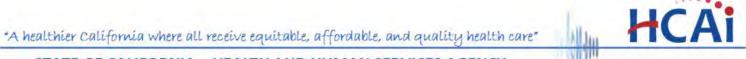


DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

| APPLICATION FOR HCAI SPECIAL SEISMIC | OFFICE USE ONLY |
|---|--|
| CERTIFICATION PREAPPROVAL (OSP) | APPLICATION #: OSP-0213 |
| HCAI Special Seismic Certification Preapproval (OSP) | |
| Type: New X Renewal | |
| Manufacturer Information | |
| Manufacturer: Johnson Controls Inc. (JCI) | |
| Manufacturer's Technical Representative: Cameron Boyce | |
| Mailing Address: 5005 Interstate Drive, Norman, OK 73069 | |
| Telephone: (405) 419-6830 Email: cameron.w.boyo | ce@jci.com |
| Product Information | |
| Product Name: Predator Rooftop Air Conditioning Units | Mp |
| Product Model Number(s): See attached | |
| Product Category: Air Conditioning Units | 2 |
| Product Sub-Category: Air Conditioning Units - Packaged | |
| indoor blower motor, Variable frequency drive indo | e with coil, thermostatic expansion valves, standard |
| Mounting Description: Rigid Curb and Isolated Curb Base Mounted | O. |
| Tested Seismic Enhancements: None | |
| Applicant Information | |
| Applicant Company Name: DCL Labs LLC | |
| Contact Person: Kelly Laplace | |
| Mailing Address: 1315 Greg Street Suit 109, Sparks, NV 89431 | |
| Telephone: (775) 358-5085 Email: kelly.laplace@th | hevmcgroup.com |
| Title: Business Manager | |



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

OSP-0213



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

| California Licensed Structur | al Engineer Respo | nsible for the Engin | eering and Test Repo | rt(s) | | | | |
|---|---|-------------------------|----------------------|--------|--|--|--|--|
| Company Name: THE VMC GRC | UP | | | | | | | |
| Jame: Kenneth Tarlow California License Number: S2851 | | | | | | | | |
| Mailing Address: 980 9th Street, | 16th Floor, Sacramen | to, CA 95814 | | | | | | |
| Telephone: (832) 627-2214 | Telephone: (832) 627-2214 Email: ken.tarlow@thevmcgroup.com | | | | | | | |
| Certification Method | | | | | | | | |
| GR-63-Core X | ICC-ES AC156 | IEEE 344 | IEEE 693 | NEBS 3 | | | | |
| Other (Please Specify): | | | | | | | | |
| Testing Laboratory | | | | | | | | |
| Company Name: DYNAMIC CER | TIFICATION LABORA | ATORY (DCL) | 10 | | | | | |
| Contact Person: Josh Sailer | L. | HCAI | 14 | | | | | |
| Mailing Address: 1315 Greg St., | Ste 1 <mark>09, Sparks NV 8</mark> | 9431 | 2 | | | | | |
| Telephone: (775) 358-5085 | Ema | ail: kelly.laplace@thev | vmcgroup.com | | | | | |
| | O BY:N | lohammad Karim | | | | | | |
| | | | | | | | | |
| | DAT | E: 07/09/2025 | | | | | | |
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| | | | Lu. | | | | | |
| | CALIFORNIA | C | | | | | | |
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OSP-0213



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

Seismic Parameters

| Desig | n Basis of Equipment or Components | (Fp/Wp) = | Rigid Curb = 1. | 5; Spring Isola | ated Curb = 4.5 |
|-------|---|-----------------------|-------------------|-----------------|--------------------------------------|
| | SDS (Design spectral response accele | eration at short peri | od, g) =2.0 | 00 | |
| | ap (Amplification factor) = | 2.5 | | | |
| | Rp (Response modification factor) = | Rigid Curb = 6.0; | Spring Isolated C | Curb = 2.0 | |
| | Ω_0 (System overstrength factor) = | 2.0 | | | |
| | Ip (Importance factor) = | 1.5 | | | |
| | z/h (Height ratio factor) = | 1 | | | |
| | Natural frequencies (Hz) = | See Attachment | | | |
| | Overall dimensions and weight = | See Attachment | ODE | | |
| | | -OKL | UDECO | | |
| HCA | I Approval (For Office Use Only) - | Approval Expire | es on 07/09/20 | 31 | |
| Date: | 7/9/2025 | | | 4 | |
| Name | : Mohammad Karim | | | Title: | Supervisor, Health Facilities Review |
| Speci | al Seismic Certification Valid Up to: Sc | os (g) = 2.0 | 2-0213 | z/h = | 1 |
| Cond | tion of Approval (if applicable): | BY: Mohar | nmad Karim | | |
| | CALIT | DATE: 0 | 7/09/2025 | | |



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OSP-0213

Special Seismic Certification Table 1- Certified Components



DCL Project Number: 69232-2401

Manufacturer: Johnson Controls and other Unitary Product Group brands (York, Coleman, Luxaire, Evcon, Fraser-Johnston and Ready Ship)

Product Line: JCI Packaged Rooftop Units

Product Construction: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options: 230-575 V, economizer, power exhaust, electric or gas heater, variable frequency drive

Mounting: Rigid Curb or Isolated Curb Mounting

Certified Seismic Levels: Sds 2.0 g at z/h=1.0

| Droduct Turns | 1.2 | | Dimensions [in.] | | Weight | Nominal Cooling | Unit | |
|--|--|---------------------|-----------------------|---------------------|----------------------|-------------------|--------------|--|
| Product Type | Model Number ^{1,2} | Depth | Width | Height | [lb.] ³ | Capacity [Tons] | Unit | |
| | ZJ/ZW/JA3 037 | 89 | 59 | 42 | 740 | 3 | Extrapolated | |
| | KJ037 | 89 | 59 | 42 | 785 | 3 | Extrapolated | |
| | ZH/ZU/JA3 037 | 89 | 59 | 42 | 860 | 3 | UUT3a,b | |
| | KT037 | 89 | 59 | 42 | 922 | 3 | Interpolated | |
| | ZT/ZV/JA3 037 | 89 | 59 | 42 | 922 | 3 | Interpolated | |
| | ZR/ZK/JA3 037 | 89 | 59 | 42 | 980 | 3 | UUT1a,b | |
| | ZJ/ZW/JA4 049 | 89 | C 59 D | 42 | 762 | 4 | Extrapolated | |
| | ZH/ZU/JA4 049 | 89 | 59 | 42 | 763 | 4 | Extrapolated | |
| | кј049 | 89 | -59 | 42 | 800 | 4 | Extrapolated | |
| redator Air Handling Units (Short) | ZR/ZK/JA4 049 | 89 | 59 | 42 | 880 | 4 | Interpolated | |
| (31011) | кт049 | 89 | 59 | 42 | 960 | 4 | Interpolated | |
| | ZT/ZV/JA4 049 | 89 | 59 | 42 | 960 | 4 | Interpolated | |
| | ZH/ZU/JA5 061 | 89 | SP5902 | 1 3 42 | 772 | 5 | Interpolated | |
| | кј0 <mark>61</mark> | 89 | 59 | 42 | 830 | 5 | Interpolated | |
| | ZT/ZV/JA5 061 | 89 | 59 | 42 | 9 <mark>68</mark> | 5 | Interpolated | |
| | KT <mark>061</mark> | RV ⁸⁹ Mo | nan ⁵⁹ mac | Ka ⁴² im | 968 | 5 | Interpolated | |
| | ZJ/ZW <mark>/JA</mark> 5 0 <mark>61</mark> | 89 | 59 | 42 | 1,070 | 5 | Interpolated | |
| | ZJ/ZW/JA5 061 | 89 | 59 | 42 | 1,070 | 5 | UUT4a,b | |
| | ZR/ZK/JA5 061 | | 075900/ | 20.42 | 1,070 | 5 | UUT2a,b | |
| | ZH/ZU/J <mark>06 078</mark> | 07 ₈₉ L. | 59 | 42 | 910 | 6.5 | Interpolated | |
| | WP078 | 89 | 59 | 51 | 1,080 | 6.5 | Interpolated | |
| | XP/XA/J06 078 | 89 | -59 | 42 | 970 | 6.5 | UUT7a,b | |
| | КЈ078 | 89 | 59 | 51 | 1,025 | 6.5 | Interpolated | |
| | ZJ/ZW/J06 078 | 89 | 59 | 51 | 1,030 | 6.5 | Interpolated | |
| | ZR/ZK/J06 078 | 89 | 59 | 51 | 1,060 | 6.5 | UUT5a,b | |
| | ZF/ZS/J06 078 | 89 RI | 1T 59 TN | - 42 | 1,090 | 6.5 | UUT10a,b | |
| | ZF/ZS/J07 090 | 89 | JI 59 JI | 42 | 860 | 7.5 | Interpolated | |
| | ZH/ZU/J07 090 | 89 | 59 | 42 | 910 | 7.5 | Interpolated | |
| | XP/XA/J07 090 | 89 | 59 | 42 | 920 | 7.5 | Interpolated | |
| | ZR/ZK/J07 090 | 89 | 59 | 42 | 965 | 7.5 | Interpolated | |
| redator Air Handling Units (Standard) | KJ090 | 89 | 59 | 51 | 1,080 | 7.5 | Interpolated | |
| (Standard) | ZJ/ZW/J07 090 | 89 | 59 | 51 | 1,081 | 7.5 | Interpolated | |
| | WP090 | 89 | 59 | 51 | 1,090 | 7.5 | Interpolated | |
| | ZF/ZS/J08 102 | 89 | 59 | 51 | 1,020 | 8.5 | Interpolated | |
| | ZH/ZU/J08 102 | 89 | 59 | 51 | 1,030 | 8.5 | Interpolated | |
| | ZJ/ZW/J08 102 | 89 | 59 | 51 | 1,060 | 8.5 | Interpolated | |
| | KJ102 | 89 | 59 | 51 | 1,060 | 8.5 | Interpolated | |
| | XP/XA/J08 102 | 89 | 59 | 51 | 1,135 | 8.5 | Interpolated | |
| | WP102 | 89 | 59 | 51 | 1,135 | 8.5 | Interpolated | |
| | ZR/ZK/J08 102 | 89 | 59 | 51 | 1,200 | 8.5 | Interpolated | |
| | ZF/ZS/J10 120 | 89 | 59 | 51 | 1,060 | 10 | Interpolated | |
| | ZJ/ZW/J10 120 | 89 | 59 | 51 | 1,070 | 10 | Interpolated | |

Note:

1. Model numbers are generalized for each type of unit and the associated BTU tonnage that the unit can output.

2. Z and X units have 410A compressors and K and W units have 454B compressors. The new components are identical in construction to the tested components.

3. Weights listed for tested units are actual, not approximate weights. The weights listed for interpolated units are maximum weights. Optional features are summarized in the table on the next page.

Special Seismic Certification Table 1- Certified Components Continued



DCL Project Number: 69232-2401

Manufacturer: Johnson Controls and other Unitary Product Group brands (York, Coleman, Luxaire, Evcon, Fraser-Johnston and Ready Ship)

Product Line: JCI Packaged Rooftop Units

Product Construction: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options: 230-575 V, economizer, power exhaust, electric or gas heater, variable frequency drive

Mounting: Rigid Curb or Isolated Curb Mounting

Certified Seismic Levels: Sds 2.0 g at z/h=1.0

| Due due t Toma | 12 | Dimensions [in.] | | | Weight | Nominal Cooling | |
|---|-----------------------------|---------------------|-----------------------|---------------------|----------------------|-------------------|--------------|
| Product Type | Model Number ^{1,2} | Depth | Width | Height | [lb.] ³ | Capacity [Tons] | Unit |
| | ZH/ZU/J10 120 | 89 | 59 | 51 | 1,090 | 10 | Interpolated |
| | KJ120 | 89 | 59 | 51 | 1,100 | 10 | Interpolated |
| | XP/XA/J10 120 | 89 | 59 | 51 | 1,135 | 10 | Interpolated |
| | WP120 | 89 | 59 | 51 | 1,135 | 10 | Interpolated |
| | ZR/ZK/J10 120 | 89 | 59 | 51 | 1,200 | 10 | Interpolated |
| redator Air Handling Units | ZH/ZU/J12 150 | 119.5 | 59 | 51 | 1,250 | 12.5 | UUT11a,b |
| (Standard) (Continued) | ZF/ZS/J12 150 | 119.5 | C 59 D | 51 | 1,253 | 12.5 | Interpolated |
| (continueu) | KJ150 | 119.5 | 59 | 51 | 1,380 | 12.5 | Interpolated |
| | WP150 | 119.5 | -59 | 51 | 1,403 | 12.5 | Interpolated |
| | XP/XA/J12 150 | 119.5 | 59 | 51 | 1,510 | 12.5 | UUT8a,b |
| | ZJ/ZW/J12 150 | 119.5 | 59 | 51 | 1,570 | 12.5 | UUT9a,b |
| | ZR/ZK/J12 150 | 119.5 | 59 | 51 | 1,600 | 12.5 | UUT6a,b |
| | ZT/ZV 078 | 119.5 | SP5902 | 13 51 | 1,550 | 6.5 | Interpolated |
| | кт078 | 119.5 | 59 | 51 | 1,288 | 6.5 | Interpolated |
| | KB <mark>078</mark> | 89 | 59 | 51 | 1,0 <mark>80</mark> | 6.5 | Interpolated |
| | KB <mark>090</mark> | RV ⁸⁹ Mo | nan ⁵⁹ mac | Ka ⁵¹ im | 1,0 <mark>80</mark> | 7.5 | Interpolated |
| | кт <mark>090</mark> | 119.5 | 59 | 51 | 1,2 <mark>93</mark> | 7.5 | Interpolated |
| | ZT/Z <mark>V 090</mark> | 119.5 | 59 | 51 | 1,5 <mark>50</mark> | 7.5 | Interpolated |
| | KB102 | | 0 ⁻⁵⁹ 00/ | 20.515 | 1,135 | 8.5 | Interpolated |
| redator Air Handling Units (Ultra High Efficiency) | KT102 | 119.5 | 59 | 51 | 1,304 | 8.5 | Interpolated |
| | ZT/ZV 102 | 119.5 | 59 | 51 | 1,575 | 8.5 | Interpolated |
| | KB120 | 89 | -59 | 51 | 1,135 | 10 | Interpolated |
| | ZT/ZV 120 | 119.5 | 59 | 51 | 1,470 | 10 | UUT12a,b |
| | KT120 | 119.5 | 59 | 51 | 1,481 | 10 | Interpolated |
| | КВ150 | 119.5 | 59 | 51 | 1,395 | 12.5 | Interpolated |
| | KT150 | 119.5 | 1T 59 TN | 51 | 1,498 | 12.5 | Interpolated |
| | ZT/ZV 150 | 119.5 | 59 | 51 | 1,680 | 12.5 | UUT13a,b |

