





BEHR HELLA SERVICE

Bundled expertise for vehicle air conditioning and engine cooling.

Behr - experience and quality since 1905.

Through its renowned worldwide competence as an original equipment manufacturer for passenger vehicles, transporters, commercial vehicles, and now also agricultural and construction vehicles, Behr has produced genuine quality products for more than 100 years, offering optimal safety through the use of thermal management products. Behr air-conditioning and cooling components are perfectly harmonized and achieve an unrivalled level of cooling efficiency. They not only protect the engine, for example, against costly damage caused by overheating but also ensure optimum performance, environmental sustainability and engine service life. Behr has many years of experience and extensive know-how which guarantees the exceptional quality of the products – also in the area of agricultural and construction vehicles.

HELLA innovative power, know-how and creativity since 1899

HELLA has been shaping the future for 115 years. This globally positioned automotive supplier from Lippstadt, Germany develops, produces and sells components and systems for light technologies and electronics. With more than 100 sites in 35 nations, 30,692 employees and sales of approximately 5.3 billion euros in the fiscal year of 2013/2014, the HELLA Group is one of the top 50 automotive parts suppliers in the world. HELLA also has one of the largest retail organizations for automotive parts and accessories in Europe with its own sales companies and partners around the globe.

Behr Hella Service - combined competencies since 2005

Behr Hella Service is a joint venture of the companies Behr and HELLA. It was founded in November 2005 in order to jointly develop the trade of parts on the open market worldwide in the areas of vehicle air conditioning and engine cooling. Customers benefit from the expertise of the companies Behr and HELLA and from an outstanding service expertise in parts supply, the provision of technical information and training courses as well as sales support - both for independent parts retailers and for independent garages. We very recently also began supplying selected products for agricultural and construction vehicles as well as parts for passenger vehicles, transporters and commercial vehicles. Our portfolio in this area is continually expanding.





ENGINE COOLING FOR AGRICULTURAL VEHICLES

Reliable, efficient and optimum engine cooling.

Agricultural vehicles are frequently exposed to challenging weather conditions on a daily basis. The materials used must therefore satisfy stringent requirements. This especially applies for engines which must not only cope with inclement weather, but also high mechanical loads. To avoid problems during operation, reliable engine cooling must be ensured at all times. If a part becomes defective, a replacement must be quickly found to keep downtimes as low as possible. Behr Hella Service can offer you peace of mind as we have a strong portfolio of selected vehicle-specific and universal spare parts for agricultural vehicles in the area of engine cooling. A high parts availability and our special service ensures that work will not be interrupted for long – a basic prerequisite for higher customer satisfaction!



VEHICLE-SPECIFIC

COOLANT RADIATOR

Coolant radiators are indispensable for efficient engine cooling – also with agricultural vehicles. Depending on the application, downflow radiators in which the coolant enters the radiator from the top and exits at the bottom, are most commonly used in this case. Leaks are among the most likely defects to occur. In this case, a fast replacement – using a highquality coolant radiator for selected vehicles from the Behr Hella Service range – is required.



Part number	Vehicle application	OE number*	Version
8MK 376 710-001	MB UNIMOG	4255000703 4275010301 4275010601 4355000203 A4255000703 A4275010301 A4275010601 A4355000203	
8MK 376 765-421	MB UNIMOG	4375012801 A4375012801	Produced by AKG
8MK 376 710-011	JOHN DEERE 6000 SERIES 4 CYL	AL110865 AL110996 AL115002 AL115731 AL115732 AL116668 AL78001 AL78003	Produced by BEHR
8MK 376 710-021	JOHN DEERE 6000 SERIES 6 CYL	AL110419 AL111000 AL111629 AL111639 AL115003 AL115004 AL79036	Produced by BEHR
8MK 376 780-711	JOHN DEERE 7010 SERIES	RE199227	Produced by BEHR
8MK 376 783-621	JOHN DEERE 6020 SERIES 4 CYL	AL156285 AL157246 AL157248 AL163359 AL164429 AL164431 AL171542 AL176361	Produced by BEHR
8MK 376 783-631	JOHN DEERE 6020 SERIES 6 CYL	AL157247 AL157249 AL160276 AL161426 AL163360 AL164432 AL168727 AL171543 AL176362	Produced by BEHR

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* OE numbers are only for comparative purposes



Part number	Vehicle application	OE number*	Version
8MK 376 903-001	JOHN DEERE 6030 SERIES 4 CYL	AL176123 AL179271 AL181229 AL207766 AL209032	Produced by BEHR
8MK 376 903-011	JOHN DEERE 6030 SERIES 6 CYL	AL181230 AL207768 AL209034	Produced by BEHR
8MK 376 903-021	JOHN DEERE 7030 PREMIUM SERIES	AL176125 AL179273 AL181231 AL209041	Produced by BEHR
8MK 376 792-291	CASE NEW HOLLAND TD95	84172100 5099122	
8MK 376 792-491	NEW HOLLAND 48HP	5083735	
8MK 376 792-451	CASE JX80 NEW HOLLAND TD80	84175586 87681422	
8MK 376 949-021	DEUTZ ENGINE	04200939KZ 04251394KZ 04259454KZ	
8MK 376 949-031	DEUTZ ENGINE	04251395KZ 04259455KZ	
8MK 376 949-041	DEUTZ ENGINE	04200940KZ 04251396KZ 04259456KZ	
8MK 376 949-051	DEUTZ ENGINE	04251398KZ 04259458KZ	
8MK 376 949-061	DEUTZ ENGINE	04251399KZ 04259459KZ	
8MK 376 949-071	DEUTZ ENGINE	04251402KZ 04259462KZ	
8MK 376 949-081	DEUTZ ENGINE	04251403KZ 04259463KZ	

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EXPANSION TANK

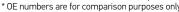
The purpose of the expansion tank is to receive the expanding coolant from the coolant circuit in the event of a temperature-related increase in pressure. The system pressure is reduced to the preset value by a valve integrated into the cap of the expansion tank. When the coolant temperature normalizes, a build-up of low pressure occurs in the cooling system and is regulated by the vacuum compensation valve in the cover plate of the tank. The flow of ambient air into the tank re-establishes the preset system pressure. Expansion tanks by Behr Hella Service satisfy the most stringent requirements and are therefore the first choice of replacement.



Part number	Vehicle application	OE number*	Version
8MA 376 705-191	MB UNIMOG	0005002149 A0005002149	Produced by BEHR
8MA 376 737-011	JOHN DEERE 6020 SERIES	AL153875 AL160274 AL169910	Produced by BEHR
8MA 376 903-031	JOHN DEERE 6030 SERIES	AL179270	Produced by BEHR

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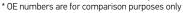
INTERCOOLER

Enhanced performance over the whole speed range, lower fuel consumption, improved engine efficiency, reduction of emissions, or reduced thermal load on the engine - these are just a few good reasons to cool the combustion air of supercharged engines using an intercooler. Basically, a distinction must be made between two types of cooling. Direct intercooling, where an intercooler is installed in the front area of the car and cooled by the ambient air (wind), and indirect intercooling, where coolant flows through the intercooler, absorbs the heat and transmits it to the ambient air. Replacing the intercooler with one from the Behr Hella Service range gets the engine "back up and running" in no time.



