Inspections Division
Date: 09/18/14

Predator

Single Package R-410A Air Conditioner

Project Name: **BRICK NORTH WEST** | Unit Model #: **ZJ120N15V4KZZ50001**

Quantity: **2** Tag #: **RTU-1,2 CIRCUS** | System: **ZJ120N15V4KZZ50001 (2)**

Cooling Performance		
Total capacity	123.5	MBH
Sensible capacity	101.0	MBH
Refrigerant type	R-410A	
Efficiency (at ARI)	12.00	EER
Integrated eff. (at ARI)	12.80	IEER
Ambient DB temp.	95.0	°F
Entering DB temp.	77.0	°F
Entering WB temp.	63.9	°F
Leaving DB temp.	53.6	°F
Leaving WB temp.	53.3	°F
Part load efficiency	13.4	IPLV
Power input (w/o blower)	8.94	kW
Sound power	90	dB(A)

Gas Heating Performance		
Entering DB temp.	58	°F
Heating output capacity (Max)	144	MBH
Supply air	4000	CFM
Heating input capacity (Max)	180	MBH
Leaving DB temp.	91.3	°F
Air temp. rise	33.3	°F
SSE	80.0	%
Stages	2	

Supply Air Blower Performance		
Supply air	4000	CFM
Ext. static pressure	0.5	IWG
Unit static resistance	0.78	IWG
Blower speed	1204	RPM
Max BHP of Motor (including service factor)	3.45	HP
Duct location	Bottom	
Motor rating	3.00	HP
Actual required BHP	3.00	HP
Power input	2.79	kW
Elevation	0	ft.
Drive type	BELT	
Requires field-supplied drive	true	

Outside/Mixed Air		
Outside Air Cfm	400	CFM
Outside Air DB temp.	95	°F
Outsided Air WB temp.	78	°F
Outside Air RH	47.3	%
Return Air CFM	3600	CFM
Return Air DB temp.	75	°F
Return Air WB temp.	62	°F
Return Air RH	48.1	%

Electrical Data		
Power supply	460-3-60	
Unit min circuit ampacity	25.6	Amps
Unit max over-current protection	30	Amps

Dimensions & Weight						
Hgt	51	in.	Len	89	in.	Wth	59	in.
Weight with factory installed options							1175	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

10 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

- Unit Cabinet Constructed of Powder Painted Steel, Certified At 1000 Hours Salt Spray Test (ASTM B-117 Standards)
- Through-the-Curb and Through-the-Base Utility Connections
- Full perimeter base rails with built in rigging capabilities
- Hinged Access Panels
- Slide-Out Condensate Drain Pan
- Scroll Compressors
- Two Stage Cooling
- Solid Core Liquid Line Filter Driers
- Microchannel Condenser Coil
- 144 MBH Output Aluminized Steel, Two Stage Gas Heat
- Unit Ships with 4" Pleated Filters (MERV 13)
- Single Point Power Connection
- HACR Circuit Breaker/Disconnect
- Non-Powered Convenience Outlet
- Phase Monitor
- Return Air Smoke Detector
- Single Enthalpy Low Leak Slab Economizer w/Barometric Relief and Hoods (Bottom Return Only)
- Short Circuit Current: 5kA RMS Symmetrical

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.

Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty - Compressors
- Ten (10) Year Warranty - Aluminized Steel Tubular Heat Exchangers

Project Name: **BRICK NORTH WEST** | Unit Model #: **ZJ120N15V4KZZ50001**

Quantity: **2** Tag #: **RTU-1,2 CIRCUS** | System: **ZJ120N15V4KZZ50001 (2)**

Factory Installed Options

ZJ120N15V4KZZ50001

Product Category:	**Z**	York Predator Single Packaged R-410A Air Conditioner
Product Identifier:	**J**	12.0 EER / 12.2 IEER
Nominal Cooling Capacity:	**120**	10 Ton Two Stage Cooling
Heat Type and Nominal Heat Capacity:	**N15**	144 MBH Output Aluminized Steel, Two Stage Gas Heat
Airflow:	**V**	3 HP High Static Belt Drive Blower Single Enthalpy Low Leak Slab Economizer w/Barometric Relief and Hoods (Bottom Return Only)
Voltage:	**4**	460-3-60
Installation Options:	**K**	HACR Circuit Breaker/Disconnect Return Air Smoke Detector (Bottom return only) Non Powered Convenience Outlet
Additional Options:	**ZZ**	4" Pleated Filters (MERV 13) Microchannel Condenser Coil Phase Monitor Composite Drain Pan
Product Generation:	**5**	