Note:

1. Model numbers are generalized for each type of unit and the associated BTU tonnage that the unit can output.

2. Z and X units have 410A compressors and K and W units have 454B compressors. The new components are identical in construction to the tested components

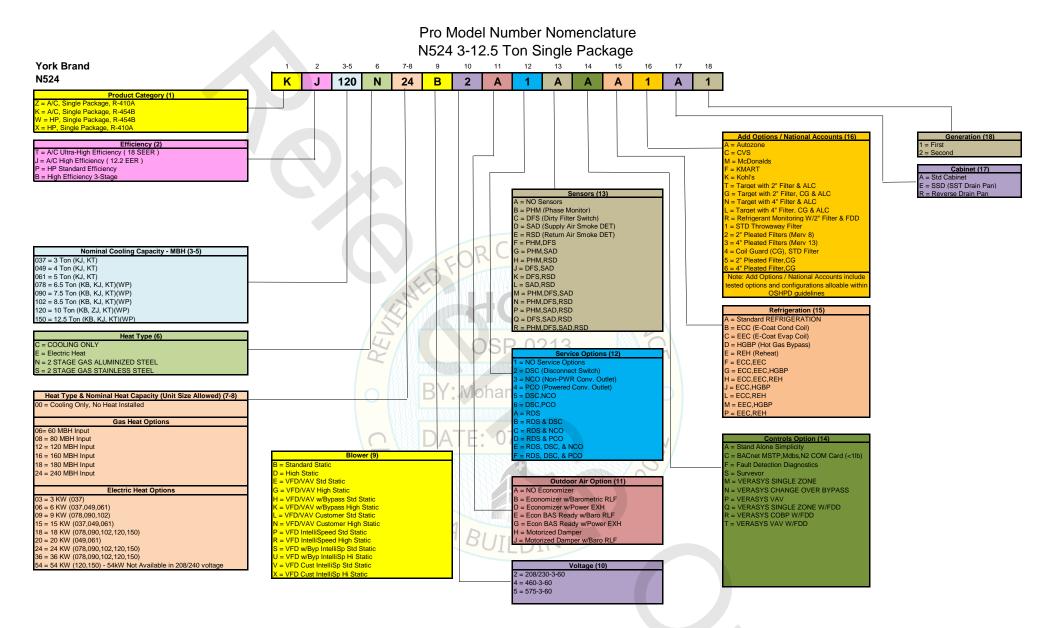
3. Weights listed for tested units are actual, not approximate weights. The weights listed for interpolated units are maximum weights. Optional features are summarized in the table below.

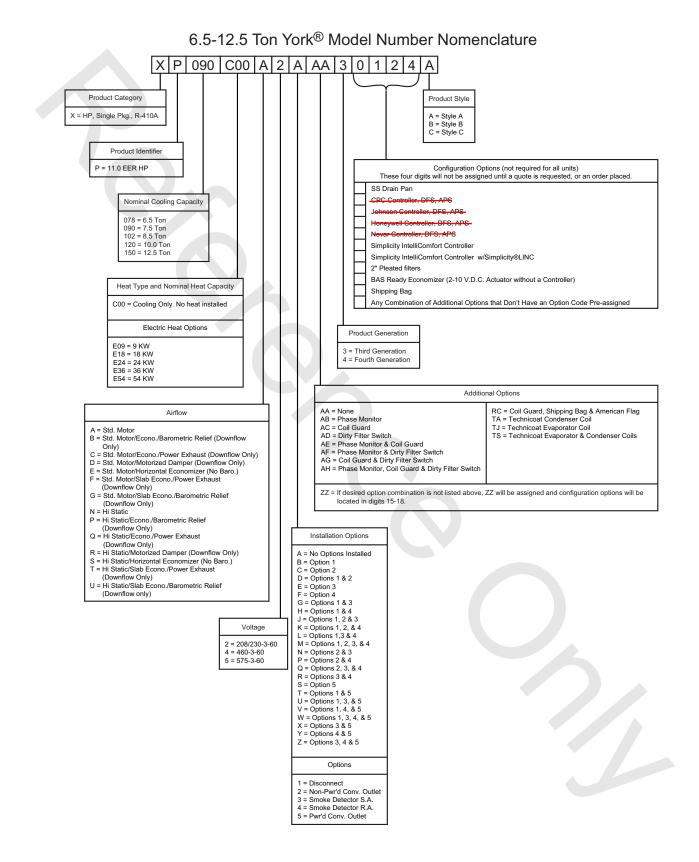
| Unit Accessory | Operating Weight [lb.] |
|--------------------------|--------------------------|
| Economizer | 85 |
| Power Exhaust | 35 |
| Electric Heat | 49 |
| Gas Heat | 110 |
| Variable Frequency Drive | 30 |

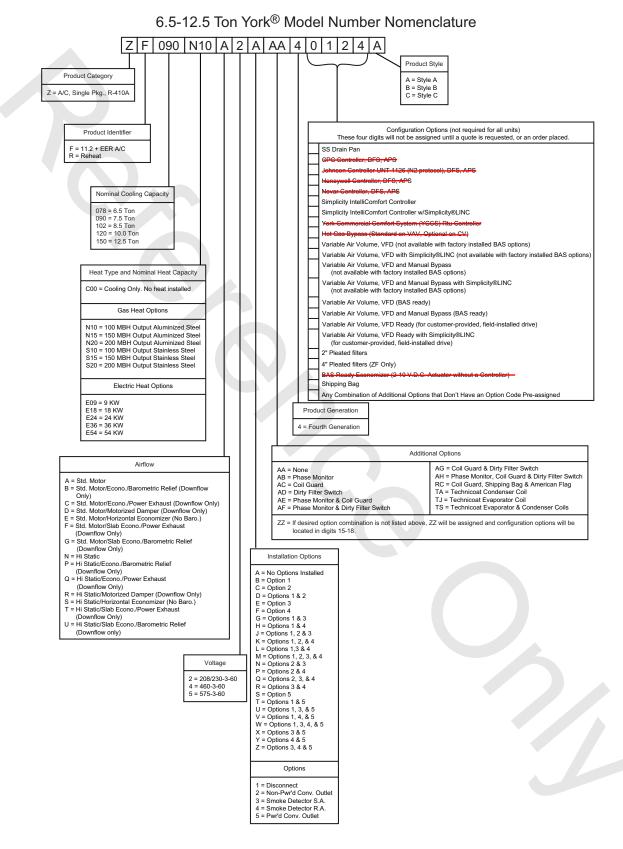
1. Weight given is for the maximum electric heater size available.

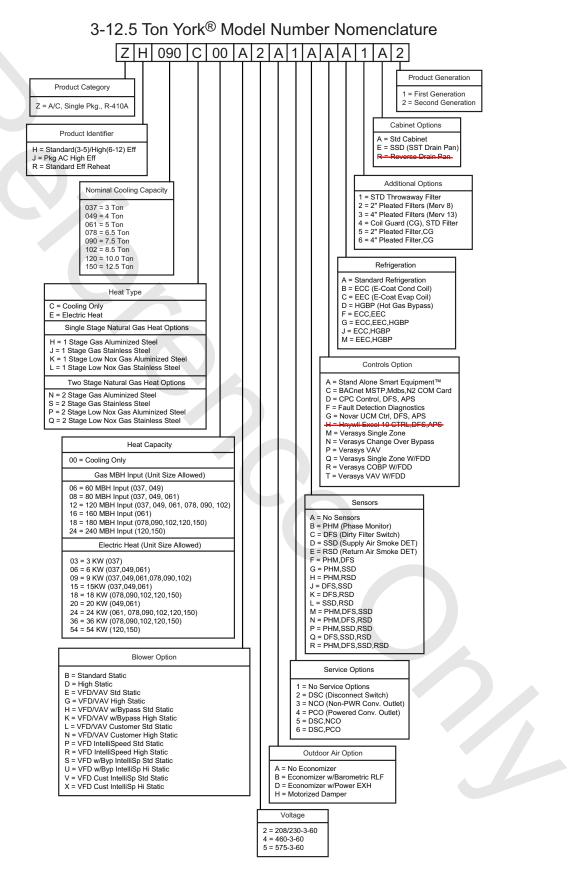
2. Weight given for the gas heater is for the maximum number of tube heat exchangers available (8 tube).

3. Weight includes mounting hardware, controls and manual bypass option.

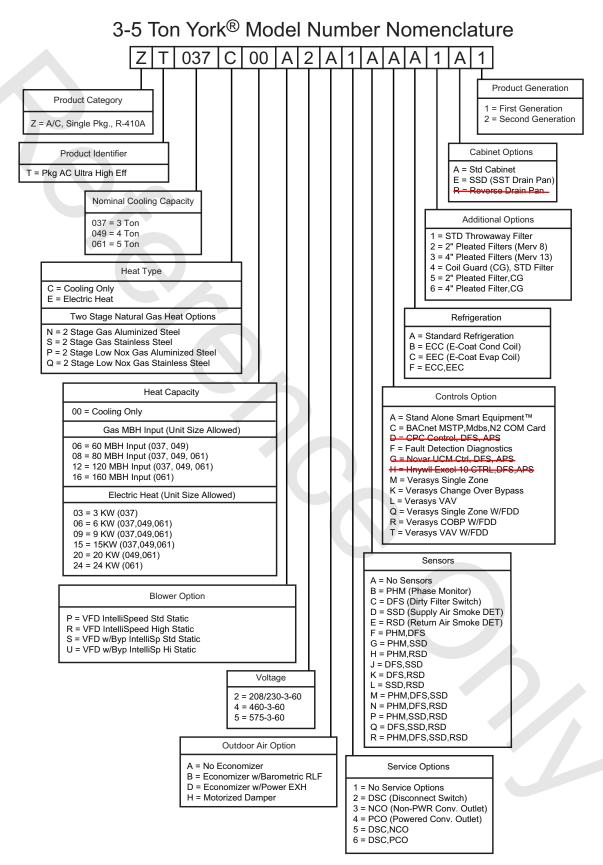


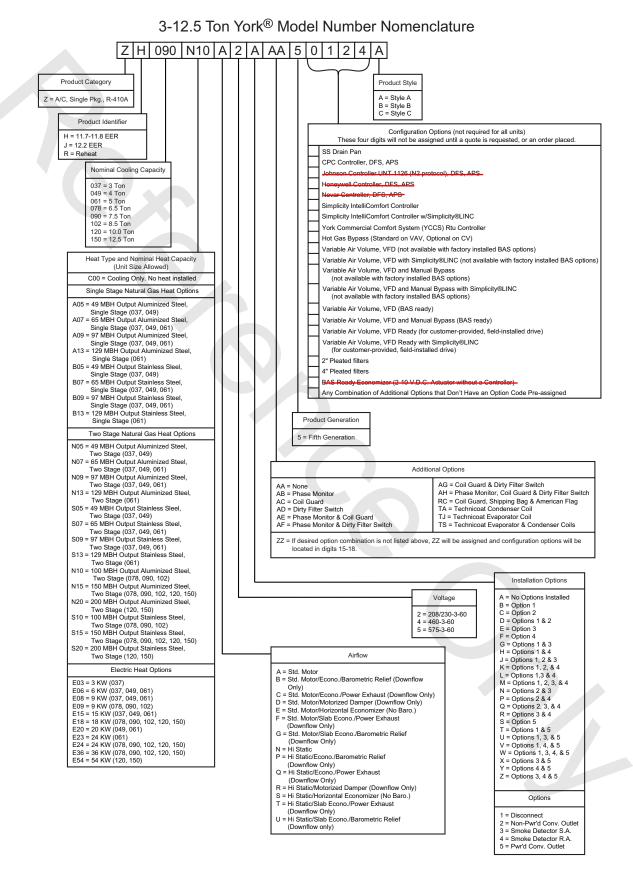




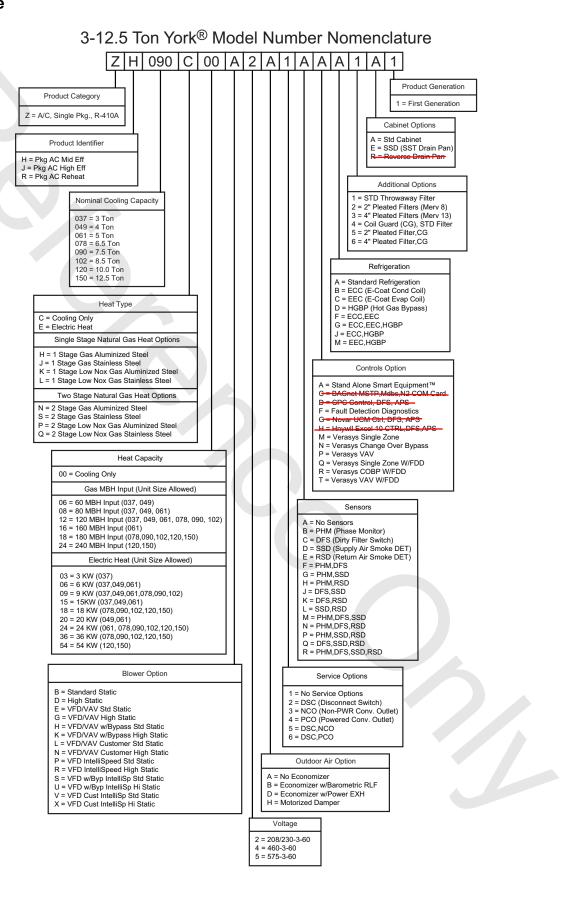


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Special Seismic Certification Table 2 - Certified Subcomponents

