

FRASER-JOHNSTON
Heating ■ Air Conditioning



ReliaCore™ 300 Gas/Electric Packaged Unit

3-5 TONS ULTRA HIGH EFFICIENCY PACKAGED UNITS

Trusted Solutions For Demanding Applications

Fraser-Johnston® ReliaCore™ 300 light commercial packaged units epitomize efficiency by combining advanced features with proven reliability. It's this fusion of dependability, quality and smart technology that brings our tradition of trusted craftsmanship and world-class reliability to challenging commercial projects.



RELIACORE™ 300 PACKAGED UNITS

Direct Drive Indoor Motor vs. Belt Drive Motor

ReliaCore™ 300 3–5 ton packaged units come standard with an adjustable belt drive supply fan motor. Many competitors use a direct drive ECM motor, which does not provide the operating range of a belt drive supply blower.

- Better control of airflow range
- High ESP (External Static Pressure) capabilities allow a wider range of airflows and application possibilities (2.0" wc ESP compared to 1.5" wc ESP with competition at nominal airflow)

High Efficiency Motors and VFD (Variable Frequency Drive)

The combination of high efficiency supply and condenser fan motors along with variable frequency drives on the supply fan provides industry-leading S EER and EER ratings.

- Premium efficiency indoor supply fan motors that are inverter rated have a longer lifespan than most PSC or ECM motors
- Supply fan motor, VFD and optional manual VFD bypass, and supply smoke detector are mounted on slide-out blower assembly for easy access for setup and commissioning
- Indoor supply fan stages airflow based on multiple-stage cooling demand, providing excellent energy savings along with cooling and humidity control when required

Copeland Scroll UltraTech™ 2.0 Two-stage Scroll Compressor

The unit is equipped with Copeland's UltraTech™ 2.0 speed scroll compressor technology that provides energy savings with excellent cooling and humidity control. First stage will be utilized at part load conditions.

Field-Trial Results



Copeland Scroll UltraTech™ compressors improve humidity control by 53%.



High Efficiency Coils MicroChannel Condenser

- All aluminum design results in less weight
- Superior heat transfer results in less coil surface area
- Uses 40-50% less refrigerant than standard copper tube/aluminum fin coils
- Durable surface resists damage from weather and other factors that would damage a conventional copper/aluminum coil



Sine Wave Evaporator Coil

Sine wave fins improve heat transfer and efficiency compared to standard corrugated fins, resulting in less resistance for improved airflow and performance.

Variable Frequency Drive

All Ultra High Efficiency Predator® packaged units incorporate a VFD driven supply fan motor instead of less efficient ECM or PSC motors.

- An excellent VFD warranty that can be redeemed directly from the VFD manufacturer
- Easy to commission VFD with LED display, scrolling dial, and large, simple push buttons
- All programming can be done at the VFD – compared to competitive ECMs that require an external computer and software
- Soft Start capabilities provide quiet startup and add longevity to motor, belts and supply fan components



Put performance in the palm of your hand

With Simplicity® Smart Equipment™, all alarm and diagnostic data can be transmitted directly to an on-site PC or over a local Wi-Fi® connection — you can even monitor the system over the Internet using a Web browser.



- Thermostat ready – No configuration required
- Wi-Fi® and Ethernet communications via optional Mobile Access Portal (MAP) Gateway
- Optional Fault Detection and Diagnostics (FDD) for entire refrigeration circuit and economizer (Title 24 Compliant)
- Onboard LCD

- Plug and Play Feature additions in the field
- Auto-Configuration
- Factory-Configured and Tested – No field programming required
- Self-Test Diagnostic Startup Report
- Data Logging to removable memory (USB)

- Multi-Protocol Capability
- SMART Device Tools (Mobile Access Portal Gateway)
- Fault "messages" instead of fault "codes"
- Single-Zone VAV, VFD, IntelliSPEED™ functionality
- BTL Certified

Quality Is Something We Take Personally



We design and build Fraser-Johnston® packaged units here in the United States, where we can closely monitor and improve processes that directly affect quality. It's this commitment to excellence that allows us to offer outstanding warranties, meet the highest industry standards and deliver energy-saving comfort that lasts. That's why, when it comes to commercial comfort, your confidence is our commitment.

Highest Efficiency in the Industry 3-5 Ton Ultra High Efficiency Gas/Electric Packaged Unit

MODEL	COOLING MBH	SEER	EER	LBS.
ZV-A3C00	38	18.1	14.1	812
ZV-A4C00	52	18.0	14.3	850
ZV-A5C00	64	17.5	13.8	858

MODEL	COOLING MBH	SEER	EER	HEATING PERFORMANCE NOMINAL ELECTRIC HEAT CAPACITY (KW)			LBS.
ZV-A3E	38	18.1	14.1	3.5,9.15	3.6,9.15	3.6,9.15	875
ZV-A4E	52	18.0	14.3	6.9,15,20	6.9,15,20	6.9,15,20	910
ZV-A5E	64	17.5	15.3	6.9,15,20,24	6.9,15,20,24	6.9,15,20,24	918

MODEL	COOLING MBH	SEER	EER	HEATING MBH INPUT	%SSE	LBS.
ZV-A3N06	38	18.1	14.1	60	81.5	922
ZV-A3N08	38	18.1	14.1	80	81.0	922
ZV-A3N12	38	18.1	14.1	120	81.0	922
ZV-A4N06	52	18.0	14.3	60	81.5	960
ZV-A4N08	52	18.0	14.3	80	81.0	960
ZV-A4N12	52	18.0	14.3	120	81.0	960
ZV-A5N08	64	17.5	13.8	80	81.0	968
ZV-A5N12	64	17.5	13.8	120	81.0	968
ZV-A5N16	64	17.5	13.8	160	80.5	968

Note: Gas/electric models with an "A" designator are single-stage heating. Gas/electric models with an "N" designator are two-stage heating.

Limited warranties: ZV gas/electric models



Meets ENERGY STAR® efficiencies



ASHRAE 90.1-2012 Compliant
ASHRAE 189.1 Compliant



Single-zone VAV requirement – LEED Credit 1



WE ENCOURAGE
NATE
CERTIFICATION