

# Delphi HVAC Modules

## ► Description

Delphi's Heating, Ventilation, and Air Conditioning (HVAC) Modules are integrated units designed to filter, condition and deliver air in support of vehicle interior comfort and convenience. They bring together:

- Air filtering and delivery components
- Delphi patented aluminum heat exchanger technologies
- Air temperature and distribution components

HVAC Modules can be customized for any vehicle design and application. A full range of options include:

- Automatic electronic control
- Multi-zone individual air and temperature control
- Rear air temperature and distribution
- Auxiliary heating system components

## ► Benefits

- Optimized climate control feature, function and performance
  - Provide passenger comfort
  - Full range of features and functionality
- Vehicle integration and application expertise
- Architecture that supports cockpit assembly and integration
- Designs result in significantly fewer parts than other available designs
- Blower fan technology for optimized energy consumption
- Multiple air distribution options for design and system flexibility
- Air particulate and odor filtration systems for improved comfort and convenience



**Delphi HVAC Module**

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## ▶ Typical Applications

Delphi currently supplies HVAC units for a wide range of vehicles, from the commuter/mini segments of Asia to the premium sports cars of Italy. Applications also include light, medium and heavy duty trucks and off-road agricultural/construction related vehicles.

## ▶ Performance Advantages

Delphi's advanced HVAC Modules are designed for world class performance, reduced size, and lower mass. Our passenger cool-down and warm-up rates are among the best in the industry because each component is engineered to maximize system efficiency in each application. Delphi provides optimized HVAC Modules for your vehicle through the use of computer-aided engineering tools, such as

- A proprietary Virtual Thermal Comfort Engineering Program
- Computational fluid dynamics (CFD)
- Finite element analysis (FEA)
- Systems simulation

Delphi has always been a leader in thermal management in general and HVAC Modules in particular. Our technology in compact heat exchangers, valving, controls, airmix and air moving enhances our leadership position by bringing our customers superior performance per unit of output.