

Product Catalogue

Valid from April 2010

■ *Water Heating Systems*

Small Water Heaters
Big Water Heaters
Comfort Accessories Water Heaters
Circulation Pumps
Water Stations
Cargo hold heating

■ *Air Heating Systems*

Air Heaters

■ *Integrated Heating System*

Integrated Heater

■ *Air Conditioning Systems*

A/C systems for commercial vehicles
Parking Cooler

■ *Sunroof Systems*

Pop-ups
Sliding / tilting
Folding
Panorama
Inbuilts

■ *Commodities*

Cooking Systems

General notes

All deliveries made by us shall be governed exclusively by our conditions of sale and delivery.

This price list supersedes and renders invalid the previous product catalogue 2009.
Subject to change without prior notice.

Please take also note of the Webasto „Accessories Catalogue for Air and Water heaters“ (Part no. 9012207C).

The following abbreviations have been used with article names and type of packaging of the respective products:

SOD = Scope of delivery / UGK = Upgrade kit / SP = Spare Part / SP-HT = Spare Part Heater / D = Diesel / P = Petrol / AC = Air condition / ACC = Automatic Climate Control / Assy. = Assembly / MY = Model Year / MR = Model Range / CU = Control Unit / AM = Aftermarket / compl. = Complete

Technical notes

Important note pertaining to heaters installed in vehicles for the transport of dangerous goods:

When installing the heaters in vehicles for the transport of dangerous goods, the requirements laid down in ADR 2005 (Technical Guidelines relating to the ordinance of transporting hazardous goods on the road) must be fulfilled in addition to those of the StVZO (Regulations Authorizing the Use of Vehicles for Road Traffic).

The heaters Air Top 2000 ST, Air Top Evo 3900, Air Top Evo 5500 and Thermo 90 ST which are named in the Product Catalogue are in compliance with the requirements mentioned above, provided the ADRspecific notes contained in the installation instructions are observed during installation.

In type EX/II and EX/III vehicles, the heaters may only be installed for heating the driver's cab or the engine.

Important note pertaining to heaters installed on boats and ships:

Government regulations that may vary in the different regions may exist concerning the mode, installation and design of heaters designed for installation on boats. Compliance with such regulations is checked and verified by various authorities. Please inform yourself which regulations may apply in the region where you wish to operate your boat so that you can take these regulations into consideration when selecting the heater and planning its installation. For the installation and/or routing of fuel lines inside engine compartments, only components meeting the requirements of EN ISO 7840 may be used.

Please also note: When installing in the motor compartment of a boat all respective fuel supply components must be fireproof, according to EN ISO 7840. To comply with this the following components have to be ordered additionally: 1311330A Damping protection fuel pump 66958B Fuel supply kit, 64891A Connection tube rubber, 64892A fuel tube stainless steel.

Important note pertaining to the installation of compact roof-top air conditioning systems:

The design of the compact roof-top systems may change the strength properties of vehicle cabs and must thus be checked and discussed with the vehicle manufacturer. Respective regulations reporting the technical state of the art have to be complied with.

Passenger
Car



Van /
Minibus



Camper



Truck



Truck for transport
of dangerous goods



Buses



Body
structures



Construction
machines



Agricultural
machines



Rail vehicles



Boats/ships



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Air Conditioning Systems

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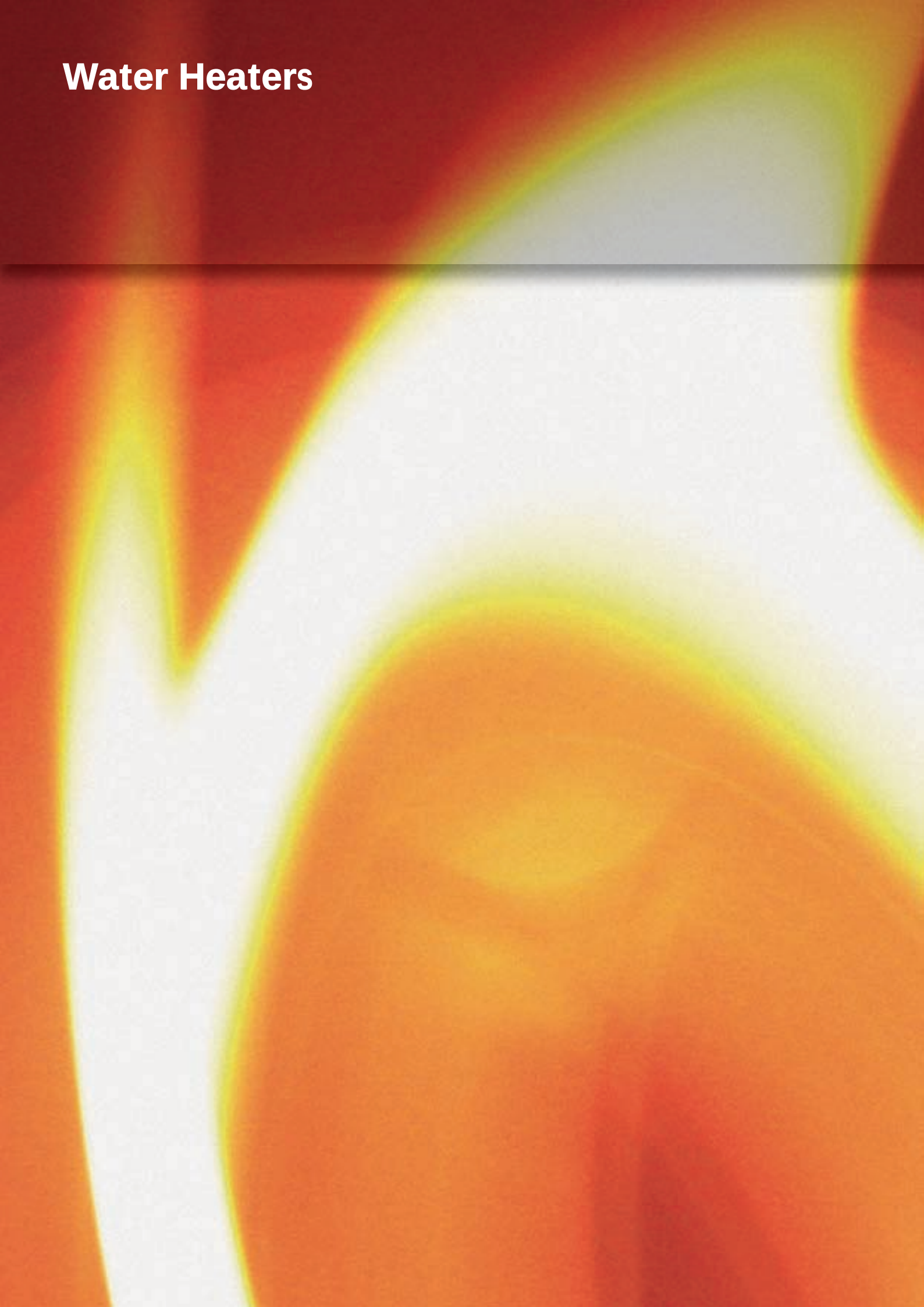
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Water Heaters