DCL Project Number: 69232-2401

Product Line: JCI Packaged Rooftop Units

| Model Number | Manufacturer | Material | Nominal Capacity [BTU/hr] | Unit |
|--------------|--------------|-------------------------------------|-----------------------------|-------------------|
| H82J263 | | | 26000 | UUT1a,b |
| H82J283 | | | 28000 | UUT3a,b |
| H82J293 | | | 29000 | Interpolated |
| H82J303 | | | 30000 | UUT10a,b |
| H82J353 | | | 35000 | Interpolated |
| H83C363 | Bristol | Carbon Steel | 36000 | UUT7a,b |
| H82J373 | Bristor | Carbon Steel | 37000 | Interpolated |
| H82J403 | | | 40000 | Interpolated |
| H83R443 | | | 44000 | Interpolated |
| H82J483 | | | 48000 | UUT2a,b; UUT4a,b |
| H83R513 | | | 51000 | Interpolated |
| H83R683 | | - CODE | 68000 | UUT8a,b |
| HLH068 | Danfoss | Carbon Steel | 68000 | UUT6a,b; UUT11a,b |
| ZP29K6E | O F | | 29000 | Extrapolated |
| YA29K1E | | | 29000 | Extrapolated |
| YAS30K1E | . Pr | | 30000 | Extrapolated |
| ZPS30K5E | 4 | | 30000 | Extrapolated |
| ZP34K6E | HANED Y | IA MUTAAN Deed waa Saadaa ahaa ahaa | 34000 | Extrapolated |
| YA36K1E | 41 | OSP-0213 | 36000 | Extrapolated |
| ZP36K5E | | 001-0210 | 36000 | UUT5a,b |
| YA38K1E | | | 38000 | Interpolated |
| ZP38K6E | BV. | Mohammad Kar | 38000 | Interpolated |
| ZP39K5E | | Nonannau Ital | 39000 | Interpolated |
| YA40K1E | | | 40000 | Interpolated |
| YAS40K1E | | ΓE· 07/09/202 | 40000 | Interpolated |
| ZP40K6E | Copeland | $[\ 011091202]$ | 40000 | Interpolated |
| ZPS40K5E | | | 40000 | UUT12a,b |
| ZP42K5E | | | 42000 | Interpolated |
| YA42K1E | | | 42000 | Interpolated |
| ZP44K5E | | | 44000 | Interpolated |
| YA44K1E | Copeland | Carbon Steel | 44200 | Interpolated |
| YA49K1E | | BLITINTING | 49000 | Interpolated |
| YAS49K1E | | DOILDING | 49000 | Interpolated |
| ZP49K6E | | | 49000 | Interpolated |
| ZPS49K5E | | | 49000 | UUT12a,b |
| YA51K1E | | | 51000 | Interpolated |
| YAS51K1E | | | 51000 | Interpolated |
| ZP51K5E | | | 51000 | UUT9a,b |
| ZPS51K5E | | | 51000 | Interpolated |
| ZP54K6E | | | 54000 | Interpolated |
| YAS60K1E | | | 60000 | Interpolated |
| ZPS60K5E | | | 60000 | UUT13a,b |
| ZP61K5E | | | 61000 | Interpolated |
| YA67K1E | | | 67000 | Interpolated |
| ZP67KCE | | | 67000 | Interpolated |
| YA72KCE | | | 72000 | Interpolated |
| ZP72KCE | | | 72000 | UUT13a,b |

1. Refrigerant Compressors are bookended by nominal capacity.

2. The ZP compressors operate with refrigerant R-410A and YA compressors operate with refrigerant R-454B but are identical in construction.

DYNAMIC CERTIFICATION LABORATORIES,LLC

Special Seismic Certification Table 3 - Certified Subcomponents



DCL Project Number: 69232-2401

Product Line: JCI Packaged Rooftop Units

| Model Number F48T F48N | Manufacturer AO Smith | Voltage [V] 230/460/575 | Material | Weight [lb.] | Unit |
|------------------------------|--------------------------|----------------------------|---------------------------|----------------|---|
| - | AO Smith | | | | |
| F48N | AO Siniti | 220/400/570 | Carbon Steel | 16 | UUT1a,b; UUT2a,b; UUT3a,b; UUT4a,b |
| | | 230/460/576 | Carbon Steel | 16 | UUT5a,b; UUT6a,b; UUT7a,b; UUT10a,b; UUT11a,b |
| 5411939 | | 230 | | 13 | Extrapolated |
| 5271257 | | 230 | | 14 | Extrapolated |
| 5271258 | | 460 | | 14 | Extrapolated |
| 5400378 | | 230 | | 15 | Extrapolated |
| 1041518 | Genteq | 230 | Carbon Steel | | Extrapolated |
| 5400376 | | 230 | | 16 | UUT12a,B |
| 5400377 | | 460 | | 17 | Interpolated |
| 5411940 | | 460 | CODE | 17 | Interpolated |
| 5400379 | | 460 | DRCUDEC | 17 | UUT13a,b |
| | | | Indoor Coils | | |
| Model Number | Manufacturer | Description | Dimensions [total ft^2] | Material | Unit |
| 84978 | | Evaporating Coils | 7.8 | | UUT5a,b |
| 84974 | Ī | Evaporating Coils | 10.0 | Copper | UUT13a,b |
| 5522860 | | Evaporating Coils | 10.0 | | UUT13a,b |
| 83725 | | Evaporating Coils | $OSP^{8.0}0213$ | | UUT3a,b |
| 74105 | ICI | Evaporating Coils | 10.6 | | UUT2a,b |

| 83730 | JCI | Evaporating Coils | 10.6 | | UUT1a | ,b; UUT4a,b; UUT5a,b; UUT7a,b; UUT10a,l |) |
|--------|-----|-------------------|------------------------------|------------|-------|---|---|
| 83694 | | Evaporating Coils | Vohan ^{13,2} nad Ka | Aluminum & | | Interpolated | |
| 83748 | | Evaporating Coils | 13.2 | соррен | U | UT6a,b; UUT8a,b; UUT9a,b; UUT11a,b | |
| 286479 | | Reheat Coil | 6.6 | | | UUT5a,b | |
| 635816 | | Reheat Coil | E. 0700/20 | 25 | | UUT6a,b | |
| | | FRORNIA | BUILDING | CODE | | | |

Special Seismic Certification Table 4 - Certified Subcomponents

DCL Project Number: 69232-2401

(()) DCL DYNAMIC CERTIFICATION LABORATORIES,LLC

| roduct Line: JCI Packag | ged Rooftop Units | | | | |
|-------------------------|-------------------|----------------|------------------------------|--|--------------|
| | | | Outdoor Coils ¹ | | |
| Model Number | Manufacturer | Description | Dimensions [total ft^2] | Material | Unit |
| JCI#449602 | | Condenser Coil | 11.9 | | UUT3a,b |
| JCI#666492 | | Condenser Coil | 11.9 | | UUT1a,b |
| JCI#670762 | | Condenser Coil | 11.9 | Ī | UUT2a,b |
| JCI#449598 | | Condenser Coil | 18.5 | Ī | UUT10a,b |
| JCI#513695 | | Condenser Coil | 18.5 | 1 | Interpolated |
| JCI#449600 | | Condenser Coil | 23.8 | 1 | UUT4a,b |
| JCI#519832 | | Condenser Coil | 23.8 | 1 | Interpolated |
| JCI#520526 | | Condenser Coil | 23.8 | 1 | Interpolated |
| JCI#551643 | Dalahi | Condenser Coil | 23.8 | A | Interpolated |
| JCI#579297 | Delphi | Condenser Coil | 23.8 | Aluminum | UUT5a,b |
| JCI#579313 | | Condenser Coil | 23.8 | 1 | Interpolated |
| JCI#519833 | | Condenser Coil | 29.0 | | Interpolated |
| JCI#519834 | | Condenser Coil | DR C29.0 DE C | | UUT11a,b |
| JCI#513697 | | Condenser Coil | 29.0 | U/ | Interpolated |
| JCI#519833 | | Condenser Coil | . 29.0 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | Interpolated |
| JCI#579319 | | Condenser Coil | 29.0 | | Interpolated |
| JCI#520697 | | Condenser Coil | 47.5 | | UUT9a,b |
| JCI#85075 | | Condenser Coil | 47.5 | | UUT6a,b |
| 256903 | | Fin/Tube | $OSP_{3.8}$ 213 | | UUT7a,b |
| 260544 | | Fin/Tube | 23.8 | | Interpolated |
| 176560 | JCI | Fin/Tube | 29.0 | Aluminum & Copper | Interpolated |
| 177201 | | Fin/Tube | Vohar ^{29,0} had Ka | arim | Interpolated |
| 253771 | | Fin/Tube | 47.5 | | UUT8a,b |
| 5410631 | | Condenser Coil | 9.4 | | Extrapolated |
| 5399396 | | Condenser Coil | E. 072/10/20 | 25 | UUT12 |
| 5444909 | | Condenser Coil | L. 07/08/20 | 23 | Interpolated |
| 5399395 | | Condenser Coil | 12.1 | ABBBBB | UUT13 |
| 5444910 | Canhua | Condenser Coil | 14.8 | Aluminum | UUT13 |
| 5399399 | Sanhua | Condenser Coil | 14.8 | Aluminum | UUT13 |
| 5399400 |] | Condenser Coil | 14.8 | | UUT13 |
| 5399400 |] | Condenser Coil | 14.8 | CO^{*} | Interpolated |
| 5410632 |] | Condenser Coil | RI ITI ^{11,8} TNIC | | Interpolated |
| 5399402 |] | Condenser Coil | 14.4 | | UUT12 |

Notes:

1. Outdoor Coils are bookended by dimensions.

Special Seismic Certification Table 5 - Certified Subcomponents



DCL Project Number: 69232-2401

| | | Reversing Valve wi | th Coil | | | |
|---|--------------|--|--|-------------------|---|--|
| Model Number | Manufacturer | Description | Material | | Unit | |
| STF04U23G | Danfoss | Reversing Valve with Coil | Brass, Copper | | UUT7a,b | |
| STF07U21G | Bannoos | Reversing Valve with Coil | | | UUT8a,b | |
| | | Thermostatic Expansio | on Valves ¹ | | | |
| Model Number | Manufacturer | Description | Material | Weight [lb.] | Unit | |
| BBIZE-3 | | 460V Motor | Brass, Copper | <1 | UUT5a,b; UUT7a,b; UUT | |
| BBIZE-4 | | 575V Motor | Brass, Copper | <1 | Interpolated | |
| BBIZE-5 | Sporlan | 460V Motor | Brass, Copper | <1 | Interpolated | |
| BBIZE-6 | | 575V Motor | Brass, Copper | <1 | UUT5a,b; UUT8a,b; UUT UUT11a,b | |
| | | Indoor Blower Motor, | Standard | | | |
| P63PYC | Emerson | 1.5 to 2.0 HP | Carbon Steel | UUT1a,b - | UUT5a,b; UUT7a,b; UUT10a | |
| U56T | Marathon | 1.5 to 3.0 HP/575V | Carbon Steel | | UUT5a,b - UUT11a,b | |
| Q56T | IN ALLON | 3.0 HP/230-460V | Carbon Steel | UUT6a,b; | UUT8a,b; UUT9a,b; UUT11a, | |
| 8-158756PP | AO Smith | 2.0 HP/230-460V | Carbon Steel | UUT | 5a,b; UUT7a,b; UUT10a,b | |
| 36J448 | Baldor | 5.0 HP/230-460V | Carbon Steel | UUT6a,b; | UUT8a,b; UUT9a,b; UUT11a, | |
| 36B106 | Baldor | 5.0 HP/575V | Carbon Steer | UUT6a,b; | UUT8a,b; UUT9a,b; UUT11a, | |
| | | Indoor Blower Motor, Variable | e Frequency Drive | | | |
| 35Y377S | | 1.5 HP 230/460V | | | UUT10a,b | |
| 35Y041P | 4 | 2.0 HP 230/460V | 13 | | UUT10a,b | |
| 35Y041M | | 1.5 HP 575V | Í Í | | UUT10a,b | |
| 35Y377S | | 2.0 HP 575V | | | UUT10a,b | |
| 35Y041T | Baldor | 23.0 HP 230/460V | Carbon Steel | | UUT9a,b; UUT11a,b | |
| 35Y041S | | 3.0 HP 575V | | UUT9a,b; UUT11a,b | | |
| 36M381 | | 5.0 HP/230-460V | | | UUT9a,b; UUT11a,b | |
| 36M382 | | | 2025 | | UUT9a,b; UUT11a,b | |
| | | Exhaust Fan Mo | | | | |
| Model Number | Manufacturer | Description | Material | Weight [lb.] | Unit | |
| F48X26 | | 230V Motor | Carbon Steel | 13 | UUT4a,b | |
| F48X06 | A.O. Smith | 460V Motor | Carbon Steel | 13 | Interpolated | |
| F48W97 | _ | | | | | |
| | | 575V Motor | Carbon Steel | 16 | UUT10a.b | |
| | | 575V Motor Variable Frequency | Carbon Steel | 16 | UUT10a,b | |
| Model Number | Manufacturer | Variable Frequency | y Drive | 16 | | |
| Model Number MVX002A0-2 | Manufacturer | Variable Frequency Description | | 16 | Unit | |
| MVX002A0-2 | Manufacturer | Variable Frequency Description 1.5 to 2.0 HP, 230V | y Drive | 16 | Unit UUT10a,b | |
| MVX002A0-2 MVX002A0-4 | Manufacturer | Variable Frequency Description 1.5 to 2.0 HP, 230V 1.5 to 2.0 HP, 460V | y Drive | 16 | Unit UUT10a,b UUT10a,b | |
| MVX002A0-2 MVX002A0-4 MVX002A0-5 | Manufacturer | Variable Frequency Description 1.5 to 2.0 HP, 230V 1.5 to 2.0 HP, 460V 1.5 to 2.0 HP, 575V | y Drive | | Unit UUT10a,b UUT10a,b UUT10a,b | |
| MVX002A0-2 MVX002A0-4 MVX002A0-5 MVX003A0-4 | | Variable Frequency Description 1.5 to 2.0 HP, 230V 1.5 to 2.0 HP, 460V 1.5 to 2.0 HP, 575V 3.0 HP, 460V | y Drive Material | | Unit UUT10a,b UUT10a,b UUT10a,b UUT9a,b; UUT11a,b | |
| MVX002A0-2 MVX002A0-4 MVX002A0-5 MVX003A0-4 MVX003A0-5 | Eaton | Variable Frequency Description 1.5 to 2.0 HP, 230V 1.5 to 2.0 HP, 460V 1.5 to 2.0 HP, 575V 3.0 HP, 460V 3.0 HP, 575V | y Drive | | Unit UUT10a,b UUT10a,b UUT10a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b | |
| MVX002A0-2 MVX002A0-4 MVX002A0-5 MVX003A0-4 MVX003A0-5 MVX003A0-2 | | Variable Frequency Description 1.5 to 2.0 HP, 230V 1 1.5 to 2.0 HP, 230V 1 | y Drive Material | | Unit UUT10a,b UUT10a,b UUT10a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b | |
| MVX002A0-2 MVX002A0-4 MVX002A0-5 MVX003A0-4 MVX003A0-5 MVX003A0-2 MVX005A0-2 | | Variable Frequency Description 1.5 to 2.0 HP, 230V 1 1.5 to 2.0 HP, 460V 1.5 to 2.0 HP, 575V 3.0 HP, 460V 3.0 HP, 450V 3.0 HP, 230V 3.0 HP, 230V 5.0 HP, 230V 5.0 HP, 230V | y Drive Material | | Unit UUT10a,b UUT10a,b UUT10a,b UUT9a,b; UUT9a,b; UUT9a,b; UUT9a,b; UUT9a,b; UUT9a,b; UUT9a,b; UUT9a,b; | |
| MVX002A0-2 MVX002A0-4 MVX002A0-5 MVX003A0-4 MVX003A0-5 MVX003A0-2 MVX005A0-2 MVX005A0-4 | | Variable Frequency Description 1.5 to 2.0 HP, 230V 1 1.5 to 2.0 HP, 460V 1.5 to 2.0 HP, 575V 3.0 HP, 460V 3.0 HP, 575V 3.0 HP, 230V 5.0 HP, 230V 5.0 HP, 230V 5.0 HP, 460V | y Drive Material | | Unit UUT10a,b UUT10a,b UUT10a,b UUT9a,b; UUT11a,b | |
| MVX002A0-2 MVX002A0-4 MVX002A0-5 MVX003A0-4 MVX003A0-2 MVX005A0-2 MVX005A0-4 MVX005A0-5 | | Variable Frequency Description 1.5 to 2.0 HP, 230V 1 1.5 to 2.0 HP, 230V 1 1.5 to 2.0 HP, 575V 3.0 HP, 460V 3.0 HP, 575V 3.0 HP, 230V 5.0 HP, 230V 5.0 HP, 460V 5.0 HP, 230V 5.0 HP, 575V | y Drive Material | | Unit UUT10a,b UUT10a,b UUT10a,b UUT9a,b; UUT11a,b | |
| MVX002A0-2 MVX002A0-4 MVX002A0-5 MVX003A0-4 MVX003A0-5 MVX003A0-2 MVX005A0-2 MVX005A0-4 MVX005A0-5 FR-D720-070-NA | | Variable Frequency Description 1.5 to 2.0 HP, 230V 1.5 to 2.0 HP, 460V 1.5 to 2.0 HP, 575V 3.0 HP, 460V 3.0 HP, 575V 3.0 HP, 230V 5.0 HP, 230V 5.0 HP, 230V 5.0 HP, 575V 3.0 HP, 230V 5.0 HP, 230V | y Drive Material | | Unit UUT10a,b UUT10a,b UUT10a,b UUT9a,b; UUT11a,b Extrapolated | |
| MVX002A0-2 MVX002A0-4 MVX002A0-5 MVX003A0-4 MVX003A0-5 MVX003A0-2 MVX005A0-2 MVX005A0-4 MVX005A0-5 FR-D720-070-NA FR-D740-036-NA | | Variable Frequency Description 1.5 to 2.0 HP, 230V 1.5 to 2.0 HP, 460V 1.5 to 2.0 HP, 575V 3.0 HP, 460V 3.0 HP, 575V 3.0 HP, 230V 5.0 HP, 230V 5.0 HP, 230V 5.0 HP, 575V 2 HP, 230V 2 HP, 230V 2 HP, 480V | y Drive Material | | Unit UUT10a,b UUT10a,b UUT10a,b UUT9a,b; UUT11a,b Extrapolated Extrapolated | |
| MVX002A0-2 MVX002A0-4 MVX002A0-5 MVX003A0-4 MVX003A0-5 MVX003A0-2 MVX005A0-2 MVX005A0-4 MVX005A0-5 FR-D720-070-NA FR-D740-036-NA FR-E560-1.5K-NA | | Variable Frequency Description 1.5 to 2.0 HP, 230V 1.5 to 2.0 HP, 460V 1.5 to 2.0 HP, 575V 3.0 HP, 460V 3.0 HP, 575V 3.0 HP, 230V 5.0 HP, 230V 5.0 HP, 230V 5.0 HP, 460V 5.0 HP, 575V 2 HP, 230V 2 HP, 230V 2 HP, 575V | y Drive Material | | Unit UUT10a,b UUT10a,b UUT10a,b UUT9a,b; UUT11a,b Extrapolated Extrapolated Extrapolated | |
| MVX002A0-2 MVX002A0-4 MVX003A0-5 MVX003A0-5 MVX003A0-2 MVX005A0-2 MVX005A0-2 FR-D720-070-NA FR-D740-036-NA FR-E560-1.5K-NA FR-D720-100-NA | Eaton | Variable Frequency Description 1.5 to 2.0 HP, 230V 1.5 to 2.0 HP, 460V 1.5 to 2.0 HP, 575V 3.0 HP, 460V 3.0 HP, 460V 3.0 HP, 230V 5.0 HP, 230V 5.0 HP, 230V 5.0 HP, 230V 5.0 HP, 460V 2.0 HP, 575V 2 HP, 230V 2 HP, 230V 2 HP, 575V 3 HP, 230V 2 HP, 230V | y Drive Material Plastic, Aluminum | | Unit UUT10a,b UUT10a,b UUT10a,b UUT9a,b; UUT11a,b Extrapolated Extrapolated Extrapolated UUT12a,b | |
| MVX002A0-2 MVX002A0-4 MVX003A0-5 MVX003A0-5 MVX003A0-2 MVX005A0-2 MVX005A0-2 FR-D720-070-NA FR-D720-070-NA FR-E560-1.5K-NA FR-D720-100-NA FR-D740-050-NA | | Variable Frequency Description 1.5 to 2.0 HP, 230V 1.5 to 2.0 HP, 460V 1.5 to 2.0 HP, 575V 3.0 HP, 460V 3.0 HP, 575V 3.0 HP, 230V 5.0 HP, 230V 5.0 HP, 230V 5.0 HP, 575V 2.0 HP, 575V 2.0 HP, 575V 2.1 HP, 230V 2.1 HP, 230V 2.1 HP, 575V 3.1 HP, 230V 2.1 HP, 575V 3.1 HP, 480V 3.1 HP, 480V | y Drive Material | | Unit UUT10a,b UUT10a,b UUT10a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b Extrapolated Extrapolated Extrapolated UUT12a,b Interpolated | |
| MVX002A0-2 MVX002A0-4 MVX003A0-5 MVX003A0-5 MVX003A0-2 MVX005A0-2 MVX005A0-2 MVX005A0-4 MVX005A0-4 FR-D720-070-NA FR-D720-070-NA FR-D740-036-NA FR-D720-100-NA FR-D740-050-NA FR-E560-2.2K-NA | Eaton | Variable Frequency Description 1.5 to 2.0 HP, 230V 1.5 to 2.0 HP, 460V 1.5 to 2.0 HP, 575V 3.0 HP, 460V 3.0 HP, 460V 3.0 HP, 230V 5.0 HP, 230V 5.0 HP, 230V 5.0 HP, 230V 5.0 HP, 575V 2.0 HP, 575V 2 HP, 575V 2 HP, 575V 3 HP, 230V 3 HP, 575V 3 HP, 575V 3 HP, 575V | y Drive Material Plastic, Aluminum | | Unit UUT10a,b UUT10a,b UUT10a,b UUT9a,b; UUT11a,b UUT9a,b; UUT12a,b Extrapolated UUT12a,b Interpolated Interpolated | |
| MVX002A0-2 MVX002A0-4 MVX003A0-5 MVX003A0-5 MVX003A0-2 MVX005A0-2 MVX005A0-2 FR-D720-070-NA FR-D720-070-NA FR-E560-1.5K-NA FR-D720-100-NA FR-D740-050-NA | Eaton | Variable Frequency Description 1.5 to 2.0 HP, 230V 1.5 to 2.0 HP, 460V 1.5 to 2.0 HP, 575V 3.0 HP, 460V 3.0 HP, 575V 3.0 HP, 230V 5.0 HP, 230V 5.0 HP, 230V 5.0 HP, 575V 2.0 HP, 575V 2.0 HP, 575V 2.1 HP, 230V 2.1 HP, 230V 2.1 HP, 575V 3.1 HP, 230V 2.1 HP, 575V 3.1 HP, 480V 3.1 HP, 480V | y Drive Material Plastic, Aluminum | | Unit UUT10a,b UUT10a,b UUT10a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b UUT9a,b; UUT11a,b Extrapolated Extrapolated Extrapolated UUT12a,b Interpolated | |

Note:

1. Two valves were tested on each UUT.

2. Mitsubishi VFDs are bookended by horsepower.

Special Seismic Certification Table 6 - Certified Subcomponents



DCL Project Number: 69232-2401

Product Line: JCI Packaged Rooftop Units

| | | | Economizer | | |
|----------------------------|--------------|---------------|--|--------------|---|
| Model Number | Manufacturer | | Description | Material | Unit |
| 2EE04706024 | | | Horizontal Economizer | | UUT1a,b - UUT11a,b |
| 2EE04705824 | | | Slab Economizer | | UUT1a,b - UUT5a,b; |
| 2EE04705724 | JCI | | Slab Economizer | Carbon Steel | UUT7a,b; UUT10a,b UUT6a,b; UUT8a,b - UUT11a, |
| 2MD04703724 | | | 2-Position Economizer | | UUT1a,b - UUT11a,b |
| 2EE04706924 | - | | Econ, Fact, Down, SSE w/Belimo actuator, Tall | | UUT12a,b |
| 2EE04706924 | RRS | | con, Fact, Down, SSE w/ JCl actuator, w/PE, Tall | Carbon Steel | UUT13a,b |
| 2EE04700924 | | | | | 001138;5 |
| Madal Number | Manufacturan | Deting [WW] | Electric Heater ¹ | Matarial | Unit |
| Model Number | Manufacturer | Rating [kW] | Description | Material | UUT7a,b |
| 2TP04540925 | - | 9 | 230V, Standard Predator, 42" cabinet, AC and HP | Carbon Steel | |
| 2TP04540946 | - | 9 | 460V, Standard Predator, 42" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04540958 | - | 9 | 575V, Standard Predator, 42" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04520925 | - | 9 | 230V, Standard Predator, 50" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04520946 | | 9 | 460V, Standard Predator, 50" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04520958 | | 9 | 575V, Standard Predator, 50" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04541825 | | 18 | 230V, Standard Predator, 42" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04541846 | | 18 | 460V, Standard Predator, 42" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04541858 | | 18 | 575V, Standard Predator, 42" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04531825 | | 18 | 230V, Standard Predator, 50" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04531846 | | 18 | 460V, Standard Predator, 50" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04521858 | | 18 | 575V, Standard Predator, 50" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04542425 | | 24 | 230V, Standard Predator, 42" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04542446 | - | 24 | 460V, Standard Predator, 42" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04542458 | - | 24 | 575V, Standard Predator, 42" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04532425 | Tutco | 24 | 230V, Standard Predator, 50" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04532446 | | _24 | 460V, Standard Predator, 50" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04522458 | | 24 | 575V, Standard Predator, 50" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04543625 | | 36 | 230V, Standard Predator, 42" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04543646 | | 36 | 460V, Standard Predator, 42" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04543658 | | 36 | 575V, Standard Predator, 42" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04533625 | | 36 | 230V, Standard Predator, 50" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04533646 | 1 | 36 | 460V, Standard Predator, 50" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2TP04523658 | 1 | 36 | 575V, Standard Predator, 50" cabinet, AC and HP | Carbon Steel | Interpolated |
| 2HP04535425 | 1 | 54 | 230V, Standard Predator, 50" cabinet, heat pump | Carbon Steel | Interpolated |
| 2HP04535446 | 1 | 54 | 460V, Standard Predator, 50" cabinet, heat pump | Carbon Steel | Interpolated |
| 2TP04535446 | 4 | 54 | 230V, Standard Predator, 50" cabinet, near pump | Carbon Steel | Interpolated |
| 2TP04525425 2TP04525446 | 4 | 54 | | | Interpolated |
| | 4 | 54 | 460V, Standard Predator, 50" cabinet, AC only | Carbon Steel | Interpolated |
| 2TP04525458 | 4 | - | 575V, Standard Predator, 50" cabinet, AC only | Carbon Steel | , |
| 2HP04535458 | | 54 | 575V, Standard Predator, 50" cabinet, heat pump | Carbon Steel | UUT8a,b |

Notes:

