

ENGINEERING
TOMORROW

Danfoss

Fact sheet

EverCool™ EC005 Type G A/C Hose

A proven foundation for general transportation air conditioning systems.



EverCool EC005

thermoformable air conditioning
hose offers high performance
and value



Thermoformable

Ability to form the tube based on routing design



Ultra-low permeation

Leveraging our proven two-layer inner tube from our GH001 hose, offers exceptional permeation performance



Abrasion resistance

Better abrasion resistance compared to our EPDM and Chloroprene hoses we sell today



Lighter weight

Thermoplastic is lighter weight than metal tubing and hose, yielding improvements in overall mpg in mobile on-highway vehicles



Smooth cover

Thermoplastic outer cover easier to route because it's smooth and slippery versus traditional rubber cover of A/C hoses today that are sticky



Better corrosion resistance

Thermoplastic offers better corrosion resistance than traditional metal tubes



Refrigerant and oil compatibility

Using proven two-layer inner tube that is compatible with all refrigerants and oils used in the market



Fewer leak paths

The ability to form the thermoplastic eliminates connections in complex hose/tube assemblies, reducing the number of potential leak paths

Designed to replace rubber hose and metal tubing in compound hose/tube assemblies.



Truck A/C and
Refrigeration



Construction



Agriculture



Bus



EV

Danfoss EverCool EC005



EC005

EverCool A/C and Refrigeration

Part #	Hose I.D.			Hose O.D.		Max. Operating Pressure		Min. Burst Pressure		Min. Bend Radius		Weight	
	DN	mm	in	mm	in	bar	psi	bar	psi	mm	in	kg/m	lbs/ft
EC005-6	8	8.13	0.32	13.51	0.53	26	375	103	1500	50.8	2.00	0.77	0.52
EC005-8	10	10.7	0.42	16.05	0.63	26	375	103	1500	63.5	2.50	0.97	0.65

Temperature range

-30°C to + 90°C
(-22°F to + 194°F)

Construction:

