



PIERBURG



PRODUCT **RANGE**

THERMAL MANAGEMENT

AIR CONDITIONING AND ENGINE COOLING

Spare parts. Anywhere. Anytime.



MOTORSERVICE

AIR CONDITIONING FROM PIERBURG

Motorservice is constantly expanding its product portfolio of air-conditioning systems and now offers the most important components in the refrigerant circuit in the usual Pierburg quality. The components cover both combustion vehicles and hybrid and high-voltage vehicles. These include the electric air-conditioning compressors and the pressure switches for various manufacturers such as Audi, BMW, Toyota and Tesla, for example.

Air-conditioning management controls the vehicle interior temperature and air distribution, thereby ensuring maximum comfort. Intelligent systems not only cool the passenger compartment, but also actively control the temperature of the high-voltage batteries and drive trains to maintain performance and range.

In the refrigerant circuit in particular, all non-flushable components need to be replaced. This prevents impurities from damaging the new components. Motorservice has various air-conditioning receiver-dryers in its product range to filter impurities and moisture out of the circuit in advance. These should be replaced regularly and during maintenance on the refrigerant circuit. The filters protect the entire refrigerant circuit, but especially the expansion valve, which is located downstream of the air-conditioning receiver-dryer.

THE REFRIGERANT CIRCUIT IN DETAIL

The process can be divided into four key steps:

- **Compressing (compressor):** The air-conditioning compressor draws in gaseous refrigerant and compresses it. The refrigerant heats up significantly due to the increase in pressure.
- **Condensing (condenser):** The hot refrigerant flows into the condenser (radiator on the front of the vehicle). The head wind and a fan dissipate heat to the outside air. The refrigerant cools down and condenses.
- **Filtering and expanding (dryer & expansion valve):** The air-conditioning receiver-dryer removes moisture and dirt from the liquid refrigerant. It then passes through the expansion valve (or the throttle) and the pressure drops.
- **Evaporating (evaporator):** In the evaporator, the liquid, pressurised refrigerant expands and becomes gaseous again. For this phase change, it requires energy extracted from the fresh air flowing past in the form of heat. The cold is dissipated to the inside of the vehicle via the interior fan.

Additional benefit: dehumidification

The evaporator also removes moisture from the incoming air, as the water is condensed at the cold lamellae and dissipated to the outside. The dry air effectively prevents the windscreen from fogging, making the air-conditioning system a useful helper even in winter.



› **250 MILLION VEHICLES**
with over 200 items



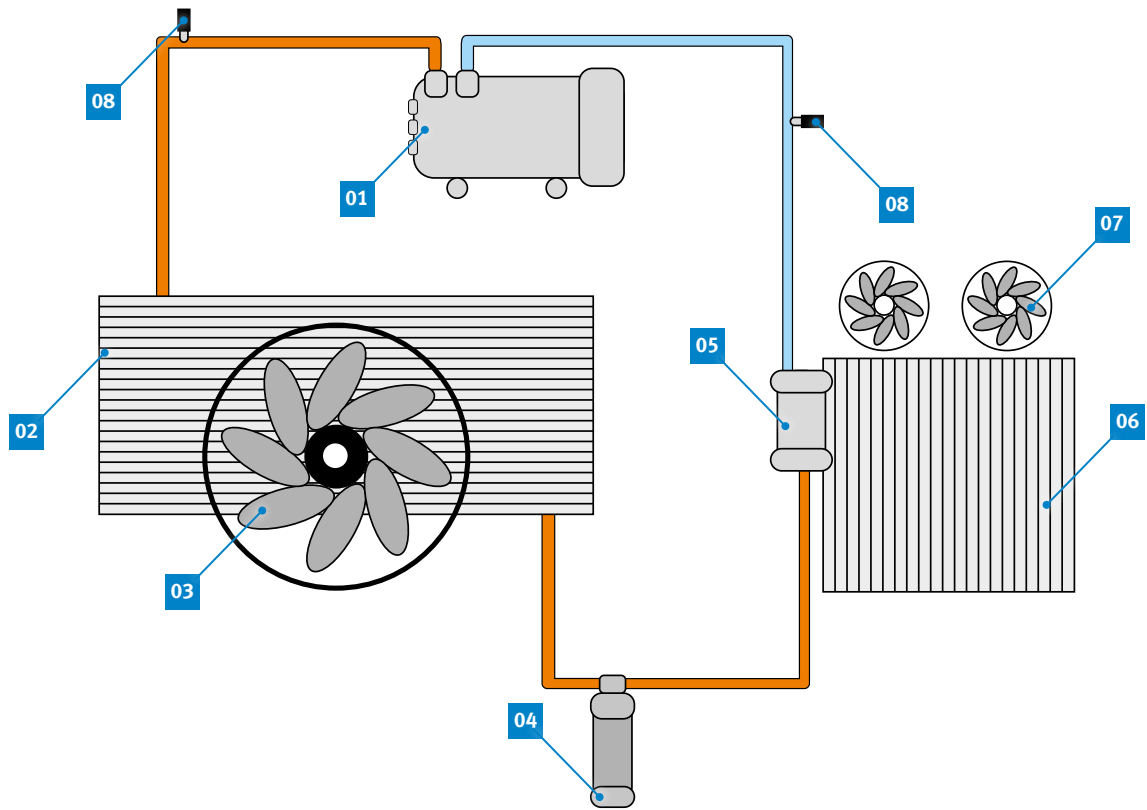
BRANDS

Audi, BMW, Mercedes-Benz, Seat,
Škoda, Tesla, Toyota, Volvo, VW ...