Part number	Vehicle application	OE number*	Version
8ML 376 723-711	MB UNIMOG	4375010501 4375010601 4375011401 A4375010501 A4375010601 A4375011401	Produced by BEHR
8ML 376 765-431	MB UNIMOG	4055003901 A4055003901	Produced by AKG
8ML 376 949-001	DEUTZ ENGINE	02148338EZ 02149932KZ	
8ML 376 949-011	DEUTZ ENGINE	02230932KZ 02230933EZ 02231576KZ 02232743KZ 02232754EZ 02234623KZ 02236227KZ	

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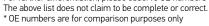
ENGINE OIL COOLER

Using oil coolers to cool engine oils that are under a high thermal load, i.e. ensuring a near constant temperature spectrum, has significant advantages. This increases oil change intervals and the engine service life. A differentiation is made as a basic rule between air and coolant-cooled variants. Depending on the requirements, the latter can be mounted in the coolant tank or engine block, or externally on the engine, transmission, cooling module or oil filter housing. Put your trust in Behr Hella Service, also when replacing engine oil coolers!



Part number	Vehicle application	OE number*	Version	Additional information
8MO 376 725-351	JOHN DEERE 50 SERIES	AL56373 AL66517	Produced by BEHR	
8MO 376 726-031	JOHN DEERE 6000/6010 SERIES 4 CYL	AL81176	Produced by BEHR	
8MO 376 726-391	JOHN DEERE 40 SERIES 4/6 CYL	AL31239 AL38448	Produced by BEHR	
8MO 376 901-011	MB UNIMOG U400	4055011401 A4055011401		
8MO 376 765-441	MB UNIMOG	4055014101 A4055014101	produced by AKG	
8MO 376 949-091	DEUTZ ENGINE	04158584KZ		
8MO 376 949-101	DEUTZ ENGINE	02233458KZ 02235019KZ		
8MO 376 949-111	DEUTZ ENGINE	02131242KZ 02137657KZ 02234295KZ 02235338KZ		
8MO 376 949-121	DEUTZ ENGINE	02237422KZ		
8MO 376 949-131	DEUTZ ENGINE	02233105KZ 02234802KZ 02237499KZ		
8MO 376 949-141	DEUTZ ENGINE	02421840KZ 04147612KZ 04148633KZ		
8MO 376 949-151	DEUTZ ENGINE	02421841KZ 04147613KZ 04148634KZ		
8MO 376 949-161	DEUTZ ENGINE	02421842KZ 04147614KZ 04148635KZ		

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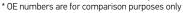




Part number	Vehicle application	OE number*	Version	Additional information
8MO 376 949-171	DEUTZ ENGINE	02421843KZ 04147615KZ 04148636KZ		
8MO 376 949-181	DEUTZ ENGINE	02427877KZ		
8MO 376 949-191	DEUTZ ENGINE	02427879KZ		
8MO 376 949-201	DEUTZ ENGINE	02427884KZ		
8MO 376 949-211	DEUTZ ENGINE	02139315EA 02139991EA 02230422EA 04150930EA 04230100EA		Lubricating oil cooler
8MO 376 949-221	DEUTZ ENGINE	02130672EB 02133084EB 02135650EB 02137666EB 02230413EB 02234409EA		Lubricating oil cooler
8MO 376 949-231	DEUTZ ENGINE	02133127KZ 02135696KZ 02137672KZ 02230416KZ 02234532KZ 04157695KZ		Lubricating oil cooler

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CABIN HEAT EXCHANGERS

The cabin heat exchanger is located in the vehicle interior beneath the dashboard. The air flow produced by the cabin fan is routed through the cabin heat exchanger, which has coolant flowing through it. The heated air is then discharged into the vehicle interior. Limescale deposits or leaks can render the cabin heat exchanger defective. In this case, it must be replaced – by one of the high-quality products from the Behr Hella Service portfolio, for example.



Part number	Vehicle application	OE number*	Version
8FH 351 311-731	FIAT	6448A7 95669446	Produced by BEHR
8FH 351 312-451	JOHN DEERE 40/50 SERIES 3/4 CYL FENDT	L57259 178810130080	Produced by BEHR
8FH 351 312-481	JOHN DEERE 40/50 SERIES 4/6 CYL SISU	AL56244 1181200171	Produced by BEHR
8FH 351 312-681	JOHN DEERE 30 SERIES 4/6 CYL MERCEDES MERCEDES	AL25956 0018356401 A0018356401	Produced by BEHR



Part number	Vehicle application
9MX 351 315-431	12 V universal heating system, complete unit
9MX 351 315-441	24 V universal heating system, complete unit



SIDE PIPE COVER

Part number	Vehicle application
8MY 351 320-251	Accessories for 12 V/24 V universal heating system



FRONT, 5 JETS, 60 MM

Part number	Vehicle application
8MY 351 320-241	Accessories for 12 V/24 V universal heating system



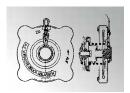
FRONT COVER

Part number	Vehicle application
8MY 351 320-231	Spare part for 12 V/24 V universal heating system

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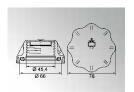


COVER PLATE AND PLUG



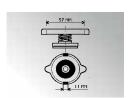
BAYONET CAP

Part number	Vehicle application	OE number*
8MY 376 742-241	STEYER VI	0005014615 0005017215 0005018515 A0005014615 A0005017215 A0005018515



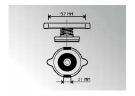
SCREW CLOSURE

Part number	Vehicle application	OE number*
8MY 376 742-311	JOHN DEERE 6000/6010 SERIES 4/6 CYL MERCEDES MERCEDES	AL76661 0005016415 A0005016415



BAYONET CAP

Part number	Vehicle application	Additional information
8MY 376 768-141	Universal	Opening pressure: 0.9 bar
8MY 376 768-151	Universal	Opening pressure: 0.25 bar
8MV 374 779_031	Universal	Opening pressure: 0.9 har





SCREW CLOSURE

Part number	Vehicle application	Additional information
8MY 376 779-021	Universal	Opening pressure: 1.4 bar
8MY 376 779-041	Universal	Opening pressure: 0.9 bar