Tube:
Thermoplastic dual-layered

Reinforcement:
1 textile braid

Cover:
Thermoplastic

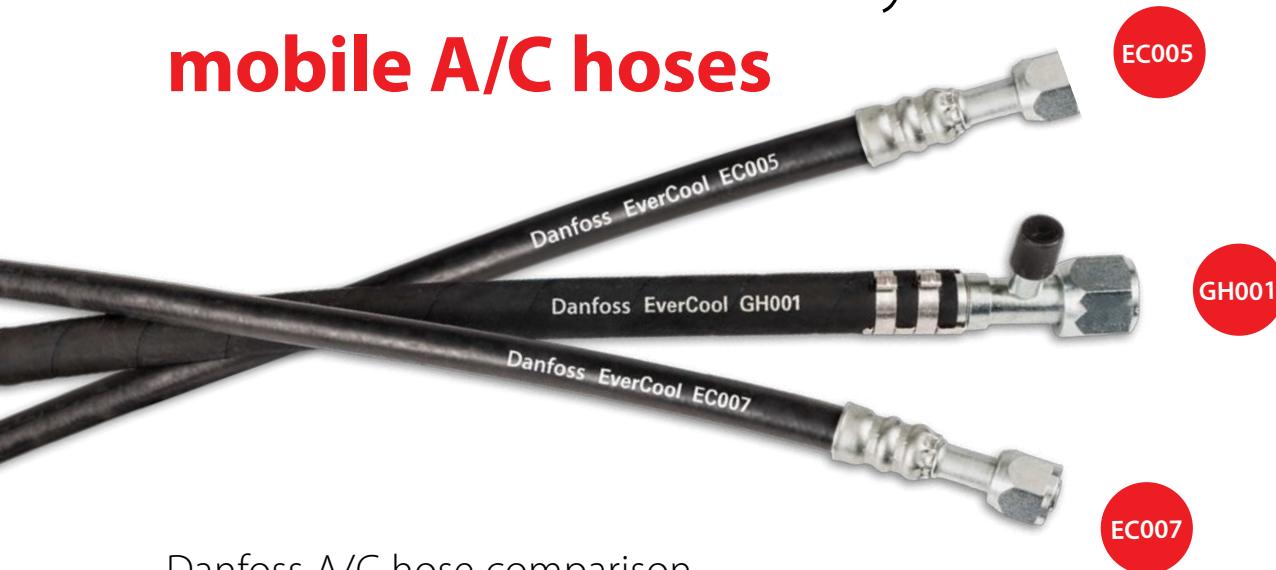
Certifications & compliances

- Exceeds SAE J3062 (Type G) / J3143
- Exceeds SAE J2064

Fitting reference

- EZ Clip fittings
- Flat Crimp Fittings

Meet Danfoss' full family of mobile A/C hoses



Danfoss A/C hose comparison

	EverCool GH001	EverCool EC007	EverCool EC005
Part Number	GH001-8	EC007-08	EC005-08
Industry Specification	Exceeds SAE 3062 (Type E), SAE J2064	Meets SAE 3062 (Type C), SAE J2064	Meets SAE 3062 (Type G) / J3143, SAE J2064
Construction	Dual Nylon Veneer tube/Textile/EPDM Cover	EPDM tube/Nylon Barrier/Textile/Rubber Cover	Dual Nylon Veneer tube/Textile/Thermoplastic Cover
Bend Radius (in)	2.50	2.50	2.50
Working Pressure (psi)	500	500	375
Temperature Range (°C)	-40°C to +140°C	-40°C to +135°C	-30°C to +90°C
Qualified Fitting	EZ Clip / Double o-ring factory crimp	757E flat crimp / Double o-ring factory crimp	Double o-ring factory crimp / EZ Clip
Permeation (R134a)	0.50 kg/m ² /year	0.74 kg/m ² /year	0.58 kg/m ² /yr
Weight (lbs/ft)	0.14	0.12	0.065

Customers today are demanding more from their vehicles A/C system. Every component and system have to work harder and last longer, delivering consistent results mile after mile. Couple that with evolving environmental standards and you have manufacturers wondering how to design vehicles that are both productive and environmentally sustainable.

The answer, the EverCool™ family of high-performance A/C hoses.

Our complete portfolio of EverCool hoses — including the EC007 barrier hose, industry-leading GH001 veneer hose, and EC005 hose — provides options for the full range of mobile A/C applications, including bus, truck, agricultural, military, and construction vehicles. All three hoses in the portfolio are qualified with multiple refrigerants, including R1234yf.

About Danfoss Power Solutions

Danfoss Power Solutions is a global manufacturer and supplier of high-quality hydraulic and electric components. We specialize in providing state-of-the-art technology and solutions that excel in the harsh operating conditions of the mobile off-highway market as well as the marine sector. Building on our extensive applications expertise, we work closely with you to ensure exceptional performance for a broad range of applications. We help you and other customers around the world speed up system development, reduce costs and bring vehicles and vessels to market faster.

We offer you expert worldwide support for ensuring the best possible solutions for outstanding performance. And with an extensive network of Global Service Partners, we also provide you with comprehensive global service for all of our components.

Danfoss Power Solutions – your strongest partner in mobile hydraulics and mobile electrification.

Products we offer:

- Aeroquip by Danfoss
- Boston by Danfoss
- Danfoss Hansen
- Danfoss Waltech
- DCV directional control valves
- Electric converters
- Electric machines
- Electric motors
- Hydrostatic motors
- Hydrostatic pumps
- Orbital motors
- PLUS+1® controllers
- PLUS+1® displays and sensors
- PLUS+1® joysticks and pedals
- PLUS+1® operator interfaces
- PLUS+1® software services, support and training
- PLUS+1® software
- Position controls and sensors
- PVG proportional valves
- SEL by Danfoss
- Steering components and systems
- Synflex by Danfoss
- Telematics
- Weatherhead by Danfoss
- Winner by Danfoss

Go to www.danfoss.com for further product information.

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