OE QUALITY

Spare parts according
to OE specifications



Refrigerant circuit in air-conditioning systems (schematic diagram with two pressure switches)

- 01 (Electrical) compressor
- 02 Condenser
- 03 Condenser fan
- 04 Air-conditioning receiver-dryer

- 05 Expansion valve
- 06 Evaporator
- 07 Interior fan
- 08 Pressure switch

- High-pressure side
- Low-pressure side



INDIVIDUALLY TESTED

All items are tested according to high quality standards.



DURABILITY

Long service life thanks to high quality.



REPAIR

A variety of Pierburg items for maintenance and repair.

AIR-CONDITIONING COMPRESSORS

Air-conditioning compressors are an essential part of air-conditioning systems. Motorservice has both belt-driven and electrical air-conditioning compressors in its product range.

In petrol-driven and diesel vehicles, belt-driven air-conditioning compressors are driven by the combustion engine and only work when the engine is running. Motorservice offers more than 20 belt-driven air-conditioning compressors and a large number of electrical air-conditioning compressors in OE quality for over 40 million passenger cars from European vehicle manufacturers.

In contrast to air-conditioning compressors in vehicles with conventional combustion engines, the electrical air-conditioning compressor for hybrid and electric vehicles is equipped with its own electric motor. This is why electrical air-conditioning compressors work even when the engine is switched off. The refrigerant approved by the OE must be used for the air-conditioning compressor.

When replacing the electrical air-conditioning compressor, the system must be flushed. In addition, all non-flushable parts must be replaced, including the expansion valve, the air-conditioning receiver-dryer and the seals. Otherwise, impurities may remain in the system which damage the new air-conditioning compressor.



BELT-DRIVEN AIR-CONDITIONING COMPRESSORS

Item no.	Manufacturer	Ref. no.*	Example vehicles/engines
7.14832.30.0	BMW	64529249223	320 Li, 520 Li, 528 Li, 528 Li xDrive, SDrive
7.14832.19.0	Mercedes-Benz	A0002309011	C-Class, CLC-Class, CLK, S-Class
7.14832.20.0	Mercedes-Benz	A0022305411	M-Class, R-Class, GL-Class
7.14832.21.0	BMW	64529165808	523i, 528i, 530i, 730i, Li, 520 Li, 523 Li
7.14832.22.0	Mercedes-Benz	A0022307511	R-Class, S-Class
7.14832.23.0	BMW	64529217868	535i, 535i xDrive, 435i, 435 xDrive, 335 Li
7.14832.24.0	Mercedes-Benz	A0032304811	W204/W212 SLK, C-Class, E-Class
7.14832.26.0	Mercedes-Benz	A0022303111	GLK-Class, C-Class, CLS, E-Class
7.14832.27.0	Mercedes-Benz	A0008303501	GLE, GL-Class, M-Class
7.14832.29.0	Mercedes-Benz	A0008307602	217/222
7.14832.31.0	Mercedes-Benz	A0032306011	W166
7.14832.32.0	BMW	64529182793	116i, 118i, 120i, 316i, 318i, 320i, sDrive 18i
7.14832.33.0	Mercedes-Benz	A0008303202	M274
7.14832.35.0	Mercedes-Benz	A0008306700	W213
7.14832.38.0	BMW	64527945819	G38
7.14832.40.0	BMW	64506805025	F25
7.14832.41.0	BMW	64529205096	F02/740Li/E71
7.14832.64.0	BMW	64526826880	216i, 218i, 220i, 225i, 225i xDrive, sDrive
7.14832.01.0	Mercedes-Benz	A 000 830 03 02, A 000 830 2502	C-Class, E-Class, GLC
7.14832.06.0	Seat, Škoda, VW	1S0 820 803 A, 1S0 820 803 B, 1S0 820 803 C, 1S0 820 803 F	Up, LoadUp, Mii, Citigo
7.14832.15.0	Mercedes-Benz	A 472 230 01 11, A 472 230 03 11	Actros MP4/MP5

ELECTRICAL AIR-CONDITIONING COMPRESSORS

Item no.	Manufacturer	Ref. no.*	Example vehicles/engines
7.14832.00.0	Toyota	88370-47030, 88370-47031, 88370-47032, 88370-47033	Auris, Prius 1.8 Hybrid, Plug-in Hybrid
7.14832.03.0	Tesla	1088198-00-I, 1088198-00-J, 1088198-00-L, 1088198-00-M, 1088198-00-N, 1088198-00-O, 1088198-00-P, 1088198-00-Q	Model 3 EV (2017/2019 →)
7.14832.04.0	Toyota	88370 47091, 88370-47091	C-HR, Corolla, Prius
7.14832.05.0	Toyota	88370-33040	Camry, RAV 4 V
7.14832.07.0	Volvo	80002227, 36010814	EX 30, EX 30 Cross
7.14832.10.0	Tesla	1501256-00-K, 1501256-01-M	Model 3, Y, S, X (2020 →)
7.14832.11.0	Mercedes-Benz	A 000 830 03 01, 000 830 03 01, A 000 830 32 04, 000 830 32 04	GLC, GLE, Sprinter, Vito, EQC
7.14832.17.0	Audi, Cupra, Škoda, VW	1EA 820 807 C, 1EA 820 807 D, 1EA 820 807 B, 1EA 816 797 F, 1EA 816 797 E, 1ED 816 797 A	Q5, Born, Elroq, Enyaq, ID. Buzz, ID.3, ID.4, ID.5, ID.7

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PRESSURE SWITCHES

With the pressure switches from Pierburg, Motorservice covers a fleet of more than 200 million vehicles worldwide, including many hybrid and electric vehicles. They are approved for applications with R134a and R1234yf refrigerants.

