED THAT THE DUCTS ARE SUPPORTED BY CROSS BRACES, AS DONE ON ACCESSORY ROOF CURBS.
7. SIDE DUCT FLANGES ARE 0.75" HIGH. BOTTOM DUCTS DO NOT HAVE FLANGES.
8. MINIMUM CONDENSATION TRAP HEIGHT SHALL BE 1.5 TIMES THE LOWEST NEGATIVE STATIC.
9. DIMENSIONS IN [] ARE IN MILLIMETERS OR KILOGRAMS.
10. OPTIONAL COIL GUARDS, POWER EXHAUST, GAS HEAT ECONOMIZER, DISCONNECT SWITCH, CONVENIENCE OUTLET, AND BAROMETRIC RELIEF & FRESH AIR HOODS SHOWN. DELETED
11. 8 TUBE HEAT EXCHANGER IS NOT AVAILABLE FOR 3 & 4 TON UNITS.

 DIRECTION OF AIRFLOW
 CENTER OF GRAVITY

LEFT VIEW

TOP VIEW

FRONT VIEW
 (OPTIONAL FRONT COIL GUARD NOT SHOWN IN THIS VIEW)

REAR (PARTIAL VIEW)
 (INTAKE HOOD NOT SHOWN IN THIS VIEW)

RIGHT VIEW

TONNAGE	UNIT	OPERATING WEIGHT (LBS) (BASE UNIT)	CENTER OF GRAVITY LOCATION (BASE UNIT)		4 POINT CORNER LOADS (LBS) (BASE UNIT)			
			X	Y	A	B	C	D
6.5	ZF	860 [390]	38 [965]	24 [610]	200 [91]	149 [68]	218 [99]	292 [133]
7.5	ZF	880 [399]	38 [965]	24 [610]	205 [93]	153 [69]	223 [101]	299 [136]
5	ZH	864 [393]	40 [1016]	26 [660]	210 [95]	171 [78]	217 [99]	266 [121]
6.5 & 7.5	ZH	910 [413]	38 [965]	24 [610]	212 [96]	158 [72]	230 [104]	309 [140]
5	ZJ	770 [349]	40 [1016]	24 [610]	172 [78]	141 [64]	205 [93]	251 [114]
4	ZR	880 [399]	40 [1016]	26 [660]	214 [97]	174 [79]	221 [100]	271 [123]
5	ZR	868 [394]	40 [1016]	26 [660]	211 [96]	172 [78]	218 [99]	267 [121]
6.5	ZR	957 [435]	38 [965]	23 [584]	214 [97]	161 [73]	249 [113]	333 [151]
7.5	ZR	965 [438]	38 [965]	23 [584]	216 [98]	161 [73]	251 [114]	337 [153]
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4	ZT	960 [436]	42.5 [1080]	25.5 [648]	217 [98]	198 [90]	260 [118]	285 [129]
5	ZT	968 [439]	41.6 [1057]	25.5 [648]	223 [101]	196 [89]	257 [117]	293 [133]