DUMMY PLUG M22X1.5

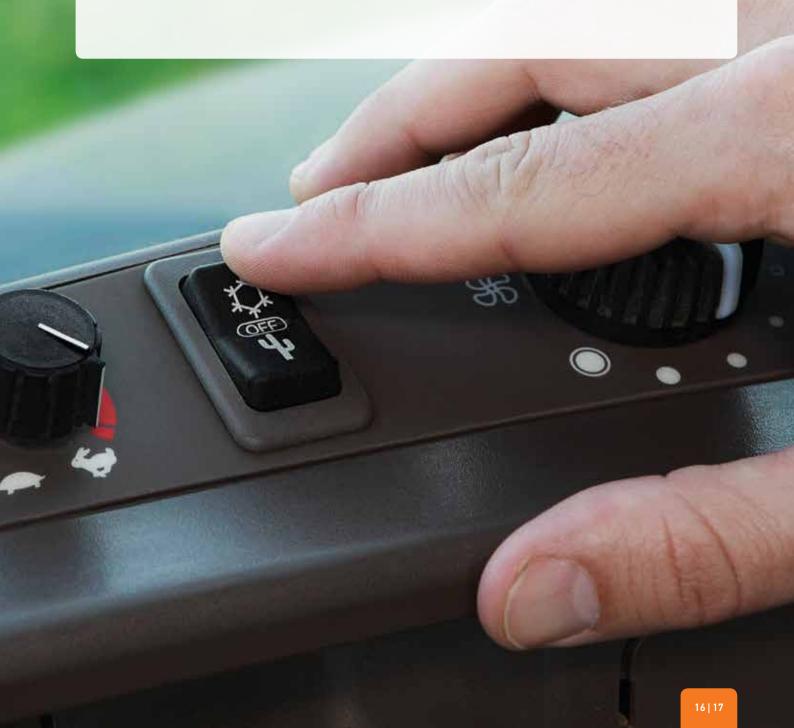
Part number	Vehicle application	Additional information
8MY 376 779-051	Universal	Thread dimension: M22x1.5



VEHICLE AIR CONDITIONING FOR AGRICULTURAL VEHICLES

Good climate. High productivity.

Not only the agricultural vehicle is exposed to regularly changing climate conditions, the driver is too. Extreme heat or cold makes work in the field more difficult and are not conducive to productivity. Misted windows can also easily impair visibility. An efficient air-conditioning system can alleviate this problem simply and comfortably with reliable cooling or heating, irrespective of the outside temperature. This enhances the well-being and concentration of the driver and keeps the windows mist-free. A defective air-conditioning system and accompanying deterioration in the ambient conditions for the driver can rapidly affect productivity. Behr Hella Service offers a high-quality range of vehicle-specific and universal spare parts for the air-conditioning systems of many agricultural vehicles, combined with optimum service. But don't just take our word for it – your reward will be the appreciation of your customers!



VEHICLE-SPECIFIC

AIR-CONDITIONING COMPRESSORS

The air-conditioning compressor compresses and/or transports the refrigerant in the system and is normally driven by the vehicle engine via a ribbed or V-ribbed belt. The refrigerant is sucked in as a gas at low temperature from the evaporator; then compressed and sent to the condenser as a gas at high temperature and high pressure. The size of the compressor varies, depending on the size of the system. A special oil which partially circulates with the refrigerant through the air-conditioning system is used for lubrication (see chapter Compressor oils on page 36). The most frequent causes of failure are bearing damage and leaks and these are often attributable to insufficient maintenance. Air-conditioning compressors for agricultural machines by Behr Hella Service quickly remedy this situation.



Part number	Vehicle application	OE number*	Version
8FK 351 124-091	CASE CASE CASE CASE CASE NEW HOLLAND NEW HOLLAND NEW HOLLAND STEYR	05811103 3405689C3 3405689R2 5176185 5176185 80450805 89508380 5176185	
8FK 351 124-591	CASE CASE CASE CASE CASE NEW HOLLAND NEW HOLLAND NEW HOLLAND STEYR	05811103 3405689C3 3405689R2 5176185 5176185 80450805 89508380 5176185	Version: ALTERNATIVE**
8FK 351 126-211	CLAAS	3269930	
8FK 351 126-711	CLAAS	3269930	Version: ALTERNATIVE**
8FK 351 126-231	SAME DEUTZ FAHR	16045127	
8FK 351 126-261	CLAAS	3503470	
8FK 351 126-761	CLAAS	3503470	Version: ALTERNATIVE**
8FK 351 126-041	NEW HOLLAND NEW HOLLAND NEW HOLLAND CASE CASE	84018078 89831429 84018077 84039022 84056429	
8FK 351 126-541	NEW HOLLAND NEW HOLLAND NEW HOLLAND CASE CASE	84018078 89831429 84018077 84039022 84056429	Version: ALTERNATIVE**

^{**} Alternative for vehicle repairs in relation to the current value, particularly older vehicles. Alternative product for equivalent Behr Hella Service original part.

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Part number	Vehicle application	OE number*	Version
8FK 351 126-681	LAMBORGHINI MASSEY-FERGUSON MASSEY-FERGUSON RENAULT SAME DEUTZ FAHR	001103234 3550921M91 4234471M1 6005016248 001103234	
8FK 351 130-101	LAMBORGHINI LAMBORGHINI SAME DEUTZ FAHR	04411400 04437338 04437338	
8FK 351 130-111	CASE CASE CASE CASE CASE NEW HOLLAND STEYR STEYR	47050714 86993462 1999755C2 1999755C3 86993462 1999755C2 1999755C3	
8FK 351 130-611	CASE CASE CASE CASE CASE STEYR STEYR	47050714 86993462 1999755C2 1999755C3 86993462 1999755C2 1999755C3	Version: ALTERNATIVE**
8FK 351 130-121	MASSEY-FERGUSON MASSEY-FERGUSON	3712528M2 3782613M2	
8FK 351 130-621	MASSEY FERGUSON MASSEY FERGUSON	3712528M2 3782613M2	Version: ALTERNATIVE**
8FK 351 130-131	MASSEY-FERGUSON NEW HOLLAND	71379601 5165548	
8FK 351 130-631	MASSEY-FERGUSON NEW HOLLAND	71379601 5165548	Version: ALTERNATIVE**
8FK 351 130-141	CASE CASE NEW HOLLAND NEW HOLLAND STEYR	87709785 87802912 87709785 87802912 87802912	
8FK 351 130-641	CASE CASE NEW HOLLAND NEW HOLLAND STEYR	87709785 87802912 87709785 87802912 87802912	Version: ALTERNATIVE**
8FK 351 130-151	CASE CASE CASE NEW HOLLAND NEW HOLLAND	317008A3 504078610 86993463 317008A3 86993463	
8FK 351 130-651	CASE CASE CASE NEW HOLLAND NEW HOLLAND	317008A3 504078610 86993463 317008A3 86993463	Version: ALTERNATIVE**

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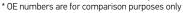
FILTER DRYER

The filter elements of the air-conditioning system are either referred to as filter dryers or accumulators, depending on the type of system. The purpose of the filter-dryer is to remove impurities from the refrigerant and dehumidify it. The upper section of the filter-dryer also functions as a compensation chamber and the lower section as refrigerant reservoir to compensate for fluctuations in system pressure. The drying medium becomes saturated after a certain amount of time, depending on the model, and cannot absorb further moisture. The filter dryer should therefore be regularly replaced. This must also be replaced each time the refrigerant circuit is opened – when carrying out a repair on the air-conditioning circuit, for example. Aging of the filter dryer can lead to severe defects in the air-conditioning system.