The refrigerant circuit in air-conditioning systems is divided into a high-pressure and low-pressure side in vehicles. Generally, two pressure switches are installed in the vehicles: one for the high-pressure side and one for the low-pressure side. Alternatively, there is, for example, a combined pressure switch for both sides.

The pressure switches monitor the pressure in the air-conditioning system. If an excessively high or excessively low pressure is detected, they switch off the air-conditioning compressor to prevent damage to the system.



Item no.	Manufacturer	Ref. no.*	Example vehicles/engines
7.14848.00.0	Tesla	1008515-00-C, 1008515-00-B, 1008515-00-A	Model S (5YJS)
7.14848.01.0	Tesla	1108608-00-B, 1108608-00-A	Model 3 (5YJ3), Model X (5YJX), Model S (5YJS)
7.14848.02.0	Toyota	88719-40020, 88719-33020	Auris, Avensis, Camry, Corolla, Hiace, Hilux, Prius, Rav 4, Verso, Yaris
7.14848.03.0	Hyundai, Kia	977211G000, 977213K000	Accent, Elantra, Genesis, Getz, Grandeur, i10, i20, i30, i40, Santa Fé, Sonata, Tucson, Veloster, Bongo, Carens, Ceed, Cerato, Magentis, Optima, Picanto, Pro Cee'd, Rio, Sorento, Sportage
7.14848.04.0	Fiat	51713182, 50550372	500, Croma, Doblo, Ducato, Grande Punto, Idea, Linea, Palio, Panda, Punto, Stilo, Strada, Tipo
7.14848.05.0	Ford	3799054, 4673935, 5044586, 5471192	B-Mac, C-Max, Ecosport, Fiesta, Focus, Fusion, Galaxy, Grand C-Max, Ka, Kuga, Mondeo, Ranger, S-Max, Tourneo, Transit
7.14848.06.0	Peugeot	6455CK, 6455Z3, 9853027380, 9833078680	1007, 2008, 206, 207, 208, 3008, 307, 308, 406, 407, 408, 5008, 508, Expert, Partner, Rifter, Traveller
7.14848.07.0	Nissan	921361FA0A, 921363Z600	350 Z, 370 Z, Almera, Cube, GT-R, Juke, Leaf, Maxima, Micra, Navara, Note, NP 300, NV 200, Pathfinder, Primera, Pulsar, Qashqai, Tiida, X-Trail
7.14848.08.0	BMW	64 53 9 323 658, 64 53 9 181 464, 64 53 9 141 957	1, 2, 3, 4, 5, 6, 7, X1, X2, X3, X4, X5, X6, X7
7.14848.09.0	Audi	1J0959126, 1K0959126A, 1K0959126B, 1K0959126D, 1K0959126E	A1, A3, A4, A6, A7, A8, Q3, Q7, TT
7.14848.11.0	VW	3D0 959 126, 3D0 959 126 A, 3D0 959 126 B, 3D0 959 126 C, 3D0 959 126 D	Phaeton
7.14848.12.0	VW	4H0 959 126, 4F0 959 126 A, 4F0 959 126 B, 4F0 959 126 C, 5Q0 959 126 A, 5Q0 959 126 B	Golf, Passat, Touran, Touareg, Polo, Arteon, T-Roc, Tayron, ID.3, ID.4, ID.5, California, Caddy, Crafter, ID.Buzz

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EXPANSION VALVES

Motorservice has added the expansion valve product group to its range. Motorservice therefore covers a wide range of different manufacturers in the aftermarket, such as BMW, Mercedes-Benz, Toyota or VW. This includes vehicles with combustion technology as well as high-voltage vehicles.

An important reason for replacing an expansion valve is that all non-flushable parts should also be replaced when replacing an air-conditioning compressor to remove impurities from the refrigerant circuit – and therefore so should the expansion valve. With the new expansion valves in OEM quality, replacements can be carried out in over 46 million vehicles worldwide.

The expansion valve is an important component of air-conditioning systems and, together with the air-conditioning compressor, separates the high-pressure side from the low-pressure side. The expansion valve reduces the pressure from the high-pressure side to a constant pressure of approx. 2.5 bar. As the expansion valve is located directly at the evaporator, the refrigerant expands into the evaporator and becomes gaseous. It absorbs heat which is dissipated to the inside of the vehicle via the interior fan.



Item no.	Manufacturer	Ref. no.*	Example vehicles/engines
7.14279.00.0	Audi, Cupra, Seat, Škoda, VW	5Q0816679B	Q2, Q3, Ateca, Formentor, Tarraco, Karoq, Kodiaq, Arteon, Golf VIII, T-Roc, Tiguan
7.14279.01.0	Toyota	88515-47040	Prius 1.8 Hybrid, Prius 1.8 Plug-in Hybrid
7.14279.02.0	Toyota	88515-26070	Auris, Corolla, Hiace, RAV 4, Urban Cruiser, Yaris
7.14279.03.0	Toyota	88515-16060	Prius Plus, MR2 Spyder, Celica, Solara
7.14279.04.0	Tesla	1101878-00-A	Model 3 EV, Model 3 AWD, Model 3 EV Performance
7.14279.06.0	Toyota	88515-F4020	C-HR
7.14279.09.0	Hyundai, Kia	976262Y000	Grand Santa Fe III, ix 35, Sportage III
7.14279.10.0	BMW, MINI	64 50 3 452 759	3 Series, X3, Cooper, One, Clubman, Countryman, Paceman, Roadster
7.14279.14.0	Mercedes-Benz	A1648300084	GL-Class, M-Class, R-Class

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AIR-CONDITIONING RECEIVER-DRYERS

Among other things, Motorservice offers air-conditioning receiver-dryers in the aftermarket for the vehicles listed in the table.

