

BOSCH RESIDENTIAL GEOTHERMAL HEAT PUMPS

www.bosch-climate.com

INDEX

| | |
|------------------------------|-----|
| AIR HANDLING UNITS — UNITARY | |
| DX SERIES | 5-6 |
| HYDRONIC SERIES..... | 5-6 |
| HEAT PUMPS | |
| GEO 1000 WA | |
| BP SERIES..... | 5-4 |
| GEO 3000 WA | |
| CE SERIES..... | 5-5 |
| CP SERIES..... | 5-4 |
| GEO 6000 WA / WW | |
| TA SERIES..... | 5-5 |
| TW SERIES | 5-6 |
| OVERVIEW..... | 5-2 |
| PRODUCT NOMENCLATURE..... | 5-3 |

*This section contains product information only. For technical data please visit vendor website.
For pricing and availability please contact your ECCO Supply Sales Representative.*

Also available, Commercial Geothermal Heat Pumps.
Visit www.fhp-mfg.com for more information.

ECCO is proud to be a member of:



HRAI
Heating, Refrigeration and
Air Conditioning
Institute of Canada
www.hrai.ca



HARDI
Heating, Air-conditioning
& Refrigeration
Distributors International
www.hardinet.org



SMACNA
Sheet Metal and Air
Conditioning Contractors'
National Association
www.smacna.org



SPIDA
Spiral Duct
Manufacturers
Association
www.spida.org



CIPH
Canadian Institute
of Plumbing &
Heating
www.ciph.com

BOSCH RESIDENTIAL GEOTHERMAL HEAT PUMPS

www.bosch-climate.com

OVERVIEW

A Geothermal Heat pump uses the relatively constant temperature of the earth (thermal energy) to provide heating, air conditioning and hot water. Ground and water temperatures, 6 feet below the earth's surface, stay relatively constant throughout the year. This allows the system to provide extremely efficient heating or cooling all year long in virtually any climate.

Advantages:

- Lower Operating Cost
- Flexibility and Comfort
- Environmentally Friendly
- Reliability
- Quiet Operation



GEO 1000 WA BP SERIES

Get more value for your money with the Geo 1000 WA product family, available in ½ through 6 tons, in either vertical or horizontal configurations.



GEO 3000 WA CP SERIES / CE SERIES

The Geo 3000 WA family with the single stage CP series along with the two stage CE series is engineered for powerful yet quiet operation.



GEO 6000 WA/WW TA SERIES / TW SERIES

The TA Water to Air Series is luxuriously designed holds the Energy Star as "2011 Most Efficient" award. The TW Series Water to Water Series is not only highly efficient but also some of the quietest in the market.

GEO TW122

The TW122 10 ton, high efficiency water to water product meets the current Energy Star tier 3 efficiency standards.



AIR HANDLING UNIT

The Bosch Air Handling Unit for the Retrofit Market with Additional Space Savings.