Comfort that enthuses!



Thermo Top C



Thermo 90 ST

- Performance from 4 up to 35 kW
- Versatile use for all market segments
- Compact design
- Robust combustion technology and dependable operation
- Broad spectrum of available application solutions

Water Heating Systems

Small Water Heaters

Thermo Top E



Thermo Top E	*	*				*				

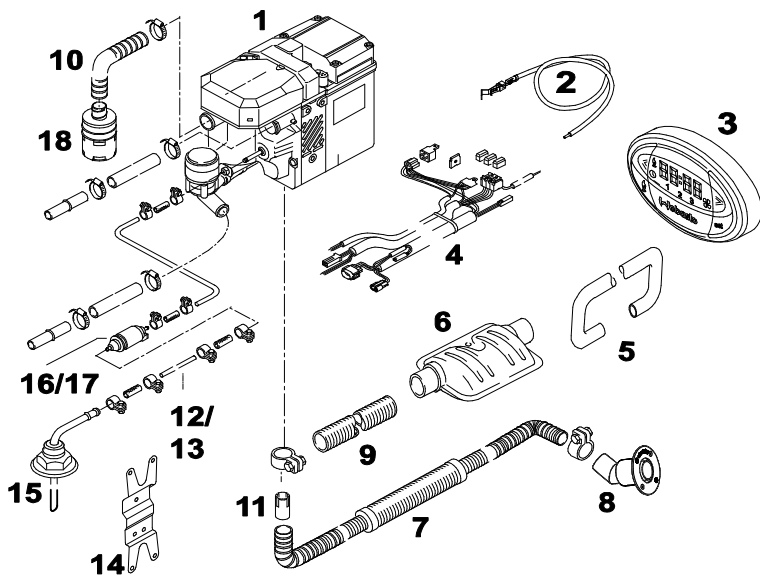
Technical Data					
			Diesel	Petrol	
EG-Type approval code			e1*2001/56*0104*__	e1*2001/56*0104*__	
Heating output	Partial / Full load	kW	2,5 / 4,2		2,5 / 4,2
Fuel consumption	Partial / Full load	kg/h	0,3 / 0,49		0,34 / 0,56
Rated Voltage		V	12		12
Rated power consumption with circulation pump	Partial / Full load	W	32 / 37		32 / 37
Fuel Types			Diesel /PME-mix, with <50% PME-part		Petrol
Operating temperature range			-40 to +60		-40 to +60
Dimensions (LxBxH)			214 x 106 x 168		214 x 106 x 168
Weight			2,9		2,9
Tolerance ± 10%					

See notes on page 2. Option touch switch for immediate heating 9012968A.

Heater is appropriate for: Compact class vehicles up to 2000 ccm, with single chord fuel system.

Circulation pump U4847 Econ: Volume flow 450 l/h, Weight 0.3 kg, Dimensions (LxWxH) 95 x 81 x 81.

Scope of Delivery



Pos. nr.	Part Description
1	Heater
2	Ventilation Tube
3	Digital timer 3 preselection times 1533
4	Wiring harness Thermo Top C
5	Preformed hose D20 x 3,5
6	Exhaust silencer D22
7	Exhaust silencer D24 tight
8	Wall-feed-through D24 straight
9	Flexible tube D22 1000 mm
10	Flexible tube H-M-A D21,4 400 mm
11	Exhaust pipe reduction cover 22/24
12	Tube 5x1,5 NF 5000mm
13	Tube 5x1,5 NF 6000mm
14	Support
15	Tank extracting device
16	Dosing pump DP2, bag
17	Dosing pump DP30, bag
17	Dosing pump DP30 Marine , bag
18	Air intake silencer, bag

Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Standard																				
9003169C	SOD Thermo Top E P 12V Basic without Control element	*			*	*	*			*	*		*	*	*	*	*	*	*	*
9003170C	SOD Thermo Top E D 12V Basic without Control element	*			*	*	*			*	*		*	*	*	*	*	*	*	*
Part Number																				
Marine																				
9019718A	SOD Thermo Top E Comfort Classic 12V Diesel	*			*	*	*			*	*		*	*	*	*	*	*	*	*
9009334C	SOD Thermo Top E Marine 12V D	*		*	*	*	*			*	*		*	*	*	*	*	*	*	*

