

Project Name: **J&J - Noramco Capacity Expansion**

 Unit Model #: **V42AC0405CCVAL0001**

 Quantity: **1** Tag #: **AHU-152-001E**

 System: **V42AC0405CCVAL0001**

Cooling Performance

Total capacity	307.2 MBH
Sensible capacity	205.6 MBH
Refrigerant type	R-410A
Efficiency (at ARI)	10.50 EER
Integrated eff. (at ARI)	10.90 IEER
Ambient DB temp.	91.9 °F
Entering DB temp.	77.4 °F
Entering WB temp.	65.1 °F
Leaving DB temp.	55.6 °F
Leaving WB temp.	53.4 °F
Power input (w/o blower)	24.59 kW
Sound power	88 dB(A)

Supply Air Blower Performance

Supply air	8750 CFM
Ext. static pressure	2.65 IWG
Unit static resistance	0.61 IWG
Blower speed	1667 RPM
Motor rating	10.00 HP
Actual required BHP	7.24 HP
Power input	6.03 kW
Elevation	0 ft.
Drive type	BELT

Exhaust Air Blower Performance

Supply Air	8700 CFM
Ext. static pressure	1.00 IWG
Blower speed	949 RPM
Motor rating	7.5 HP
Actual required BHP	6.41 HP
Power input	5.34 kW
Drive type	BELT

Outside/Mixed Air

Outside Air Cfm	550 CFM
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Electrical Data

Power supply	460-3-60
Unit min circuit ampacity	80 Amps
Unit max over-current protection	90 Amps

Dimensions & Weight

Hgt	64 in.	Len	261 in.	Wth	92 in.
Weight with factory installed options		5350 lbs.			

Clearances

Right	60 in.	Front	60 in.	Back	60 in.
Top	120 in.	Bottom	0 in.	Left	60 in.

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



25 Ton

- Series 40 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
- Sloped Unit Roof with Drip Lip
- Bottom Return, Bottom Supply
- Access Doors are Hinged on Both Sides for Easy Servicability
- Double Wall Cabinet Construction Provides Superior Cleanability and Structural Integrity
- Angled Condenser Coils Protect from Hail, Shipping, and Handling Damage
- Sloped Stainless Steel Drain Pan
- Each Scroll Compressor has an Independent Refrigeration Circuit
- High and Low Refrigerant Pressure Protection
- Four Stage Cooling
- Copper Tube/Aluminum Fin Condenser Coil
- Copper Tube/Aluminum Fin Evaporator Coil
- Intertwined Evaporator Coils Provide Larger Heat Transfer at Part Load
- Standard Mechanical Cooling from 40°F to 125°F
- Head Pressure Controls Allow Mechanical Cooling from 0°F
- Hot Gas Bypass
- No Factory Installed Electric Heat
- Air Foil Blower
- 10HP High Efficiency Indoor Blower Motor
- 7.5HP High Efficiency Exhaust Motor
- Variable Frequency Drive
- 1" Deflection Springs Under Supply Air Blower and Motor
- 6" Rigid 95% Efficient Filters (Includes 2" Throwaway Pre-Filter) MERV 14
- Single Point Power Connection
- Factory Wired, External Non-Fused Disconnect Switch and Powered Convenience Outlet (110 VAC)
- Economizer, Low Leak Seals with Dual Enthalpy Sensor
- Modulating Power Exhaust with Variable Frequency Drive
- Short Circuit Current: 5kA RMS Symmetrical

Standard Unit Controller: Simplicity Control Board

- Simplicity Elite can Communicate via Modbus RTU Protocol to a Windows PC using FREenet Adapter & Simplicity Software
- The SimplicityLINC Micro Gateway Option Offers BACnet MS/TP Communication

Warranty

- One (1) Year Limited Parts-Only Warranty on the Complete Unit
- One (1) Year Warranty on Compressors and Electric Heater Elements



Series 40 (25-40 Ton)