York Single Package R-410A Air Conditioner

Project Name: Alta Vista

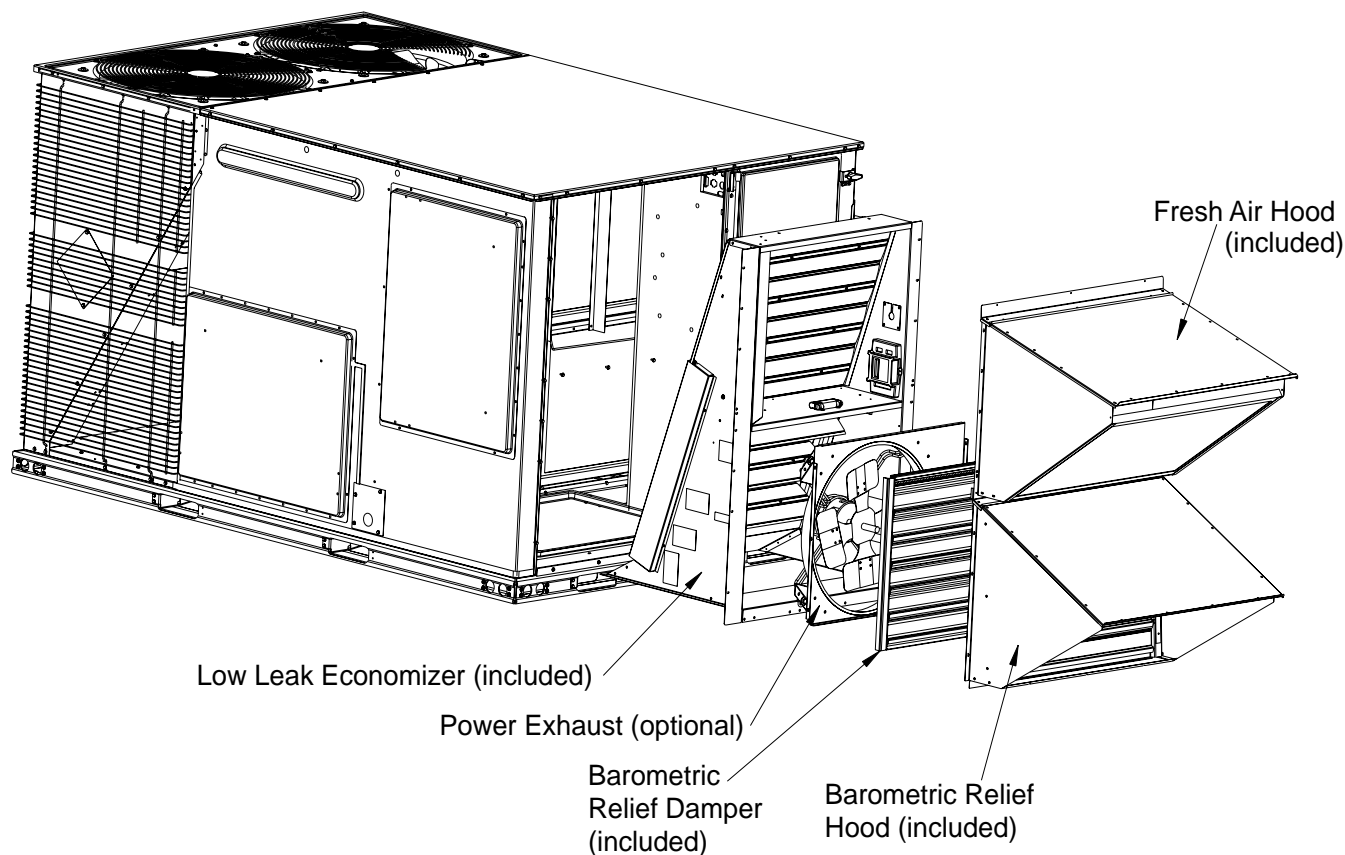
Unit Model #: ZF090N18D4A1AAA1A1

Quantity: 1

System: ZF090N18D4A1AAA1A1

Low Leak Downflow Economizer

Low Leak Downflow Economizer (shown with optional Power Exhaust)



Low leak economizers are capable achieving low leakage rates of 3 cfm/sq. ft at 1" of static pressure, meeting or exceeding the following standards:

- ASHRAE 90.1-2010
- ASHRAE 62
- AMCA 511 (licensed as Class 1A damper)
- International Energy Conservation Code (IECC)
- California Title 24

The outdoor intake opening shall be covered with a rain hood that matches the exterior of the unit. Water eliminator/filters shall be provided.

Simultaneous economizer/compressor operation is also possible. Dampers shall fully close on power loss.

