ABB drives for HVAC
ACS320, 1.2 to 50.8A

The compact ACS320 will save energy throughout your pump and fan HVAC applications. From booster pumps, exhaust and condenser fans to supply and return fans, the drive’s built-in HVAC features such as embedded BACnet (MS/TP) ensure easy and complete integration into building management systems.

Making HVAC user friendly
The preprogrammed application macros and easy to use control panel make installation and drive setup simple. The control panel on the ACS320 uses HVAC terms and units, removing any guess work, and comes with 18 languages built-in. The unified height and depth of the drive frame sizes minimizes needed installation space.

Energy savings
With energy savings of up to 70 percent, the ACS320 can help to attain sustainability targets. The drive’s energy optimizer tunes the drive’s performance to help save even more energy. Built-in energy efficiency calculators monitor the energy used and saved. The savings are shown in kilowatt-hours and in local currency. Carbon dioxide (CO₂) emission reductions are also shown.
Complete HVAC functionality
The ACS320 comes standard with four embedded communication protocols, including BACnet (MS/TP) for easy integration into building management systems. Built-in real time clock and timers help you optimize energy use. The drive provides full output current at ambient temperatures of up to 50 °C without derating. Built-in software for controlling common HVAC applications includes:
• 2 PID controllers
• Timers with real time clock
• Pump and fan control
• Cooling fan control
• Pump cleaning
• Underload (broken belt) detection
• Pump protection
• Sleep function
• Pipe fill (precharge)

Typical applications for the ACS320 include:
• Supply and return fans
• Condenser fans
• Exhaust fans
• Fume hood fans
• Booster pumps
• Submersible pumps

Easy to order
The drive can be ordered with a blank panel, the basic control panel, or can be ordered with the advanced HVAC control panel. These three packages simplify the ordering process.

Advanced PC tool
The DriveWindow Light 2 PC tool can be used to monitor process performance or to set and tune drive parameters. It can also be used in offline mode to configure drive parameters before the drive installation on site.