Water Heating Systems

Small Water Heaters

Thermo Top C



Thermo Top C	*	*	*				*				

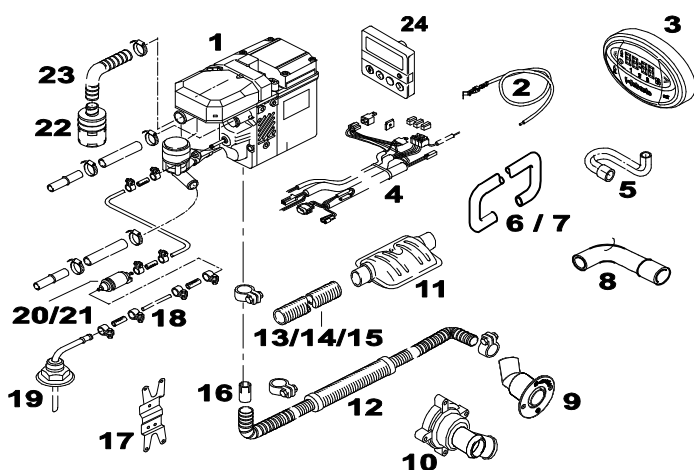
Technical Data				Diesel	Petrol
EG-Type approval code				e1*2001/56*0002*--	e1*2001/56*0002*--
Heating output	Partial load / Full load	kW		2,5 / 5,2	2,5 / 5,2
Fuel consumption	Partial load / Full load	kg/h		0,3 / 0,61	0,34 / 0,7
Rated Voltage		V		12	12
Rated power consumption with circulation pump	Partial load / Full load	W		32 / 42	32 / 42
Fuel Types				Diesel /PME-mix, with <50% PME-part	Petrol
Operating temperature range		°C		-40 to +60	-40 to +60
Dimensions (LxBxH)		mm		214 x 106 x 168	214 x 106 x 168
Weight		kg		2,9	2,9
Tolerance ± 10%					

See notes on page 2. Option touch switch for immediate heating 9012968A.

Heater is appropriate for: Middle class and upper middle class vehicles, 2000 to 3000 ccm.

Circulation pump U4847 Econ: Volume flow 450 l/h, Weight 0.3 kg, Dimensions (LxWxH) 95 x 81 x 81.

Scope of Delivery



Pos. nr.	Part Description
1	Heater
2	Tube
3	Digital timer 1533
4	Wiring harness Thermo Top C
5	Preformed hose DI20 DI 15 180°/ 90°
6	Preformed hose D20 x 3,5
7	Preformed hose 20/18 60 long
8	Preformed hose DI18x3,5 90° L215
9	Wall-feed-through D24 straight
10	Pump housing
11	Exhaust silencer D22
12	Exhaust silencer Marine
13	Flexible tube D22 1000mm
14	Flexible tube D22x2 INOX 580 mm
15	Flexible tube D22x2 INOX 1000 mm
16	Exhaust pipe reduction cover 22/24
17	Support
18	Tube 5x1,5 NF 5000mm
19	Tank extracting device
20	Dosing pump DP2, bag
21	Dosing pump DP30, bag
22	Dosing pump DP30 Marine, bag
23	Air intake silencer, bag
24	Digital timer with toggle switch

Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Standard																									
9003167C	SOD Thermo Top C P 12V Basic without Control element	*			*	*	*					*	*					*	*	*	*	*	*	*	*
9003168C	SOD Thermo Top C D 12V Basic without Control element	*			*	*	*					*	*					*	*	*	*	*	*	*	*
89246B	SOD Thermo Top Z D 12V	*			*	*	*					*	*					*	*	*	*	*	*	*	*

Water Heating Systems

Small Water Heaters

Thermo Top C



Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Motorhomes																									
9015824A	SOD Thermo Top C Motorcaravan Basic	*			*							*									*				*
9008069C	SOD Thermo Top C D 12V Motorcaravan	*			*	*	*					*				*		*	*		*		*	*	*
Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Marine																									
9009335C	SOD Thermo Top C D 12V Marine	*		*	*		*			*			*				*	*	*	*		*	*	*	

Water Heating Systems

Small Water Heaters

Thermo Top P

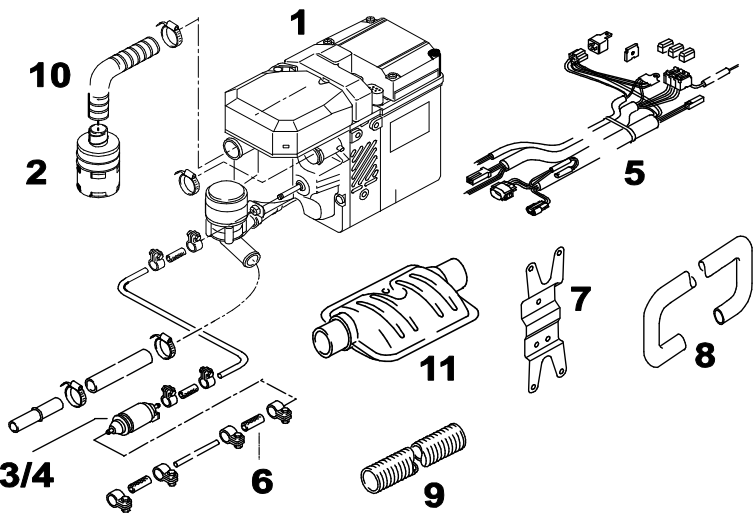


Thermo Top P	*	*									

Technical Data				Diesel	Petrol
EG-Type approval code		e1*2001/56*0104*__		e1*2001/56*0104*__	
Heating output	Partial load / Full load	kW		2,5 / 5,2	2,5 / 5,2
Fuel consumption	Partial load / Full load	kg/h		0,3 / 0,61	0,34 / 0,7
Rated Voltage		V		12	12
Rated power consumption with circulation pump	Partial load / Full load	W		32 / 42	32 / 42
Fuel Types		Diesel /PME-mix, with <50% PME-part		Petrol	
Operating temperature range		°C		-40 to +60	-40 to +60
Dimensions (LxBxH)		mm		214 x 106 x 168	214 x 106 x 168
Weight		kg		2,9	2,9
Tolerance ± 10%					

See notes on page 2. Option touch switch for immediate heating 9012968A. Heater is appropriate for: Large capacity limousines, Mini vans, Off-road vehicles with large interior.
Circulation pump U4847 Econ: Volume flow 450 l/h, Weight 0.3 kg, Dimensions (LxWxH) 95 x 81 x 81.