Field Installed Accessories

- 1RC0471 - Roof Curb - 14" High, Flat, Uninsulated, Full Perimeter (Shipped Knocked Down) (135.0 lbs)
- 2AQ04700324B - Space CO2 Sensor (To maintain CO2 levels in a conditioned space.) (2.0 lbs)
- 2EC04700924 - Dual Enthalpy Control (For Use with Honeywell 7212 Model Actuators Only) (1.0 lbs)
- S1-02815208000 - Blower Sheave for 8.5 and 10 Ton High Static Field Installed Drive (3.0 lbs)
- S1-A52 - Belt for 8.5 and 10 Ton High Static Field Installed Drive (0.4 lbs)
- S1-TBSU32P7Y - York Branded LX Series, Up to 4 Heat / 2 Cool, Electronic 7 Day Programmable (1.0 lbs)

Inspections Division
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Predator

Single Package R-410A Air Conditioner

Project Name: **BRICK NORTH WEST** | Unit Model #: **ZJ120N15V4KZZ50001**

Quantity: **2** Tag #: **RTU-1,2 CIRCUS** | System: **ZJ120N15V4KZZ50001 (2)**

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 AND FRESH AIR HOODS SHOWN.
11. EXCEPT XP (HEAT PUMP) UNITS.

DIRECTION OF AIRFLOW

CENTER OF GRAVITY

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
8.5	ZF	1007 [458]	38 [965]	24 [610]	235 [107]	175 [79]	255 [116]	342 [155]
10	ZF	1103 [501]	38 [965]	24 [610]	257 [117]	192 [87]	279 [127]	375 [170]
8.5	ZH	1030 [467]	38 [965]	24 [610]	240 [109]	179 [81]	261 [118]	350 [159]
10	ZH	1090 [494]	38 [965]	24 [610]	254 [115]	189 [86]	276 [125]	371 [168]
6.5	ZJ	1030 [467]	39 [991]	25 [635]	245 [111]	191 [87]	260 [118]	333 [151]
7.5	ZJ	1050 [476]	39 [991]	25 [635]	250 [113]	195 [89]	265 [120]	340 [154]
8.5	ZJ	1060 [481]	38 [965]	24 [610]	247 [112]	184 [84]	268 [122]	360 [163]
10	ZJ	1070 [485]	39 [991]	24 [610]	245 [111]	191 [87]	278 [126]	357 [162]
8.5 & 10	ZR	1200 [544]	38 [965]	25.5 [648]	297 [135]	221 [100]	291 [132]	390 [177]
6.5	XP	1080 [490]	38 [965]	25 [635]	262 [119]	195 [89]	266 [121]	357 [162]
7.5	XP	1090 [494]	38 [965]	23 [584]	243 [110]	181 [82]	284 [129]	381 [173]
8.5	XP	1137 [516]	38 [965]	25.5 [648]	282 [128]	210 [95]	276 [125]	370 [168]
10	XP	1135 [515]	38 [965]	25.5 [648]	281 [127]	209 [95]	275 [125]	369 [167]

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

DETAIL A

LEFT VIEW

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

RIGHT VIEW

Project Name: **BRICK NORTH WEST** Unit Model #: **ZJ120N15V4KZZ50001**

Quantity: **2** Tag #: **RTU-1,2 CIRCUS** System: **ZJ120N15V4KZZ50001 (2)**

1RC0471 Roof Curb

* 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

Inspections Division
Date: 09/18/14

Predator

Single Package R-410A Air Conditioner

Project Name: **BRICK NORTH WEST** | Unit Model #: **ZJ061N09H4KZZ50002**

Quantity: **3** Tag #: **RTU-3,4,5** | System: **ZJ061N09H4KZZ50002 (3)**

Cooling Performance		
Total capacity	58.1	MBH
Sensible capacity	47.1	MBH
Refrigerant type	R-410A	
Seasonal Efficiency (at ARI)	15.00	SEER
Efficiency (at ARI)	12.20	EER
Ambient DB temp.	95.0	°F
Entering DB temp.	77.0	°F
Entering WB temp.	63.9	°F
Leaving DB temp.	55.2	°F
Leaving WB temp.	54.1	°F
Power input (w/o blower)	4.06	kW
Sound power	84	dB(A)

Gas Heating Performance		
Entering DB temp.	60	°F
Heating output capacity (Max)	97	MBH
Supply air	2000	CFM
Heating input capacity (Max)	120	MBH
Leaving DB temp.	104.9	°F
Air temp. rise	44.9	°F
SSE	81.0	%
Stages	2	

Supply Air Blower Performance		
Supply air	2000	CFM
Ext. static pressure	0.5	IWG
Unit static resistance	0.26	IWG
Blower speed	946	RPM
Max BHP of Motor (including service factor)	1.73	HP
Duct location	Bottom	
Motor rating	1.50	HP
Actual required BHP	0.92	HP
Power input	0.86	kW
Elevation	0	ft.
Drive type	BELT	