Air-conditioning receiver-dryers from Pierburg impress with high-quality filter media and meet all OE specifications. High quality is extremely important, as this is the only way to guarantee reliable refrigerant filtering. The air-conditioning receiver-dryer should therefore be replaced regularly. It removes impurities and moisture from the entire refrigerant circuit, which would otherwise lead to corrosion and other damage.

A service kit consisting of air-conditioning receiver-dryer and accessories (item no. 7.14833.00.0, OE ref. no. 1597579-A0-A) for the Tesla refrigerant circuit – for over 3.7 million vehicles from the electric vehicle manufacturer worldwide – has been launched.



Item no.	Manufacturer	Ref. no.*	Example vehicles/engines
7.14833.00.0	Tesla	1597579-A0-A	Model S, 3, X, Y
7.14833.06.0	Seat, Škoda, VW	150 898 191 A	Up, Load Up, Mii, (E-) Citigo
7.14833.01.0	Toyota	88474-47020	Corolla, Camry, Yaris, Auris, Prius
7.14833.04.0	Mercedes-Benz	A 222 835 02 00, A 246 835 00 00, A 099 835 00 00	A-Class, B-Class, C-Class, E-Class, Sprinter, Vito, GLA, GLB, GLC
7.14833.07.0	Toyota	88474-17010	Avensis, IQ, Rav 4, Land Cruiser, Hilux, Hiace, Verso

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CONDENSERS

With over 20 air-conditioning condensers from Pierburg, Motorservice currently offers reliable quality for over 20 million vehicles from BMW, Mercedes-Benz, Land Rover and others. This includes vehicles with combustion technology as well as high-voltage vehicles.

An air-conditioning condenser must be replaced if the functionality of the air-conditioning system is significantly restricted. Stone chips in particular can damage condensers. If such damage is clearly visible, replacement may be appropriate.

Condensers are essential components of the refrigerant circuit. The air-conditioning compressor first draws in the evaporated refrigerant and compresses it, which causes it to heat up. The compressed and hot refrigerant is conveyed under high pressure to the condenser and condenser fan. There, the heat is drawn from the refrigerant so that it condenses into a liquid. The condenser emits the heat to the cooling agent, the external air flowing through it.



Item no.	Manufacturer	Ref. no.*	Example vehicles/engines
7.14834.00.0	BMW	64536805453	N20/F18
7.14834.06.0	Mercedes-Benz	995000454	W213/W253/W205
7.14834.07.0	Mercedes-Benz	2045000654	W204/212
7.14834.01.0	BMW	64509391489	F02/740/F07
7.14834.08.0	Mercedes-Benz	2515000054	W164
7.14834.02.0	BMW	64509239992	E70/LCI/E71
7.14834.10.0	Land Rover	LR035791	RS14
7.14834.03.0	BMW	64536805452	N52/F18/F02
7.14834.11.0	Land Rover	LR070458	RE
7.14834.05.0	BMW	64509271205	F45/F52
7.14834.27.0	BMW	64539228607	R55/56/57 10
7.14834.31.0	Mercedes-Benz	2465000454	W246
7.14834.22.0	BMW	64506804722	F35
7.14834.32.0	Mercedes-Benz	4535000054	W453
7.14834.33.0	Mercedes-Benz	6398350800	W639
7.14834.29.0	BMW	64539229022	E90/LCI
7.14834.30.0	Porsche	97057311100	970
7.14834.34.0	Mercedes-Benz	1695001254	W245/W169
7.14834.12.0	Toyota	8846047150	Prius (Plug-in Hybrid)
7.14834.17.0	Tesla	107708300B	Model 3
7.14834.25.0	Peugeot	9825371480	208

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EVAPORATORS

In many vehicles, air-conditioning systems are part of the series equipment. Motorservice has added another component for the refrigerant circuit to its range – 7 evaporators for 10 million vehicles worldwide.

The refrigerant expands directly into the evaporator through the expansion valve, which is responsible for a continuous pressure. There, it expands and enters a gaseous state. During this process, the refrigerant absorbs heat from the ambient air. The resulting cold is conveyed into the vehicle interior.