Scope of Delivery



Pos. nr.	Part Description
1	Heater
2	Air intake silencer, bag
3	Dosing pump DP2, bag
4	Dosing pump DP30, bag
5	Wiring harness Thermo Top C
6	Tube 5x1,5 NF 5000 mm
7	Support
8	Preformed hose D20 x 3,5
9	Flexible tube D22 1000 mm
10	Flexible tube H-M-A D21,4 400 mm
11	Exhaust silencer D22

Ident-Nr	Produktversion	1	2	3	4	5	6	7	8	9	10	11
Standard												
9013624A	LU Thermo Top P B 12V Handel ohne Bedienelement	*	*	*	*	*	*	*	*	*	*	*
9013625A	LU Thermo Top P D 12V Handel ohne Bedienelement	*	*	*	*	*	*	*	*	*	*	*

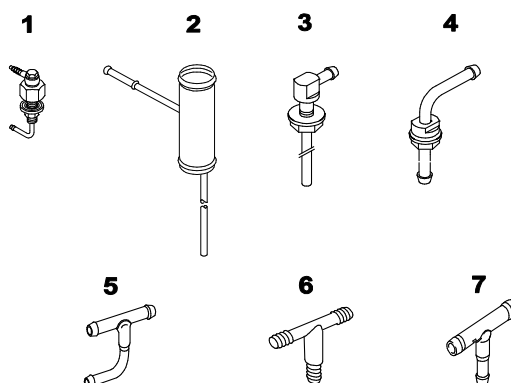
Water Heating Systems

Small Water Heaters

Accessories for Thermo Top C / E / P / V

Parts of fuel supply

Pos. nr.	Part Number	Part Description
1	9001450A	Tank extracting device (bag) VW/Audi
2	86277B	Tank extracting device Ø 15 550 mm
2	86379B	Tank extracting device Ø 18x1 780 mm
3	1300823C	Tank extracting device (tank fitting) 508 mm 90°
4	1301553A	Tank extracting device Ø 5 kit tank fitting with hose 6 mm 90° short
5	1310367B	Fuel standpipe 6x5x6 H-form
5	1310368B	Fuel standpipe 8x5x8 H-form
5	1310369B	Fuel standpipe 10x5x10 H-form
5	1310370B	Fuel standpipe 12x5x12 H-form
6	9001344B	Fuel standpipe 8x5x8 PME resistant plastic
7	1310349B	Fuel standpipe 6x5x6 T-form
7	1310350B	Fuel standpipe 8x5x8 T-form
7	1310351B	Fuel standpipe 10x5x10 T-form
7	1310352B	Fuel standpipe 12x5x12 T-form



Water Heating Systems

Small Water Heaters

Accessories for Thermo Top C / E / P / V

Alfa Romeo

Installation Kit

1313098A	Kit Thermo Top C F. Alfa 147 JTD 16V
1314283A	Kit Alfa 159 D
1310979B	Kit Alfa 159 P

Allgemein / General

Upgrade Kit

89247D	UGK Thermo Top C incl. digital timer 3 heating times
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Additional Kit

65954B	Thermo Top C Kit additional heating function
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Audi

Upgrade Kit

1313675A	UGK Audi Q7 incl. T91 OE/AM
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Installation Kit

1313526B	Kit Audi A4/ A5 TDI Automatic
9005381B	Kit Thermo Top C Audi A6 2.5 TDI D VW OZ
1314250A	Kit Audi A4 / A5 2.0l TDI (PD) Automatic
1313621A	Kit Audi A3 1.4 TFSI
9011039D	Kit Audi A3 Thermo Top C 12V D for CAAC VW OZ 8
1313499B	Kit Audi A4/ A5 2.7/ 3.0l TDI MY 08
1313498B	Kit Audi A4 2.0 TDI MY 08
1312804A	Kit Audi A3 1.6 FSI / 1.8/ 2.0 TFSI
1312766A	Kit Audi A3 P 1.6MPI/2.0FSI
1312350A	Kit Audi TT 2.0 TFSI

Additional Kit

9005391A	Kit Fuel Thermo Top C Audi A6 Quattro D
9010587A	Kit auxiliary heating function Golf5/Audi A 3 VW OZ 1K0 054
1313623A	Additional kit Audi A3 1.8 TFSI

Chevrolet

Installation Kit

1313112B	Kit Chevrolet Lacetti/Nubira D MY 07
9017037A	Kit Chevrolet Captiva Thermo Top C D MT
1314431A	Kit Chevrolet Aveo Thermo Top E P
1301556A	Kit Daewoo Kalos Thermo Top E P
1313111A	Kit Chevrolet Lacetti/Nubira P MY 06

Additional Kit

9017041A	Additional kit Chevrolet Captiva 2.4B MT
9017051A	Additional kit Chevrolet Captiva 2.0D AT
9017052B	Kit ACC Chevrolet Captiva
1311850A	Additional kit Chevrolet Captiva 3.2B AT

Chrysler

Upgrade Kit

1300541E	UGK Chrysler Voyager 2.5/ 2.8 CRD Thermo Top Z
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Installation Kit

1303338B	Kit Chrysler C300 Thermo Top C P
9014467A	Kit Chrysler 300C 3.0 CRD from MY 06
1312800B	Kit Dodge Nitro (KJ)/ Jeep Cherokee (KK)
1313748A	Kit Grand Voyager (RT) 2.8 CRD from MY 08

Additional Kit

9012505B	ADK Voyager Stow'n
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Water Heating Systems

Small Water Heaters

Accessories for Thermo Top C / E / P / V

Chrysler Dodge

Installation Kit

1311554A	Kit Dodge Caliber Thermo Top C D
1314071A	Kit Dodge Journey (P/D) from MY 08

Chrysler Jeep

Installation Kit

1313558A	Kit Jeep Patriot 2.0 D Thermo Top C
1313569A	Kit Jeep Patriot 2.4 P Thermo Top C
9013630C	Kit Chrysler Grand Cherokee 3.0 CRD Thermo Top P
1312783A	Kit Jeep Wrangler D
1312899A	Kit Chrysler Compass Thermo Top C P
9015619A	Kit Chrysler Jeep Commander 3.0 CRD
1312903A	Kit Chrysler Compass Thermo Top C CRD

Citroën

Upgrade Kit

1313235A	UGK Citroen Xsara Picasso D
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Installation Kit