Outside/Mixed Air		
Outside Air Cfm	200	CFM
Outside Air DB temp.	95	°F
Outsided Air WB temp.	78	°F
Outside Air RH	47.3	%
Return Air CFM	1800	CFM
Return Air DB temp.	75	°F
Return Air WB temp.	62	°F
Return Air RH	48.1	%

Electrical Data		
Power supply	460-3-60	
Unit min circuit ampacity	14.2	Amps
Unit max over-current protection	20	Amps

Dimensions & Weight						
Hgt	42	in.	Len	89	in.	Wth	59	in.
Weight with factory installed options							875	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

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

- Unit Cabinet Constructed of Powder Painted Steel, Certified At 1000 Hours Salt Spray Test (ASTM B-117 Standards)
- Through-the-Curb and Through-the-Base Utility Connections
- Full perimeter base rails with built in rigging capabilities
- Hinged Access Panels
- Slide-Out Condensate Drain Pan
- Reciprocating Compressor
- Single Stage Cooling
- Solid Core Liquid Line Filter Driers
- Microchannel Condenser Coil
- 97 MBH Output Aluminized Steel, Two Stage Gas Heat
- 1.5 HP Standard Static Belt Drive Blower
- Unit Ships with 4" Pleated Filters (MERV 13)
- Single Point Power Connection
- HACR Circuit Breaker/Disconnect
- Non-Powered Convenience Outlet
- Return Air Smoke Detector
- Single Enthalpy Low Leak Slab Economizer w/Barometric Relief and Hoods (Bottom Return Only)
- Short Circuit Current: 5kA RMS Symmetrical

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.

Warranty

- One (1) Year Limited Warranty on the Complete Unit
- Five (5) Year Warranty - Compressors
- Ten (10) Year Warranty - Aluminized Steel Tubular Heat Exchangers

Project Name: **BRICK NORTH WEST** | Unit Model #: **ZJ061N09H4KZZ50002**

Quantity: **3** Tag #: **RTU-3,4,5** | System: **ZJ061N09H4KZZ50002 (3)**

Factory Installed Options

ZJ061N09H4KZZ50002

Product Category:	**Z**	York Predator Single Packaged R-410A Air Conditioner
Product Identifier:	**J**	15.0 SEER / 12.2 EER
Nominal Cooling Capacity:	**061**	5 Ton Single Stage Cooling
Heat Type and Nominal Heat Capacity:	**N09**	97 MBH Output Aluminized Steel, Two Stage Gas Heat
Airflow:	**H**	1.5 HP Standard Static Belt Drive Blower Single Enthalpy Low Leak Slab Economizer w/Barometric Relief and Hoods (Bottom Return Only)
Voltage:	**4**	460-3-60
Installation Options:	**K**	HACR Circuit Breaker/Disconnect Return Air Smoke Detector (Bottom return only) Non Powered Convenience Outlet
Additional Options:	**ZZ**	4" Pleated Filters (MERV 13) Microchannel Condenser Coil Composite Drain Pan
Product Generation:	**5**	

Field Installed Accessories

- 1RC0471 - Roof Curb - 14" High, Flat, Uninsulated, Full Perimeter (Shipped Knocked Down) (135.0 lbs)
- 2AQ04700324B - Space CO2 Sensor (To maintain CO2 levels in a conditioned space.) (2.0 lbs)
- S1-TBSU32P7Y - York Branded LX Series, Up to 4 Heat / 2 Cool, Electronic 7 Day Programmable (1.0 lbs)

Inspections Division
Date: 09/18/14

Predator

Single Package R-410A Air Conditioner

Project Name: **BRICK NORTH WEST** | Unit Model #: **ZJ061N09H4KZZ50002**

Quantity: **3** Tag #: **RTU-3,4,5** | System: **ZJ061N09H4KZZ50002 (3)**

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 PAIN, 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.
11. DELETED
12. 8 TUBE HEAT EXCHANGER IS NOT AVAILABLE FOR 3 & 4 TON UNITS.

DIRECTION OF AIRFLOW
CENTER OF GRAVITY

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]
3	ZT	922 [418]	42.4 [1077]	24.7 [627]	202 [92]	184 [84]	255 [116]	281 [128]
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]

TOP VIEW

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

DETAIL A

LEFT VIEW

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

RIGHT VIEW

Project Name: **BRICK NORTH WEST** Unit Model #: **ZJ061N09H4KZZ50002**

Quantity: **3** Tag #: **RTU-3,4,5** System: **ZJ061N09H4KZZ50002 (3)**

1RC0471 Roof Curb

* 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