

## VANITY FAIR CORPORATION

WORLD HEADQUARTERS  
Greensboro, North Carolina



### Project Overview

In September 2011, Vanir Energy completed a solar thermal system for Vanity Fair Corporation's corporate headquarters in Greensboro, North Carolina. VF Corp is using the solar thermal hot water to augment their need for domestic hot water, building space heating, and their air-conditioning reheat loop. VF Corp is one of the world's largest apparel companies, with brands such as Wrangler, Lee, Nautica, and The North Face. They have made a strong commitment to sustainability by reducing their dependence on natural gas resources; instead, relying on clean, renewable energy from the sun to provide for their hot water needs.

This project was brought to Vanir Energy through our local dealer, Central Carolina Air Conditioning. Utilizing CCAIR as a mechanical sub-contractor, Vanir designed, engineered, and installed 60 roof-mounted Ritter XL evacuated tube collectors with concentrating parabolic mirrors. These collectors produce more BTUs per square foot across a wider range of weather conditions than any other certified solar thermal collector. A unique advantage of using Ritter XL evacuated tube solar collectors is the "Aqua System" technology that utilizes water as the heat transfer medium in the solar collectors with absolutely no concentration of glycol.

Working collaboratively with VF Corp facility engineers, Vanir Energy provided a solar thermal system that pre-heats the water before it enters the building boilers. When solar hot water is available at a temperature above the boiler set-point, the boiler does not fire, reducing the need for fossil fuels to heat hot water across multiple delivery points within VF Corp headquarters.

By implementing this technology, VF Corp has taken crucial steps towards reducing their impact on the environment and set an example for others to follow. On cool sunny days the panels can generate 100% of hot water requirements- replacing backup boiler generation, and offsetting 2-3 thousand cubic feet of natural gas per day.



### PROJECT INFORMATION

**Client:**

Vanity Fair Corporation  
World Headquarters  
Greensboro, North Carolina

**Summary:**

- Powered by 60 CPC Ritter XL evacuated tube collectors
- Ballast roof-mount racking system
- 618 gallons of hot water storage
- Offsetting approximately 10,000 therms of natural gas annually

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