1311314A	Kit Citroen C1 1.4l D Thermo Top E
1312790A	Kit Citroen Xsara Picasso Thermo Top C from MY 00
1310783B	Kit Citroen C6 Thermo Top C
1303584B	Kit Citroen C4 Thermo Top E/C P/D Manual air-condition
1303568C	Kit Citroen C4 P /D Thermo Top E/C AAC
1302582A	Kit Citroen C2 Thermo Top E P/D
1301283B	Kit Citroen C3/ Pluriel Thermo Top E/C P/D
1300628F	Kit Citroen C5 1.8 - 3.0 P / 2.0/ 2.2 HDI Thermo Top E
1312869A	Kit Citroen C3/ Pluriel P from 05

Citroën / Fiat

Upgrade Kit

97005C	Kit auxiliary heater Fiat Lancia Peugeot
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Citroën / Peugeot

Upgrade Kit

1300182D	UGK Citroen Berlingo
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Installation Kit

1312422A	Kit Peugeot C-Crosser/ 4007 D
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Citroën / Peugeot / Fiat

Upgrade Kit

1313104B	UGK PSA/Fiat Expert/Jumpy/Scudo AC D
1301851E	UGK PSA/Fiat 807/C8/Ulysse Thermo Top Z
1313103C	UGK PSA/ Fiat Expert/ Jumpy/ Scudo ACC D

Installation Kit

1313749C	Kit PSA/ Fiat Bipper/Nemo/Fiorino/Qubo
88216B	Kit Thermo Top C Fiat, Citroen Lancia, Peugeot
1311342D	Kit PSA Boxer/Jumper D Thermo Top C MY 07
1301813C	Kit PSA V Peugeot 807 Ulysse Citroen C8 Phedra
1313563A	Kit PSA/Fiat Expert/Jumpy/Scudo 2 D AC
1313585B	Kit PSA/Fiat Expert/Jumpy/Scudo 2 D ACC

Additional Kit

1314416A	Klimakit PSA/Fiat Boxer/Jumper/Ducato D
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Water Heating Systems

Small Water Heaters

Accessories for Thermo Top C / E / P / V

Citroën / Peugeot / Toyota

Installation Kit

1310257A	Kit Toyota Aygo/ Citroen C1 Thermo Top C P
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Fiat

Installation Kit

1310662A	Kit Fiat Grande Punto P
97274C	Kit Fiat Punto / Lancia Y from MY 04
9009407A	Kit Fiat Panda MY 04
1314103A	Kit Fiat Bravo 1.6D Multijet
1313387B	Kit Fiat 500 from MY 07
1313032A	Kit Fiat Grande Punto 1.2 8V MY 07 Thermo Top C
1311710A	Kit Fiat Sedici P/D Thermo Top C/E
1310552A	Kit Fiat Croma Thermo Top C P/D
1303033A	Kit Fiat Idea P/D Thermo Top C
1300930B	Kit Fiat Stilo Thermo Top E/C B/D
1300633D	Kit Fiat Doblo 1.2,1.6 P/ 1.9 D Thermo Top E/-C P/D
1312956A	Kit Fiat Bravo from MY 07 Thermo Top C P/D

Ford

Upgrade Kit

9005828A	UGK Ford Focus C 170 with D5W-Z
9010396A	UGK Ford Galaxy D5W-Z (without circulation pump)
9010523A	UGK Connect D with D5W auxiliary heater
9009924A	UGK Ford Mondeo TDCI with D5W-Z

Installation Kit

1314178A	Kit Ford Kuga 2.0D Thermo Top E/C/P
1312556A	Kit Ford Connect Tourneo D
9010869A	KIT Digital timer 1533 FORD
1312550B	Kit Ford Ranger Thermo Top C D from MY 07
1314382A	Kit Ford Fiesta P from MY 08

Additional Kit

1314410A	Kit ACC Ford Fiesta from MY 08
9004941B	Kit Passenger compartment monitoring Ford Focus/Mond
1311421A	Kit ACC with IPCU Ford CD 34*
9015161A	Kit ACC Ford Fiesta Fusion from

Honda

Installation Kit

1302892A	Kit Honda CR-V 2.0 P Thermo Top C
1313731A	Kit Honda CR-V'08 D
1311075B	Kit Honda Civic D MY 06 Thermo Top C
1302895A	Kit Honda Accord 2.0 P Thermo Top C
1311070B	Kit Honda Civic B MY 06 Thermo Top C

Hyundai

Installation Kit

1312222A	Kit Hyundai Sonata 2.0 CRDI MY 06
9015630A	Kit Huyundai Santa Fe 2.2 D/ 2.7I P
66128A	Kit Hyundai Starex D/P Thermo Top C
1315602A	Kit Hyundai Santa Fe 2.2CRDI MY2010
1313242A	Kit Hyundai i30 1.6I D
1313695A	Kit Hyundai H1 MY 2008
1313213A	Kit Hyundai i30 P
1300443A	Kit Hyundai Santa Fe 2.4/ 2.7 Thermo Top C P
1303234A	Kit Hyundai Tucson Thermo Top C 2.0 P/D

Water Heating Systems

Small Water Heaters

Accessories for Thermo Top C / E / P / V

Hyundai

Installation Kit

1315100A	Kit Hyundai ix55 CRDI (TT-C)
1302676A	Kit Hyundai Matrix Thermo Top C P/D
1302285D	Kit Hyundai Getz 1.1/ 1.3/ 1.5/ 1.6 Thermo Top E P
1301473B	Kit Hyundai Terracan CRD I Thermo Top C
1300611A	Kit Hyundai Santa Fe 2.0 Thermo Top C D
1310031A	Kit Hyundai Sonata 2.4I P Thermo Top C MY 05

Hyundai / Kia

Installation Kit

1313241A	Kit Kia Cee'd 2.0 CRDI
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Kia

Upgrade Kit

9016122B	UGK Kia Carnival 2.9 D MY 06
1301381C	UGK Kia Sorento Thermo Top Z D

Installation Kit

1312744C	Kit Kia Ceed 1.6I D
9016060A	Kit Kia Magentis 2.0I P/D Thermo Top C MY 06
9015689A	Kit Kia Rio D MY 06
1310080A	Kit Kia Picanto Thermo Top E/C P
9015687A	Kit Kia Rio P MY 06
1312333D	Kit Kia Ceed 1.4/ 1.6 / 2.0I P
1312146A	Kit KIA Carens 2.0. CRDI MY 07
1303452A	Kit Kia Sportage P/D Thermo Top C
1301877A	Kit Kia Sorento 3.5 Thermo Top C P
1312217A	Kit Kia Carens 2.0 P

