



Bosch Geothermal Heat Pump Light Commercial Installation Case Study



BOSCH
Invented for life

Greensource CDi Series
Model SM048-1 VTC-SLTA

UP TO	UP TO
32.0	22.0
EER Part Load	EER Full Load

Project Goals:

- ▶ Quiet Operation
- ▶ Energy Savings
- ▶ Reliability

Background

Advanced Heating Technology, Inc. has over 25 years of geothermal experience as a Delaware, Maryland and Washington D.C. distributor for Bosch geothermal heat pumps. President John Jankus explained that the end-user, T&T Contracting, had a Florida Heat Pump unit in his personal residence, and decided to upgrade a new warehouse space in Marydel, Delaware, with the new Bosch Greensource CDi Series, Model SM-048 four-ton unit. His primary goals were energy savings, quiet operation and reliability of the comfort heating system.

Installation Details

T&T Contracting built a new 3,000 sq ft office and warehouse for their masonry business. Mechanical contractor Eastern Shore Energy, Inc. of Wyoming, DE, performed the installation in February and March of 2013. Mechanical contractor Fred Ellingsworth replaced an old geothermal unit with the Greensource unit in an attic area above the warehouse space.

He dug a 125-ft long horizontal geothermal loop laying about 800 ft of PEX piping. Fred commented that the Greensource is “a very nice unit and it provides quiet operation along with energy savings.” He gave the unit high marks for its field-configurable air supply, clear LCD display, access to components, and easy to understand installation instructions.

Summary and Results

Bosch Greensource is recognized as the most efficient heat pump system by ENERGY STAR in 2013, rated Tier 3, making it eligible of a 30% tax credit (see details at boschheatingandcooling.com). The customer at T&T Contracting is pleased with the small footprint, quiet performance and efficiency of their new Greensource geothermal heat pump. lower water volume in the loop. Optional Geo-Prime tank regulates the volume of water to maintain optimal fluid level and pressure throughout the geothermal system, thus preventing the possibility of damage or even water pump burnout.



- ▶ **Contractor:**
Advanced Heating & Cooling
- ▶ **Specifier:**
Eastern Shore Energy, Inc.
- ▶ **Contact:**
Fred Ellingsworth
T & T Contracting, Marydel, DE
- ▶ **Installation Location:**
Marydel, DE