Part number	Vehicle application	OE number*	Version
8FT 351 195-691	MASSEY-FERGUSON MASSEY-FERGUSON RENAULT	338332M2 3712495M1 6025107659	







EXPANSION VALVE/ORIFICE TUBE

The expansion and orifice valve which is installed upstream of the evaporator represents the point of separation between the high and low-pressure sections of the refrigerant circuit and injects the liquid refrigerant into the evaporator. The refrigerant expands and evaporates, releasing evaporation cooling. Optimum cooling capacity in the evaporator can be achieved by regulating the refrigerant flow. Humidity and contamination in the air-conditioning system can severely impact the functional capability of expansion valves/orifice tubes and lead to malfunctions. In this case, replacement is often unavoidable – using quality products from the Behr Hella Service range, for example.



Part number	Vehicle application	OE number*	Version
8UW 351 234-041	CLAAS MERCEDES MERCEDES	06258640 0018300584 A0018300584	
8UW 351 234-051	CLAAS CLAAS FENDT FENDT MERCEDES RENAULT	6258540 6259391 395550050090 395550050160 0008304084 1268300284 1268300384 A0008304084 A1268300284 A1268300384 7701033339	
8UW 351 235-001	CASE CATERPILLAR MERCEDES MERCEDES	66398C1 1P6526 1158350072 A1158350072	
8UW 351 237-041	FIAT FIAT FIAT NEW HOLLAND NEW HOLLAND NEW HOLLAND NEW HOLLAND NEW HOLLAND	7794459 82403293 82475803 80430417 80449624 84004106 89513793	
8UW 351 239-081	FIAT FIAT FIAT MASSEY-FERGUSON	46721108 46721906 46722498 3902334M91	

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INTERIOR BLOWER/HOUSING

By ventilating the passenger compartment, the blower fan ensures clear vision and a pleasant climate – a basic prerequisite for a high standard of driving comfort. Failure of the fan results in an uncomfortable climate inside the vehicle, which has a negative impact on the driver's concentration and can adversely affect safety. Lack of ventilation can also cause the windshield to mist up and restrict visibility. If the fan becomes defective, it should therefore be replaced immediately.



Part number	Vehicle application	OE number*	Version
8EW 351 104-031	FENDT FENDT	G715810130310 G716810130311	Produced by BEHR
8EW 351 104-041	FENDT	G524810130101	Produced by BEHR
8EW 351 104-741	FENDT	F281500260060	Produced by BEHR
8EW 009 160-761	VALTRA (VALMET) VALTRA (VALMET)	1810201311 20503429	Produced by BEHR





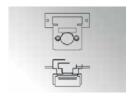


MISCELLANEOUS



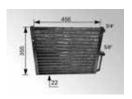
PRESSURE SWITCHES AND SWITCHES

Part number	Vehicle application	OE number*
6EB 351 001-001	CLAAS	1774550



RESISTANCE

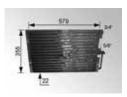
Part number	Vehicle application	OE number*
9ML 351 332-071	MERCEDES	0008211460 A0008211460



CONDENSER

Part number	Vehicle application	Input	Output
8FC 351 039-011	Universal	3/4"x16UNF - MIO	5/8"x18UNF - MIO
8FC 351 039-061	Universal	3/4"x16UNF - MIO	5/8"x18UNF - MIO
8FC 351 039-091	Universal	3/4"x16UNF - MIO	5/8"x18UNF - MIO





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AIR-CONDITIONING COMPRESSOR

Part number	Vehicle application	Code of cylinder head	Version
8FK 351 124-081	SD5H14; 24V; A2; 132 MM	FL	
8FK 351 124-091 8FK 351 124-591	SD5H14; 12V; A2; 132 MM SE5H14; 12V; A2; 132 MM	M M	Version: ALTERNATIVE**
8FK 351 126-021	SD7H15; 12V; PV6; 119 MM	KG	
8FK 351 126-041 8FK 351 126-541	SD7H15; 12V; A2; 132 MM SE7H15; 12V; A2; 132MM	KG KG	Version: ALTERNATIVE**
8FK 351 126-191	SD7H15; 12V; PV8; 119 MM	KG	
8FK 351 126-201	SD7H15; 24V; A2; 132 MM	JE	
8FK 351 126-211 8FK 351 126-711	SD7H15; 12V; A2; 132 MM SE7H15; 12V; A2; 132 MM	JE JE	Version: ALTERNATIVE**
8FK 351 126-221	SD7H15; 24V; A2; 132 MM	FZ	
8FK 351 126-231	SD7H15; 12V; A2; 132 MM	FZ	
8FK 351 126-271	SD7H15; 24V; PV8; 119 MM	JE	
8FK 351 126-681	SE7H15; 12V; A2; 132 MM		
8FK 351 128-001	SD7B10; 12V; A2; 115 MM	PB	
8FK 351 134-481	SD7H15; 12V; PV8; 119 MM	MB	



FILTER DRYER

Part number	Vehicle use	Input	Output	Length mm	Diameter mm	Number of pressure switch connections
8FT 351 196-711	Universal	5/8"x18UNF - FIO	5/8" X 18UNF - 6 FIO	200	75	2
8FT 351 198-031	Universal	3/8" - MIO	3/8" MIO	203	60	2
8FT 351 198-071	Universal	5/8"x18UNF - MIO	5/8" X 18UNF - 6 MIO	139	63,5	2
8FT 351 198-091	Universal	5/8"x18UNF - MIO	5/8" X 18UNF - 6 MIO	200	63,5	2
8FT 351 199-011	Universal	5/8"x18UNF - FOR	5/8" X 18UNF - 6 FOR	220	64	1

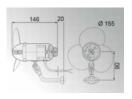


EXPANSION VALVE

Part number	Vehicle application	Input	Output
8UW 351 236-051	Universal	3/8" - MIO	1/2" - MIO

^{**} Alternative for vehicle repairs in relation to the current value, particularly older vehicles. Alternative product for equivalent Behr Hella Service original part.