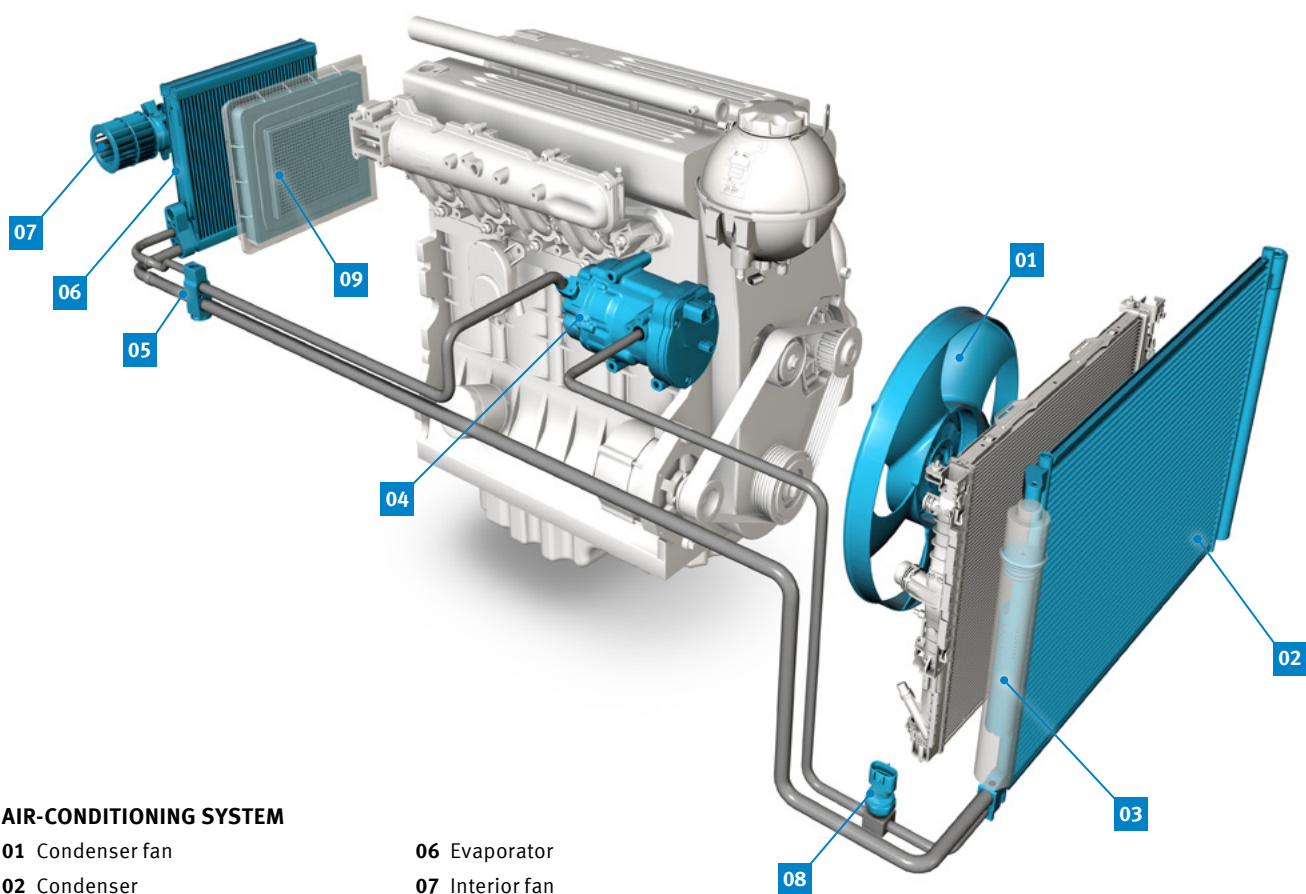
Besides non-functional evaporators, however, there is another reason for replacement: microbial contamination. Due to condensed and non-draining water, microbes, viruses and bacteria may settle on the evaporator in the humid environment. If disinfection no longer helps, the evaporator must be replaced; otherwise there is a health risk.



Item no.	Manufacturer	Ref. no.*	Example vehicles/engines
7.15029.08.0	BMW	64119378108	G30, G38, G12
7.15029.00.0	Volvo	31497374	XC60
7.15029.05.0	BMW	64119383678	520 I (F10)
7.15029.17.0	Volvo	31436487	XC60 14-17
7.15029.18.0	Volvo	31449329	XC90 II (256) T5 AWD
7.15029.06.0	Mercedes-Benz	A2058307800	E350 213050
7.15029.07.0	BMW	64119290888	E90/F25

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AIR-CONDITIONING SYSTEM

- 01** Condenser fan
- 02** Condenser
- 03** Air-conditioning receiver-dryer
- 04** Compressor
- 05** Expansion valve

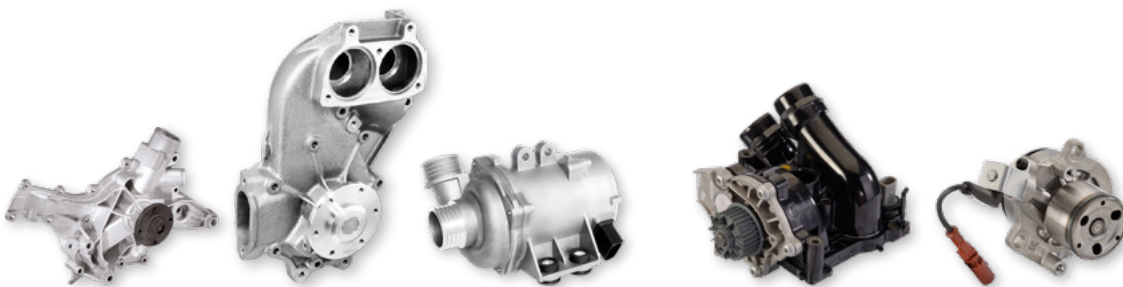
- 06** Evaporator
- 07** Interior fan
- 08** Pressure switch
- 09** Cabin filter

ENGINE COOLING FROM PIERBURG

The water pump is the central component of the coolant circuit and is essential for smooth operation of the engine. Mechanical water pumps are a well-established solution. By contrast, electrically powered coolant pumps ensure demand-based cooling of the engine. They reduce the power required and lower friction losses, fuel consumption and pollutant emissions. Pierburg production sites produce over 7 million mechanical and electrical water pumps for motor vehicles and utility vehicles every year.