York Single Package R-410A Air Conditioner

Project Name: **Alta Vista**

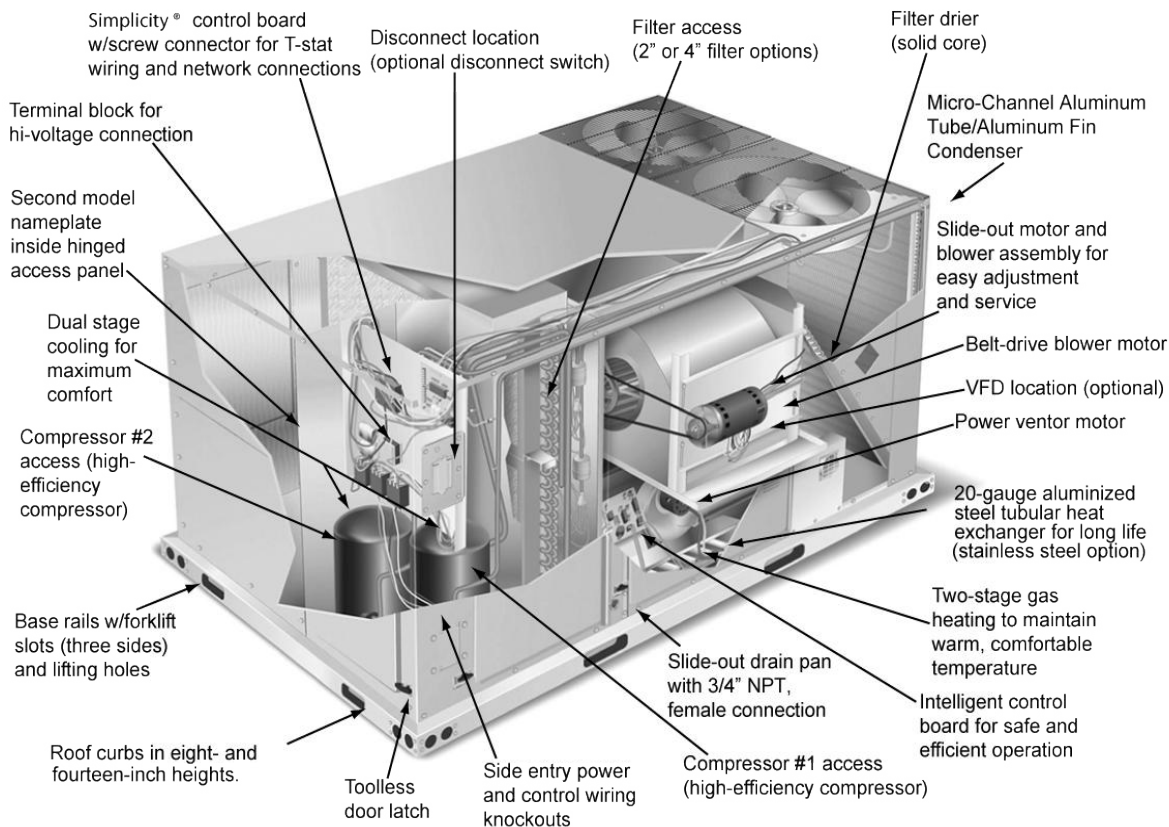
Unit Model #: **ZF090N18D4A1AAA1A1**

Quantity: **1**

System: **ZF090N18D4A1AAA1A1**

Component Location

6 1/2 Through 10 Tons



York Single Package R-410A Air Conditioner

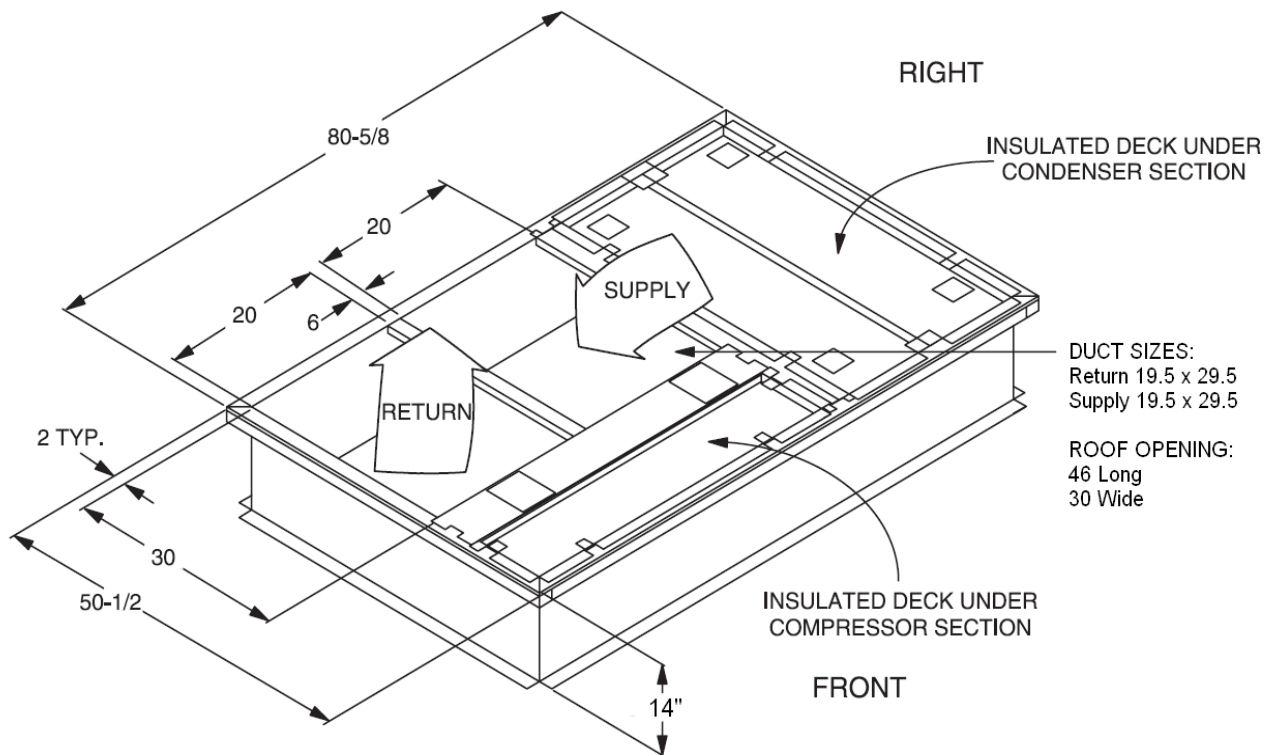
Project Name: **Alta Vista**

Unit Model #: **ZF090N18D4A1AAA1A1**

Quantity: **1**

System: **ZF090N18D4A1AAA1A1**

1RC0471 Roof Curb



DUCT SIZES:
Return 19.5 x 29.5
Supply 19.5 x 29.5

ROOF OPENING:
46 Long
30 Wide

* Supply and Return Air (Including duct support rails) as shown, are typical for bottom duct applications.
For location of horizontal duct applications (On rear of unit), refer to Unit Dimensions details.

