

RADIATORS

ENGINE
COOLING



**THE
WIDEST
PRODUCT
RANGE**

RADIATORS
INTERCOOLERS
CONDENSERS
COMPRESSORS
DRYERS
EVAPORATORS
OIL COOLERS
HEATERS
FANS

Nissens[®]
DELIVERING THE DIFFERENCE

Experience
the Real
Difference

Choose better cooling with Nissens' radiators

The radiator is considered the most crucial part of the vehicle's cooling system protecting the engine and ensuring its optimal performance. Nissens manufactures radiators based on advanced aluminium brazing and develops three modern radiator technologies characterized by supreme cooling performance and extended durability.

Our Quality & Technology

- All Nissens' radiators are high-quality products designed and manufactured 100% according to OE requirements, with use of raw materials of the highest quality and on the basis of the latest and most advanced technologies, including fully automatic manufacturing and assembly lines.
- To manufacture our aluminium radiator cores, we apply the Controlled Atmosphere Brazing (CAB) technology which ensures cooling units very strong and durable structures.
- The cores of Nissens' radiators are produced with heavy-duty tubes, highly efficient double-folded fins, optimally shaped louvres and a small tube distance to ensure excellent durability and high cooling performance.
- Nissens' radiators are easy to handle and install. They smoothly fit the vehicle mounting points due to perfect finish of every detail such as water tanks, connections, threads, bolts, gaskets, mounting brackets, etc.
- All our products have been thoroughly tested in corrosion, vibration, pressure impulse, thermal expansion and thermal performance test series in Nissens' in-house R&D centre.
- Nissens is the first manufacturer in Europe to offer 5 mm radiators and the first IAM manufacturer to offer full-aluminium radiators produced in-house.

Your Benefits

Proven, considerably better cooling performance

Compared to an average low-quality or other no-name product from the IAM, Nissens' radiators are characterized by better tolerance of tough working conditions and extended time span before the coolant reaches its boiling point in ambient temperatures over 40 °C

Reduced risk of overheating the engine

Reliable and high-efficient cooling protecting the engine even under high-stress conditions

Tested, supreme durability

Long-lasting, reliable thermal units ensuring extended and failure-free operation

Reduced fuel consumption

Less fan power needed to support cooling

Reduced installation time

Flawless and quick installation due to perfect product finish

ALU McCORD RADIATORS

Most typical light-weight construction of aluminium cores and plastic tanks, universally applied for passenger and commercial vehicles' radiators.

- Cores equipped with double-folded fins
- Advanced aluminium brazing (CAB)
- Reinforced plastic tanks with fibre glass (PA66-GF30) and no recycled plastics
- High quality EPDM gaskets preventing bursts and shrinkage when aged or exposed to extreme temperatures
- Superior oil cooler performance for automatic gearbox applications - integrated with radiator water tanks
- 1700+ brazed radiators in Nissens' range

5 MM RADIATORS

Highly efficient aluminium-plastic construction where spaces between the tubes are 5 mm instead of 10 mm as applied in traditional radiators.

- Cores equipped with double-folded fins
- Advanced aluminium brazing (CAB)
- Reinforced plastic tanks with fibre glass (PA66-GF30) and no recycled plastics
- High quality EPDM gaskets preventing bursts and shrinkage when aged or exposed to extreme temperatures
- Reduction in cooling unit weight as well as size - mainly in thickness in terms of less rows, but also in width and height
- Large cooling efficiency in significantly reduced space for the cooling unit
- 30+ 5mm radiators in Nissens' range

FULL-ALUMINIUM RADIATORS

Advanced radiator construction based on brazed components solely made of aluminium, without gaskets and fragile plastic parts.

- The newest generation of the full-aluminium radiators, with specially designed water tanks
- 100% conformity with the OE design, ensuring excellent, first-time fit to the vehicle's mounting cassette
- Cores equipped with double-folded fins
- First Fit feature on all Nissens' full-aluminium radiators
- Advanced aluminium brazing (CAB)
- 30+ full-aluminium radiators in Nissens' range



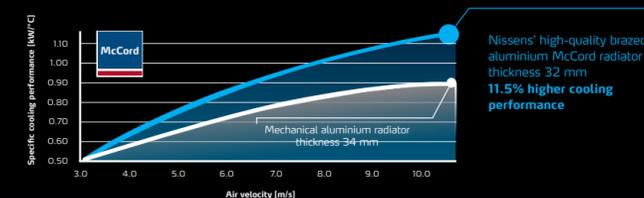
Thoroughly tested in our advanced in-house test centre

Complex life and performance test series are carried out on all our radiators as an integrated part of Nissens' strict quality policy.