UNIVERSAL FAN (QUIRL)

Part number	Vehicle application	Color
8EW 009 157-251	Universal	Gray
8EW 009 157-261	Universal	Black
8EW 009 157-791	Universal	Ivory



BLADE FOR UNIVERSAL FAN (QUIRL)

Part number	Vehicle application	Color
8EW 376 741-691	Universal	Gray



TRINARY PRESSURE SWITCH

Part number	Vehicle application	Thread dimension
6ZL 351 028-051	Universal	7/16"x20UNF
6ZL 351 028-061	Universal	3/8"x24UNF



THERMAL SWITCHES

Part number	Vehicle application	Additional information
6ZT 351 008-001	Universal	Power supply: 10 - 15 V direct-current voltage
6ZT 351 008-011	Universal	Power supply: 20 - 28 V direct-current voltage
6ZT 351 009-001	Universal	Length of capillary line: 49" (1250mm)
6ZT 351 009-021	Universal	Length of capillary line: 18" (450mm)



BRACKET

Part number	Vehicle application	Additional information
8HG 351 193-011	Universal	ø 75mm



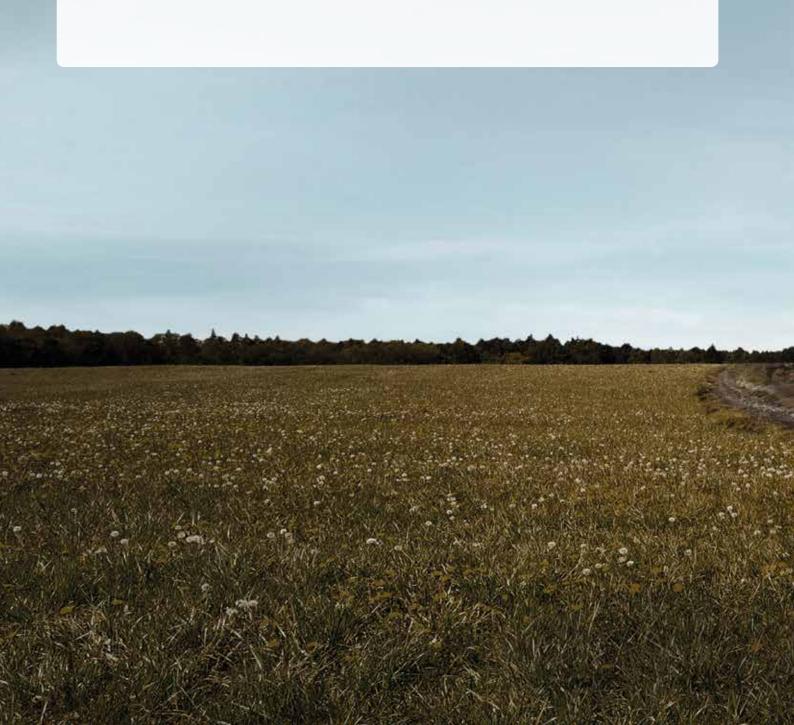
SOLENOID VALVE

Part number	Vehicle application	Input	Output	Voltage
8UW 351 245-001	Universal	3/8" - MIO	3/8" - MIO	12V



THERMAL MANAGEMENT CONSTRUCTION VEHICLES

Huge demands are often placed on construction vehicles during everyday use. Unfavorable ambient conditions, such as dust, dirt, moisture and fluctuating temperatures, place considerable demands on the material. Furthermore, the vehicles are frequently exposed continuously to mechanical loads when operating for many hours at a time which can in turn lead to pronounced signs of wear and overheating. To ensure operation is as smooth as possible, reliable thermal management is especially important as this provides optimum protection of the material used against overheating. Defective parts must be quickly replaced in order to keep downtimes short. The Behr Hella Service range comprises both products for various compressed air compressors and engines, and also engine cooling and vehicle air conditioning for construction vehicles by leading manufacturers.





PRODUCTS FOR ATLAS COPCO COMPRESSORS

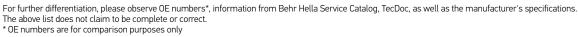
INTERCOOOLER

Air which is compressed by compressors can for physical reasons quickly heat up which can lead to impaired performance and, in the worst case, defects. It is therefore important to ensure a reliable reduction in the thermal load using intercoolers.

If the intercooler breaks down, this must be quickly replaced, especially in the case of portable and stationary compressors in the professional sector. Behr Hella Service also offers suitable high-quality intercoolers for stationary air screw compressors and for Atlas Copco portable construction compressors and high-quality intercoolers.



Part number	Vehicle application	OE number*	Additional information
8ML 376 949-321	ATLAS COPCO GA 30	1613836600 1613836602	Air cooler
8ML 376 949-341	ATLAS COPCO GA 45	1613836400 1613836402	Air cooler
8ML 376 949-361	ATLAS COPCO GA 37	1613836500 1613836502	Air cooler
8ML 376 949-371	ATLAS COPCO ZT 55-90	1614677500 1614678400	Intermediate cooler
8ML 376 949-441	ATLAS COPCO XAS136-XAS186	1604052801	After-cooler







ENGINE OIL COOLER

Using oil coolers to cool engine oils that are subject to high thermal loads, i.e. ensuring a near constant temperature spectrum, also has significant advantages in the case of air screw compressors and construction compressors. Oil change intervals can be extended and the overall service life of the engine increased. In the event the engine oil cooler with stationary Atlas Copco air screw compressors and with portable construction compressors needs to be replaced, a high-quality replacement can be quickly and reliably ensured using appropriate spare parts by Behr Hella Service.



Part number	Vehicle application	OE number*	Additional information
8MO 376 949-241	ATLAS COPCO GA 300	1202604500	
8MO 376 949-251	ATLAS COPCO GA 11-22	1202973500	Shell-type cooler
8MO 376 949-261	ATLAS COPCO GA 200	1202973900	Shell-type cooler
8MO 376 949-271	ATLAS COPCO GA 22	2903101800	Oil-air combination cooler
8MO 376 949-281	ATLAS COPCO	6243718400	Oil-air combination cooler
8MO 376 949-291	ATLAS COPCO	6243726100	
8MO 376 949-301	ATLAS COPCO	6243730100	
8MO 376 949-311	ATLAS COPCO GA 30	1613836600 1613836603	
8MO 376 949-331	ATLAS COPCO GA 45	1613836400 1613836403	
8MO 376 949-351	ATLAS COPCO GA 37	1613836500 1613836503	
8MO 376 949-381	ATLAS COPCO ZT 15-22 / ZT 22VSD ZT 30-45 / ZT 37-55VSD	1622131680	
8MO 376 949-391	ATLAS COPCO GA 5-11	1622059401	
8MO 376 949-401	ATLAS COPCO GR 110	1614764500 1614823700 1614884300 1621948400	
8MO 376 949-411	ATLAS COPCO GR 110	1614764500 1614823800 1621948500	
8MO 376 949-421	ATLAS COPCO GR 110	1614823900 1621948100	
8MO 376 949-431	ATLAS COPCO XAS96	1604531800 1615774701	Oil-oil combination cooler

For further differentiation, please observe OE numbers*, information from Behr Hella Service Catalog, TecDoc, as well as the manufacturer's specifications. The above list does not claim to be complete or correct.
* OE numbers are for comparison purposes only



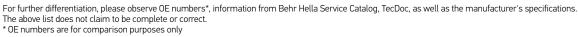
PRODUCTS FOR DEUTZ ENGINES

COOLANT RADIATOR

Coolant radiators are indispensible for efficient engine cooling, especially in the case of construction vehicles which are subject to high thermal loads. So-called downflow radiators, where the coolant enters from above and exits at the bottom, are also normally used in this area. Defects that require the radiator to be replaced can occur, particularly as a result of leaks. Behr Hella Service also offers various coolant radiators for Deutz engines in construction vehicles; they make ideal replacements and keep downtimes to a minimum which increases customer satisfaction.