1RC0471 Roof Curb Dimensions



Predator (3-12.5 Ton Package) N524

York Single Package R-410A Air Conditioner

Project Name: Alta Vista

Unit Model #: ZF150N24D4A1BAA1A1

Quantity: 1

System: ZF150N24D4A1BAA1A1

Cooling Performance

Total gross capacity	162.3 MBH
Sensible gross capacity	114.6 MBH
Total net capacity	147.2 MBH
Sensible net capacity	99.5 MBH
Efficiency (at ARI)	10.80 EER
Integrated eff. (at ARI)	12.00 IEER
Ambient DB temp.	95.0 °F
Entering DB temp.	80.0 °F
Entering WB temp.	67.0 °F
Leaving DB temp.	58.8 °F
Leaving WB temp.	56.7 °F
Power input (w/o blower)	11.98 kW
Sound power	88 dB(A)

Refrigerant

Refrigerant type	R-410A
Sys1	7 lbs 10 oz
Sys2	7 lbs 4 oz

Gas Heating Performance

Entering DB temp.	60 °F
Heating output capacity (Max)	192 MBH
Supply air	5000 CFM
Heating input capacity (Max)	240 MBH
Leaving DB temp.	95.6 °F
Air temp. rise	35.6 °F
SSE	80.0 %
Stages	2

Supply Air Blower Performance

Supply air	5000 CFM
Ext. static pressure	0.6 IWG
Addl. Unit Losses (Options/Accessories)	0.8 IWG
Blower speed	1459 RPM
Max BHP of Motor (including service factor)	5.75 HP
Duct location	Bottom
Motor rating	5.00 HP
Actual required BHP	4.74 HP
Power input	4.41 kW
Elevation	0 ft.
Drive type	BELT
Requires field-supplied drive	true

Electrical Data

Power supply	460-3-60
Unit min circuit ampacity	40.5 Amps
Unit max over-current protection	50 Amps

Dimensions & Weight

Hgt	51 in.	Len	120 in.	Wth	59 in.
Weight with factory installed options					1368 lbs.

Clearances

Right	12 in.	Front	36 in.	Back	36 in.
Top	72 in.	Bottom	0 in.	Left	36 in.

Note: Please refer to the tech guide for listed maximum static pressures



12.5 Ton

- York Predator units are manufactured at an ISO 9001 registered facility and each rooftop is completely computer-run tested prior to shipment.

Unit Features

- Two Stage Cooling
- 240 MBH Input Aluminized Steel, Two Stage Gas Heat
- Either supply and/or return can be field converted from vertical to horizontal configuration without cutting panels.
- Unit Cabinet Constructed of Powder Painted Steel, Certified At 1000 Hours Salt Spray Test (ASTM B-117 Standards)
- Full perimeter base rails with built in rigging capabilities
- Scroll Compressors
- Slide-Out Blower/5 HP Belt Drive Motor Assembly
- Unit Ships with 2" Throwaway Filters
- Solid Core Liquid Line Filter Driers
- Replacement Filters: 4 - (24" x 20"). Unit accepts 2" or 4" wide filters.
- Short Circuit Current: 5kA RMS Symmetrical
- Through-the-Curb and Through-the-Base Utility Connections
- Single Point Power Connection
- Phase Monitor
- Micro-Channel "all-aluminum" condenser coil, Copper tube/aluminum fin evaporator coil
- Composite Drain Pan - Front Connection
- Hinged Access Panels

Standard Unit Controller: Simplicity Control Board

- Safety Monitoring - Monitors the High and Low-Pressure Switches, the Freezestats, the Gas Valve, if Applicable, and the Temperature Limit Switch on Gas and Electric Heat Units. The Unit Control Board will Alarm on Ignition Failures, Safety Lockouts and Repeated Limit Switch Trips.
- An Integrated Low-Ambient Control, Anti-Short Cycle Protection, Lead-Lag, Fan On and Fan off Delays, Low Voltage Protection, On-Board Diagnostic and Fault Code Display. Allows all units to operate in the cooling mode down to 0 °F outdoor ambient without

