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About Us
At Wilspec™, we design and build first-rate sensors and controls. Many of our customers work in the HVAC and Refrigeration field, but our products can be found in a wide variety of other applications. We serve some of the biggest names in the industry, and they count on us for consistently exceptional products.

We’re fired up about delivering the best products at competitive prices, and we’re proud to stand behind those products with customer service and support that’s unbeatable in our industry. As a small but dynamic world-wide team, we’re able to combine full-scale design and production capabilities with the personal attention of a nimble, flexible organization. We’ve staked our reputation on being easy to do business with, from the quality of our products to the long-term relationships we’re committed to building.
Designed and built.

The Wilspec™ brand is centered on a commitment to superior design and reliable build quality. From our sales and support staff, to our in-house engineering team, we are dedicated to building products, solutions and relationships which are designed to last.

Wilspec™ combines a comprehensive, full-service standard product line with the flexibility required to produce highly-customized solutions for customers with more complex needs. Our wholly-owned production facilities enable us to provide cost-effective, valuable products which meet rigorous safety and reliability standards.

Because we have a global sales and support staff, we can serve our customers anywhere in the world, and at any time. From our headquarters in the United States to our offices in Europe and our sales and production facilities in Asia, our presence in every corner of the world means you are never far from a knowledgeable, accessible expert who can help find the controls your systems need.

The Wilspec™ Sentinel Series™ of Pressure Switches feature a specially-calibrated steel disc for exceptional performance.

Sentinel Series™ Specifications
Pressure: Vacuum - 750 psig / 52 bar / 5.2 MPa
Electrical: 5 mA to 16 Amps; up to 600 VAC
Life Rating: 0 - 100K - 1M Cycles

Sentinel Series™ Options
Auto / Manual Reset
SPST or SPDT Switch
Solder or Mechanical Pressure Fittings
Electrical Connectors or Wire Leads

Wide variety of pressure fittings, both mechanical and brazed, to suit any application

High-grade stainless steel disc for reliable lifetime performance

Mobile arm is carefully calibrated for maximum life of the switch

Options include a wide variety of plugs and terminals, plus quick connects and bare wire leads.

Rugged housing protects switch mechanism, ensuring reliability in the harshest environments
ADJUSTABLE PRESSURE CONTROLS

The Defender Series™

Wilspec’s™ adjustable pressure control units are available in both single and dual models, with your choice of manual or automatic resets. With industry-standard mounting plates and flexible design, our Adjustable Pressure Controls are easy to install and easy to use. We use premium silver contacts for excellent conductivity, low electrical resistance and superior wear characteristics.

Our switches can be configured with a variety of pressure fittings and electrical connections and can be set for low, medium, or high electrical load capacity.

Defender Series™
Specifications
Pressure: Vacuum - 750 psig / 52 bar / 5.2 MPa
Electrical: 5 mA to 16 Amps; up to 600 VAC
Life Rating: 100K - 250K Cycles

Defender Series™
Options
Auto / Manual Reset
SPDT Switch
Solder or Mechanical Pressure Fittings
Internal Electrical Connectors or Wire Leads

Designed and built.

Laser-welded bellows. Extended pressure ranges. Uncompromising design and build quality.

The hallmarks of a Wilspec™ Adjustable Pressure Control are unmistakable. The Wilspec™ units carry forward the company’s legacy of engineering excellence — a natural outgrowth of our expertise in fixed-point pressure switches.

As global leaders in the design and build of mission-critical pressure controls, we are committed to providing safe and reliable tools for even the most demanding applications. Our in-house engineering team has worked diligently to develop a broad range of user-adjustable pressure switches ideally suited to commercial refrigeration and large-scale chilling operations.

From its durable thermoplastic housing to its environmentally-sealed sensor and robust silver contacts, the Wilspec™ Defender Series™ of Adjustable Pressure Controls will stand up to the rigors of extended use.
The Wilspec™ Titan Series™ of transducers is precisely engineered for outstanding accuracy.