Part number	Vehicle application	OE number*
8MK 376 949-021	DEUTZ ENGINE	04200939KZ 04251394KZ 04259454KZ
8MK 376 949-031	DEUTZ ENGINE	04251395KZ 04259455KZ
8MK 376 949-041	DEUTZ ENGINE	04200940KZ 04251396KZ 04259456KZ
8MK 376 949-051	DEUTZ ENGINE	04251398KZ 04259458KZ
8MK 376 949-061	DEUTZ ENGINE	04251399KZ 04259459KZ
8MK 376 949-071	DEUTZ ENGINE	04251402KZ 04259462KZ
8MK 376 949-081	DEUTZ ENGINE	04251403KZ 04259463KZ







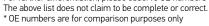
INTERCOOLER

As the name suggests, an intercooler ensures cooling of the combustion air in supercharged engines. The need to reduce the thermal load in construction vehicles and to extend their service life are crucial in this case. This also increases engine efficiency and performance. Fuel consumption and emissions can also sometimes be significantly reduced. If a defect occurs in the intercooler of a Deutz engine in a construction vehicle, a reliable and fast replacement can be ensured using suitable spare parts by Behr Hella Service.



Part number	Vehicle application	0E number*
8ML 376 949-001	DEUTZ ENGINE	02148338EZ 02149932KZ
8ML 376 949-011	DEUTZ ENGINE	02230932KZ 02230933EZ 02231576KZ 02232743KZ 02232754EZ 02234623KZ 02236227KZ

For further differentiation, please observe OE numbers*, information from Behr Hella Service Catalog, TecDoc, as well as the manufacturer's specifications. The above list does not claim to be complete or correct.





ENGINE OIL COOLER

Engine radiators especially bring significant advantages for engines subject to high thermal loads, such as those often used in construction vehicles. This has a positive effect on the service life of the engine in particular and also extends the oil change intervals. Depending on the requirements, engine radiators can be installed in the coolant tank or engine block or mounted externally on the engine, transmission, cooling module or oil filter housing. Behr Hella Service supplies a comprehensive selection of engine radiators that are quickly available when a replacement is necessary, an important factor which helps speed up the process of bringing the affected machines back into operation.



Part number	Vehicle application	OE number*	Additional information
8MO 376 949-091	DEUTZ ENGINE	04158584KZ	
8MO 376 949-101	DEUTZ ENGINE	02233458KZ 02235019KZ	
8MO 376 949-111	DEUTZ ENGINE	02131242KZ 02137657KZ 02234295KZ 02235338KZ	
8MO 376 949-121	DEUTZ ENGINE	02237422KZ	
8MO 376 949-131	DEUTZ ENGINE	02233105KZ 02234802KZ 02237499KZ	
8MO 376 949-141	DEUTZ ENGINE	02421840KZ 04147612KZ 04148633KZ	
8MO 376 949-151	DEUTZ ENGINE	02421841KZ 04147613KZ 04148634KZ	
8MO 376 949-161	DEUTZ ENGINE	02421842KZ 04147614KZ 04148635KZ	
8MO 376 949-171	DEUTZ ENGINE	02421843KZ 04147615KZ 04148636KZ	
8MO 376 949-181	DEUTZ ENGINE	02427877KZ	
8MO 376 949-191	DEUTZ ENGINE	02427879KZ	
8MO 376 949-201	DEUTZ ENGINE	02427884KZ	
8MO 376 949-211	DEUTZ ENGINE	02139315EA 02139991EA 02230422EA 04150930EA 04230100EA	Lubricating oil cooler

For further differentiation, please observe 0E numbers*, information from Behr Hella Service Catalog, TecDoc, as well as the manufacturer's specifications. The above list does not claim to be complete or correct.
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Part number	Vehicle application	OE number*	Additional information
8MO 376 949-221	DEUTZ ENGINE	02130672EB 02133084EB 02135650EB 02137666EB 02230413EB 02234409EA	Lubricating oil cooler
8MO 376 949-231	DEUTZ ENGINE	02133127KZ 02135696KZ 02137672KZ 02230416KZ 02234532KZ 04157695KZ	Lubricating oil cooler

For further differentiation, please observe OE numbers*, information from Behr Hella Service Catalog, TecDoc, as well as the manufacturer's specifications. The above list does not claim to be complete or correct.

* OE numbers are for comparison purposes only







PRODUCTS FOR CONSTRUCTION VEHICLES

ENGINE COOLING

In the area of construction vehicles in particular, reliable and efficient engine cooling is particularly crucial as these engines must be able to withstand particularly high thermal loads. The Behr Hella Service product range in this area comprises expansion tanks and also intercoolers and engine oil coolers. This gives you a sound basis on which to build!



EXPANSION TANK

Part number	Vehicle application	OE number*
8MA 376 705-241	LIEBHERR	10337944



INTERCOOLER

Part number	Vehicle application	0E number*
8ML 376 722-011	LIEBHERR	10331001 K01899990



ENGINE OIL COOLER

Part number	Vehicle application	OE number*
8MO 376 780-681	TEREX	19631912

For further differentiation, please observe 0E numbers*, information from Behr Hella Service Catalog, TecDoc, as well as the manufacturer's specifications. The above list does not claim to be complete or correct.

* OE numbers are for comparison purposes only



VEHICLE AIR CONDITIONING

Not just the materials of construction vehicles must cope with challenging ambient conditions, the driver must too. This makes it all the more important to optimize the vehicle air conditioning to ensure pleasant operating conditions in the interior and create the conditions in which work can be comfortably carried out. This is no problem with Behr Hella Service vehicle air conditioning solutions!