Landrover

Upgrade Kit

1300413C	UGK Land Rover Freelander TD4 Thermo Top
1301949A	UGK Range Rover MY 2003 Thermo Top Z D

Installation Kit

1301035A	Kit Land Rover Freelander 2.0 TD4 Thermo Top C
67502A	Kit Land Rover Defender TD5 Thermo Top C from MY 9

Lexus

Installation Kit

1310416C	Kit Lexus RX400H Thermo Top C P
1311852A	Kit Lexus LS460 P Thermo Top C
1301995B	Kit Lexus RX300/ 350 Thermo Top C P MY 03
1311239B	Kit Lexus GS450H Thermo Top C P
1310936A	Kit Lexus IS250 Thermo Top C P

Mazda

Upgrade Kit

1313426C	UGK Mazda 6 (D) MY 08
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Installation Kit

1315211A	Kit Mazda 3'09 2.0I (B) AT TT-C
70952B	Kit Mazda Tribute 2.3/ 3.0 P Thermo Top C
1315000A	Kit Mazda 6'09 (D) TT-C
1314981B	Kit Mazda 3'09 1.6 D/2 .0B MT TT-C
1314977A	Kit Mazda 3'09 1,6I (P) TT-C
1314866A	Kit Mazda 2 1.6I Diesel TT-E

Water Heating Systems

Small Water Heaters

Accessories for Thermo Top C / E / P / V

Mazda

Installation Kit

1314312B	
1313441A	Kit Mazda M2 D Thermo Top C MY 08
1313439A	Kit Mazda 6 P Automatic transmission MY 08
1313389A	Kit Mazda 6 P Thermo Top C MY 08
1301738A	Kit Mazda 2 Thermo Top E/C P/D
1313228B	Kit Mazda M2 P Thermo Top C MY 08
1301112B	Kit Mazda M6 1.8/ 2.0 Thermo Top C P MY 04
1302259C	Kit Mazda 3 1.4/ 1.6/ 2.0 Thermo Top E/C P
1302541A	Kit Mazda 3 1.6 Thermo Top C D
1310117B	SOD TT-C D MAZDA 5
1310287A	Kit Mazda M6 P from MY 05
1310656A	Kit Mazda MX5 NC1 Thermo Top C P
1311467A	Kit Mazda 3 MPS Thermo Top C P
1311974B	Kit Mazda BT-50 D
1313055B	Kit Mazda CX-7 B/D TT-C

Mercedes-Benz

Additional Kit

1312833A	Kit ACC DC A-B Class from MY 05
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MG Rover

Upgrade Kit

97497D	UGK Rover 75 2.0 D Thermo Top C
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Mitsubishi

Installation Kit

1302536A	Kit MMD Outlander 2.0/2.4 Thermo Top C P
1312108A	Kit Mitsubishi Outlander D MY 07
1313634B	Kit MMD Lancer 1.8l P CVT MY 08
1313255A	Kit MMD Outlander 2.2 DI D MY 08
1313245A	Kit MMD Outlander 2.4 P MY 08
1312873A	Kit MMD Pajero 3.8l V6 P MY 07
65710B	Kit MMC L200 2.5 D Thermo Top C
1312098B	Kit Mitsubishi Pajero V80/V90 D MY 07
1303000C	Kit MMD Grandis Thermo Top E/C P/D
1302123B	Kit MMC Lancer Thermo Top C P MY 03
1300351C	Kit MMC Carisma/ Spacestar P/D
1300034F	Kit MMC Pajero V60 P/ D Thermo Top C
1303043D	Kit MMD Colt P Thermo Top E/C

Nissan

Installation Kit

1311968B	Kit Nissan Qashqai P
1300623D	Kit Nissan X-Trail 2.0 P / 2.2 D MT Thermo Top E/C
1301182B	Kit Nissan Terrano 2 2.7 TD/ 3.0 D
1301764C	Kit Nissan Micra K12 Thermo Top E from MY 05
1303350A	Kit Nissan Int./Ren.Mas. (Int.) Thermo Top C from 04
1303352A	Kit Nissan Kubistar/ Renault Kangoo Thermo Top C
1310128C	Kit Nissan Micra K12 Thermo Top E/C P/D from MY 05
1310821A	Kit Nissan Note Thermo Top C P
88219E	Kit Nissan Terrano/ Pickup
1311200A	Kit Nissan Note D Thermo Top C
1312667B	Kit Nissan Qashqai 2.0 D Thermo Top C
1312668A	Kit Nissan X-Trail 2.0 D from MY 07
1313134A	Kit Nissan X-Trail P MY 08

Water Heating Systems

Small Water Heaters

Accessories for Thermo Top C / E / P / V

Nissan

Installation Kit

1313258A	Kit Nissan Tiida P Thermo Top C
1313379A	Kit Nissan Tiida 1.5 D Thermo Top C
70883A	Kit Nissan Patrol 3.0l D Thermo Top C
1311965A	Kit Nissan Qashqai 1.5D

Nissan / Renault

Upgrade Kit

1312286A	UGK Vivaro/Trafic/Primastar from MY 07
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Installation Kit

1312622B	Kit Renault Master without partition wall Air Top Evo 3900
1303346B	Kit Nissan Primastar/Ren. Trafic Thermo Top C D
1311959B	Kit Renault Master/ Nissan Interst. Air Top Evo 3900

Opel

Installation Kit

1312245A	Kit Opel Vivaro Air Top 2000ST interior installation
9008156E	Kit Opel Vectra/Signum 1.9/ 2.0 D

