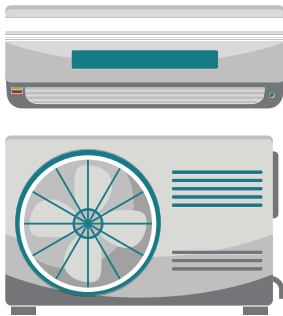


HARNESS THE **HEAT,** **PUMP** UP THE SAVINGS

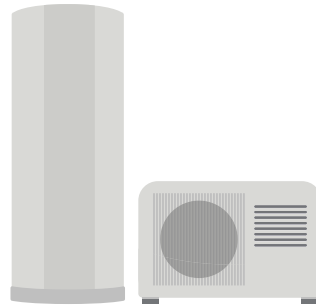
Product Solutions for Heat Pumps

HEAT PUMP YOUR WAY TO EFFICIENT COMFORT

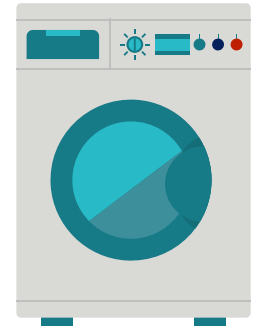
POWERFUL SOLUTIONS FOR
SUSTAINABLE LIVING



Air Sourced
Heat Pump

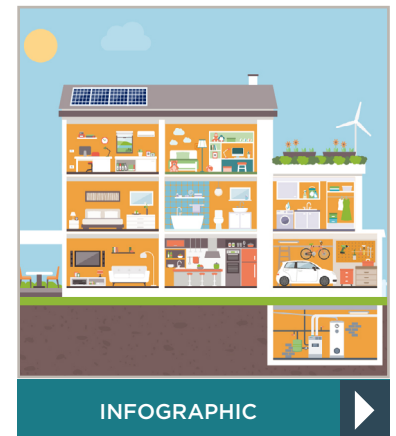


Water Heater
Heat Pump



Clothing Dryer
Heat Pump

ONLINE RESOURCES







CONNECT WITH US




Clean energy is a journey, not a destination. Need help with energy efficient home solutions? Our team of experts are here to help you find the right connectivity solution.

[CONTACT A SPECIALIST ▶](#)

HEAT PUMP MARKET DRIVERS

 <p>Energy Efficiency</p>	 <p>Environmentally Friendly</p>	 <p>Cost Savings</p>	 <p>Convenience / Comfort</p>
<ul style="list-style-type: none"> Heat pumps use very little energy to move heat instead of burning fuel to create heat Under ideal conditions, a heat pump can transfer 300% more energy than it consumes, compared to a high-efficiency gas furnace's 95% rating <p>Source</p>	<ul style="list-style-type: none"> Lower your home's carbon footprint and reduce greenhouse gas emissions Heat pumps create very little carbon pollution and with clean energy they produce zero carbon emissions 	<ul style="list-style-type: none"> Take advantage of any local utility rebates and incentives Upgrading your home to a heat pump water heater is 2-3 times more efficient than traditional water heaters, creating cost efficient yearly savings 	<ul style="list-style-type: none"> Require very little maintenance and can run efficiently and smoothly with just an annual service Heat pumps provide more consistent indoor temperatures and eliminate cold spots because they move air more continuously