With its innovative portfolio, Motorservice also offers water pumps from Pierburg for applications in motor vehicles and utility vehicles, as well as oil pumps and oil coolers. In this segment, the spare parts expert is a full-service provider, meaning that customers receive everything from a single source – in premium quality.

Motorservice has also expanded its product range in the field of engine cooling to include radiators and expansion tanks.



MECHANICAL AND ELECTRICAL WATER PUMPS

Demand-based cooling

The cooling liquid of the water pump absorbs the heat from the engine block and cylinder head and releases it into the ambient air through the radiator. Depending on their design, mechanical water pumps are located either externally on the engine in their own pump housing or are flanged directly on the engine housing and are driven by a V-belt, a toothed belt or directly by the engine.

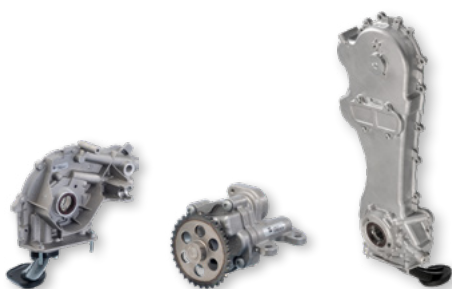
Electrical water pumps make a significant contribution to emission control in modern engine designs. A delivery rate that is not dependent on the engine speed enables demand-based cooling. This reduces the power requirements whilst also cutting down on frictional loss, fuel consumption and pollutant emissions.

VARIABLE MECHANICAL WATER PUMPS

For modern thermal management

With its variable mechanical water pumps, Motorservice offers another innovative state-of-the-art and modern thermal management product in the aftermarket sector. The pumps are used to comply with current and future emissions standards. Regulated and demand-based cooling saves fuel and thus reduces CO₂ emissions.

The options for regulating the volumetric flow include electromagnetic clutches, thermostat modules with thermostat valve, electronically actuated rotary slide valves with worm gear, covering the impeller with an electrohydraulically or pneumatically adjustable ring, and pneumatic bypass flaps inside the pump module. As a result, the pumps are in line with the current trend towards smart accessories in combustion engines.



OIL PUMPS

Perfected oil supply

Pierburg develops and supplies oil pumps to all leading engine manufacturers and owns numerous patents. Building on this know-how, Motorservice offers pumps for a multitude of passenger car and truck applications.



OIL COOLERS

In most engines, oil coolers are used to selectively reduce the oil temperature. Due to the temperature output to the engine's coolant circuit, the oil temperature can be reduced by up to 30°C. As oil coolers are difficult to clean, Motorservice recommends always replacing this component.



WATER CIRCULATING PUMPS

Flexible, independent helpers with high temperature resistance

Pierburg water circulating pumps are characterised by a low weight and high media and temperature resistance. They are used where cooling or heating functions have to be carried out independently from the engine speed, e.g. for auxiliary heating or cooling turbochargers.

EXPANSION TANKS

The expansion tank is a central component of the cooling system. It forms part of the pressure and volume management of modern engine cooling systems and is equipped with a pressure relief valve. It absorbs the thermal expansion of the coolant agent, stabilises the system pressure in the event of excess pressure or vacuum and ensures optimum filling of the entire circuit. Its position at the highest point of the cooling system enables continuous self-ventilation, reduces cavitation and protects pumps, seals and heat exchangers against overstressing.

The tank, which is made of temperature-resistant materials, combines maximum dimensional stability with low weight. Integrated pressure relief valves with precise opening pressures of 1.0 to 1.5 bar increase the boiling point of the coolant agent. Some versions have an integrated level sensor, optimised flow guidance and suitable connections. Expansion tanks from Pierburg are supplied as a complete repair solution.



Item no.	Manufacturer	Ref. no.*	Example vehicles/engines
7.16167.01.0	BMW	17139846642, 17138742976, 17139884859, 17139487210, 17138742975, 17138610656	5 (G30, F90), 7 (G11, G12)
7.16167.02.0	BMW	17138614293, 17137649733, 17137619189	5 (F10), 5 Touring (F11)
7.16167.03.0	BMW	17138677649	1 (F20), 3 (F30, F80), 3 Touring (F31)
7.16167.04.0	Mercedes-Benz	1665000049, A1665000049, A166500004964	GL-Class (X166), GLE (W166), GLS (X166)
7.16167.00.0	Mercedes-Benz	2045000749, A2045000749, A2045000549, A2045000049	C-Class (W204), CLS (C218), E-Class (W212)
7.16167.05.0	BMW	17137642158, 17137609469	1 (F20), 2 Coupe (F22, F87), 3 (F30, F80), 3 Touring (F31)
7.16167.06.0	Mercedes-Benz	2465000049, A2465000049	A-Class (W176), CLA Coupe (C117), GLA-Class (X156)
7.16167.07.0	BMW	17137647283, 17137601949, 17137806038	5 (F10), 5 Touring (F11), 7 (F01, F02, F03, F04)
7.16167.08.0	BMW	17138621092, 17137647290, 17137552546	X5 (E70), X6 (E71, E72)
7.16167.09.0	BMW	17137640514, 17137607482, 17137567462, 17137543026, 17137519368	1 (E81), 3 (E90), X1 (E84), 3 Series (E90)
7.16167.10.0	Mercedes-Benz	2055000049, A2055000049	C-Class (W205), C-Class Coupe (C205), E-Class T-Model (S213)

