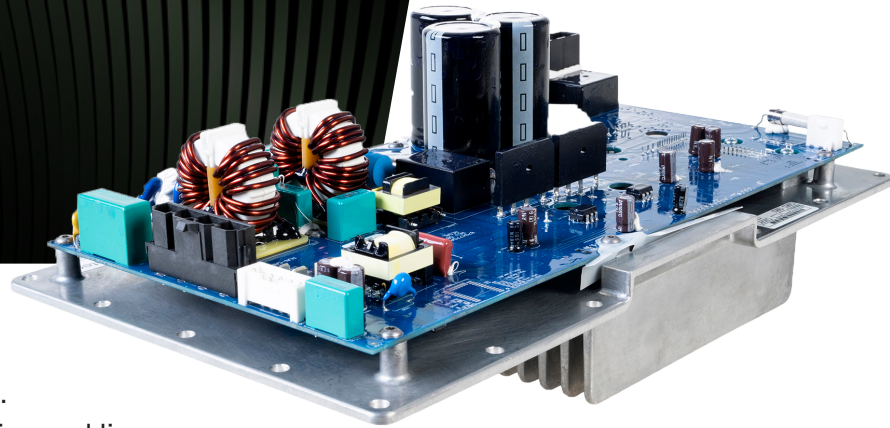


FRONTEER™



The Genteq® Fronteer™ Drive is an innovative new “hybrid” drive for the residential HVAC space.

The drive switches between variable speed operation and line power, increasing efficiency at a lower total system cost. Fronteer runs both the compressor and condenser fan motors on outdoor units. The drive has two versions, sized specifically for up to 3T and up to 5T systems. The Fronteer Drive is the ideal solution to increase SEER in the mid-tier market segment.

The Fronteer Drive borrows from Regal’s electronics expertise, and can be trusted for industry-leading efficiency, reliability, and versatility.

EFFICIENCY

Fronteer enhances system performance by adding the most SEER per dollar of cost. The Fronteer drive boosts efficiently significantly on non-variable single speed or two stage compressors, allowing OEMs to avoid derating systems under changing regulatory standards. Customers and 3rd party tests have confirmed 2-5pt SEER improvements by adding Fronteer (depending on type of compressor, fan motor, and system size).

- Variable operation up to 2400RPM and 66% of demand
- More efficient line power at top end of range
- Drive sized for lower variable boundary

IMPROVED SYSTEM DESIGN

Fronteer allows for significant system benefits during design, maximizing equipment performance while reducing costs and streamlining assembly. Fronteer can create a more premium unit even when utilizing a lower-cost compressor. Fronteer also draws more efficiency from a PSC or BLDC fan motor. Additionally, Fronteer reduces footprint in the control panel and removes the need for some other components, streamlining assembly.

- Maximizes equipment performance
- Reduces footprint in control panel
- Streamlines assembly

FRONTEER™

OPERABILITY

The Fronteer drive improves operation of a system with extra features. It increases reliability with soft start and removes potential points of failure in unnecessary components. It also reduces cycling in the system and increases homeowner comfort as well through its variable operation.

FEATURES

- Switches between variable operation and line power
- Programmable to operate dependent on current/power/temp requirements

BENEFITS

- Compact size
- Easy installation
- Remove components from control panel
- Maximize compressor and fan effectiveness
- Increase efficiency and SEER rating by 2-5 points
- Operational benefits



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APPLICATION CONSIDERATIONS

The proper selection and application of products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Rexnord Corporation, and/or its affiliates ("Regal") with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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- Over Current Protection
- Over Temperature Protection
- Short Circuit Protection (phase-to-phase, phase-to-ground)
- Open Phase and Locked Rotor Detection
- Line synchronization
- Comprehensive Blak Box™ diagnostics

APPLICATIONS

- Outdoor AC units
- Outdoor heat pumps
- Compressor racks

SPECIFICATIONS

- Voltage: 208/230 VAC, 60Hz
- I/O: Modbus RS-485, OEM Programmable
- Inverter engages below 66% of demand
- Speed: 900-2400rpm to compressor, 400-1100rpm to fan motor
- Operating Temperature: -40°C to 60°C
- Air cooled, aluminum heat sink goes through control panel
- 2 SKUs available:
 - For 1.5-3T systems (1.65kW max input power)
 - For 4-5T systems (2.7kW max input power)
- Power Factor up to 60% on variable, 90%+ on line
- 6.5W standby power
- 95% efficiency at 2kW and 240Vrms
- Dimensions:
 - 3T 12.66"x 7"x 4.913"
 - 5T 13.125"x 7"x 4.913"
- Weight: 4.5lbs