GLOBAL HEAT PUMP TRENDS

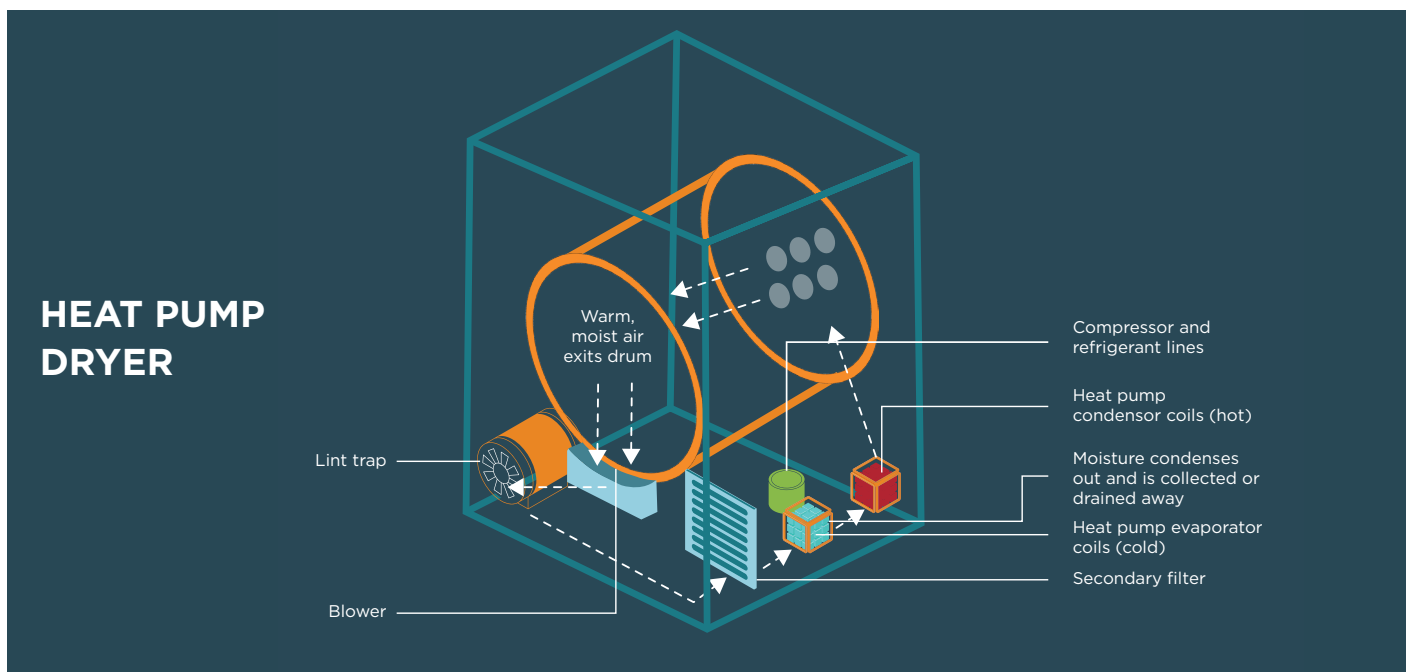
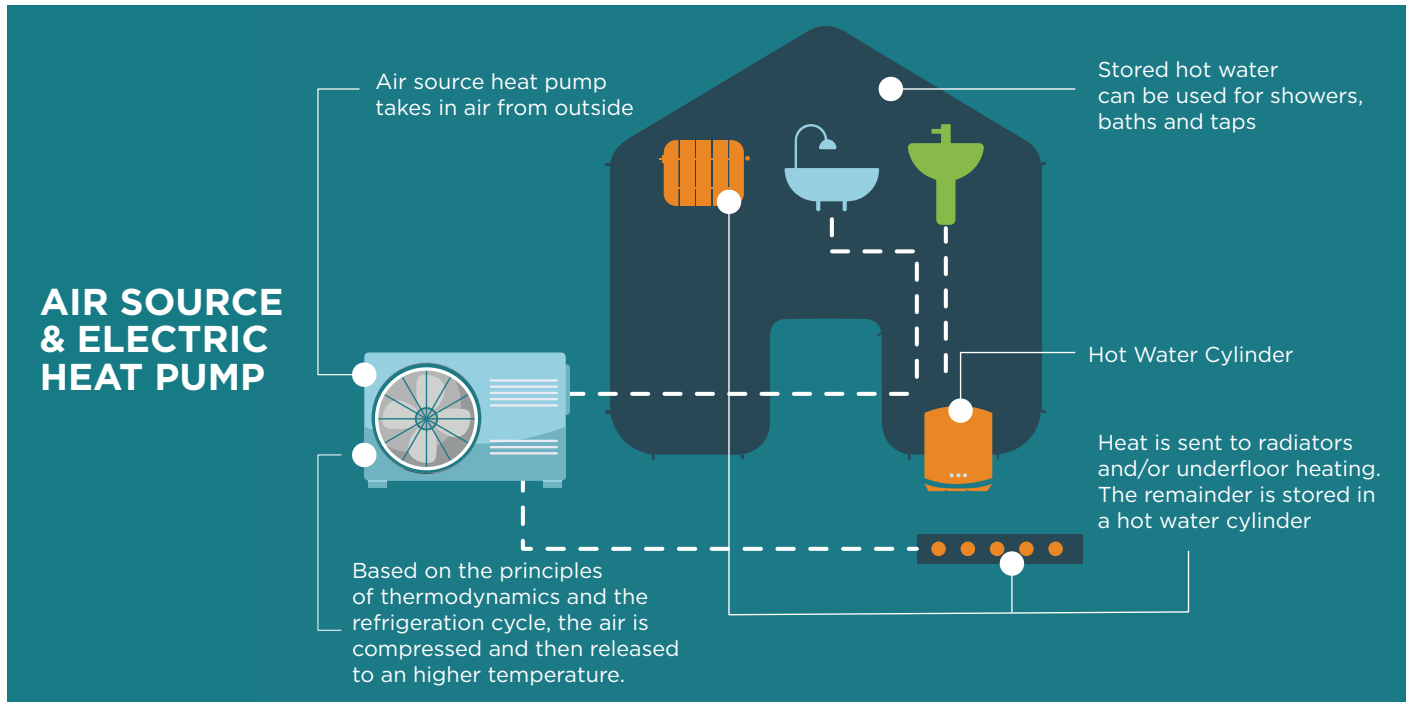
 <p>USA</p>	 <p>JAPAN</p>	 <p>EUROPE</p>
<ul style="list-style-type: none"> The United States Inflation Reduction Act is the largest clean energy investment, providing tax credits to consumers to cover 30% of new clean energies including heat pumps, energy efficient home systems, water heaters and central air conditioning. The US currently leads in residential incentives to upgrade to newer, driving more sustainable clean energy systems across all income levels. <p>Source</p>	<ul style="list-style-type: none"> Japan is transitioning towards cleaner energy solutions with net-zero goals by 2050. By 2030, the country aims to have roughly 40% of total electricity generated from renewable sources. The city of Tokyo is already working towards this goal, requiring all new home builds to have solar panels by 2025. For consumers rewards are available for daily practices, like earning money back on more energy efficient appliance purchases through Rakuten. <p>Source</p>	<ul style="list-style-type: none"> Across Europe, incentives exist for consumers to upgrade to cleaner energy technology, with hints towards larger, more comprehensive plans in the future. EU region is setting a target for installation of heat pumps to help achieve clean energy goals, with 20 million heat pumps looking to be installed by 2026, and 60 million by 2030. <p>Source</p>

