

Smart Technologies in HVAC

Each of us enjoys modern house equipment that provides a comfortable environment. In general, all these devices that are responsible for making our homes warm, cozy, and full of fresh air are called HVAC. That abbreviation refers to the main functions they perform which are heating, ventilation, and air conditioning as well. The origin of first HVAC systems roots in the early XX century. For a while, they stayed as-is but time doesn't stand still, and today, we can talk about a new generation of HVAC products that are already available on the market.

Do you know what are [smart HVAC systems](#) and what technologies are used for their implementation? We haven't any idea too before we have asked real pros from the Euristicq company to tell us about them. So, we gladly share the facts we learned with you in this article.

What Are Smart HVAC Devices and What's Their Difference from Your AC or Heater?

The first thing that we need to consider is what's the difference. It seems that both smart heaters and conventional ones are intended to heat the air and provide you with warmness, and ACs, similarly, cool it and provide air circulation. That's true but there is one thing that distinguishes smart systems as a whole. That is an implementation of AI and IoT technologies in the design and manufacturing of these devices.

The result is amazing as modern smart HVAC systems get several new features for their successful operation. These are as follows:

- Higher energy efficiency due to smart operation.
- Simple management and accurate adjustments to your needs.
- Remote control for the most comfortable environment.
- Integration of all the devices in one effective system.
- Including Wi-fi control.

What Technologies Are Used in HVAC to Make It Smart

That innovation is based on two main technologies that offer higher performance as a result.

1. Cloud technologies that provide storage of all the data collected and operated by smart HVAC devices.
2. IoT aka the Internet of things. This technology offers the integration of all the devices into a system using a wireless connection and remote control for better and more accurate adjusting of their work.

Typically, modern smart HVAC system besides the number of devices that provide heating/air cooling functions consists of the following parts:

- Smart thermostats that gather information about climatic conditions in the room where they are installed.
- Cloud server that works as a hub to store and process the data collected by thermostats.
- Remote controllers that provide the regulation of the HVAC devices work.
- A mobile device that performs the functions of a remote controller. There are special applications provided by a smart HVAC manufacturer that provide the control and adjustments for the whole HVAC system and each of its parts.

That combo of elements helps homeowners to maintain a comfortable climate in their homes even if they are outdoors or somewhere far away. The simplest example of the working process of a smart HVAC system is when you are going home from your office you can command your HVAC system to turn the heater on and to heat the room to a certain temperature so that when you enter your home, you will feel the comfort and warmth in full.

Some Tips About the Choice of a Company to Get Smart HVAC Systems

When you decide to get and install a smart HVAC system in your home, it is crucial to choose the contractor who will provide these services tip-top with a guarantee. To do that, better apply to professionals who have a high reputation in the market. Even if other companies offer lower prices, better analyze the market and the reviews on each smart HVAC provider. That may help you to get top-notch equipment for your home that will perform great for a long time.



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