BAS Controller

- Simplicity SE Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors

Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty - Compressors and Electric Heater Elements
- Ten (10) Year Limited Warranty - Aluminized Steel Heat Exchanger



Predator (3-12.5 Ton Package) N524

York Single Package R-410A Air Conditioner

Project Name: Alta Vista

Unit Model #: ZF150N24D4A1BAA1A1

Quantity: 1

System: ZF150N24D4A1BAA1A1

Factory Installed Options

ZF150N24D4A1BAA1A1

Product Category:	ZF	Single Packaged R-410A Air Conditioner, Standard Efficiency 10.8 EER / 12.0 IEER (CV) / 12.6 IEER (IntelliSpeed) / 12.0 IEER (VAV)
Nominal Cooling Capacity:	150	12.5 Ton Two Stage Cooling
Heat Type and Nominal Heat Capacity:	N24	240 MBH Input Aluminized Steel, Two Stage Gas Heat
Airflow:	D	5 HP High Static Belt Drive Blower
Voltage:	4	460-3-60
Economizer / Damper:	A	
Service Options:	1	
Sensor Options:	B	
Controls:	A	Simplicity® SE Controller including Discharge Air, Return Air, and Outdoor Air Temperature Sensors
Refrigeration:	A	Micro-Channel "all-aluminum" condenser coil, Copper tube/aluminum fin evaporator coil
Additional Options:	1	Standard 2" Throwaway Filters Phase Monitor
Cabinet Options:	A	Composite Drain Pan - Front Connection
Product Generation:	1	

Field Installed Accessories

- 1RC0471 - Roof Curb - 14" High, Flat, Uninsulated, Full Perimeter (Shipped Knocked Down) (135.0 lbs)
- 2EE04707624 - Economizer for Downflow, End Return Horizontal, or ERV Applications. Includes FA Hood, Exhaust Hood w/Baro Relief (145.0 lbs)
- 2EC0401 - Kit, Single Enthalpy Field Installed (1.0 lbs)
- S1-02812364700 - Blower Sheave for 12.5 Ton High Static Field Installed Drive (3.0 lbs)
- S1-BX54 - Belt for 12.5 Ton High Static Field Installed Drive (0.6 lbs)