Designed and built.

Wilspec™ is proud to design and build highly-accurate, rugged pressure transducers for applications which require precision and durability.

Our transducers can be found in a wide range of applications:
- HVAC/R
- Aerospace
- Off-Road
- Industrial
- Oil & Gas

Whether you are managing complex environmental systems, safely monitoring critical industrial processes, or looking for the most accurate sensors for a wide variety of media, the width and breadth of Wilspec™ transducer lineup is without parallel.

Titan Series Specifications
Pressure: Vacuum - 60,000 psig / 4137 bar / 413.7 MPa
Electrical: 5 VDC, 12-32 VDC
Output: 0.5-4.5 VDC, 4-20 mA
Performance: 0.5% or 1.0% Accuracy Rating
Life Rating: 10,000,000 Cycles Minimum

Titan Series Options
Solder or Mechanical Pressure Fittings
Electrical Connectors or Wire Leads
Brass or Stainless Steel Housings
RUN CAPACITORS
The Marathon Series

Our compact, low dissipation factor capacitors are typically connected to the auxiliary winding of single-phase (AC) induction motors to improve power factor and running torque. Configured in an explosion proof, oil-filled can, or cost effective plastic case, these products are designed for many years of maintenance-free operation.

Each capacitor is manufactured with our customer’s individual requirements in mind, and built to the highest quality standards in an ISO 9001 certified facility.

Designed and built.
We’re proud of the capacitors we sell. From top-quality film sourced from leading producers to our precision first-rate production facilities, our oil-filled, explosion-proof aluminum can run capacitors are built to withstand the toughest of conditions.

We not only design and build our capacitors to the highest standards, but we test them — repeatedly — in the on-site lab at our Oklahoma City headquarters. Our Engineering team rigorously tests batches of our capacitors to ensure the highest quality, every time.

Marathon Series Specifications
Electrical: 2 to 80 μF; up to 600 VAC
Temperature: -40°C to 70°C, and 85°C
Protection Rating: 10,000 AFC

Marathon Series Options
Single or Dual Core Configurations
Standard or High-Temperature Ranges
Aluminum or Plastic Construction
Quick Connects, Wire Leads and Stud Mounts

The Wilspec™ Marathon Series of metalized polypropylene film capacitors are designed for continuous operation in high volume applications.
Silver contacts are used to guarantee dependable electrical performance over the life of the product. The electro-magnetic coil is specially designed to reduce power requirements in the user control system. The internal construction of the CT Series is manufactured from engineered compounds to provide excellent mechanical life in the most demanding applications.

THE WILSPEC™ COMMANDER SERIES OF DEFINITE PURPOSE CONTACTORS ARE DESIGNED FOR OEM AND END USER MOTOR CONTROL APPLICATIONS THAT REQUIRE A COST-EFFECTIVE, RELIABLE CONTACTOR.

Designed and built.

Premium materials and exceptional build mean exceptional contact, every time.

Wilspec™ Contactors make sure your systems are getting the power they need by providing top-of-the-line electrical components. From our electro-magnetic coil to the durable molded housing, our products are built to make sure you succeed all the time.

We take pride in the reliability of our contactors — pride that we’re providing your products with the power they need. Match that reliability with our competitive costs and we know our contactors are the right fit for your system.

Commander Series Specifications

- Electrical: 20 to 90 Amps
- Life Rating: 0 - 30K - 250K Cycles

Commander Series Options

- 1, 2, 3 and 4 Pole Configurations
- 24, 120, 240, and 480 VAC Coils
- Screw, Box or Pressure Plate Connections
- NO/NC End Switch Kits
Relays

The Charger Series

Specifications:
- Electrical: 5mA to 30 Amps; up to 600 Volts
- Temperature Range: -40 to 70°C
- Live Rating: 0-100,000 to 1,000,000 Cycles

Options:
- SPST, SPDT, DPST, DPDT Configurations
- up to 277 VAC Coils
- Flexible mounting options

Designed and built.