Opel Handel / Retail

Installation Kit

1311919A	Kit Opel Antara Thermo Top C D MT
9002143E	Kit Opel Corsa C/ Tigra Thermo Top C P/D
9009282D	Kit Opel Movano Thermo Top C D from MY 04
9002568H	Kit Opel Vivaro D Thermo Top C from MY 01
1303047F	Kit Opel Astra H/Zafira Thermo Top C P/ D
1301953C	Kit Opel Meriva Thermo Top E P/D
1310957B	Kit Opel Meriva Thermo Top C D from MY 06
1311065A	Kit Vivaro/Trafic/Primas Air Top 2000 ST until MY

Additional Kit

1311920A	Additional kit Opel Antara 2.4 P MT
1311921A	Additional kit Opel Antara 2.0 D Automatic
1311922A	Additional kit Opel Antara 3.2B Automatic
1311923A	Kit AAC Opel Antara

Peugeot

Upgrade Kit

1303176B	UGK Peugeot 407/C6 Thermo Top V D
1302317A	UGK Peugeot Partner Thermo Top Z/C from MY 03

Installation Kit

1310338B	Kit Peugeot 1007 Thermo Top C ACC
1310342A	Kit Peugeot 307 Thermo Top C from MY 05
1310963A	Kit Peugeot 407 Coupé 2.7l HDI Thermo Top C D
1313037D	Kit Peugeot 308 D ACC
1313391C	Kit Peugeot 308 P ACC MY 07
1313392B	Kit Peugeot 308 P AC MY 07
1313081D	Kit Peugeot 308 D AC
1303794A	Kit Peugeot 607 2.7l HDI Thermo Top C from MY 05
1303094C	Kit Peugeot 407 Thermo Top C P/ D
1300677C	Kit Peugeot 307 Thermo Top E/C P/D
1300386B	Kit Peugeot 607 2.2/ 3.0 Thermo Top Z/C P/D
1300020C	Kit Peugeot 206 1.9 D HDI/ 2.0
1300008D	Kit PEUGEOT 206 O.AUTOM. 1.1/1.4/1.6 TT-
1310335B	Kit Peugeot 1007 Thermo Top C without ACC

Water Heating Systems

Small Water Heaters

Accessories for Thermo Top C / E / P / V

Renault int.

Installation Kit

9005008A	Temperature sensor external Kit for Air Top 2000 12V
9008865D	Kit Int. Renault Megane/ Scenic D A
9008864B	Kit Int. Renault Espace D from MY 03
9008852B	Kit Int. Renault Megane/ Scenic P A
1303179C	Kit Int. Renault Modus P Thermo Top E/C
9008851A	Kit Int. Renault Kangoo P/D from 00
1313384B	Kit Int. Renault Laguna MY 08 D
1313382B	Kit Int Renault Laguna MY 08 P
1310518C	Kit Int. Renault Clio '05 P Thermo Top E/C
1310523B	Kit Int. Renault Clio '05 D Thermo Top E
1300406F	Kit Int. Renault Laguna D Thermo Top E/C from MY 02
9000020C	Kit Int. Renault Megane 2 and Scenic 2 D

Renault spez.

Installation Kit

64480B	Kit Air Top 2000 RenaultMaster 2.5L/2.8L D
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Renault spez.+int.

Installation Kit

1315187C	SOD Renault Scen. Meg. 1,9 2,0D MY09 TT-V
1315183C	SOD Renault Scenic 1,6P MY09 TT-V
1315184D	SOD Renault Scen. Meg. 1,4B MY09 TT-V

Seat

Installation Kit

9012150B	Kit Seat Altea / Freetrack D
1314477A	Kit Seat Altea/ Altea XL 1.4/ 1.8 TSI
1314373A	Kit Seat Ibiza 1.9 D / 1.2/ 1.4 P MY 09
1311822A	Kit Seat Leon D 1.9/2.0 with and without D
1301805B	Kit Seat Leon/Toledo 1M Thermo Top E/C P/D
1311798A	Kit Seat Leon 1.6 MPI 2.0 FSI

Skoda FH

Installation Kit

1313266A	Kit Skoda Octavia 1.8 T FSI
1314083A	Kit Skoda Superb II TDI (Common Rail)
9014069B	Kit Skoda Octavia 1.4 MPI/1.6 FSI/2.0 TFSI
1314011A	Kit Skoda Superb II 1.8 TFSI
1311746B	Kit Skoda Roomster Thermo Top C D
1311740B	Kit Skoda Roomster/ Fabia P MY 07
1314014A	Kit Skoda Superb II 2.0 TDI (PD)
1311752A	Kit Skoda Roomster P/ D Climatronic

Subaru

Installation Kit

1310983A	Kit Subaru Impreza MY 06 Thermo Top C P
65859D	Kit Thermo Top C P Subaru Legacy/Outback/Forester
1315487A	Kit Subaru Legacy/Outback MY10 TT-C (D)
1313942A	Kit Subaru Forester MY 2008 P
1311570A	Kit Subaru Tribeca 3.0 P Thermo Top C
1310452A	Kit Subaru Forester 2.5 XT MY 06 Thermo Top C KD.
1310445B	Kit Subaru Forester 2.0X from MY 06 Thermo Top C
1303672B	Kit Daihatsu Sirion/Subaru Just Thermo Top E
1302747B	Kit Subaru Justy 1.3/1.5 B Thermo Top E

Water Heating Systems

Small Water Heaters

Accessories for Thermo Top C / E / P / V

Subaru

Installation Kit

1302625B	Kit Subaru Legacy/Outback MY 04
1313276A	Kit Subaru Impreza MY 08 Thermo Top C B

Suzuki

Installation Kit

1311482A	
9007701B	Kit Suzuki Ignis Thermo Top E/C P MY 04
9007593C	Kit Suzuki Grand Vitara Typ 3/ Typ 4 D
1315149A	Kit Suzuki Alto TT-E Petrol MY09
1315044A	Kit Suzuki Grand Vitara 2.4 3.2B MY09
9009442A	Universal kit TT-C/E SUZUKI
1314113A	Kit Suzuki Splash P Thermo Top C MY 08
1311142A	Kit Suzuki SX4 P/D Thermo Top E/C
1310827A	Kit Suzuki Grand Vitara 1.9l D MY 06
1310357A	Kit Suzuki Grand Vitara 1.6/ 2.0l P Thermo Top C
1303675C	Kit Suzuki Swift Thermo Top E P
1303102B	Kit Suzuki Liana P Thermo Top E
1314114A	Kit Suzuki Splash D MY 08