CONTROLS

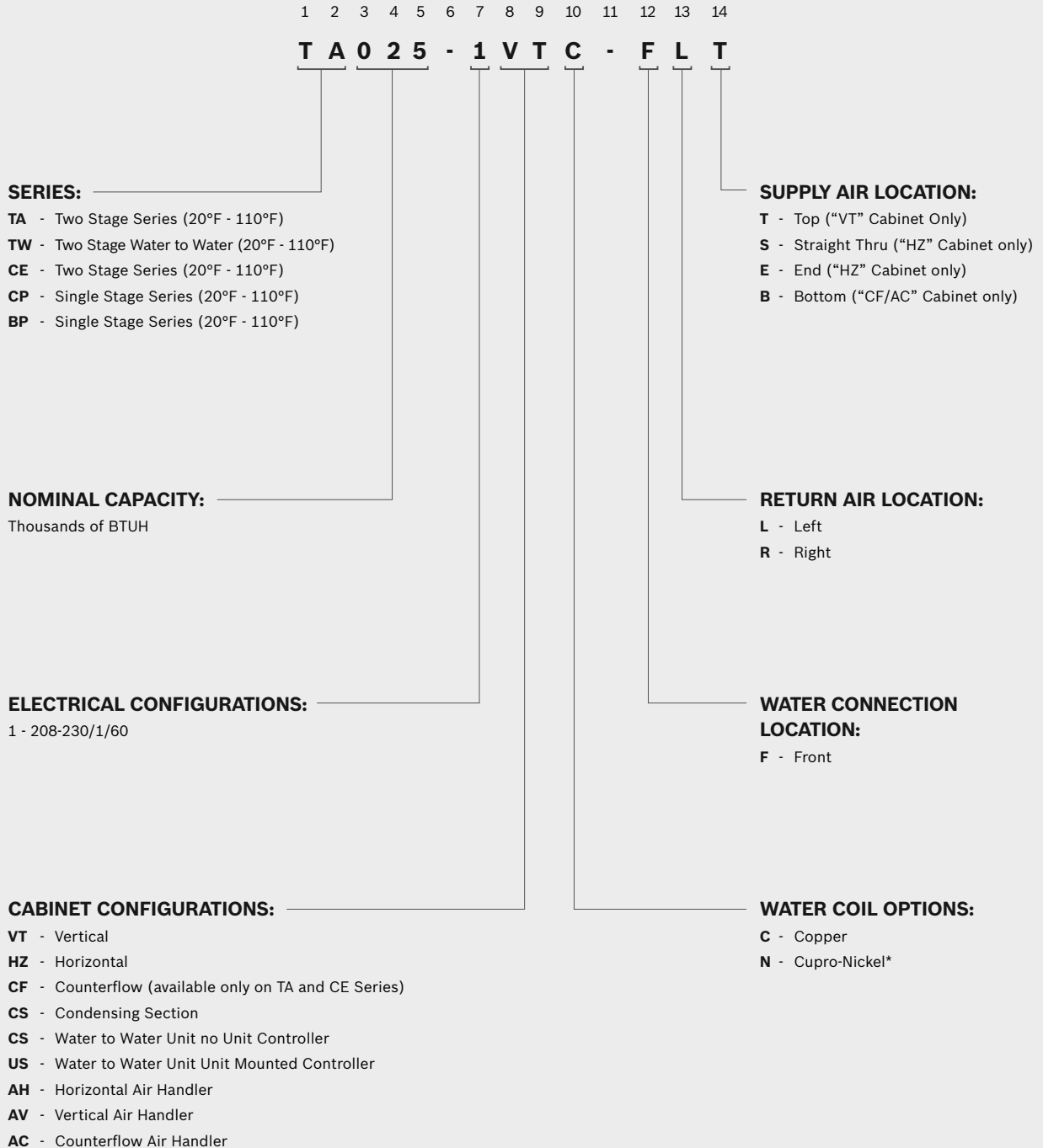
Unit Protection Module (UPM) and Digital Direct Controls. All controls are conformal coated for environmental protection.

Contact your ECCO Supply sales representative for pricing and additional information.

BOSCH RESIDENTIAL GEOTHERMAL HEAT PUMPS

PRODUCT NOMENCLATURE

Model Nomenclature Vertical, Horizontal, Counterflow, Splits and Water to Water Units



*Note: Only coils and straight lengths of pipe are cupro-nickel. All fittings will be copper.

- E.&O.E. - All Prices F.O.B. Our Warehouse - Subject to Change Without Notice - All Taxes Extra - May not be Available at All Branches -

BOSCH RESIDENTIAL GEOTHERMAL HEAT PUMPS

www.bosch-climate.com

GEO 1000 WA

BP SERIES

Get more value for your money with the Geo 1000 WA product family. Available in 1/2 through 6 tons in either vertical or horizontal configurations.



*Only coils and straight lengths of pipe are cupro-nickel. All fittings will be copper.

Electrical characteristics:
-1 is 208-230/1/60

**Extended Range option includes wrapped condenser

- ▶ R-410a refrigerant
- ▶ Schrader access ports
- ▶ Condensate overflow switch
- ▶ UPM (Unit Protection Module)
- ▶ Galvalume cabinet and front panels
- ▶ Duct flange connections for the supply and return
- ▶ Four sided 2"/1" filter rack with 1" filter
- ▶ Lockout circuit & 75VA transformer
- ▶ Horizontal packaged units include hanging brackets
- ▶ ECM blower motors (BP015 - 070)
- ▶ PSC blower motors (BP007 - 012)
- ▶ Floating compressor base pan



GEO 3000 WA

The Geo 3000 WA family with the single stage CP Series along with the two stage CE Series is engineered for powerful, yet quiet operation.

CP SERIES

Single stage units are available from 2 to 6 tons offering best-in-class operational cost savings. The CP Series is equipped with a sound package making the units one of the quietest on the market.



*Only coils and straight lengths of pipe are cupro-nickel. All fittings will be copper.

Electrical characteristics:
-1 is 208-230/1/60

- ▶ R-410a refrigerant
- ▶ Schrader access ports
- ▶ Condensate overflow switch
- ▶ Fully insulated for geothermal applications
- ▶ UPM (Unit Protection Module)
- ▶ Galvalume cabinet with silver brushed aluminum front panels
- ▶ Duct flange connections for the supply and return
- ▶ Four sided 2"/1" filter rack with MERV-11 filters
- ▶ Floating compressor base pan and compressor blanket
- ▶ Lockout circuit & 75VA transformer
- ▶ Horizontal packaged units include hanging brackets
- ▶ ECM blower motors



BOSCH RESIDENTIAL GEOTHERMAL HEAT PUMPS

www.bosch-climate.com

GEO 3000 WA (cont'd)

CE SERIES

The CE Series is available in vertical, horizontal and split configurations. It is equipped with a sound package, a two stage compressor and ECM motor resulting in additional energy savings of up to 60% and a greater level of comfort throughout the year.