Project Name: **Alta Vista**

 Unit Model #: **ZF150N24D4A1BAA1A1**

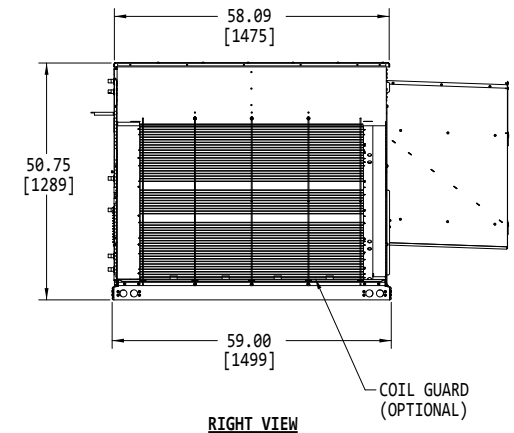
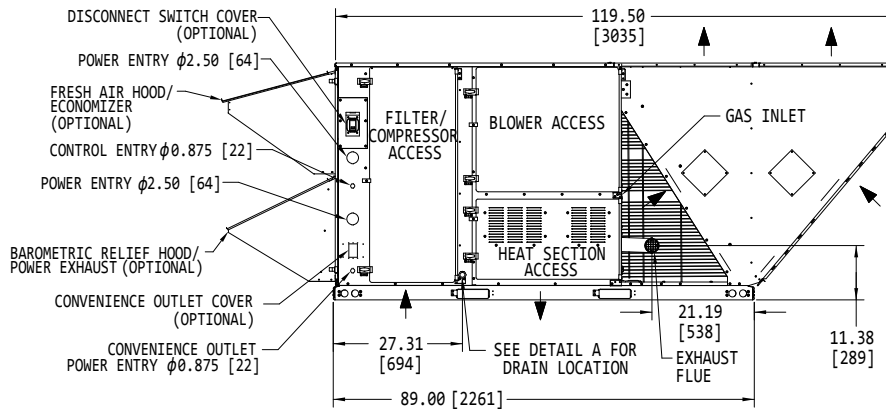
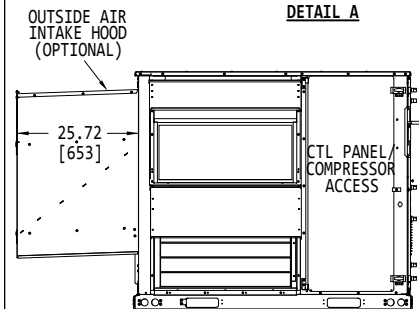
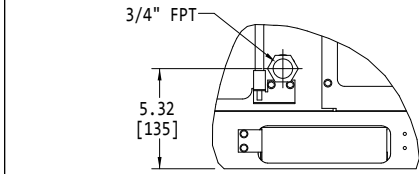
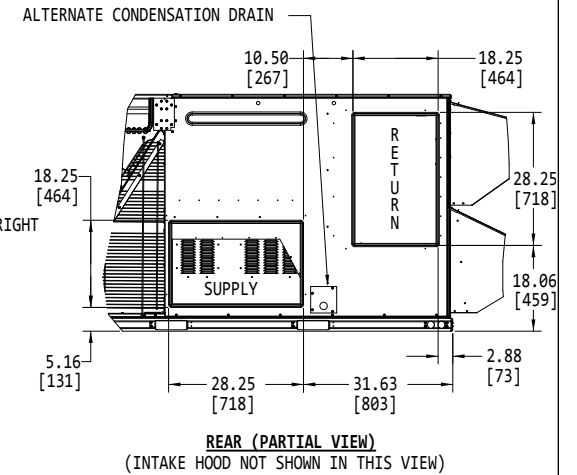
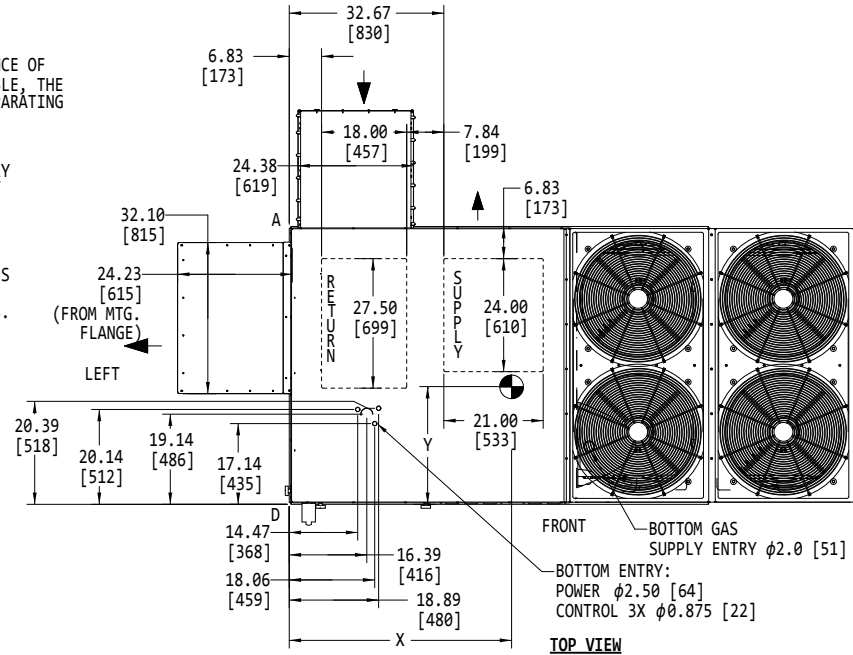
 Quantity: **1**

 System: **ZF150N24D4A1BAA1A1**
Consolidated Drawing
NOTES:

1. FOR OUTDOOR USE ONLY.
2. WEIGHTS SHOWN ARE FOR COOLING ONLY UNITS.
3. MIN. CLEARANCES TO BE:
 RIGHT SIDE: 12 [305]
 LEFT SIDE: 36 [915]
 FRONT: 36 [915]
 REAR: 36 [915]
 TOP: 72 [1830]
 BOTTOM: 0 [0]
4. TO REMOVE THE SLIDE-OUT DRAIN PAN, A REAR CLEARANCE OF 60 in (1525 mm) IS REQUIRED. IF SPACE IS UNAVAILABLE, THE DRAIN PAN CAN BE REMOVED THROUGH THE FRONT BY SEPARATING THE CORNER WALL.
5. FOR SMALLER SERVICE AND OPERATIONAL CLEARANCES CONTACT YOUR APPLICATION ENGINEERING DEPARTMENT.
6. DOWNFLOW DUCTS DESIGNED TO BE ATTACHED TO ACCESSORY ROOF CURB ONLY. IF UNIT IS MOUNTED SIDE SUPPLY, IT IS RECOMMENDED THAT THE DUCTS ARE SUPPORTED BY CROSS BRACES, AS DONE ON ACCESSORY ROOF CURBS.
7. SIDE DUCT FLANGES ARE 0.75" HIGH. BOTTOM DUCTS DO NOT HAVE FLANGES.
8. MINIMUM CONDENSATION TRAP HEIGHT SHALL BE 1.5 TIMES THE LOWEST NEGATIVE STATIC.
9. DIMENSIONS IN [] ARE IN MILLIMETERS OR KILOGRAMS.
10. OPTIONAL COIL GUARDS, POWER EXHAUST, GAS HEAT, ECONOMIZER, DISCONNECT SWITCH, CONVENIENCE OUTLET, AND BAROMETRIC RELIEF & FRESH AIR HOODS SHOWN.