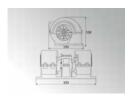
COMPRESSOR

Part number	Vehicle application	OE number*
8FK 351 119-231	VOLVO	11104419 11412632 15082742



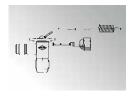
INTERIOR BLOWER

Part number	Vehicle application	OE number*
8EW 009 158-461	ATLAS WEYHAUSEN	1379337



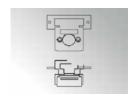
INTERIOR BLOWER+HOUSING

Part number	Vehicle application	OE number*
8EW 009 160-761	VALTRA (VALMET)	1810201311 20503429



EXPANSION VALVE

Part number	Vehicle application	OE number*
8UW 351 235-001	CASE CATERPILLAR MERCEDES MERCEDES	66398C1 1P6526 1158350072 A1158350072



RESISTANCE

Part number	Vehicle application	OE number*
9ML 351 332-071	MERCEDES	0008211460 A0008211460

For further differentiation, please observe OE numbers*, information from Behr Hella Service Catalog, TecDoc, as well as the manufacturer's specifications. The above list does not claim to be complete or correct.
* OE numbers are for comparison purposes only



AIR-CONDITIONING COMPRESSOR OILS

Compressor oils by Behr Hella Service. Get things running like a well-oiled machine.

Oil plays an important role in the air-conditioning system, no matter whether it's required when the compressor is replaced or for refilling during the air conditioning service. Like blood in the human body, the oil fulfils "vital" tasks in the air conditioning system. Critical for the safe and permanent operation of the system, however, is the use of a high-grade compressor oil. As with engines, if low-quality or even the wrong oil is used on the air-conditioning system this leads to increased wear, premature compressor failure and, under certain circumstances, to loss of warranty/guarantee. Behr Hella Service offers a wide range of PAG, PAO and POE oils which are perfectly matched to their corresponding use and can therefore considerably extend the service life of the air-conditioning system.

Note:

Choosing the wrong oil can cause damage. Vehicle or manufacturer-specific instructions must be followed carefully.



PAG OIL

PRODUCT FEATURES

PAG oils are fully synthetic polyalkylene glycol based hygroscopic oils. Numerous vehicle and compressor manufacturers use them in different viscosities at their plants for air-conditioning systems that work with R134a refrigerant.

The new special PAG oils 46 YF and 100 YF are suitable for both of the refrigerants R1234yf and R134a.



APPLICATION/EFFECT

PAG oils are highly miscible with R134a (PAG oils 46 YF and 100 YF also with R1234yf) and are suitable for lubricating the air-conditioning systems of most passenger and commercial vehicles.

Choosing the right viscosity classification is crucial when using PAG oils (PAG 46, PAG 100, PAG 150). The vehicle manufacturer's specifications and approved products should be observed when doing so.

ADDITIONAL DETAILS

The disadvantage of PAG oils is that they are hygroscopic, i.e. they absorb and bind humidity from the ambient air. For this reason, opened oil containers must be resealed immediately and once opened, the remaining oil cannot be stored indefinitely. This is particularly important for the fresh oil containers at the air-conditioning service unit.



PAO OIL 68 AND PAO OIL 68 PLUS UV

PRODUCT FEATURES

PAO Oil 68 is not hygroscopic, i.e. unlike other oils, it does not absorb moisture from the ambient air. It can be used as an alternative to the various PAG oils that are offered for R134a*. In most cases therefore, you only need to stock one type of oil, instead of three different PAG oils.

PAO oil 68 has proven itself over more than 10 years' practical use and contributes to increased air-conditioning performance. It has no negative effects whatsoever on the components of the air-conditioning circuit. The same applies to its use in air-conditioning service stations (confirmed by the manufacturer on the basis of the sealed tube test described in the ASHRAE 97 standard).

The oil is available without an added contrast agent (PAO 0il 68) or with it included (PAO 0il 68 Plus UV).

Using PAO oil 68 and PAO oil 68 Plus UV in Behr Hella Service compressors fully maintains the warranty entitlement.

(* apart from in electric compressors.)



APPLICATION/EFFECT

PAO Oil 68

The molecules of the PAO 0il 68 adhere to all surfaces in the system, force out other molecules and remain as a thin layer on the inner surface of the system components. Due to the fact that the molecules do not try to connect to each other, this oil layer is just one molecule "thick". Therefore, in contrast to many other oils, there is no risk of oil collecting in the evaporator and the connected loss of cooling output when PAO 0il 68 is used. Due to the fact that PAO 0il 68 only slightly connects to the refrigerant, just a small part of the oil circulates through the system. The rest stays where the oil is actually needed – in the compressor.

An oil film in the components improves the seal or respectively reduces the friction between the moving parts in the compressor. This reduces the operating temperature and the wear. All this plays an important role in the operating safety and reduction of noise and also ensures that compressor run-times are shorter, thus reducing energy consumption.

PAO Oil 68 Plus UV

PAO Oil 68 Plus UV has the same advantageous properties as PAO Oil 68. It is additionally enhanced with a concentrated, highly effective contrast agent that is used for UV leak detection. The advantage of the low volume % concentration of the contrast agent is that all the properties of the oil are retained and there are no negative effects on system components or service units whatsoever.

And 10 volume % of the system oil quantity is already sufficient to carry out effective troubleshooting. For example, with a total system oil quantity of 180 ml, this corresponds to just 18 ml PAO Oil 68 Plus UV.

Of course, PAO Oil 68 Plus UV can also be used for filling the whole system without there being any negative effects.



ADDITIONAL DETAILS

Can PAO Oil 68 be used for conversions? Is PAO Oil 68 compatible with other oils?





PAG and PAO Oil 68 mixed

PAG and PAO Oil 68 separated

How was PAO Oil 68 Plus UV tested?

PAO Oil 68 Plus UV was tested by manufacturer and independent institutes. Thus, for example, chemical stability was tested in connection with the refrigerant and different O-ring materials on the basis of the so-called "sealed tube test", corresponding to the standard ASHRAE 97.

All the tests showed a positive result, confirming that negative effects on components in the vehicle air-conditioning system or the air-conditioning service station can be excluded. Thus PAO Oil 68 Plus UV can be filled directly into a component, e.g. the compressor, or via the air-conditioning service station into the refrigerant circuit.

PAO Oil 68 also does not corrode fluoroelastomer materials, e.g. those used for hoses or seals.

Since PAO 0il 68 is compatible with many other lubricants and refrigerants, PAO 0il 68 can be used both for refilling and replacing the whole system oil capacity. Due to the independent molecular structure and density, PAO 0il 68 mixes to a certain extent with other oils, but separates from them again when it "comes to rest", and does not form a permanent compound.

This guarantees that the necessary viscosity of the oils is maintained and there is no change in the overall viscosity (see Figs 1 and 2). Thanks to its unique combination of highly refined, synthetic oil and special performance-enhancing additives, PAO Oil 68 can cope with a very wide range of operating temperatures (–68 to 315°C).

Can PAO Oil 68 be used where there are humidity problems?

PAO Oil 68 is not hygroscopic, i.e. unlike other oils, it does not absorb moisture from the ambient air. This means that humidity problems, e.g. icing of components or formation of acids, can be counteracted simply by using PAO Oil 68. The application possibilities and the storage ability of PAO Oil 68 are much greater than with conventional oils.