1. Electric Heaters are bookended by rating [kW].

Special Seismic Certification Table 7 - Certified Subcomponents



DCL Project Number: 69232-2401

Product Line: JCI Packaged Rooftop Units

| | | | Heat Cells (Heat Type and Nominal Heat | Capacity) | |
|--------------|--------------|--------------|--|-------------------------------|---------------------------|
| Model Number | Manufacturer | Output [MBH] | Description ¹ | Material | Unit |
| | | | Single Stage Natural Gas Heat Opti | ions | |
| A05 | | 49 | Aluminized Steel, Single Stage | | UUT1a,b |
| A07 | 1 | 65 | Aluminized Steel, Single Stage | Carbon Steel | Interpolated |
| A09 | 1 | 97 | Aluminized Steel, Single Stage | Carbon Steel | Interpolated |
| A13 | JCI | 129 | Aluminized Steel, Single Stage | | UUT2a,b |
| B05 | JCI | 49 | Stainless Steel, Single Stage | | Interpolated ² |
| B07 | | 65 | Stainless Steel, Single Stage | Stainless Steel | Interpolated ² |
| B09 | | 97 | Stainless Steel, Single Stage | Stalliess Steel | Interpolated ² |
| B13 | | 129 | Stainless Steel, Single Stage | | Interpolated ² |
| | | | Two Stage Natural Gas Heat Optic | ons | |
| N05 | | 49 | Aluminized Steel, Two Stage | | Interpolated |
| N07 |] [| 65 | Aluminized Steel, Two Stage | | Interpolated |
| N09 | J | 97 | Aluminized Steel, Two Stage | | Interpolated |
| N10 | JCI | 100 | Aluminized Steel, Two Stage | Carbon Steel | UUT5a,b |
| N13 | | 129 | Aluminized Steel, Two Stage | | Interpolated |
| N15 | | 150 | Aluminized Steel, Two Stage | | Interpolated |
| N20 | | 200 | Aluminized Steel, Two Stage | | UUT6a,b |
| S05 | | 49 | Stainless Steel, Two Stage | | UUT3a,b |
| S07 | | 65 | Stainless Steel, Two Stage | C | Interpolated |
| S09 | | 97 | Stainless Steel, Two Stage | | Interpolated |
| S10 | JCI | 100 | Stainless Steel, Two Stage | Stainles <mark>s Steel</mark> | UUT10a,b |
| S13 | | 129 | Stainless Steel, Two Stage | | UUT4a,b |
| S15 | | 150 | Stainless Steel, Two Stage | | Interpolated |
| S20 | | 200 | Stainless Steel, Two Stage | | UUT9a,b |
| | | | Filters | | |
| Model Number | Manufacturer | | Description | Material | Unit |
| 198 | American Air | 16" x 24' | ' x 2" Fiberglass TA Filter | Cardhard Eibardar | UUT1a,b - UUT11a,b |
| 300X | Filter | 16" x 3 | 24" x 2" Pleated Filter | Cardboard, Fiberglass | UUT1a,b - UUT11a,b |
| AA1300 | 1 | 16" x : | 24" x 4" Pleated Filter | | UUT1a,b - UUT11a,b |
| 102-741-020 | Kaah | 2" x 16" : | x 24" Fiberglass TA Filter | Cardboard Fiboraloss | UUT12a,b |
| 141-604-859 | Koch – | 4" x 20"; | x 24" Fiberglass TA Filter | Cardboard, Fiberglass | UUT13a,b |

OILDIN

Notes:

1. All heat cells are both stainless and aluminized.

2. Single stage units are bookended by UUT3a,b and UUT4a,b.

Special Seismic Certification Table 8- Certified Subcomponents



DCL Project Number: 69232-2401

Product Line: JCI Packaged Rooftop Units

| | | Miscellaneous | | |
|----------------------------|---------------------------|---|------------------------------------|--------------------------------------|
| Model Number | Manufacturer | Description | Material | Unit |
| CY017 | Advanced Controls Inc. | VFD Bypass Switch | Carbon Steel, Plastic | UUT9a,b - UUT11a,b |
| 5KCP39N | GE | 230 / 460V Power Exhaust Fan Motor | Carbon Steel | UUT1a,b - UUT11a,b; UUT13a,b |
| F48P | AO Smith | 575V Power Exhaust Fan Motor | Carbon Steel | UUT1a,b - UUT11a,b |
| YD4120 | System Sensor | Smoke Detector | Plastic | UUT1a,b - UUT13a,b |
| FHL/KHL/JGL | Square D | Electrical Disconnect Switch | Plastic | UUT1a,b - UUT11a,b; UUT13a,b |
| AE 00203 | | Controller, Simplicity Lite Board gas/Elec | Francis Desira Filometera | UUT1a,b - UUT4a,b |
| AE 00401 | Ayrshire | Controller, Simplicity 1A Board gas/Elec | Epoxy Resin, Fiberglass, Copper | UUT5a,b; UUT6a,b; UUT9a,b - UUT11a,b |
| AE 00501 | | Controller, Simplicity 1A Board heat pump | соррег | UUT7a,b; UUT8a,b |
| 5786050 | | Controller, Simplicity SE 1-stage | | Extrapolated |
| 5786051 | | Controller, Simplicity SE 1-stage w/ COM | | Extrapolated |
| 6786052 | | Controller, Simplicity SE 2-stage | | Extrapolated |
| 6786053 | JCI | Controller, Simplicity SE 2-stage w/ COM | Epoxy Resin, Fiberglass, Copper | UUT12a,b; UUT13a,b |
| 6786054 | | Controller, Simplicity SE 4-stage board | | UUT12a,b; UUT13a,b |
| 6786056 | | Controller, Simplicity SE Economizer Board | T. | UUT12a,b; UUT13a,b |
| 65674 (026-39484- 000A) | JCI | Evaporator Coil Drain Pan (20 ga 304 Stainless Steel), 56.56"L x 4.13"W x 4"D | Stainless Steel | UUT1a,b - UUT11a,b |
| 10241 (032-00184- 000) | JCI | Evaporator Coil Drain Pan (Plastic), 56.56"L x 4.13"W x 4"D Polymer, 0.200"THK | Plastic | UUT1a,b - UUT11a,b |
| 1159-10 | United | Intelli Comfort Board | Epoxy Resin, Fiberglass, | UUT1a,b - UUT4a,b; UUT10a,b |
| 1084-900 | Technologies | Defrost Board | Copper | UUT7a,b; UUT8a,b |
| AE 1010044 | Ayrshire | D VAV Board 07/09/20 | Epoxy Resin, Fiberglass, Copper | UUT9a,b; UUT10a,b |
| | | THEORNIA BUILDING | 5 CODE: DV | |

Special Seismic Certification Table 9- Tested Units



DCL Project Number: 69232-2401

Manufacturer: Johnson Controls and other Unitary Product Group brands (York, Coleman, Luxaire, Evcon, Fraser-Johnston and Ready Ship)

Product Line: JCI Packaged Rooftop Units

Tested Product Construction: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Tested Options: 230-575 V, economizer, power exhaust, electric or gas heater, variable frequency drive

Mounting: Rigid Curb or Isolated Curb Mounting

Certified Seismic Levels: Sds 2.0 g at z/h=1.0

| Product Type | Model Number | 1 | Dimensions [in. |] | Weight | Nominal Cooling | Unit | |
|---|-----------------------------------|--------|-----------------|----------|---------|-------------------|----------|--|
| Floduct Type | Woder Number | Length | Width | Height | [lb.] | Capacity [Tons] | | |
| | ZR037A05D2DAE5 | 89 | 59 | 42 | 980 | 3 | UUT1a,b | |
| Predator Air Handling Units | ZR061A13S5GZZ50001 | 89 | 59 | 42 | 1,070 | 5 | UUT2a,b | |
| (Short) | ZH037S05A2HZZ50001 | 89 | 59 | 42 | 860 | 3 | UUT3a,b | |
| | ZJ061S13T5BZZ50001 | 890 | 59 | E 42 0 | 1,070 | 5 | UUT4a,b | |
| - | ZR078N10D2DZZ5001 | 89 | 59 | 53 | 1,060 | 6.5 | UUT5a,b | |
| | ZR150N20N5GZZ50001 | 119.5 | 59 | 42 | 1,600 | 12.5 | UUT6a,b | |
| | XP078E09A2BAC5 | 89 |)SP-02 | 2132 | 970 | 6.5 | UUT7a,b | |
| Predator Air Handling Units (Standard) | XP150E54 <mark>N5HZZ50</mark> 001 | 119.5 | 59 hamma | ad Karir | 1,510 | 12.5 | UUT8a,b | |
| | ZJ150S20 <mark>S5BZZ50</mark> 001 | 119.5 | 59 | 51 | 1,570 | 12.5 | UUT9a,b | |
| | ZF078S10F2BZZ5001 | DA®TE | 059/09 | 9/24225 | 1,090 | 6.5 | UUT10a,b | |
| | ZH150C00A2BAC5 | 119.5 | 59 | 51 | 1,250 | 12.5 | UUT11a,b | |
| Predator Air Handling Units | ZT120N18P2B1LAAKA1 | 119.5 | 59 | 51 | 1,470 | 10 | UUT12a,b | |
| (Ultra High Efficiency) | ZT150S24R4D5LAE3E1 | 119.5 | 59 | 51 | 1,680 | 12.5 | UUT13a,b | |

Special Seismic Certification Table 9 - Tested Units



DCL Project Number: 69232-2401

Manufacturer: Johnson Controls and other Unitary Product Group brands (York, Coleman, Luxaire, Evcon, Fraser-Johnston and Ready Ship)

Product Line: JCI Packaged Rooftop Units

Tested Product Construction: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Tested Options: 230-575 V, economizer, power exhaust, electric or gas heater, variable frequency drive

Mounting: Rigid Curb or Isolated Curb Mounting

Certified Seismic Levels: Sds 2.0 g at z/h=1.0

| Product Type | Model Number | | Dimensions [in. |] | Weight | Nominal Cooling | Unit | |
|---|-----------------------------------|--------|-----------------|----------|---------|-------------------|----------|--|
| Floudet Type | Woder Number | Length | Width | Height | [lb.] | Capacity [Tons] | | |
| | ZR037A05D2DAE5 | 89 | 59 | 42 | 980 | 3 | UUT1a,b | |
| Predator Air Handling Units | ZR061A13S5GZZ50001 | 89 | 59 | 42 | 1,070 | 5 | UUT2a,b | |
| (Short) | ZH037S05A2HZZ50001 | 89 | 59 | 42 | 860 | 3 | UUT3a,b | |
| | ZJ061S13T5BZZ50001 | 890 | 59 | E 42 0 | 1,070 | 5 | UUT4a,b | |
| - | ZR078N10D2DZZ5001 | 89 | 59 | 53 | 1,060 | 6.5 | UUT5a,b | |
| | ZR150N20N5GZZ50001 | 119.5 | 59 | 42 | 1,600 | 12.5 | UUT6a,b | |
| | XP078E09A2BAC5 | 89 |)SB-02 | 2132 | 970 | 6.5 | UUT7a,b | |
| Predator Air Handling Units (Standard) | XP150E54 <mark>N5HZZ50</mark> 001 | 119.5 | 59 hamma | nd Karir | 1,510 | 12.5 | UUT8a,b | |
| | ZJ150S20 <mark>S5BZZ50</mark> 001 | 119.5 | 59 | 51 | 1,570 | 12.5 | UUT9a,b | |
| | ZF078510F2BZZ5001 | DA®TE | 059/08 | 9/24225 | 1,090 | 6.5 | UUT10a,b | |
| | ZH150C00A2BAC5 | 119.5 | 59 | 51 | 1,250 | 12.5 | UUT11a,b | |
| Predator Air Handling Units | ZT120N18P2B1LAAKA1 | 119.5 | 59 | 51 | 1,470 | 10 | UUT12a,b | |
| (Ultra High Efficiency) | ZT150S24R4D5LAE3E1 | 119.5 | 59 | 51 | 1,680 | 12.5 | UUT13a,b | |

UUT-01a

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Short 3-5 Ton)

Model Number: ZR037A05D2DAE5

Mounting: Rigid Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: Aluminized 3-ton natural gas fired heat exchanger, 230V, with solenoid valves and indoor (ID) reheat coil, IDB motor, 12"x9"wide blower wheel, micro channel OD coil, a single reciprocating type compressor, and a single refrigeration circuit. The unit uses TXV for modulating refrigerant control. An optional Motorized economizer/no power exhaust (PE), non-powered convenience outlet, standard controller, phase monitor (PM), no Dirty Filter Switch (DFS), standard plastic drain pan & standard 2" throw-away (TA) fiberglass filters were selected. The ZR/ZK and ZJ/ZW 3 ton series uses a single outdoor fan (ODF) motor deck arrangement.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | UUT Pr | operties | | | | | |
|-------------------------------|------------------------|---|--|---|--|---|--|--|
| A | Dim | ensions (in) | 0213 | П | Lowest N | Natural Freque | ency (Hz) | |
| Operati <mark>ng We</mark> ig | ht (lb) | Depth | Width | Height | Front-Back | Side-Side | Vertical | |
| 980.0 BY: | | Vlo89.0mr | nad ⁵⁹ 0arir | n 42.0 | 7.8 | 7.5 | 13.3 | |
| | | Seismic Test | Parameters | | | | | |
| Test Criteria | Sds (g) | z/h/ | 00/dh25 | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g) | |
| ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.00 | 3.00 | 1.67 | 0.67 | |
| | 980.0 Test Criteria | Operating Weight (lb) 980.0 Test Criteria Sds (g) | Dimensions (in) Operating Weight (lb) Depth 980.0 Seismic Test Test Criteria Sds (g) Z/h | Operating Weight (Ib) Depth Width 980.0 980.0 980.0 980.0 Seismic Test Parameters Test Criteria Sds (g) z/h | Dimensions (in) Dimensions (in) Operating Weight (lb) Depth Width 980.0 M89.0 59.0 Seismic Test Parameters Test Criteria Sds (g) z/h | Dimensions (in) Lowest N Operating Weight (lb) Depth Width Height Front-Back 980.0 980.0 980.0 7.8 Seismic Test Parameters Test Criteria Sds (g) z/h Ip Aflx-H (g) Arig-H (g) | Dimensions (in) Lowest Natural Freque Operating Weight (Ib) Depth Width Height Front-Back Side-Side 980.0 989.0 699.0 42.0 7.8 7.5 Seismic Test Parameters Test Criteria Sds (g) z/h Ip Aflx-H (g) Arig-H (g) Aflx-V (g) | |

Unit Mounting Description:

Unit was mounted to a rigid roof curb supplied by MicroMetl, part #0564-C14D-0010. The unit rested on the perimeter of the curb. The curb had (4) 12Ga anchoring pockets, (2) on the each of the long side of the curb. The unit was attached to each of the pockets using (6) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (14) 1/2"-dia Gr. 2 bolts. The min spacing for the bolts was 8". The steel plate was attached to the shake table with (22) M12 threaded studs.