TONNAGE	UNIT	OPERATING WEIGHT (LBS) (BASE UNIT)	CENTER OF GRAVITY LOCATION (BASE UNIT)		4 POINT CORNER LOADS (LBS) (BASE UNIT)			
			X	Y	A	B	C	D
12.5	ZF	1253 [568]	47 [1194]	25 [635]	251 [114]	280 [127]	381 [173]	341 [155]

- ➔ DIRECTION OF AIRFLOW
- CENTER OF GRAVITY


FRONT VIEW
 (OPTIONAL FRONT COIL GUARD NOT SHOWN IN THIS VIEW)

York Single Package R-410A Air Conditioner

Project Name: Alta Vista

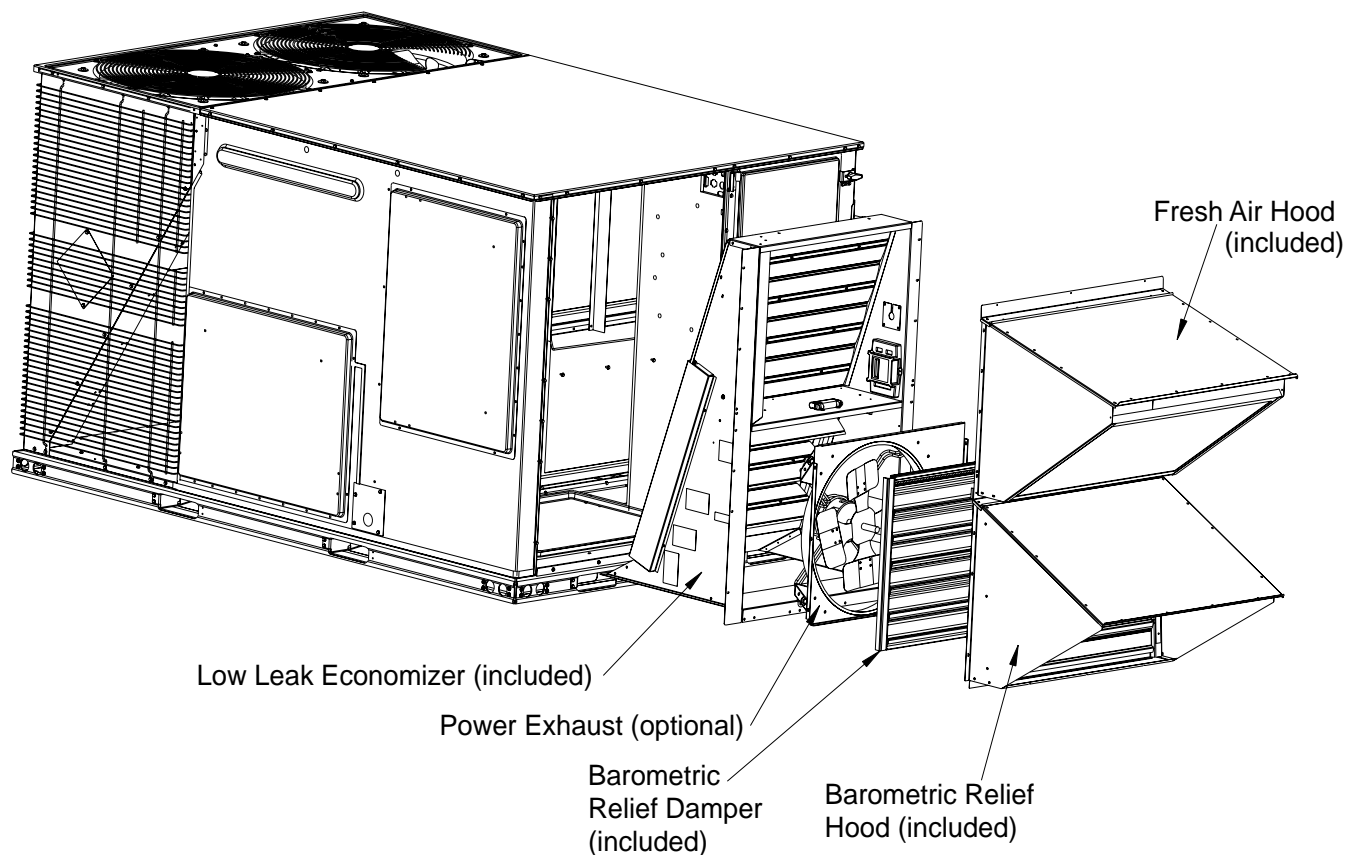
Unit Model #: ZF150N24D4A1BAA1A1

Quantity: 1

System: ZF150N24D4A1BAA1A1

Low Leak Downflow Economizer

Low Leak Downflow Economizer (shown with optional Power Exhaust)



