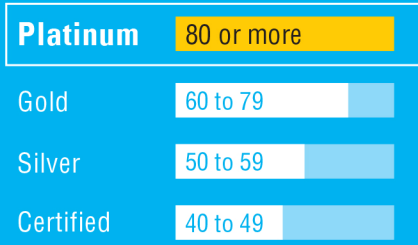


# Marks and Spencer



## LEED



## Certification Document



## Project Outline

Location	Delhi
Number of floors	2
Total floor space	1,858 m <sup>2</sup>
Construction	2011
Application	Retail store
Further details	<a href="http://global.marksandspencer.com/in/">global.marksandspencer.com/in/</a>

## Daikin Systems Installed

- Air conditioning systems  
**VRV** III heat pump type outdoor units x 7 (total 96 HP)
- Ventilation  
Heat reclaim ventilation units x 2
- Control systems  
intelligent Touch Controller x 1

## Project Overview

Marks and Spencer is a major British multinational retailer specialising in clothing, home products and luxury food items. Its Delhi store boasts a host of sustainable features, including heat transmitting glass which cuts UV ray penetration by 90%, helping to stabilise temperatures.

It is also equipped with solar reflective tiles which work with its Energy Star certified equipment to keep the interior cool. Additional green features include rain water harvesting, dedicated recycling bins and the use of rapidly renewable raw materials such as engineered wood.

## Why **VRV**?

### Water-Cooled Package Vs. Air-Cooled

This project called for a comparison of water-cooled package and air-cooled systems. Water-cooled units can effectively control individual zones if centralised controllers are installed. However, they require a compressor pump and power source plus a cooling tower and boiler. Air-cooled systems can also easily turn on and off to control zones and have fewer additional requirements.