Single Package R-410A Air Conditioner

Project Name: J&J - Noramco Capacity Expansion

Unit Model #: V42AC0405CCVAL0001

Quantity: 1 Tag #: AHU-152-001E

System: V42AC0405CCVAL0001

Factory Installed Options

V42AC0405CCVAL0001

Unit Type:	V	Johnson Controls Series 40 Single Packaged R-410A Air Conditioner
Product Generation:	4	
Basic Unit:	2	25 Ton Four Stage Cooling
Configuration:	A	Bottom Return, Bottom Supply
Heat:	C0	No Factory Installed Electric Heat
Voltage:	4	460-3-60
Indoor Blower:	O	Air Foil Blower ← Updated January 2015 1" Deflection Springs Under Supply Air Blower VFD Factory Installed
Indoor Motor:	5	10HP High Efficiency Indoor Blower Motor
Refrigeration:	C	10.50 EER / 10.90 IEER Copper Tube/Aluminum Fin Condenser Coil Copper Tube/Aluminum Fin Evaporator Coil Hot Gas Bypass Head Pressure Control
Filters:	C	6" Rigid 95% Efficient Filters (Includes 2" Throwaway Pre-filter) MERV 14
Exhaust:	V	Factory Installed Modulating Power Exhaust with Variable Frequency Drive 7.5HP High Efficiency Exhaust Motor
Economizer:	A	Economizer, Low Leak Seals with Dual Enthalpy Sensor
Controls / Disconnect:	L	Simplicity Elite Control with SimplicityLINC (BACnet MS/TP Protocol) Factory Wired External Non Fused Disconnect Switch and Powered Convenience Outlet (110 VAC)
Custom Options:	0001	All Doors Hinged Stainless Steel Drain Pan

Field Installed Accessories

- 2PM04700124 - Phase Monitor Kit - Includes Control and associated wiring. This accessory provides protection against phase reversal, loss or unbalance. (Used on YC/YD/PC/PD Models). (13.0 lbs)
- S1-03102529006 - Wall Sensor With Set Point Adjustment And Override Button - Allows remote sensing, control from single or multiple zones, set point to be adjusted +/- 5° F, and set point to be overridden for a 2 hour time period. (0.2 lbs)

Date

06/30/2014

Project Name

J&J - Noramco Capacity Expansion

Project Number**Client / Purchaser**

Submittal Summary Page

Qty	Tag #	Model #	Description
1	AHU-152-001E	V42AC04O5CCVAL0001	<p>25 Ton, Johnson Controls Series 40 Single Packaged R-410A Air Conditioner, 10.50 EER / 10.90 IEER, Four Stage Cooling, Bottom Return, Bottom Supply, No Factory Installed Electric Heat, 460-3-60, Air Foil Blower, 1" Deflection Springs Under Supply Air Blower, 10HP High Efficiency Indoor Blower Motor, VFD Factory Installed, Copper Tube/Aluminum Fin Condenser Coil, Copper Tube/Aluminum Fin Evaporator Coil, 6" Rigid 95% Efficient Filters (Includes 2" Throwaway Pre-filter) MERV 14, Factory Installed Modulating Power Exhaust with Variable Frequency Drive, 7.5HP High Efficiency Exhaust Motor, Economizer, Low Leak Seals with Dual Enthalpy Sensor, Simplicity Elite Control with SimplicityLINC (BACnet MS/TP Protocol), All Doors Hinged, Stainless Steel Drain Pan</p> <ul style="list-style-type: none"> • Hot Gas Bypass • Head Pressure Control • Factory Wired External Non Fused Disconnect Switch and Powered Convenience Outlet (110 VAC)
1		2PM04700124	Phase Monitor Kit - Includes Control and associated wiring. This accessory provides protection against phase reversal, loss or unbalance. (Used on YC/YD/PC/PD Models).
1		S1-03102529006	Wall Sensor With Set Point Adjustment And Override Button - Allows remote sensing, control from single or multiple zones, set point to be adjusted +/- 5° F, and set point to be overridden for a 2 hour time period.

Updated
January
2015



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