UUT-01b

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Short 3-5 Ton)

Model Number: ZR037A05D2DAE5

Mounting: Isolated Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: Aluminized 3-ton natural gas fired heat exchanger, 230V, with solenoid valves and indoor (ID) reheat coil, IDB motor, 12"x9"wide blower wheel, micro channel OD coil, a single reciprocating type compressor, and a single refrigeration circuit. The unit uses TXV for modulating refrigerant control. An optional Motorized economizer/no power exhaust (PE), non-powered convenience outlet, standard controller, phase monitor (PM), no Dirty Filter Switch (DFS), standard plastic drain pan & standard 2" throw-away (TA) fiberglass filters were selected. The ZR/ZK and ZJ/ZW 3 ton series uses a single outdoor fan (ODF) motor deck arrangement.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | | UUT Pr | operties | | | | | | | | |
|---------------|-----------------------------|---|------------------------|---|------------|------------|------------|-----------|--|--|--|--|
| Tested unit | 8 | Dimensions (in) -0213 Lowest Natural Frequency (Hz) | | | | | | | | | | |
| rested unit | Operating We | ight (lb) | Depth | Width | Height | Front-Back | Vertical | | | | | |
| UUT-01b | <mark>980.0</mark> | BY: | V10 ^{89.0} mr | nao ^{59,0} arir | 42.0 | 3.0 | 2.5 | 4.0 | | | | |
| | | | Seismic Test | Parameters | | | | | | | | |
| Building Code | Test Crite <mark>ria</mark> | Sds (g) | z/h/ | de la | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g | | | | |
| CBC 2022 | ICC-ES AC156 | 2.50 | L • 1.0 | 09/2020 | 4.00 | 3.00 | 1.67 | 0.67 | | | | |

Unit Mounting Description:

Unit was mounted to an isolated roof curb supplied by Ruskin (Provent), part #ISCALPRD371522_104. The unit rested on the perimeter of the curb. The curb had (6) 10Ga anchoring pockets, (2) on the each of the long side of the curb and (1) on each short side. The unit was attached to each of the pockets using (4) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (8) 3/8"-dia Gr. 5 bolts. The bolts were spaced 5-inches in from each side of the curb. The steel plate was attached to the shake table with (12) M12 threaded studs.



UUT-02a

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Short 3-5 Ton)

Model Number: ZR061A13S5GZZ50001

Mounting: Rigid Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: Short 5-ton reheat unit with aluminized gas heat section, 575V, solenoid valves, ID reheat coil, IDB motor, 12"x9" wide blower wheel, micro channel OD coil, a single reciprocating type compressor, and a single refrigeration circuit. The unit uses TXV for modulating refrigerant control. An optional fully modulating horizontal economizer/no power exhaust (PE), no convenience outlet, standard controller, no PM, optional DFS, optional supply air (SA) smoke detector, optional stainless steel drain pan & 2" pleated air filters were selected. The ZR/ZK and ZJ/ZW 4 & 5 ton use a dual outdoor fan (ODF) motor deck arrangement.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | | UUT Pro | operties | 2 | | | | |
|---------------|-----------------------------|-----------|-------------------------|----------------|------------|------------|------------|------------|--|
| Tested unit | 4 | Dime | Lowest N | Natural Freque | ency (Hz) | | | | |
| Tested unit | Operating We | ight (lb) | Depth Width Height Fron | | | | Side-Side | Vertical | |
| UUT-02a | <mark>1070.0</mark> | BV | 89.0 | 59.0 | 42.0 | 6.8 | 6.0 | 6.5 | |
| | | | Seismic Test | Parameters | | | | | |
| Building Code | Test Crite <mark>ria</mark> | Sds (g) | z/h | lp | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g) | |
| CBC 2022 | ICC-ES AC156 | 2.50A | E.1.0 // | 09/2025 | 4.00 | 3.00 | 1.67 | 0.67 | |

Unit Mounting Description:

Unit was mounted to a rigid roof curb supplied by MicroMetl, part #0564-C14D-0010. The unit rested on the perimeter of the curb. The curb had (4) 12Ga anchoring pockets, (2) on the each of the long side of the curb. The unit was attached to each of the pockets using (6) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (14) 1/2"-dia Gr. 2 bolts. The min spacing for the bolts was 8". The steel plate was attached to the shake table with (22) M12 threaded studs.



CERTIFICATION

UUT-02b

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Short 3-5 Ton)

Model Number: ZR061A13S5GZZ50001

Mounting: Isolated Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: Short 5-ton reheat unit with aluminized gas heat section, 575V, solenoid valves, ID reheat coil, IDB motor, 12"x9" wide blower wheel, micro channel OD coil, a single reciprocating type compressor, and a single refrigeration circuit. The unit uses TXV for modulating refrigerant control. An optional fully modulating horizontal economizer/no power exhaust (PE), no convenience outlet, standard controller, no PM, optional DFS, optional supply air (SA) smoke detector, optional stainless steel drain pan & 2" pleated air filters were selected. The ZR/ZK and ZJ/ZW 4 & 5 ton use a dual outdoor fan (ODF) motor deck arrangement.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | | UUT Pro | operties | | | | |
|---------------|-----------------------------|-----------|--------------------|--------------------------|------------|------------|----------------|-----------|
| Tested unit | 8 | Dim | ensions (in) – | 0213 | 2 | Lowest N | Natural Freque | ency (Hz) |
| Tested unit | Operating We | ight (lb) | Depth | Width | Height | Front-Back | Vertical | |
| UUT-02b | 1070.0 RV· | | Mo ^{89.0} | nao ^{59,0} arir | 42.0 | 3.0 | 2.8 | 5.3 |
| | | | Seismic Test | Parameters | | | | |
| Building Code | Test Crite <mark>ria</mark> | Sds (g) | z/h | lp | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g |
| CBC 2022 | ICC-ES AC156 | 2.50 | 1.0 | 09/4.920 | 4.00 | 3.00 | 1.67 | 0.67 |

Unit Mounting Description:

Unit was mounted to an isolated roof curb supplied by Ruskin (Provent), part #ISCALPRD371522_102. The unit rested on the perimeter of the curb. The curb had (6) 10Ga anchoring pockets, (2) on the each of the long side of the curb and (1) on each short side. The unit was attached to each of the pockets using (4) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (8) 3/8"-dia Gr. 5 bolts. The bolts were spaced 5-inches in from each side of the curb. The steel plate was attached to the shake table with (12) M12 threaded studs.



CERTIFICATION

UUT-03a

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Short 3-5 Ton)

Model Number: ZH037S05A2HZZ50001

Mounting: Rigid Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: Short 3-ton cooling only unit with single ODF deck construction, stainless steel natural gas fired heat exchanger, 230V, IDB motor, 12"x9"wide blower wheel, a single reciprocating type compressor and a single refrigeration circuit. The unit uses TXV for refrigerant control. Standard controller, standard plastic drain pan, and 4" high efficiency pleated filters were selected.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | NE | UUT Pi | roperties | ~~~~ | | | |
|---------------|-----------------------|---------|------------------|------------------|------------|------------|----------------|------------|
| Tested unit | 2 | Dim | ensions (in) | | | Lowest I | Natural Freque | ency (Hz) |
| Tested unit | Operating Weight (lb) | | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| UUT-03a | 860.0 | | 89.0 | 02 59.0 | 42.0 | 6.5 | 5.8 | 5.8 |
| | | | Seismic Tes | t Parameters | | | | |
| Building Code | Test Criteria | Sds (g) | Mo ¤/h mi | mad K ari | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g) |
| CBC 2022 | ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.00 | 3.00 | 1.67 | 0.67 |

Unit Mounting Description:

Unit was mounted to a rigid roof curb supplied by MicroMetl, part #0564-C14D-0010. The unit rested on the perimeter of the curb. The curb had (4) 12Ga anchoring pockets, (2) on the each of the long side of the curb. The unit was attached to each of the pockets using (6) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (14) 1/2"-dia Gr. 2 bolts. The min spacing for the bolts was 8". The steel plate was attached to the shake table with (22) M12 threaded studs.

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UUT-03b

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Short 3-5 Ton)

Model Number: ZH037S05A2HZZ50001

Mounting: Isolated Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: Short 3-ton cooling only unit with single ODF deck construction, stainless steel natural gas fired heat exchanger, 230V, IDB motor, 12"x9" wide blower wheel, a single reciprocating type compressor and a single refrigeration circuit. The unit uses TXV for refrigerant control. Standard controller, standard plastic drain pan, and 4" high efficiency pleated filters were selected.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | 1 | UUT Pr | operties | | | | |
|---------------|---------------|-----------|---------------|------------------|------------|------------|----------------|------------|
| Tested | 1 | Din | nensions (in) | | N.Y | Lowest N | Natural Freque | ency (Hz) |
| Tested unit | Operating We | ight (lb) | Depth | Width | Height | Front-Back | Vertical | |
| UUT-03b | 860.0 | | 89.0 | 59.0 | 42.0 | 3.3 | 2.8 | 4.3 |
| | | | Seismic Test | Parameters | | | | |
| Building Code | Test Criteria | Sds (g) | Mobynmr | nad K ari | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g) |
| CBC 2022 | ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.00 | 3.00 | 1.67 | 0.67 |

Unit Mounting Description:

DATE: 07/09/2025 Unit was mounted to an isolated roof curb supplied by MicroMetl, part #0405-642D-01. The unit rested on the perimeter of the curb. The curb had (4) 10Ga, 11-inch side anchoring pockets, (2) on the each of the long side of the curb. The unit was attached to each of the pockets using (8) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (14) 1/2"-dia Gr. 2 bolts. The min spacing for the bolts was 8". The steel plate was attached to the shake table with (22) M12 threaded studs.



UUT-04a

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Short 3-5 Ton)

Model Number: ZJ061S13T5BZZ50001

Mounting: Rigid Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: Short 5-ton cooling-only unit with stainless steel natural gas fired heat exchanger, 575V, IDB motor, 12"x9"wide blower wheel, a single reciprocating type compressor and a single refrigeration circuit. The unit uses TXV for refrigerant control. Full modulating slab economizer with PE, optional IntelliComfort controller, standard plastic drain pan & standard 2" TA air filters were selected.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | 2 | UUT Pr | operties | | | | | |
|---------------|-----------------------|------------|--------------|------------------|------------|------------|----------------|------------|--|
| Tested unit | | Dim | ensions (in) | | | Lowest N | Natural Freque | ency (Hz) | |
| Tested unit | Operating Weight (lb) | | Depth | Width | Height | Front-Back | Side-Side | Vertical | |
| UUT-04a | 1070.0 | 070.0 89.0 | | | 42.0 | 6.8 | 5.8 | 6.0 | |
| | | | Seismic Test | Parameters | | | | | |
| Building Code | Test Criteria | Sds (g) | Noghm | nad k ari | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g) | |
| CBC 2022 | ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.00 | 3.00 | 1.67 | 0.67 | |

Unit Mounting Description:

Unit was mounted to a rigid roof curb supplied by MicroMetl, part #0564-C14D-0010. The unit rested on the perimeter of the curb. The curb had (4) 12Ga anchoring pockets, (2) on the each of the long side of the curb. The unit was attached to each of the pockets using (6) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (14) 1/2"-dia Gr. 2 bolts. The min spacing for the bolts was 8". The steel plate was attached to the shake table with (22) M12 threaded studs.

DATE: 07/09/2025



CERTIFICATION

UUT-04b

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Short 3-5 Ton)

Model Number: ZJ061S13T5BZZ50001

Mounting: Isolated Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: Short 5-ton cooling-only unit with stainless steel natural gas fired heat exchanger, 575V, IDB motor, 12"x9"wide blower wheel, a single reciprocating type compressor and a single refrigeration circuit. The unit uses TXV for refrigerant control. Full modulating slab economizer with PE, optional IntelliComfort controller, standard plastic drain pan & standard 2" TA air filters were selected.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | | UUT Pr | operties | | | | | |
|---------------|---------------|-----------|--------------|------------|------------|------------|----------------|-----------|--|
| Tested unit | | Dim | ensions (in) | | | Lowest I | Natural Freque | ency (Hz) | |
| Tested unit | Operating We | ight (lb) | Depth | Width | Height | Front-Back | Vertical | | |
| UUT-04b | 1070.0 | | 89.0 | 59.0 | 42.0 | 3.3 | 3.3 | 4.3 | |
| | | DV. | Seismic Test | Parameters | | | | | |
| Building Code | Test Criteria | Sds (g) | z/h | nau nan | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g | |
| CBC 2022 | ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.00 | 3.00 | 1.67 | 0.67 | |

Unit Mounting Description:

Unit was mounted to an isolated roof curb supplied by MicroMetl, part #0405-642D-01. The unit rested on the perimeter of the curb. The curb had (4) 10Ga, 11-inch side anchoring pockets, (2) on the each of the long side of the curb. The unit was attached to each of the pockets using (8) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (14) 1/2"-dia Gr. 2 bolts. The min spacing for the bolts was 8". The steel plate was attached to the shake table with (22) M12 threaded studs.



UUT-05a

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: ZR078N10D2DZZ5001

Mounting: Rigid Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: 6.5-ton standard reheat unit with aluminized natural gas fired heat exchanger, 230V, solenoid valves, indoor (ID) reheat coil, IDB motor, 12"x12" blower wheel, micro channel OD coils, dual reciprocating type compressors, and dual refrigeration circuits. These units use TXV for modulating refrigerant control. An optional Motorized economizer/no power exhaust (PE), non-powered convenience outlet, standard controller, standard plastic drain pan, & 2" pleated air filters were selected. The ZR/ZK 6.5 ton series uses a dual ODF motor deck arrangement.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | | UUT Pr | operties | 2 | | | | |
|-------------------|-----------------------------|-----------|-------------------------------|------------|------------|------------|------------|------------|--|
| Tested unit | Z | Dim | Lowest Natural Frequency (Hz) | | | | | | |
| Tested unit | Operating We | ight (lb) | Depth | Width | Height | Front-Back | Vertical | | |
| UUT-05a | 1060.0 RV- | | 89.0 | 59.0 | 53.0 | 6.0 | 6.0 5.5 | | |
| | | | Seismic Test | Parameters | | | | | |
| Building Code | Test Crite <mark>ria</mark> | Sds (g) | z/h | lp | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g) | |
| CBC 2022 | ICC-ES AC156 | 2.50A | E. 1.0 // | 09/2.925 | 4.00 | 3.00 | 1.67 | 0.67 | |
| nit Mounting Desc | ription: | | | | 0 68775 | | | • | |

Unit Mounting Description:

Unit was mounted to a rigid roof curb supplied by MicroMetl, part #0564-C14D-0010. The unit rested on the perimeter of the curb. The curb had (4) 12Ga anchoring pockets, (2) on the each of the long side of the curb. The unit was attached to each of the pockets using (6) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (14) 1/2"-dia Gr. 2 bolts. The min spacing for the bolts was 8". The steel plate was attached to the shake table with (22) M12 threaded studs.