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7.16167.11.0	BMW	17138689765, 17138677651, 17138610657	5 (G30, F90), 7 (G11, G12), X6 (G06, F96), X7 (G07)
7.16167.12.0	Mercedes-Benz	2475000049, A2475000049	A-Class (W177), B-Class Sports Tourer (W247), CLA (C118)
7.16167.13.0	Mercedes-Benz	2515000049, A251500004964, A2515000049	R-Class (W251, V251)
7.16167.14.0	BMW	17117573781, 17137787039, 17111436413	3 (E46), 3 Coupe (E46), X3 (E83), X5 (E53), Z4 Coupe (E86)
7.16167.15.0	BMW	17132284600	2 Coupe (F22, F87), 3 (F30, F80), 4 Coupe (F32, F82)
7.16167.16.0	BMW	17138610652	3 (G20, G80, G28), 3 Series (G28, G20)
7.16167.17.0	Mercedes-Benz	1675009900, A1675009900	GLE (V167), GLE Coupe (C167)
7.16167.18.0	BMW	17138742660, 17135A6A030, 17138610660	X3 (G01, F97, G08), X4 (G02, F98), X3 (G08)
7.16167.19.0	BMW	17138610662, 17135A6A031	X5 (G05, F95), X6 (G06, F96), X7 (G07)
7.16167.20.0	BMW	17137647284, 17137601950, 17137578439	5 (F10), 5 Touring (F11), 7 (F01, F02, F03, F04)
7.16167.21.0	Mercedes-Benz	2065000100, A2065000100	C-Class (W206), CLE (C236)
7.16167.22.0	BMW	17137542986, 17137519219	5 (E39), 5 Touring (E61), 6 (E63)
7.16167.23.0	Mercedes-Benz	2225000749, A2225000749	AMG GT (C190), CLS (C257), G-Class (W463), SL (R232)
7.16167.24.0	Mercedes-Benz	2535001200, A2534700004, A2535001200	CLS (C257), E-Class (W213), GLC (X253)
7.16167.25.0	BMW	17138616418, 17137639464, 17137823544	X3 (F25), X4 (F26)
7.16167.26.0	BMW	17132284601	4 Coupe (F32, F82)
7.16167.27.0	Mercedes-Benz	2225000949, A2225000949	S-Class (W222, V222, X222), S-Class Coupe (C217)
7.16167.28.0	Mercedes-Benz	2225000849, A2225000849	S-Class (W222, V222, X222), S-Class Convertible (A217)
7.16167.29.0	Mercedes-Benz	2135001400, A2135001400	E-Class (W213), G-Class (W463), GLC Coupe (C253)
7.16167.30.0	Mercedes-Benz	4475000149, A4475000149	Marco Polo Camper (W447), Vito Van (W447), Vito Mixto (Double Cabin) (W447)
7.16167.31.0	Mercedes-Benz	2215000649, A2215000649	S-Class (W221, V221)
7.16167.32.0	Mercedes-Benz	2215000349, A2215000349	S-Class (W221, V221), S-Class Coupe (C216)
7.16167.33.0	Mercedes-Benz	2215000449, A2215000449	S-Class (W221, V221)
7.16167.34.0	Mercedes-Benz	1645000049, A164500004964, A1645000049	GL-Class (X164), M-Class (W164), SLS AMG (C197)
7.16167.35.0	Mercedes-Benz	4475000049, A4475000049	EQV (W447) EQV, Marco Polo Camper (W447), V-Class (W447)
7.16167.36.0	BMW	17138610653	2 Coupe (G42, G87), 3 (G20, G80, G28), 3 Touring Van (G21), Z4 Roadster (G29)
7.16167.37.0	Mercedes-Benz	2045000949, A2045000649, A2045000949	AMG GT (C190), C-Class (W204), CLS (C218), E-Class (W212)
7.16167.38.0	BMW	17137647281	5 (F10), 5 Touring (F11), 6 Coupe (F13), X6 (E71, E72)
7.16167.39.0	Mercedes-Benz	2115000049, A2115000049	CLS (C219), E-Class (W211)
7.16167.40.0	BMW	17137642160, 17137609468	1 (F20), 1 (F21), 2 Coupe (F22, F87), 4 Gran Coupe (F36)
7.16167.41.0	BMW	17137640515, 17137590626	1 Convertible (E88), 3 (E90), 3 Touring (E91)
7.16167.42.0	Mercedes-Benz	1715000049, A1715000049	SLK (R171)
7.16167.43.0	BMW	17138610661	X3 (G01, F97, G08), X4 (G02, F98), X5 (G05, F95), X6 (G06, F96), X7 (G07)
7.16167.44.0	BMW	17138610655, 17139485733	5 (G30, F90), 7 (G11, G12), 8 Coupe (G15, F92)
7.16167.45.0	BMW	17137823626	i3 (I01), MINI (F55), MINI Countryman (R60), MINI Roadster (R59)

