ACH580 drives for HVAC

Comprehensive comfort control with variable speed drives that ensure reliable and effortless operation of your HVAC applications

Comfort. It’s something we take for granted in the buildings we live and work in. But comfort requires efficient systems controlling heating, ventilation, air conditioning and cooling (HVAC/R) to ensure the air we breathe is pure and the temperature is comfortable. We also need to ensure air quality in the most energy-efficient and cost-effective way – as well as safety – in both normal and mission-critical situations.

For half a century, ABB has been leading the way in optimizing HVAC systems using drive control to ensure that you can take comfort for granted. The new ACH580 series of variable frequency drives (VFDs) provide the quality, reliability, and energy savings you expect, and are easy to use and safe to maintain. All you need to do is to set the drive up, and then focus on what counts.

Major benefits

* All hardware in one package
* Wide power range
* Multiple enclosure types available
* Main switch option
* Easy to select, install, commission and use
* HVAC-specific features integrated as standard
* Intuitive control panel with optional Bluetooth capability for better accessibility
* Various languages and communications built inside
* Reliable connectivity with major automation and control systems
* Control of a wide range of motors for any HVAC application
* Based on ABBs all-compatible drive platform
* Optimized energy efficiency
* Wide availability and support

ACQ580 - drives for water and wastewater

Secure energy efficient flow of water and wastewater in your pumping solution

The all-compatible ACQ580 drives for water and wastewater simplify your pumping processes and motor control while ensuring effortless energy efficiency. This robust and compact wall-mounted, drive module and cabinet-built drive has built-in pump application functionalities such as sensorless flow calculation, multipump control, level control, soft pipe fill, dry run protection, quick ramps and a solution for keeping the impeller of the pump clean. Usability is enhanced with the intuitive Hand-Off-Auto control panel and the PC tool Drive composer. The built-in energy calculator visualizes the energy savings achieved with the usage of the drive. The drive controls virtually any kind of motor including an IE4 synchronous reluctance motor. Connectivity is supported by a wide range of fieldbus protocols. The drive also offers an [ultra-low harmonic variant](https://new.abb.com/drives/low-voltage-ac/industry-specific-drives/acq580/securing-the-flow-of-water-without-the-inconvenience-of-harmonics)ensuring stable and smooth power network during water treatment and operation.

* 0.75 to 500 kW, 380 to 480 V
* IP00, IP20, IP21, IP42, IP54 and IP55 enclosure classes allows installation on walls, into cabinets and as free standing drive modules
* Built-in energy saving calulator and pump functionalities secure optimal pump operation
* Supports IE4 synchronous reluctance, asynchronous induction and permanent magnet motors
* Connects to a wide range of water and wastewater control systems
* Our local partners provide wide availability of service and support