UUT-05b

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: ZR078N10D2DZZ5001

Mounting: Isolated Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: 6.5-ton standard reheat unit with aluminized natural gas fired heat exchanger, 230V, solenoid valves, indoor (ID) reheat coil, IDB motor, 12"x12" blower wheel, micro channel OD coils, dual reciprocating type compressors, and dual refrigeration circuits. These units use TXV for modulating refrigerant control. An optional Motorized economizer/no power exhaust (PE), non-powered convenience outlet, standard controller, standard plastic drain pan, & 2" pleated air filters were selected. The ZR/ZK 6.5 ton series uses a dual ODF motor deck arrangement.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | | UUT Pro | perties | | | | | | | |
|---------------|----------------------|-----------|----------------|------------|------------|-------------------------------|------------|----------|--|--|--|
| Tested unit | Z | Dime | ensions (in) – |)213 | 2 | Lowest Natural Frequency (Hz) | | | | | |
| rested unit | Operating We | ight (lb) | Depth | Width | Height | Front-Back | Vertica | | | | |
| UUT-05b | <mark>1060.</mark> 0 | BV | 89.0 | 59.0 | 53.0 | 2.8 | 2.8 | 4.5 | | | |
| | | | Seismic Test | Parameters | | | | | | | |
| Building Code | Test Criteria | Sds (g) | z/h | lp | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (| | | |
| CBC 2022 | ICC-ES AC156 | 2.50A | L 1.0 | 19/4925 | 4.00 | 3.00 | 1.67 | 0.67 | | | |

Unit Mounting Description:

Unit was mounted to an isolated roof curb supplied by MicroMetl, part #0405-642D-02. The unit rested on the perimeter of the curb. The curb had (4) 10Ga, 11-inch side anchoring pockets, (2) on the each of the long side of the curb. The unit was attached to each of the pockets using (8) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (14) 1/2"-dia Gr. 2 bolts. The min spacing for the bolts was 8". The steel plate was attached to the shake table with (22) M12 threaded studs.



UUT-06a

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: ZZR150N20N5GZZ50001

Mounting: Rigid Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: 12.5-ton standard reheat unit with aluminized gas heat section, 575V, solenoid valves, ID reheat coil, IDB motor, 12x15" wide blower wheel, micro channel OD coils, dual reciprocating type compressors, and dual refrigeration circuits. The unit uses TXV for modulating refrigerant control. Standard controller was used. An optional supply air (SA) smoke detector, stainless steel drain pan, & 4" pleated air filters were selected.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | 1 | UUT Pr | operties | | | | | | |
|---------------|------------------------------|-----------------------|--------------|-----------------------|------------|-------------------------------|------------|------------|--|--|
| Tested unit | | Dim | ensions (in) | | | Lowest Natural Frequency (Hz) | | | | |
| Tested unit | Operating We | ight (Ib) | Depth | Width | Height | Front-Back | Vertical | | | |
| UUT-06a | 1600.0 | | 119.5 | 59.0 | 42.0 | 6.8 | 4.0 | 5.0 | | |
| | | DV. | Seismic Test | Parameters | | | | | | |
| Building Code | Test Crite <mark>ri</mark> a | Sd <mark>s (g)</mark> | z/h | nad <mark>p</mark> an | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g) | | |
| CBC 2022 | ICC-ES AC156 | 2.00 | 1.00 | 1.50 | 3.20 | 2.40 | 1.34 | 0.54 | | |

Unit Mounting Description:

Unit was mounted to a rigid roof curb supplied by MicroMetl, part #0564-C14D-0010. The unit rested on the perimeter of the curb. The curb had (4) 12Ga anchoring pockets, (2) on the each of the long side of the curb. The unit was attached to each of the pockets using (6) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (14) 1/2"-dia Gr. 2 bolts. The min spacing for the bolts was 8". The steel plate was attached to the shake table with (22) M12 threaded studs.

DATE: 07/09/2025



UUT-06b

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: ZZR150N20N5GZZ50001

Mounting: Isolated Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: 12.5-ton standard reheat unit with aluminized gas heat section, 575V, solenoid valves, ID reheat coil, IDB motor, 12x15" wide blower wheel, micro channel OD coils, dual reciprocating type compressors, and dual refrigeration circuits. The unit uses TXV for modulating refrigerant control. Standard controller was used. An optional supply air (SA) smoke detector, stainless steel drain pan, & 4" pleated air filters were selected.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| Tested unit | | Dim | ensions (in) | | | Lowest N | ency (Hz) | | |
|---------------|---------------|-----------|--------------|--------------|------------|------------|----------------------|-----------|--|
| Tested unit | Operating We | ight (lb) | Depth | Width | Height | Front-Back | Front-Back Side-Side | | |
| UUT-06b | 1600.0 | | 119.5 | 59.0 | 42.0 | 2.8 | 5.8 | | |
| | | DV. | Seismic Test | t Parameters | | | | | |
| Building Code | Test Criteria | Sds (g) | z/h | | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g | |
| CBC 2022 | ICC-ES AC156 | 2.00 | 1.00 | 1.50 | 3.20 | 2.40 | 1.34 | 0.54 | |

Unit Mounting Description:

Unit was mounted to an isolated roof curb supplied by MicroMetl, part #0405-642D-04. The unit rested on the perimeter of the curb. The curb had (4) 10Ga, 11-inch side anchoring pockets, (2) on the each of the long side of the curb. The unit was attached to each of the pockets using (8) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (14) 1/2"-dia Gr. 2 bolts. The min spacing for the bolts was 8". The steel plate was attached to the shake table with (22) M12 threaded studs.





Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: XP078E09A2BAC5

Mounting: Rigid Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: 6.5 ton standard heat pump unit with 9kW electric heat section, 230V, finned/tube OD coils, IDB motor, 12"x12" wide blower wheel, fin/tube OD coils, dual scroll type compressors, and dual refrigeration circuits. The unit uses TXV for modulating refrigerant control on both ID/OD coils. A standard controller, standard plastic drain pan, 2" fiberglass TA air filters and dual outdoor fan (ODF) motor deck arrangement were used.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | 1 | UUT Pr | operties | | | | | | |
|---------------|---------------|-----------------------|-----------------|--------------|------------|-------------------------------|------------|------------|--|--|
| Tested unit | | Dim | ensions (in) | | | Lowest Natural Frequency (Hz) | | | | |
| Tested unit | Operating We | ight (lb) | Depth | Width | Height | Front-Back | Vertical | | | |
| UUT-07a | 970.0 | MAN WAXAYAY | 89.0 | 59.0 | 42.0 | 12.3 | 12.3 8.3 | | | |
| | | DV. | Seismic Test | Parameters | | | | | | |
| Building Code | Test Criteria | Sd <mark>s (g)</mark> | vionarii z/h | nad pan | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g) | | |
| CBC 2022 | ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.00 | 3.00 | 1.67 | 0.67 | | |

Unit Mounting Description:

Unit was mounted to a rigid roof curb supplied by Ruskin, part #80-270-4414. The unit rested on the perimeter of the curb. The curb had (12) 12Ga anchoring pockets, (2) on the each of the short sides of the curb and (4) on each of the long sides of the curb. The unit was attached to each of the pockets using (2) # 14 - 5 inch long self tapping screws. The curb was attached to a 3/4" thick steel plate with (8) 3/8"-dia Gr. 2 bolts. There were two bolts on each side of the unit. The bolts were mounted five inches inward from the edge of the curb flange. The steel plate was attached to the shake table with (22) M12 threaded studs.

DATE: 07/09/2025



UUT-07b

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: XP078E09A2BAC5

Mounting: Isolated Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: 6.5 ton standard heat pump unit with 9kW electric heat section, 230V, finned/tube OD coils, IDB motor, 12"x12" wide blower wheel, fin/tube OD coils, dual scroll type compressors, and dual refrigeration circuits. The unit uses TXV for modulating refrigerant control on both ID/OD coils. A standard controller, standard plastic drain pan, 2" fiberglass TA air filters and dual outdoor fan (ODF) motor deck arrangement were used.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | | UUT Pr | operties | | | | | | | |
|---------------|---------------|-----------------|--------------|------------|------------|------------|----------------------|------------------------|--|--|--|
| Tested unit | | Dimensions (in) | | | | | | Natural Frequency (Hz) | | | |
| Tested unit | Operating We | ight (lb) | Depth | Width | Height | Front-Back | Front-Back Side-Side | | | | |
| UUT-07b | 970.0 | | 119.5 | 59.0 | 42.0 | 2.8 | 2.5 | 3.5 | | | |
| | | DV. | Seismic Test | Parameters | | | | | | | |
| Building Code | Test Criteria | Sds (g) | z/h | | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g | | | |
| CBC 2022 | ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.00 | 3.00 | 1.67 | 0.67 | | | |

Unit Mounting Description:

Unit was mounted to an isolated roof curb supplied by Ruskin (Provent), part #ISCALPRD371522_104. The unit rested on the perimeter of the curb. The curb had (6) 10Ga anchoring pockets, (2) on the each of the long side of the curb and (1) on each short side. The unit was attached to each of the pockets using (4) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (8) 3/8"-dia Gr. 5 bolts. The bolts were spaced 5-inches in from each side of the curb. The steel plate was attached to the shake table with (12) M12 threaded studs.



UUT-08a

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: XP150E54N5HZZ50001

Mounting: Rigid Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: 12.5 ton standard heat pump with 54 kW electric heat section, 575V, finned/tube OD coils, IDB motor, 15x15" wide blower wheel, fin/tube OD coils, dual scroll type compressors, and dual refrigeration circuits. The unit uses TXV for modulating refrigerant control. Optional IntelliComfort controller, optional return air (RA) smoke detector, standard plastic drain pan & standard 2" fiberglass TA air filters were used.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | 7 | UUT Pr | operties | | | | | |
|--------------------|------------------------------|-----------|-------------------------------|-----------------------|------------|------------|----------------------|-----------|--|
| Tested unit | | Dim | Lowest Natural Frequency (Hz) | | | | | | |
| rested unit | Operating We | ight (lb) | Depth | Width | Height | Front-Back | Front-Back Side-Side | | |
| UUT-08a | 1510.0 | | 119.5 | 59.0 | 51.0 | 9.8 6.0 | 14.8 | | |
| | | DV. | Seismic Tes | t Parameters | | | | | |
| Building Code | Test Crite <mark>r</mark> ia | Sds (g) | viorz/h | nad <mark>p</mark> an | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g | |
| CBC 2022 | ICC-ES AC156 | 2.00 | 1.00 | 1.50 | 3.20 | 2.40 | 1.34 | 0.54 | |
| nit Mounting Desci | ription: | DA' | TE: 07/ | 09/2025 | | | | | |

Unit Mounting Description:

Unit was mounted to a rigid roof curb supplied by Ruskin, part #80-270-4414. The unit rested on the perimeter of the curb. The curb had (12) 12Ga anchoring pockets, (2) on the each of the short sides of the curb and (4) on each of the long sides of the curb. The unit was attached to each of the pockets using (2) # 14 - 5 inch long self tapping screws. The curb was attached to a 3/4" thick steel plate with (8) 3/8" dia Gr. 2 bolts. There were two bolts on each side of the unit. The bolts were mounted five inches inward from the edge of the curb flange. The steel plate was attached to the shake table with (22) M12 threaded studs.



UUT-08b

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: XP150E54N5HZZ50001

Mounting: Isolated Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: 12.5 ton standard heat pump with 54 kW electric heat section, 575V, finned/tube OD coils, IDB motor, 15x15" wide blower wheel, fin/tube OD coils, dual scroll type compressors, and dual refrigeration circuits. The unit uses TXV for modulating refrigerant control. Optional IntelliComfort controller, optional return air (RA) smoke detector, standard plastic drain pan & standard 2" fiberglass TA air filters were used.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | | UUT Pr | operties | | | | | | |
|---------------|------------------------------|-----------|--------------|------------|------------|------------|----------------------------|------------|--|--|
| Tested unit | | Dim | ensions (in) | | | Lowest N | est Natural Frequency (Hz) | | | |
| rested unit | Operating We | ight (lb) | Depth | Width | Height | Front-Back | Front-Back Side-Side | | | |
| UUT-08b | 1510.0 | | 119.5 | 59.0 | 51.0 | 2.0 | 2.3 | 3.5 | | |
| | | DV. | Seismic Test | Parameters | | | | | | |
| Building Code | Test Crite <mark>r</mark> ia | Sds (g) | z/h | | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g) | | |
| CBC 2022 | ICC-ES AC156 | 2.00 | 1.00 | 1.50 | 3.20 | 2.40 | 1.34 | 0.54 | | |

Unit Mounting Description:

Unit was mounted to an isolated roof curb supplied by Ruskin (Provent), part #ISCALPRD371522_103. The unit rested on the perimeter of the curb. The curb had (6) 10Ga anchoring pockets, (2) on the each of the long side of the curb and (1) on each short side. The unit was attached to each of the pockets using (4) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (8) 3/8"-dia Gr. 5 bolts. The bolts were spaced 5-inches in from each side of the curb. The steel plate was attached to the shake table with (12) M12 threaded studs.