HARNESS THE HEAT AND PUMP UP THE SAVINGS

TE CONNECTIVITY HEAT PUMP SOLUTIONS











When it comes to the energy efficiency of heat pumps, they are among the best options available for homeowners. TE Connectivity (TE) is the power behind the system. Our connectivity solutions will keep your heat pump equipment running efficiently in today's connected home. Explore heat pump component solutions by learning more about TE's ingress protection (IP) rated sealed connectors and high performing terminal and splices for extreme temperatures.

HOW DO HEAT PUMPS WORK?



DESIGNING THE FUTURE OF COMFORT:

OVERCOMING HEAT PUMP CHALLENGES WITH TE CONNECTIVITY COMPONENT SOLUTIONS

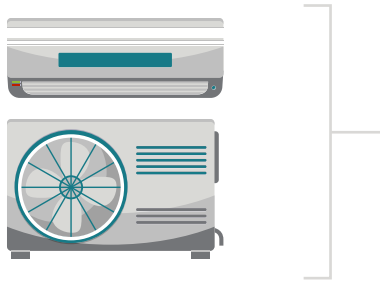
Design Challenges	Connectivity Solution	The TE Solution
 Temperature Extremes	 Protection - Housing and contact materials designed for extreme temperatures	<ul style="list-style-type: none"> Power Versa-Lock Connectors FASTON Terminals POWER TRIPLE LOCK Connectors
 Safety & Compatibility	 Safety - Flame retardant materials, ergonomic design, and insulation protection	<ul style="list-style-type: none"> Economy Power 2.5 Connectors 2.5mm Sealed Signal Double Lock Connectors Power Versa-Lock Connectors
 Efficiency & Performance	 Miniaturization - Compact centerline and smaller construction size	<ul style="list-style-type: none"> Economy Power 2.5 Connectors MAG-MATE Terminals
 Environmental Exposure	 Sealing - Ingress protection (IP) rating for water, dust, and debris in harsh environments	<ul style="list-style-type: none"> 2.5mm Sealed Signal Double Lock Connectors Power Versa-Lock Connectors
 Longevity & Reliability	 Reliability - High power capabilities, locking mechanisms and vibration resistance	<ul style="list-style-type: none"> Hermetic Cluster Blocks FASTON Terminals AMPLIVAR Terminals & Splices

RELIABILITY MEETS INNOVATION

Welcome to the future of heat pump technology, where challenges become stepping stones to innovation. Embrace our space-saving and reliable component solutions, and unlock a realm of unparalleled comfort, sustainability, and performance. Pioneering the future of heat pump technology - choose TE Connectivity as your global partner. Together, let's bring your innovative heat pump ideas to reality!



AIR SOURCED HEAT PUMP



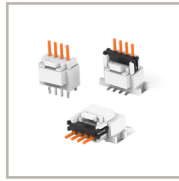
- 1 Fan Motor
- 2 Compressor
- 3 Capacitor / Contactor
- 4 Main Control PC Board
- 5 Power Cord
- 6 Solenoid Valve

CONNECTOR SOLUTIONS



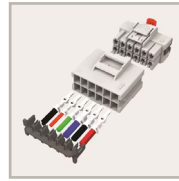
[GRACE INERTIA Connectors](#)

4



[2.0mm Signal GRACE INERTIA Connectors](#)

2 4



[POWER TRIPLE LOCK Connectors](#)

4



[Economy Power Connectors](#)

4



[Economy Power 2.5 Connectors](#)

4 6



[Micro MATE-N -LOK Connectors](#)

2



[2.5mm Signal Double Lock Connectors](#)

4

MAGNET WIRE CONNECTIONS



[AMPLIVAR Terminals](#)

1 2



[MAG-MATE Terminals](#)

1

TERMINAL & SPLICES



[FASTON Terminals](#)

1 2 3 4 6



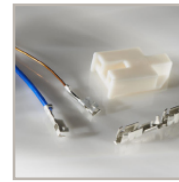
[Ultra-Fast FASTON Terminals](#)

1 3



[Ring terminals & Spade Lugs](#)

1 3 4



[Cluster Block Terminals & Housings](#)

2



[Positive Lock Terminals](#)

4

● New product



HEAT SHRINK TUBING



[DWHE Heat Shrink Tubing](#)

5



[ATUM Heat Shrink Tubing](#)

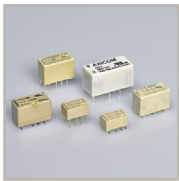
5



[SWFR Single Wall Heat Shrink Tubing](#)

1 4 6

RELAYS



[Low Signal Relays](#)

4



[Power Relays](#)

4



[Power Relays T9V](#)

4

SENSORS



[Pressure Sensors](#)

4



[Isolated Sensors](#)

4



[Thermopiles Sensors](#)

4



[RTD Platinum Sensors](#)

4

SWITCHES



[Tactile Switch](#)

4

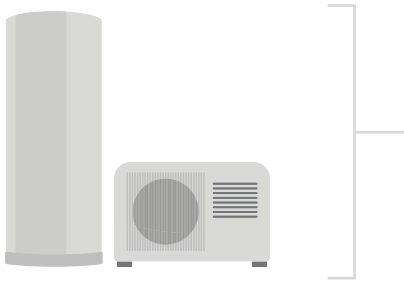


[DIP Switch](#)

4

New product

WATER HEATER SOLUTIONS



- 1 Fan Motor / Pump
- 4 Compressor
- 2 Heating Element / Wire Harness
- 5 Expansion Valve
- 3 Main Control PC Board