Low leak economizers are capable achieving low leakage rates of 3 cfm/sq. ft at 1" of static pressure, meeting or exceeding the following standards:

ASHRAE 90.1-2010

ASHRAE 62

AMCA 511 (licensed as Class 1A damper)

International Energy Conservation Code (IECC)

California Title 24

The outdoor intake opening shall be covered with a rain hood that matches the exterior of the unit. Water eliminator/filters shall be provided.

Simultaneous economizer/compressor operation is also possible. Dampers shall fully close on power loss.



York Single Package R-410A Air Conditioner

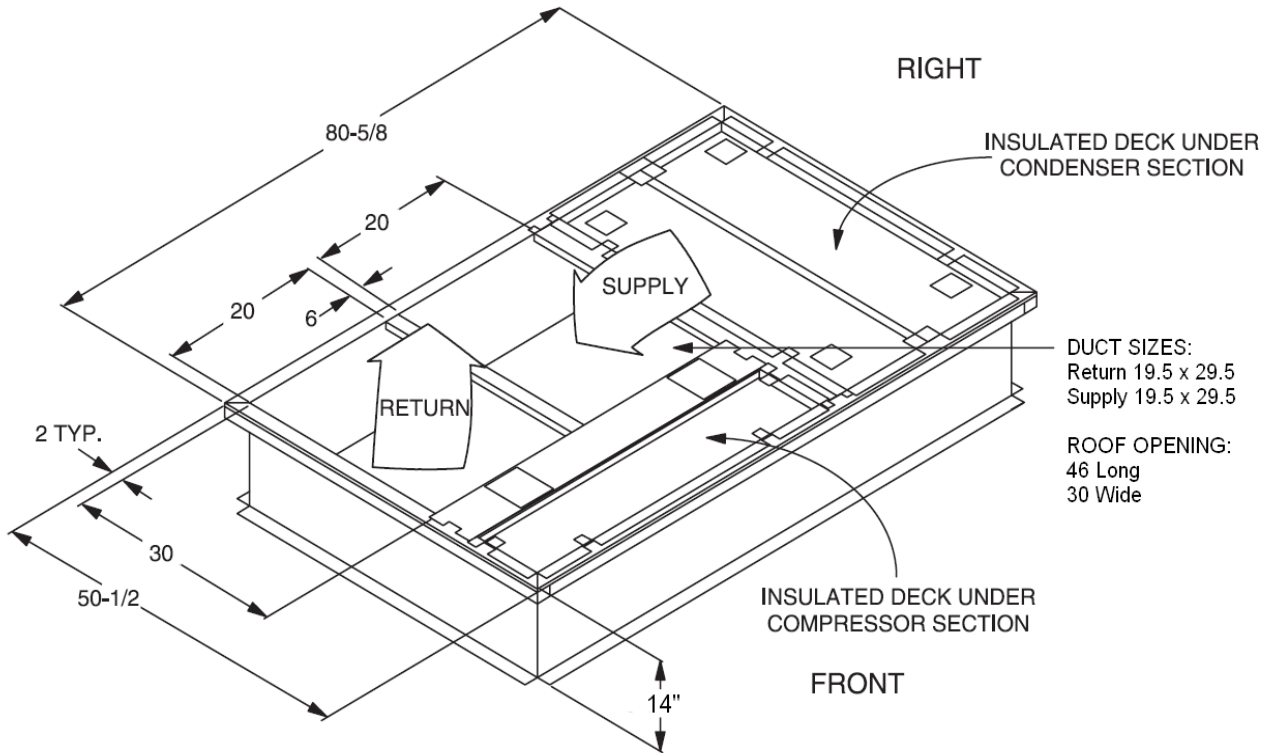
Project Name: **Alta Vista**

Unit Model #: **ZF150N24D4A1BAA1A1**

Quantity: **1**

System: **ZF150N24D4A1BAA1A1**

1RC0471 Roof Curb



DUCT SIZES:
Return 19.5 x 29.5
Supply 19.5 x 29.5

ROOF OPENING:
46 Long
30 Wide

* Supply and Return Air (Including duct support rails) as shown, are typical for bottom duct applications.
For location of horizontal duct applications (On rear of unit), refer to Unit Dimensions details.

1RC0471 Roof Curb Dimensions