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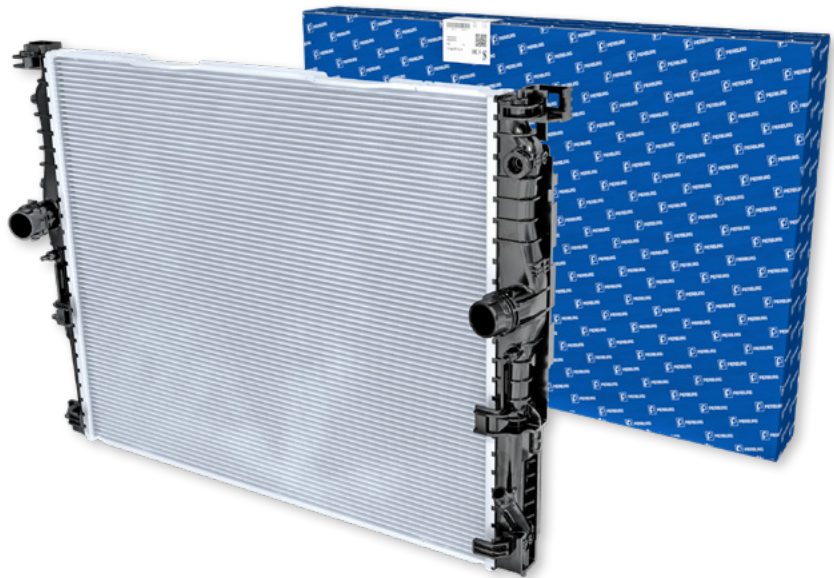
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RADIATORS

Radiators are often referred to as coolers. With 46 new radiators, Motorservice currently covers vehicles from BMW, Mercedes-Benz, Land Rover, Jaguar, Volvo and Porsche.

Pierburg products in OE quality are an important component of engine cooling, as they dissipate the heat from the engine and prevent overheating. Friction and combustion cause enormous heat in the engine. Part of this heat is absorbed by the coolant agent. The water pump, also known as the coolant pump, transports the hot coolant agent to the radiator. In most cases, this is located at the front of the car. The coolant agent flows through the fine channels of the radiator. At the same time, the head wind flows through the radiator and dissipates the heat. In most cases, the radiator is supported by a fan to ensure optimum cooling.

In the event of leaks in the radiator, replacement is essential to prevent overheating and thus permanent damage to the engine and other components. It is important to use a suitable antifreeze as otherwise the fine channels of the radiator may burst in the event of frost. The antifreeze also contributes to corrosion protection.



Item no.	Manufacturer	Ref. no.*	Example vehicles/engines
7.14928.01.0	BMW	17118672012	F18/N20
7.14928.02.0	BMW	17117559273	E90
7.14928.03.0	BMW	17118623369	F25/N20/N55
7.14928.05.0	BMW	17117547059	E89/90
7.14928.06.0	BMW	17118672104	F35/F30
7.14928.07.0	BMW	17119797807	G08
7.14928.08.0	BMW	17117562079	E90/N52
7.14928.09.0	BMW	17117617639	F56
7.14928.10.0	BMW	17117807624	F15/F16
7.14928.11.0	BMW	17118482624	F35LCI
7.14928.14.0	BMW	17118650745	G12 (- 06/2017)
7.14928.15.0	BMW	17118743664, 17118686026	G12/G38 (07/2017 ->)
7.14928.16.0	Mercedes-Benz	0995001303	W166
7.14928.17.0	Mercedes-Benz	2515000603	W164/W251
7.14928.18.0	Mercedes-Benz	2045001603	W204/W212/X204
7.14928.19.0	Mercedes-Benz	2215002603	W221/S350/S300
7.14928.21.0	Mercedes-Benz	2465001303	W246/W156
7.14928.22.0	Mercedes-Benz	2045003603	W204
7.14928.23.0	Mercedes-Benz	0995007303	W205/C200
7.14928.24.0	Land Rover	LR162110	RS (2014 ->)
7.14928.25.0	Land Rover	LR006715	F2/RE/S80L/XC60
7.14928.26.0	Land Rover	LR015560	D4 RS10
7.14928.27.0	Land Rover	LR015561	D3 3.0D
7.14928.28.0	Land Rover	LR062670	RS (2013 ->)
7.14928.29.0	BMW	17113415693	E83
7.14928.30.0	BMW	17118672102	F20/30/1.6T
7.14928.32.0	BMW	17118741830	F30LCI/F34LCI
7.14928.33.0	BMW	17119071518	E46
7.14928.34.0	BMW	17117570821	R52
7.14928.35.0	BMW	17118642743	G08
7.14928.36.0	BMW	17118666811	G20/G28
7.14928.37.0	BMW	17118742604	G38
7.14928.39.0	BMW	17118666748	G20/G28
7.14928.40.0	Porsche	9A712125110	95B
7.14928.41.0	Porsche	9A712125300	971
7.14928.42.0	Mercedes-Benz	0995002003	W205
7.14928.44.0	Mercedes-Benz	6365010201	W636
7.14928.45.0	Mercedes-Benz	2115000102	W211
7.14928.46.0	Mercedes-Benz	0995001703	W205
7.14928.47.0	Mercedes-Benz	1975000003	W204/W212
7.14928.48.0	Mercedes-Benz	2215003203	W221/S500CGI/S600
7.14928.49.0	Mercedes-Benz	0995004803	W166
7.14928.52.0	Mercedes-Benz	0995005003	W205
7.14928.53.0	Jaguar	C2C36506	F-TYPE
7.14928.54.0	Land Rover	LR021777	D4
7.14928.56.0	Volvo	31293550	XC90

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