CONNECTOR SOLUTIONS



[Power Double Lock Connectors](#)

5



[GRACE INERTIA Connectors](#)

4



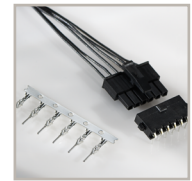
[Economy Power 2.5 Connectors](#)

1 2 3 4



[Economy Power Connectors](#)

5



[Micro MATE-N-LOK Connectors](#)

2



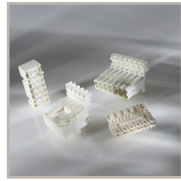
[RAST 2.5: Duoplug MKII Connectors](#)

3 4



[RAST 2.5: Duoplug Power Connectors](#)

3 4



[RAST 5 Connectors](#)

1 3 5



[VAL-U-LOK PLUS Connectors](#)

2



[Universal MATE-N-LOK Connectors](#)

2



[2.5mm Signal Double Lock Connectors](#)

3 4

● New product



TERMINAL & SPLICES



[Hermetic Cluster Blocks](#)

3



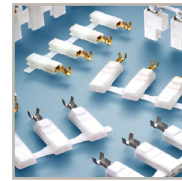
[Ring Terminals and Spade Lugs](#)

3



[FASTON Terminals](#)

1 2 3 5



[Ultra-Pod FASTON Terminals](#)

2 5



[Positive Lock Terminals](#)

1 2 3 5

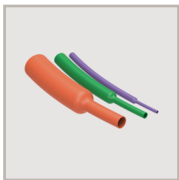
MAGNET WIRE CONNECTIONS



[AMPLIVAR Terminals](#)

1 3

HEAT SHRINK TUBING



[CGPT Heat Shrink Tubing](#)

2



[RW-175 Heat Shrink Tubing](#)

2

RELAY

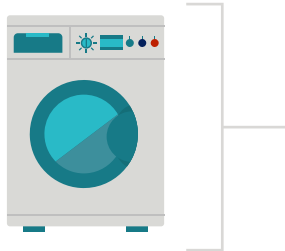


[Power Relay](#)

3

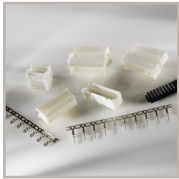
 New product

CLOTHING DRYER HEAT PUMP



- 1 Compressor
- 2 Motor
- 3 Mainboard / Control System
- 4 Expansion Valve
- 5 Drain Pump
- 6 Power Cord
- 7 User Interface

CONNECTOR SOLUTIONS



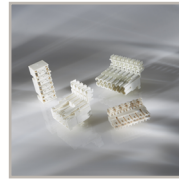
[Economy Power Connectors](#)

- 1
- 2
- 3
- 5



[Economy Power 2.5 Connectors](#)

- 4
- 7



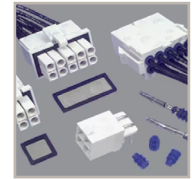
[RAST 5 Connectors](#)

- 1
- 2
- 3
- 5



[Power Double Lock Connectors](#)

- 1
- 2
- 3



[Mini-Universal MATE-N-LOK Connectors](#)

- 2



[RAST 2.5: Duoplug Power Connectors](#)

- 4
- 7



[GRACE INERTIA Connectors](#)

- 7



[HPI Wire-to-Board Connectors](#)

- 7

TERMINAL & SPLICES



[Hermetic Cluster Blocks](#)

- 1
- 2



[Mini AMP-IN Board-in Terminals](#)

- 7



[FASTON Terminals](#)

- 1
- 2
- 3
- 5
- 6



[Positive Lock Terminals](#)

- 2
- 6



[Ring Terminals and Spade Lugs](#)

- 6

MAGNET WIRE CONNECTIONS



[AMPLIVAR Terminals](#)

- 1
- 2

New product

te.com

TE Connectivity, TE Connectivity (logo), TE (logo), AMP DUOPLUG, MATE-N-LOK, POWER TRIPLE LOCK, VAL-U-LOK, GRACE INERTIA, Power Versa-Lock, AMP-IN, MAG-MATE, AMPLIVAR, FASTON, Positive Lock, VERSAFIT and ATUM are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

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