We take pride in the reliability of our relays—pride that we are providing your products with the power they need. From potential relays that control voltage during motor startup, to power relays that control small compressors, motors, heaters and auxiliary components, our designs can be counted on to handle the rigorous demands of your system.

Our Relays employ the latest industry standard flame-resistant plastics and optimized electro-magnetic coils to ensure your success every time.

The Charger Series ensures that you have the power you need.

Wilspec™ offers specially designed relays for HVAC/R systems and other industrial applications to provide reliable and long-life operations. The internal construction of the Charger Series of relays is manufactured from engineered compounds to provide excellent mechanical life in the most demanding applications. Match that reliability with our competitive cost and we know our relays are the right fit for your system.
Wilspec™ Endurance Series of transformers are one of the most critical control box components in the HVAC industry. While their main function of stepping high voltages down to lower control voltages which will extend the life of sensitive switches, thermostats, and controllers seems simple, choosing a high quality reliable transformer can be a difficult task.

Endurance Series of transformers are constructed for high efficiency and are utilized to protect your components.

Designed and built.
Wilspec™ transformers are engineered specifically for the HVAC/R industry. They are optimized to provide long, efficient, and reliable performance while protecting temperature sensitive coils and control components from damaging overvoltage and heat.

Endurance Series Specifications
120, 208-220, 240, 480, and 575 primary voltages
Resettable circuit breaker or standard fuse

Endurance Series Options
Quick connect or wire leaded constructions
Standard or high temperature insulation types
FILTER DRIERS
The Guardian Series

Metal chips, varnish and dirt can wreak havoc on the valves, compressors and small tubes critical to your system’s performance. Guardian series filter driers are designed to remove moisture and contaminants from refrigerants to protect sensitive system parts.

Available in loose core and molded core varieties, with leak-free steel bodies. Wilspec™ Guardian Series filter driers offer superior protection and excellent filtration.

The Wilspec™ Guardian Series of filter driers protect your system from debris, making sure you work at your very best.

Guardian Series Specifications
Capacity: 1 to 50 tons (93.5 kW to 176 kW)
Operating Pressure: 0 to 700 psig (48 bar/4.8 MPa)
Temperature Range: -40°C to 70°C
 Fluids: R22, R134A, R404A, R407C, R410A

Guardian Series Options
Single Direction or Bi-Flow Configurations
Solid Core or Loose Molecular Sieve
Solder or Mechanical Fittings
Steel or Copper Spun

Designed and built.
From design to delivery, our Engineering, Production and Logistics teams take great pride in delivering the very best in system protection.

Wilspec’s™ engineers and drafters set out to design durable, efficient filter driers that will keep your system running safely for years to come.

Our Production team exercises the highest level of craftsmanship in building your filter driers, ensuring that every part exceeds your expectations.

Combined with great shipping and logistical support, our filter driers arrive ready for work in the most demanding systems.
Copper discharge tube, available in straight, offset or candy-cane configurations

Low leakage slide mechanism for smooth switching between heating and cooling

Hermetically sealed brass body ensures leak-free performance

Copper evaporator, suction and condenser tubes available straight or flared

Precision-machined magnetic pilot valve

Designed and built.

For more than a decade, Wilspec™ has been supplying high quality reversing valves to leading manufacturers of heat pumps. We are proud to offer durable, reliable valves for all types of heat pumps.

Our long history with the heat pump industry, and our detailed understanding of the challenges facing the industry, has made us the market leader in geothermal heat pumps.

A Wilspec™ Reversing Valve is the heart of our customers’ heat pumps. The superior design and build of our reversing valves mean our customers know they have a component made for season after season of hard work.