Special features and properties

- → No risk of oil collecting in the evaporator and the associated deterioration in cooling performance
- → An oil film in the components improves the seal
- → Reduction of the friction between the components
- → Reduced energy consumption of the compressor
- → Unique combination of highly refined, synthetic oil and special performance-enhancing additives
- → Very wide range of operating temperatures (–68 to 315 °C)
- → Low volume % of the highly active contrast agent PAO 0il 68 Plus UV, which means protection and reduced wear of the system components and service units



POE OIL

PRODUCT FEATURES

Electric air-conditioning compressors in hybrid vehicles are powered by an internal electric motor that operates in the high voltage range. The compressor oil in these compressors comes into contact with the electric motor coil, amongst other things. As such, it has to satisfy particular requirements:

- → It must not have any adverse effect on the materials used in the compressor.
- → It must be resistant to electrical short circuits to a certain degree.

The POE oil offered by Behr Hella Service satisfies these requirements.



APPLICATION/EFFECT

- → Can be used on all hybrid vehicles with electrical compressor filled with POE Oil at the factory.
- → Bottled in spotgun cartridges, which gives it maximum protection against moisture (Problem: POE 0il is hygroscopic).

FURTHER DETAILS

- → Using the spotgun (cartridge press), it can either be filled straight into the vehicle (with the aid of an adapter hose with low pressure connection) or into the oil tank on the air-conditioning service unit.
- → Spotgun cartridge 120 ml.
- → Each individual cartridge is sealed in an aluminum bag.
- → The aluminum bag also contains a smaller bag with desiccant (moisture-absorbing granules) to so the oil has optimum protection against moisture.



COMPARISON OF OILS

Type of oil	Mounting set	Comment
PAG oils for refrigerant R134a	Different grades of PAG Oil with different flow properties (viscosities) are available for use with refrigerant R134a. As PAG oils are hygroscopic, cans do not have a long shelf life once opened.	Standard PAG oils are not suitable for refrigerant R1234yf or for electrically powered air-conditioning compressors
PAG oil YF for refrigerant R1234yf	Different PAG oils with different flow properties (viscosities) are still available for use with refrigerant R1234yf. What makes these PAG oils from Behr Hella Service so special, is that they are not only suitable for use with R1234yf, but can also be used with the refrigerant R134a. As PAG oils are hygroscopic, cans do not have a long shelf life once opened.	PAG oil YF is suitable for both of the refrigerants R1234yf and R134a
PAO oil for refrigerant R134a and other refrigerants	Can be used as an alternative to the various PAG oils that are offered for R134a (has the advantage of not being hygroscopic, i.e. unlike other oils, it does not absorb moisture from the ambient air). The 3 different grades of PAO oils that Behr Hella Service offers (AA1, AA2 und AA3) can be used in conjunction with numerous different refrigerants (see product overview). At present, however, the PAO oils offered by Behr Hella Service are not approved for use with R1234yf, or for use in electric compressors of hybrid vehicles.	
POE oils for refrigerant R134a	Can be used on all hybrid vehicles with electrical compressor filled with POE oil at the factory (some electrically powered compressors for hybrid vehicles are also filled with special PAG oil at the factory).	Not suitable for refrigerant R1234yf



PRODUCT OVERVIEW

Product	Usage	Compressor type	Refrigerant	Viscosity classification	Contents	Part number
PAG oil (tin)	Vehicle air-conditioning systems* Vehicle air-conditioning systems* Vehicle air-conditioning systems*	all types** all types** all types**	R134a R134a R134a	PAG I (ISO 46) PAG II (ISO 100) PAG III (ISO 150)	240 ml 240 ml 240 ml	8FX 351 213-031 8FX 351 213-051 8FX 351 213-041
PAG oil (spotgun cartridge)	Vehicle air-conditioning systems* Vehicle air-conditioning systems* Vehicle air-conditioning systems*	all types** all types** all types**	R134a R134a R134a	PAG I (ISO 46) PAG II (ISO 100) PAG III (ISO 150)	240 ml 240 ml 240 ml	8FX 351 213-061 8FX 351 213-081 8FX 351 213-071
PAG oil YF	Vehicle air-conditioning systems* Vehicle air-conditioning systems*	all types** all types**	R1234yf, R134a R1234yf, R134a	PAG I (ISO 46) PAG II (ISO 100)	240 ml 240 ml	8FX 351 213-121 8FX 351 213-131
PAO oil 68	Vehicle air-conditioning systems*	all types** (except impeller type)	R134a, R413a, R22, R12	AA1 (ISO 68) AA1 (ISO 68) AA1 (ISO 68)	500 ml 1.0 l 5.0 l	8FX 351 214-031 8FX 351 214-021 8FX 351 214-101
	Refrigerator trucks (fresh product vehicles)	Reciprocating compressors**	R134a, R507a, R500, R12			
	Refrigerator trucks (frozen product vehicles)	Reciprocating compressors**	R507a, R502, R22			



Product	Usage	Compressor type	Refrigerant	Viscosity classification	Contents	Part number
	Vehicle air-conditioning systems*	all types** (except impeller type)	R404a, R407c, R401b, R401c, R409a, R409b	AA2 (ISO 32)	1.0 l	8FX 351 214-061
	Refrigerator trucks (fresh product vehicles)	Reciprocating compressors**	R404a, R407c, R409b			
	Refrigerator trucks (frozen product vehicles)	Reciprocating compressors**	R404a, R407c, R402a, R403a, R408a			
	Vehicle air-conditioning systems*	Impeller-type compressors**	R134a, R413a	AA3 (ISO 100)	1.0 l	8FX 351 214-081
PAO oil 68 Plus UV	Vehicle air-conditioning systems*	all types** (except impeller type)	R134a, R413a, R22, R12	AA1 (ISO 68) AA1 (ISO 68) AA1 (ISO 68)	500 ml 1.0 l 5.0 l	8FX 351 214-201 8FX 351 214-211 8FX 351 214-221
	Refrigerator trucks (fresh product vehicles)	Reciprocating compressors**	R134a, R507a, R500, R12			
	Refrigerator trucks (frozen product vehicles)	Reciprocating compressors**	R507a, R502, R22			
	Vehicle air-conditioning systems*	all types** (except impeller type)	R404a, R407c, R401b, R401c, R409a, R409b	AA2 (ISO 32)	1.0 l	8FX 351 214-261
	Refrigerator trucks (fresh product vehicles)	Reciprocating compressors**	R404a, R407c, R409b			
	Refrigerator trucks (frozen product vehicles)	Reciprocating compressors**	R404a, R407c, R402a, R403a, R408a			
	Vehicle air-conditioning systems*	Impeller-type compressors**	R134a, R413a	AA3 (ISO 100)	1.0 l	8FX 351 214-281
POE oil	Hybrid vehicles	electrical compressors	R134a		120 ml	8FX 351 213-111

^{*} Passenger cars, trucks, agricultural and construction vehicles ** Except electrical compressors