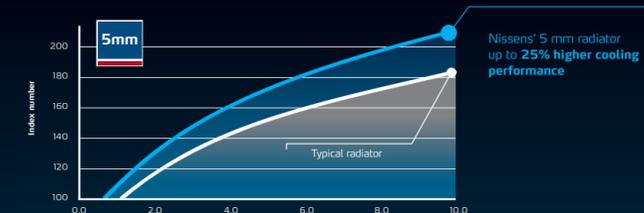
- VIBRATION TEST**
Radiators are tested with 2 million vibrations for 22 hours.
- CORROSION TEST**
The salt spray test goes on for 400 hours. After the test, the radiator must be tight and mechanically functional and intact.
- PRESSURE IMPULSE TEST**
Nissens' car radiators are pressure impulse tested with a minimum of 60.000 impulses. Truck radiators are tested with a minimum of 100.000 impulses.

- THERMAL EXPANSION TEST**
During the test, the radiator is exposed to the impact of cold and heat alternately, causing the radiator to expand and contract.
- THERMAL PERFORMANCE TEST**
Back-to-back test comparing a Nissens product to the OE. A tested radiator must not have lower thermal performance than the OE product.

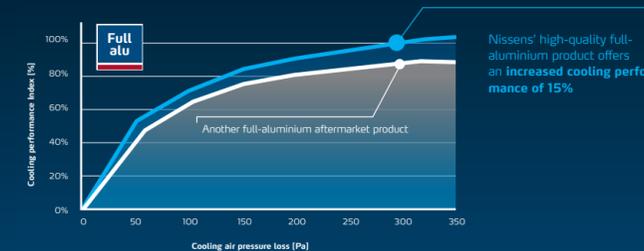
Excellent Cooling Performance



Nissens' high-quality brazed aluminium McCord radiator thickness 32 mm
11.5% higher cooling performance



Nissens' 5 mm radiator up to **25% higher cooling performance**



Nissens' high-quality full-aluminium product offers an **increased cooling performance of 15%**

NISSENS' BRAZED ALUMINIUM VS. NO-NAME MECHANICAL ALU

To compare the cooling capacity of Nissens' aluminium McCord and mechanical aluminium radiators, the cooling performance test has been carried out by testing both radiators under the same conditions. The cooling performance has been measured at 0.3 bar pressure drop on the water side and at 7 m/s air velocity.

The cooling performance test evaluates the overall cooling capacity of radiators. The test carried out at a working pressure of 0.3 bar shows that the Nissens' aluminium McCord radiator has a cooling performance that is approx. 11.5% better than the mechanical radiator.

NISSENS' 5 MM

The chart presents the results of a cooling performance test carried out on two identical radiators, except that one was built in standard 10 mm and the other in the new 5 mm technology.

The comparison between the 5 and 10 mm radiator performances reveals that the cooling performance of the 5 mm radiator is up to 25% better than the 10 mm system. This amazing result is shown in the performance curve where 1 m/s in the 10 mm system is index 100 which corresponds to 100%. All other values reflect the percentage increases from index 100.

NISSENS' FULL ALUMINIUM

The chart shows the result of a cooling performance test of two identical full-aluminium radiators. One of the radiators is manufactured by an established aftermarket supplier. The other is manufactured by Nissens. The conclusion is that Nissens' full-aluminium radiator performs 15% better than the competitive product.



Save Time & Money with Nissens' First Fit

Experience an easy and a quick product installation. You do not have to spend time looking for additional equipment and parts. All that is needed for installing Nissens' First Fit radiator, e.g. o-rings, caps, nuts, bolts, fan clips etc., is included in the product box. Today, Nissens' range includes more than 270 First Fit radiators, and the First Fit feature is indicated in our catalogues by a special icon.



Radiators in Nissens' on-line catalogue

Experience professional and useful product presentation in our on-line catalogue and webshop. This will ensure you a very quick and adequate product identification as well as shorten the product installation time.



Nissens
DELIVERING THE DIFFERENCE

Competitive Range - today, Nissens' radiators range includes approximately 2,500 items covering 25,000 applications and almost 10,000 OE numbers. The product range has been thoroughly selected in compliance with market demands in order to cover the most popular applications and is constantly being expanded to match any new car models entering the market. The table below presents a selection of the most interesting Nissens' radiators produced in Alu McCord, 5MM and Full-Aluminum technologies.