Stealth Series Specifications
Capacity: 1 to 20 tons (3.5 kW to 70 kW)
Operating Pressure: 690 psig / 47.6 bar / 4.8 MPa
Minimum Life: 100K Cycles
Fluids: R22, R134A, R404A, R407C, R410A

Stealth Series Options
5/16” to 1-3/8” Solder Connections
24, 120, 240 and 277 VAC Solenoid Coils
Electrical Connections and Wire Leads

With a precision-machined body and low-leakage slide assembly, the Wilspec™ Stealth Series of Reversing Valves are made for smooth and efficient switching — season after season.

Stealth series valves are designed for residential and commercial heat pump applications. An integrated solenoid coil operates the valve when powered by the user’s control system. Once the solenoid coil is energized, a pilot valve opens to apply system pressure on an internal slide assembly that moves to open and close the appropriate ports.

The brass body and copper tube connections ensure that your application is equipped with a durable, long-lasting solution.
Wilspec™ Refrigerant Ball Valves are forged from brass and precision machined to guarantee optimum refrigerant flow with low close-off torque. The proprietary bi-flow design, utilizing an internal equalization system in the sphere, allows the user to mount the valve in the application without consideration of flow direction.

Each valve features flared copper tubes for efficient brazing of the valves into the refrigerant system. Optional access ports are available with or without an integrated Schrader valve.

Frontline Series Specifications
Operating Pressure: 0 to 700 psig / 48 bar / 4.8 MPa
Temperature Range: -40°C to 150°C
Fluids: R22, R134A, R404A, R407C, R410A

Frontline Series Options
1/4" to 3-1/8 " Copper Connections
Stem Cover
Mounting Bracket

Designed and built.
Bi-directional flow. Precision laser welded body. Quality that means your application keeps its cool.

The engineering of a Wilspec™ Ball Valve is unmistakable. Wilspec™ Refrigerant Ball Valves are just one more product in a family of components which carry on our tradition of engineering excellence.

Your customers rely on your system working every time, without fail. Count on Wilspec™ to be there.
As energy efficiency standards in the HVAC/R industry become more stringent, manufacturers do more with the heat rejected during refrigeration cycle. From innovative auxiliary water to standard defrost applications, customers need better ways to control refrigerant in their systems.

REHEAT VALVES
The Pinnacle Series

Wilspec™ provides industry leading reheat valves for auxiliary circuit control. Wilspec’s™ valves are designed on our legendary RV platform, but feature an innovative capillary tube adapter on the suction side to reduce complications during piping and installation. Wilspec’s™ reheat valves utilize the same leak free brazed construction and high quality seal components along with our lower power coil to reduce energy consumption.

Pinnacle Series Specifications
- Capacity: 1 to 20 Tons (3.5 kW - 70 kW)
- Max Operating Pressure: 690 psig / 47.6 bar / 4.8 MPa
- Minimum Life: 100,000 Cycles
- Fluids: R22, R134A, R404A, R407C, R410A

Pinnacle Series Options
- 5/16” to 1-3/8” Solder Connections
- 24, 120, 240 and 277 VAC Solenoid Coils
- Electrical Connections and Wire Leads

Precision-machined magnetic pilot valve
Low leakage slide mechanism for smooth switching between heating and cooling
Hermetically sealed brass body ensures leak-free performance
Outlet Tubes

From innovative auxiliary water to standard defrost applications, customers need better ways to control refrigerant in their systems.
Wilspec™ Safeguard Series of wire harnesses are completely customized to your needs. We provide you with the product you need, and how you need it.

Wire Types
- UL AWM types
- Jacketed cables
- Automotive Wires
- Halogen free wires and cables

Series Options
- Quick connects
- Wire to board connectors
- Weather resistant connectors
- Environmentally sealed connectors
- Panel mount connectors
- Conduit adapters

Wire Types
- Heat shrink
- Heat resistant tubing
- Braided sleeves
- Corrugated polymer

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