

Communiqués

Sep 18, 2003 | ID: 753

Interior climate control the key to safe, comfortable winter driving

For immediate release

Effective interior climate control plays an important part in safe winter driving because when you're hot, Volvo researchers have discovered, you're not.

Beyond keeping the windows and mirrors free of ice and snow, the climate control system should regulate interior temperatures to a comfortable level. But it's possible to be too cozy inside your car. Being too warm can jeopardize driving safety.

A Volvo Car Corporation research project examined two groups of test drivers over the same route, with two different temperatures inside the cars. The temperature in the first car was 70° F (21° C); the second car was kept at 80° F (27° C). The number of mistakes and missed actions were dramatically higher for the drivers operating in the higher temperatures. It is clearly more than a summer issue; similar dangers exist for drivers operating in excessively high temperatures inside cars in winter.

The highly advanced Volvo Electronic Climate Control (ECC) system helps maintain comfortable temperatures through the use of two temperature sensors, a solar sensor and a sophisticated interaction with the system's computer. The climate control computer not only determines how the air is to be heated, it determines where it should be sent in the passenger compartment to produce comfortable temperatures and to remove mist from inside windows in the shortest possible time. More than 90 per cent of Volvo cars are equipped with the ECC system.

At temperatures above 37° F (3° C), the system employs the air conditioning system to act as a dehumidifier to remove moisture from interior windows more quickly. A duct in the forward edge of the dash directs warm air to help keep windshield wipers free from ice. Heat is also distributed to the floor and windows to dissipate moisture brought into the car on snowy shoes. The newest versions of the system employ high-level air vents in the cars' B-pillars to de-mist windows in winter and provide cooling air to rear seat passengers in the summer.

Volvo climate control systems are designed to be simple and easy to operate, with clear, logical symbols and controls that can be operated with gloves on. In the automatic mode, the ECC system can maintain the desired temperature selected by the driver, adjusting fan speed and air distribution to match the conditions.

On wintry mornings, it is always good policy to remove snow and ice from the windows and around mirrors before getting behind the wheel. Once the engine is started, simple, one-button controls activate the rear window and sideview mirror heaters. Available driver and front passenger seat heaters are also activated by one push of a button, and offer two-level heating. The Volvo interior warms up quickly: the climate control system begins to produce heat once the engine coolant temperature has reached 95° F (35° C).

The quality of the air inside the car is also an important comfort and health factor. Since cold temperatures have a negative effect on fuel combustion, the ambient air outside the car contains more unburned particles from other vehicles during the winter than in the summer. Like other cars built on the Volvo large car platform, the S60 AWD is equipped with effective filters for incoming air.

In cars equipped with ECC, an optional air quality system includes a gas filter with active carbon, which purifies both re-circulated air from the cabin and air coming in from the outside.

The system also features a sensor that detects gases such as nitrogen oxide, ground-level ozone and hydrocarbons in the air, and can direct the system to block incoming air. The system is time-controlled to minimize the risk of the windows 'fogging'. Occupants are protected from unpleasant and harmful vapors from gasoline, diesel, washer fluid and oil. The system also monitors the carbon monoxide content of incoming air and closes the air vents before carbon monoxide reaches unhealthy levels, such as when following trucks, driving in heavy traffic or in tunnels.

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Contact:

Lisa Graham
(416)490-5834

Doug Mephram
1-877-975-1572

Mots clés:

XC60, Design, Exterior, Images, 2010, S60, Images, 2008, C70, Images, 2008, 145, Historical, Images, 1967, S60, Exterior, Images, 2011, S60, Exterior, Images, 2011, 2012, XC90 (2002-2014), Exterior, Images, 2013, S60, XC60, Motor Shows, Technology, Video, 2014, S40, S80, V50, XC60, XC70, C30, Environment, Motor Shows, Press Releases, 2010, XC90 (2002-2014), Other, Images, 2011, S60, Interior, Images, 2011, Safety, Environment, Motor Shows, Technology, Press Releases, 2012, 2013, XC60, Exterior, Images, 2012, S40, Interior, Images, 2007, V50, Images, 2008, XC60, Safety, Images, 2009, 2010, XC70, Images, 2008, C70, Exterior, Images, 2012, S60, S80, Environment, Events/Activities, Detail, Images, 2012, Safety, Other, Images, 2012, XC90 (2002-2014), Interior, Detail, Images, 2013, Concepts, Exterior, Images, Volvo S60 Polestar Concept, Exterior, Images, 2015, S60, XC60, Motor Shows, Video, 2014, C70, Exterior, Images, 2008, 164, Historical, Press Releases, 1968, S60, Interior, Images, 2011, Environment, Video, 2011, Concepts, Exterior, Images, Volvo Concept Universe, XC60, Technology, Events/Activities, Exterior, Images, 2015, Images, 2005, 2006, 2007, Historical, Exterior, People, Images, 1956, P120 Amazon, XC90 (2002-2014), Technology, Design, Detail, Other, Images, 2007, 2008, 2009, XC70, Images, 2009, 2010, S60, Motor Shows, Press Releases, 2011, S60, Life Style, Motorsport, Exterior, Detail, Images, Volvo S60 Polestar Concept, S80, Images, 2008, XC60, Design, Press Releases, 2013, V40, Exterior, Images, 2016, Interior, Images, 2008, 2009, S60, Images, 2005, 2006, S80, Technology, Images, 2007, 2008, S60, Images, 2009, S80, Interior, Images, 2010, Sales Volumes, Exterior, Images, 2011, S80, XC60, Illustration, Images, 2011, Safety, Technology, Video, 2012, 2016, S60, S80, V40, XC60, XC70, Safety, Motor Shows, Technology, Video, 2014, S60, V40, V40 Cross Country, XC60, Environment, Technology, Sustainability, Exterior, Other, Images, XC90, 2016, 2017, New S90, New V90, C70, Exterior, Images, 2007, S40, V50, C30, Design, Images, 2008, XC90 (2002-2014), Press Releases, 2008, S80, XC70, Safety, Images, 2008, 2009, 145, Historical, Images, 1967, C70, Exterior, Images, 2012, S80, XC70, Exterior, Images, 2014, 2015, XC60, Safety, Video, 2010, S80, Environment, Technology, Press Releases, 2010, 2011, Exterior, Images, 2011, 2012, S60, Interior, Images, 2011, S80, Interior, Detail, Images, 2012, Concepts, Illustration, Images, 2013, Volvo Concept Coupé, XC70, Detail, Illustration, Images, 2008, 2009, S80, Images, 2008, 2009, S80, XC70, Safety, Technology, Images, 2008, XC90 (2002-2014), Events/Activities, Special Interests, Press Releases, 2003, S60, Safety, Concepts, Images, 2011, S60, Exterior, Images, 2011, XC70, Exterior, Images, 2012, S60, S80, V40, XC60, XC70, XC90 (2002-2014), C30, Safety, Press Releases, 2013, Concepts, Illustration, Images, 2013, Volvo Concept Coupé, Life Style, Design, Exterior, Images, S60 Cross Country, 2016, C70, Exterior, Images, 2010, S80, Detail, Images, 2011, XC60, Interior, Images, 2011, 2012, S90, Historical, Images, 1997, XC70, Safety, Images, 2008, 2009, XC70, Images, 2008, Quality, Design, Interior, Detail, Images, V60 Cross Country, 2016, S40, S60, S80, V50, XC70, C30, C70, Press Releases, 2009, XC60, XC70, Interior, Detail, Images, 2012, Exterior, Images, 2012, S60, S80, V40, XC60, XC70, Safety, Motor Shows, Technology, Video, 2014, C70, Interior, Detail, Images, 2007, V40, Exterior, Images, 2013, Concepts, Exterior, Images, Volvo S60 Polestar Concept, R, Images, 2005, 2006, 2007, S80, Images, 2007, XC60, Exterior, Images, 2010, XC60, Exterior, Images, 2009, 2010, S60, Interior, Images, 2011, 2012, Interior, Detail, Images, 2013, P210, P220, 1960, 1962, XC60, Design, Video, 2014, 2015, 2016, XC90 (2002-2014), Interior, Images, 2007, 2008, 2009, XC60, Exterior, Images, 2009, S40, Safety, Images, 2005, 2006, 2007, S60, S80, XC70, XC90 (2002-2014), Historical, Images, 2008, 2009, 2010, S60, Images, 2002

La description et les faits repris dans le matériel de presse concernant la gamme de voitures internationale de Volvo Cars. Les équipements peuvent être optionnels. Les spécifications peuvent varier en fonction du pays et peuvent être modifiées sans préavis.

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