UUT-09a

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: ZJ150S20S5BZZ50001

Mounting: Rigid Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: 12.5 ton standard cooling only unit with stainless steel gas heat section, 575V, IDB motor, 15x15" wide blower wheel, Micro Channel OD coils, dual reciprocating type compressors, dual refrigeration circuits, 4 ODFs, and a "W" shaped OD condenser coil. The unit uses TXV for modulating refrigerant control. An optional VFD w/ manual bypass switch, fully modulating horizontal economizer/no PE, no convenience outlet, standard controller, standard plastic drain pan & standard 2" TA air filters were used.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| Tested unit | | Dim | ensions (in) | | | Lowest Natural Freque | | ancy (Hz) | |
|---------------|-----------------------------|-----------|--------------|--------------|------------|-----------------------|------------|-----------|--|
| rested unit | Operating Wei | ight (lb) | Depth - | 0ZWidth | Height | Front-Back | Side-Side | Vertical | |
| UUT-09a | 1570.0 | | 119.5 | 59.0 | 51.0 | 7.8 | 10.3 | | |
| | | BY: | Seismic Tes | t Parameters | m 📖 | | | | |
| Building Code | Test Crite <mark>ria</mark> | Sds (g) | z/h | lp | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g | |
| CBC 2022 | ICC-ES AC156 | 2.00 | 1.00 | 1.50 | 3.20 | 2.40 | 1.34 | 0.54 | |

Unit Mounting Description:

Unit was mounted to a rigid roof curb supplied by Ruskin, part #80-270-4414. The unit rested on the perimeter of the curb. The curb had (12) 12Ga anchoring pockets, (2) on the each of the short sides of the curb and (4) on each of the long sides of the curb. The unit was attached to each of the pockets using (2) # 14 - 5 inch long self tapping screws. The curb was attached to a 3/4" thick steel plate with (8) 3/8" dia Gr. 2 bolts. There were two bolts on each side of the unit. The bolts were mounted five inches inward from the edge of the curb flange. The steel plate was attached to the shake table with (22) M12 threaded studs.





UUT-09b

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: ZJ150S20S5BZZ50001

Mounting: Isolated Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: 12.5 ton standard heat pump with 54 kW electric heat section, 575V, finned/tube OD coils, IDB motor, 15x15" wide blower wheel, fin/tube OD coils, dual scroll type compressors, and dual refrigeration circuits. The unit uses TXV for modulating refrigerant control. Optional IntelliComfort controller, optional return air (RA) smoke detector, standard plastic drain pan & standard 2" fiberglass TA air filters were used.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | | UUT Pr | operties | | | | | | | |
|---------------|------------------------------|-----------|--------------|------------|------------|------------|-------------------------------|------------|--|--|--|
| Tested unit | | Dim | ensions (in) | | | Lowest N | Lowest Natural Frequency (Hz) | | | | |
| rested unit | Operating We | ight (lb) | Depth | Width | Height | Front-Back | ont-Back Side-Side | | | | |
| UUT-09b | 1570.0 | | 119.5 | 59.0 | 51.0 | 2.8 | 2.5 | 2.8 | | | |
| | | DV. | Seismic Test | Parameters | | | | | | | |
| Building Code | Test Crite <mark>r</mark> ia | Sds (g) | z/h | | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g) | | | |
| CBC 2022 | ICC-ES AC156 | 2.00 | 1.00 | 1.50 | 3.20 | 2.40 | 1.34 | 0.54 | | | |

Unit Mounting Description:

Unit was mounted to an isolated roof curb supplied by MicroMetl, part #0405-642D-04. The unit rested on the perimeter of the curb. The curb had (4) 10Ga, 11-inch side anchoring pockets, (2) on the each of the long side of the curb. The unit was attached to each of the pockets using (8) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (14) 1/2"-dia Gr. 2 bolts. The min spacing for the bolts was 8". The steel plate was attached to the shake table with (22) M12 threaded studs.

\∩\||DATE: 07/09/2025 |||/ √/



UUT-10a

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: ZF078S10F2BZZ5001

Mounting: Rigid Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: 6.5 ton standard cooling only unit with smallest stainless steel natural gas fired heat exchanger, 230V, 12"x12" wide blower wheel, Micro Channel OD coils, dual reciprocating type compressors, and dual refrigeration circuits. TXV used for modulating refrigerant control. Optional VFD used with fully modulating slab economizer with PE, standard controller, standard plastic drain pan & standard 2" TA air filters. Dual outdoor fan (ODF) motor deck arrangement.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | 1 | | UUT Pr | operties | XXX Y | | | | | |
|-------------------|-----------------------------|-----------------|--------------|------------|------------|--|---------------------|-------------------------------|--|--|
| Tested unit | T | Dimensions (in) | | | | | | Lowest Natural Frequency (Hz) | | |
| Tested unit | Operating We | ight (lb) | Depth - | 0ZWidth | Height | Front-Back | ront-Back Side-Side | | | |
| UUT-09a | <mark>1090.</mark> 0 | | 89.0 | 59.0 | 42.0 | 11.3 | 9.0 | | | |
| | 0 | BY: | Seismic Test | Parameters | m | 0 | | | | |
| Building Code | Test Crite <mark>ria</mark> | Sds (g) | z/h | lp | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g | | |
| CBC 2022 | ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.00 | 3.00 | 1.67 | 0.67 | | |
| nit Mounting Desc | ription: | DA | 1E: 077 | 09/2025 | | <u>, </u> | | | | |

Unit Mounting Description:

Unit was mounted to a rigid roof curb supplied by Ruskin, part #80-270-4414. The unit rested on the perimeter of the curb. The curb had (12) 12Ga anchoring pockets, (2) on the each of the short sides of the curb and (4) on each of the long sides of the curb. The unit was attached to each of the pockets using (2) # 14 - 5 inch long self tapping screws. The curb was attached to a 3/4" thick steel plate with (8) 3/8" dia Gr. 2 bolts. There were two bolts on each side of the unit. The bolts were mounted five inches inward from the edge of the curb flange. The steel plate was attached to the shake table with (22) M12 threaded studs.



UUT-10b

Test Report Number: 90300-1107

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: ZF078S10F2BZZ5001

Mounting: Isolated Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: 6.5 ton standard cooling only unit with smallest stainless steel natural gas fired heat exchanger, 230V, 12"x12" wide blower wheel, Micro Channel OD coils, dual reciprocating type compressors, and dual refrigeration circuits. TXV used for modulating refrigerant control. Optional VFD used with fully modulating slab economizer with PE, standard controller, standard plastic drain pan & standard 2" TA air filters. Dual outdoor fan (ODF) motor deck arrangement.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | 1 | | UUT Pro | operties | | | | | |
|-------------------|-----------------------------|-----------|--------------|------------|------------|------------|----------------|-----------|--|
| Tested unit | | Dim | ensions (in) | | | Lowest I | Natural Freque | ency (Hz) | |
| Tested unit | Operating We | ight (lb) | Depth - | 2Width | Height | Front-Back | Side-Side | Vertical | |
| UUT-10b | 1090.0 | 89.0 | 59.0 | 42.0 | 2.8 | 2.8 2.5 | | | |
| | | BY | Seismic Test | Parameters | m | | | - | |
| Building Code | Test Crite <mark>ria</mark> | Sds (g) | z/h | lp | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g | |
| CBC 2022 | ICC-ES AC156 | 2.50 | 1.0 | 1.5 | 4.00 | 3.00 | 1.67 | 0.67 | |
| nit Mounting Desc | ription: | DA | IE: 07/0 | J9/Z0Z3 | | V | | | |

Unit Mounting Description:

Unit was mounted to an isolated roof curb supplied by MicroMetl, part #0405-642D-02. The unit rested on the perimeter of the curb. The curb had (4) 10Ga, 11-inch side anchoring pockets, (2) on the each of the long side of the curb. The unit was attached to each of the pockets using (8) # 12 self tapping screws. The curb was attached to a 3/4" thick steel plate with (14) 1/2"-dia Gr. 2 bolts. The min spacing for the bolts was 8". The steel plate was attached to the shake table with (22) M12 threaded studs.





Test Report Number: 07181-1901

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: ZT120N18P2B1LAAKA1

Mounting: Rigid Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: The UUT is comprised of components including the following: refrigerant compressor, outdoor fan motor, outdoor and indoor coils, VFD, economizer, Filters, smoke detector, Simplicity SE

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| Tested unit | | Lowest Natural Frequency (Hz) | | | | | | |
|---------------|---------------|-------------------------------|--------------|------------|------------|------------|------------|------------|
| | Operating We | Depth | Width | Height | Front-Back | Side-Side | Vertical | |
| UUT-12a | 1470.0 | | 119.5 | 59.0 | 51.0 | 6.5 | 9.5 | 12.5 |
| | Z | | Seismic Test | Parameters | S | | | |
| Building Code | Test Criteria | Sds (g) | z/h | lp | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g) |
| CBC 2022 | ICC-ES AC156 | 2.00 | 1.00 | 1.50 | 3.20 | 2.40 | 1.34 | 0.54 |

Unit Mounting Description:

The unit was mounted to a rigid roof curb supplied by Ruskin part #80270-2914 8" height model. The unit rested on the perimeter of the curb. The unit was attached to the curb via (18) manufacturer provided mounting clips on the curb with (2) #10 TEK screw holes each spaced at 5" on each clip and each clip spaced 8", 20.5", 11", 20.5", and 8" on center respectively on the longer side and 18" on center on the shorter side for a total of (36) #10 TEK self tapping screws. The curb was attached to a steel plate shake table interface plate with (8) 3/8"-diameter grade 5 bolts and washers. The bolts were spaced 38" depth wise and 68" widthwise.



UUT-12b

Test Report Number: 07181-1901

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: ZT120N18P2B1LAAKA1

Mounting: Isolated Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: The UUT is comprised of components including the following: refrigerant compressor, outdoor fan motor, outdoor and indoor coils, VFD, economizer, Filters, smoke detector, Simplicity SE

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| Tested unit | | Lowest Natural Frequency (Hz) | | | | | | |
|---------------|---------------|-------------------------------|--------------|------------|------------|------------|------------|-----------|
| | Operating We | ight (lb) | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| UUT-12b | 1470.0 | | 119.5 | 59.0 | 51.0 | 3.5 | 4.0 | 8.0 |
| | 2 | | Seismic Test | Parameters | 2 | | | |
| Building Code | Test Criteria | Sds (g) | z/h | lp | Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g |
| CBC 2022 | ICC-ES AC156 | 2.00 | 1.00 | 1.50 | 3.20 | 2.40 | 1.34 | 0.54 |

Unit Mounting Description:

Unit was mounted to a isolated roof curb supplied by MicroMetl part #CRBV-PRD01FA-081-020. The unit rested on the perimeter of the curb. The unit was mounted using (48) Tek 10 self-drilling screws, screwed to mounting clips. (6) screws were screwed per clip spaced 1-3/8" on center. Each clip is spaced 20" on center widthwise. The isolated curb was mounted to the DCL steel plate interface using (8) 3/8" grade 5 bolts, each with a standard washer spaced 71.5" on center and 41" on center



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UUT-13a

Test Report Number: 07181-1901

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: ZT120N18P2B1LAAKA1

Mounting: Rigid Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: The UUT is comprised of components including the following: refrigerant compressor, outdoor fan motor, outdoor and indoor coils, VFD, economizer, Filters, smoke detector, Simplicity SE 2-stage with COM, Simplicity SE 4-stage board.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | 2 | UUT Pr | operties | | | | |
|---------------|----------------------|-------------------------------|--------------|-------------------|--------------|------------|------------|------------|
| Tested unit | 1 | Lowest Natural Frequency (Hz) | | | | | | |
| | Operating We | ight (lb) | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| UUT-13a | 1 <mark>680.0</mark> | | 119.5 | 59.0 | 51.0 | 6.0 | 9.0 | 13.0 |
| | | | Seismic Test | Parameters | | | | |
| Building Code | Test Criteria | Sds (g) | Mobynmr | nad k arii | n Aflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g) |
| CBC 2022 | ICC-ES AC156 | 2.00 | 1.00 | 1.50 | 3.20 | 2.40 | 1.34 | 0.54 |

Unit Mounting Description:

DATF 07/09/2025 The unit was mounted to a rigid roof curb supplied by Ruskin part #80-270-2914 14" height model. The unit rested on the perimeter of the curb. The unit was attached to the curb via (18) manufacturer provided mounting clips on the curb with (2) #10 TEK screw holes each spaced at 5" on each clip and each clip spaced 8", 20.5", 11", 20.5", and 8" on center respectively on the longer side and 18" on center on the shorter side for a total of (36) #10 TEK self tapping screws. The curb was attached to a steel plate shake table interface plate with (8) 3/8"-diameter grade 5 bolts and washers. The bolts were spaced 38" depth wise and 68" widthwise.



UUT-13b

Test Report Number: 07181-1901

Manufacturer: Johnson Controls Incorporated

Product Line: Predator (Standard 6.5-12.5 Ton)

Model Number: ZT120N18P2B1LAAKA1

Mounting: Isolated Cub Mounted

Product Construction Summary: Cabinet is constructed of G90 galvanized 1,000 hour salt spray (per ASTM-B117) rated powder-coated 20 gage carbon steel wrapper and duct panel with integral corner posts, all attached at the base to four (4) full perimeter 14 gage base rails with #10 sheet metal screws.

Options / Component Summary: The UUT is comprised of components including the following: refrigerant compressor, outdoor fan motor, outdoor and indoor coils, VFD, economizer, Filters, smoke detector, Simplicity SE 2-stage with COM, Simplicity SE 4-stage board.

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained.

| | | 12 | UUT Pr | operties | | | | |
|---------------|-----------------------|-------------------------------|--------------|------------------|-------------|------------|------------|------------|
| Tested unit | 1 | Lowest Natural Frequency (Hz) | | | | | | |
| | Operating Weight (lb) | | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| UUT-13b | 1 <mark>680.0</mark> | | 119.5 | 59.0 | 51.0 | 2.5 | 3.5 | 6.0 |
| | | | Seismic Test | Parameters | | | | |
| Building Code | Test Criteria | Sds (g) | Mobynmr | nad k ari | MAflx-H (g) | Arig-H (g) | Aflx-V (g) | Arig-V (g) |
| CBC 2022 | ICC-ES AC156 | 2.00 | 1.00 | 1.50 | 3.20 | 2.40 | 1.34 | 0.54 |

Unit Mounting Description:

DATE: 07/09/2025 Unit was mounted to a isolated roof curb supplied by MicroMetl part #CRBV-PRD01FA-1412-P40. The unit rested on the perimeter of the curb. The unit was mounted using (48) Tek 10 self-drilling screws, screwed to mounting clips. (6) screws were screwed per clip spaced 1-3/8" on center. Each clip is spaced 20" on center widthwise. The isolated curb was mounted to the DCL steel plate interface using (8) 3/8" grade 5 bolts, each with a standard washer spaced 71.5" on center and 41" on center.