					O.E.		Technology
BMW 5 E60-E61 (03-)	520 i	A	+	7/2003->	7.534.914	60772	Full-Aluminum
BMW 5 F10-F11-F18 (10-)	523 i	M/A	+/-	2/2010->	17117612954	60776	Full-Aluminum
BMW 5 F10-F11-F18 (10-)	535 i	M/A	+/-	2/2010->	7570097	60775	Full-Aluminum
BMW 7 E65-E66-E67-E68 (01-)	730 i	A	+	1/2003->	1711.7.507.972	60761	Full-Aluminum
BMW 7 F01-F02-F03-F04 (08-)	750 i	M/A	+/-	2/2008->	1711.7.570.093	60768	Full-Aluminum
BMW X5 E70 (07-)	X5 30si	M/A	+/-	2/2007->12/2009	1711.7.571.987	60825	Full-Aluminum
BMW X5 E70 (07-)	X5 30d	M/A	+/-	2/2007->	1711 7 533 472	60823	Full-Aluminum
RANGE ROVER 2002 -	4.4 i	A	+/-	5/2005->	PCC000850	64314	Full-Aluminum
RANGE ROVER 2002 -	4.2 S.CH.	A	+/-	5/2005->	PCC500670	64327	Full-Aluminum
RANGE ROVER 2002 -	3.0 TD	A	+/-	3/2002->	PCC000840	64325	Full-Aluminum
HONDA CIVIC 3-5 DOORS (05-)	1.8 i 16V	M	+/-	9/2005->	19010-RSA-G01	68134A	5mm
HONDA FR-V (05-)	2.2 CTDi	M	+/-	2/2005->	19010-RMA-E01	68602A	5mm
MAZDA 3 (09-)	1.6 i 16V	M	+/-	4/2009->	Z668-15-20Y	68521	5mm
MAZDA 5 (05-)	1.8 i 16V	M/A	+/-	3/2005->	LF87-15-200 A	68503	5mm
MAZDA 6 (07-)	2.0 i 16V	A	+/-	6/2007->	LF4K-15-200 B	68508	5mm
SUZUKI GRAND VITARA (05-)	2.0 i 16V	M	+/-	3/2005->	17700-65J00	64200	5mm
SUZUKI GRAND VITARA (05-)	2.0 i 16V	A	+/-	3/2005->	17700-65J10	64199	5mm
SUZUKI GRAND VITARA (05-)	1.9 TD	M	+/-	3/2005->	17700-67J00	64201	5mm
TOYOTA RAV 4 (06-)	2.0 i 16V	M/A	+/-	5/2006->	16400-28570	64678A	5mm
TOYOTA YARIS (05-)	1.3 i 16V	M	+/-	8/2005->	16400-0Q040	64671A	5mm
BMW 3 E30 (82-)	316 i	M	-	9/1987->6/1994	1.728.905	60623A	McCord
BMW 3 E46 (98-)	316 i	A	+	2/1998->	1711.9.071.519	60782A	McCord
BMW 7 E38 (94-)	728 i	M/A	+/-	9/1998->	1.436.060	60648A	McCord
FORD FOCUS C-MAX (03-)	2.0 TDCi	M/A	+/-	10/2003->	Y201-15-200 E	62017A	McCord
MERCEDES C-CLASS W 203 (00-)	C 180	M/A	+/-	9/2000->	203 500 03 03	62786A	McCord
MINI MINI R50-R53 (01-)	COOPER 1.6	M/A	+	6/2001->	1711.7.570.821	69700A	McCord
OPEL ASTRA H (04-)	1.7 CDTi	M/A	+/-	3/2004->	13143570	63029A	McCord
VOLKSWAGEN GOLF V (03-)	1.6 FSI	M	+/-	10/2003->	1K0.121.251 P	65277A	McCord
VOLKSWAGEN JETTA (05-)	1.9 TDi	M/A	+/-	9/2005->	1K0.121.251 AL	65291A	McCord
VOLVO S80 (98-)	2.0 T	A	+/-	8/1998->	860 1433	65553A	McCord

To access Nissens' entire radiators range, please consult our on-line catalogues at www.nissens.com/catalogue or contact your local sales office in order to get the complete list of Nissens' Engine Cooling Parts in Excel, including product details such as OE numbers, application models, product weight, box dimensions and EAN codes.

THE WIDEST PRODUCT RANGE	WIDE MARKET COVERAGE >90%	CARS VANS TRUCKS	ONE-STOP SHOPPING CONCEPT	
	10,000+ PARTS 1 MIO. UNITS DELIVERED YEARLY	UP TO 30 NEW PRODUCTS EACH MONTH		 
SUPREME AVAILABILITY	EXCELLENT CATALOGUES & WEBSHOP	TEC DOC TEC COM		 
				

Since 1921, Nissens has designed and manufactured cooling solutions for the automotive aftermarket. Today, Nissens is one of the biggest European manufacturers and an acknowledged OE and aftermarket supplier of engine cooling and climate parts.

With more than 90% coverage of the European aftermarket, we supply a variety of market segments and cover applications for almost all makes and models of cars, vans and trucks.

In addition to excellent products, we also offer a reliable and efficient business concept enabling you to achieve cooling success on your market. To learn more, please visit our web site, contact your local sales office or one of Nissens' official distributors.

We are an acknowledged supplier to the following automotive and industrial manufacturers:

- **FORD, Europe**
- **PSA, France**
- **Mazda, Europe**
- **Toyota, Europe**
- **Scania**
- **SMC (VW), Denmark**
- **Manitou**
- **Liebherr**
- **Volvo Penta**
- **Atlas Copco**
- **Siemens**
- **...and many others**

YOUR LOCAL NISSENS DISTRIBUTOR



NISSENS' ON-LINE CATALOGUE!

For mobile devices - scan the QR code or visit m.nissens.com
for computers - visit www.nissens.com/catalogue

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