*Only coils and straight lengths of pipe are cupro-nickel. All fittings will be copper.

Electrical characteristics:
-1 is 208-230/1/60

- ▶ R-410a refrigerant
- ▶ Schrader access ports
- ▶ Condensate overflow switch
- ▶ Fully insulated for geothermal applications
- ▶ UPM (Unit Protection Module)
- ▶ Galvalume cabinet with silver brushed aluminum front panels
- ▶ Duct flange connections for the supply
- ▶ Floating compressor base pan and compressor blanket
- ▶ Deluxe 2" return air filter rack with MERV-11 filters
- ▶ Horizontal packaged units include hanging brackets
- ▶ Copeland Ultratech™ two stage unloading compressor
- ▶ ECM blower motors
- ▶ 75VA transformer



GEO 6000 WA / WW

The ultimate in performance. This product family includes the TA Series as one of the most efficient and quietest water to air units on the market as well as the TW Series for water to water applications.

TA SERIES

Two stage unit available from 2 to 6 tons and features quiet comfort while its energy efficiency makes it the best-in-class in operating cost savings.



*Only coils and straight lengths of pipe are cupro-nickel. All fittings will be copper.

Electrical characteristics:
-1 is 208-230/1/60

- ▶ R-410a refrigerant
- ▶ Schrader access ports
- ▶ Condensate overflow switch
- ▶ Fully insulated for geothermal applications
- ▶ Comfort alert diagnostic module
- ▶ Black vinyl cabinet with silver brushed aluminum front panels
- ▶ Floating compressor base pan and compressor blanket
- ▶ Deluxe 2" return air filter rack with MERV-11 filters
- ▶ Horizontal packaged units include hanging brackets
- ▶ Copeland Ultratech™ two stage unloading compressor
- ▶ ECM blower motors
- ▶ 75VA transformer



– E.&O.E. – All Prices F.O.B. Our Warehouse – Subject to Change Without Notice – All Taxes Extra – May not be Available at All Branches –

BOSCH RESIDENTIAL GEOTHERMAL HEAT PUMPS

www.bosch-climate.com

GEO 6000 WA / WW (cont'd)

TW SERIES

This water to water unit with its exclusive design boasts industry leading efficiency at full load heating and cooling, but is even more efficient during part load operation.



*Only coils and straight lengths of pipe are cupro-nickel. All fittings will be copper.

Electrical characteristics:
-1 is 208-230/1/60



- ▶ Refrigerant R-410a
- ▶ Copeland Ultratech® two stage compressor
- ▶ Floating base pan and compressor blanket
- ▶ Black vinyl cabinet with silver brushed aluminum front panels
- ▶ Comfort alert diagnostic module
- ▶ Schrader access ports, high & low pressure switch, and lockout circuit
- ▶ UPM unit protection module standard in -CSC, -CSN models
- ▶ Unit mounted controller standard on -USC, -USN models
- ▶ Single point electrical connections
- ▶ 75VA transformer

AIR HANDLING UNITS — UNITARY

HYDRONIC SERIES

This water to water unit with its exclusive design boasts industry leading efficiency at full load heating and cooling, but is even more efficient during part load operation.

All models come without the Filter base. Please consult the Accessories table for choosing the Filter Base Kit.

Electrical characteristics:
-1 is 208-230/1/60



- ▶ ECM 2.3 Constant CFM Motor
- ▶ 4-way multiposition, accessory kit required for downflow applications
- ▶ 1" cabinet insulation
- ▶ Powder coated doors and top panel
- ▶ Hydronic connections on top
- ▶ Electrical connections on top or sides
- ▶ Plenum collar on supply outlet
- ▶ High temperature, UV approved plastic drain pans

Hydronic Series can be combined with the TW Series Water to Water Unit.

DX SERIES

All models come without the Filter base. Please consult the Accessories table for choosing the Filter Base Kit.

Electrical characteristics:
-1 is 208-230/1/60



- ▶ Energy Star Tier 3 compliant when paired with Bosch Condensing Sections (TA and CE Series)
- ▶ ECM 2.3 Constant CFM Motor
- ▶ 4-way multiposition, accessory kit required for downflow applications
- ▶ 1" cabinet insulation
- ▶ R410a bi-directional TXV with 15% bleed
- ▶ Powder coated doors and top panel
- ▶ Electrical connections on top or sides
- ▶ Plenum collar on supply outlet
- ▶ High temperature, UV approved plastic drain pans

DX Series can be combined with the TA or CE Series Two Stage Split System Heat Pump, Condensing Section.

– E.&O.E. – All Prices F.O.B. Our Warehouse – Subject to Change Without Notice – All Taxes Extra – May not be Available at All Branches –