Toyota

Upgrade Kit

1310920A	UGK LEXUS IS220 (D)
97137C	UGK Toyota Avensis D5W (auxiliary heater Eberspächer)

Installation Kit

1314633B	Kit Toyota Avensis '09 (D) TT-C
1314631A	Kit Toyota Avensis '09 (B) TT-C
1313589B	Kit Toyota Landcruiser J20 V8 D MY 08
1312801C	Kit Toyota Auris D
1314834A	Kit Toyota IQ Diesel TT-E
1311580A	Kit Toyota Prius 2 Thermo Top C P
1315134A	Kit Lexus RX 450h'09 TT-C
1312796C	Kit Toyota Auris Petrol retail
1314835A	Kit Toyota IQ Petrol TT-E
1314944A	Kit Toyota Urban Cruiser (B) TT-C
1315035A	Kit Toyota Urban Cruiser (D) TT-C
1315128A	Kit Toyota Verso'09 Diesel TT-C
1315142A	Kit Toyota Verso'09 Petrol TT-C
1315198A	SOD Lexus LS460/LS600h'09 (B) TT-V m.T100
1315474A	SOD Toyota Prius 3 TT-C Petrol
64750D	Kit Toyota J95/ Landcruiser Thermo Top C
1315126A	Kit Lexus RX 350 '09 TT-C
1301869B	Kit Toyota Avensis Thermo Top C P MY 2003
1310908C	Kit TOYOTA RAV4 D-CAT TT-C/P
1300057A	Kit Toyota Previa 2.4 P Thermo Top Z/ C
1300093D	Kit Toyota Hiace Thermo Top C P/ D
1300234B	Kit Toyota RAV-4 1.8/ 2.0 Thermo Top C P
1300730B	Kit Toyota RAV 4 D4D Thermo Top Z/C/E D
1300982A	Kit Toyota Corolla P /D Thermo Top C MY 02
1301792B	Kit Toyota Landcruiser LJ120 Thermo Top C P/D
1301903A	Kit Toyota Avensis D4D Thermo Top C D MY 03
1302921A	Kit Toyota Corolla Verso Thermo Top E P
1310483C	Kit TOYOTA HILUX Diesel MY05 TT-C
1310903A	Kit Toyota RAV 4 Thermo Top C/P P
1301659A	Kit Toyota Hilux D4D Thermo Top C D
1310882A	Kit Toyota Yaris XP9 Thermo Top E/C/P P MY 06
1303186A	Kit Toyota Corolla E12 MY05 Thermo Top E/C P/D

Water Heating Systems

Small Water Heaters

Accessories for Thermo Top C / E / P / V

Toyota

Installation Kit

1310307D	Kit Toyota Avensis/ Corolla Verso Thermo Top C D
1310065A	Kit Toyota Lexus GS430/ GS300 P
1303476C	Kit Toyota Landcruiser LJ120 C
1310887A	Kit Toyota Yaris XP9 Thermo Top E/C/P D MY 06

Additional Kit

1314776A	ADK Toyota Hilux ACC MY 09
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Volvo

Additional Kit

9009095B	Kit Volvo Gateway unlocked
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Votex

Installation Kit

9009010C	
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VW

Upgrade Kit

1311905B	UGK Touran AC USB
9008874F	UGK Touran AAC serial
9013728D	UGK Passat B6/PQ46 without Climatronic
9013729E	UGK Passat B6/PQ46 with Climatronic
9008873D	UGK Touran AC serial
9015993B	UGK Passat B6 for Climatronic / USB
9015994B	UGK Passat B6 Climatronic / USB
1311904B	UGK Touran AAC USB

Installation Kit

9013731B	Kit Passat + CC TDI 1.9/2.0 (PD/CR)
9014044B	Kit Passat B6 1.6FSI P
9015698A	Kit Polo 1.4 TDI MY 06
9013741B	Kit Passat B6 Thermo Top C D with DPF VW OZ 3C0 0
9013742A	Kit Passat B6 Thermo Top C D without DPF VW OZ 3C0 0
9013769B	Kit PQ35/PQ46 with Climatronic VW OZ 1k
9013553B	Kit Golf 5/ Plus/ Eos/ Caddy 1.4/ 1.6 FSI/ 1.8
9013551B	Kit Golf5/Plus/Eos/CADDY D
9011038G	Kit Golf5 Plus/Jetta Thermo Top C D VW OZ AAC 1
9010638E	Kit Golf5 Plus/Jetta Thermo Top C D AC VW OZ 1K0
1313474A	Kit Climatronic VW Tiguan
9013723B	Kit VW Caddy 2.0 SDI/1.6 P/2.0 P ECO
1312759C	Kit Golf 5/ Plus 1.4l TSI/ Touran 1.6l FSI
9005047A	Kit Golf IV/Bora D 12V VW OZ
9001994A	Kit Einbau VW Passat B5 GP 1.9 TDI PD Thermo Top
85225A	Kit VW T4 Air Top 2000 outside installation box
1314424A	Kit VW Golf VI 1.6 MPI
1314422A	Kit VW Golf VI 2.0 TDI CR
1314420A	Kit VW Golf VI 1.4 TSI
1314169A	Additional kit for VW Passat CC 1.8 TSI
1313473B	Kit VW TIGUAN 1.4 + 2.0TSI/2.0TDI
9005565A	Kit Einbau Thermo Top C Golf IV / Bora P front
1300368C	Kit VW GolfIV/Bora/Audi A3 PD Thermo Top E/C
1314418A	Kit VW Golf VI 1.4 MPI
1301288D	Kit VW Polo MY 02 1.2/1.4 Thermo Top C B VW OZ

Additional Kit

97635A	Kit Klima manuell VW Passat B5
1301292A	Kit Fuel VW Polo MY 02 1.2/1.4 B Vo
1312369A	Kit Fuel extraction P Q35

Water Heating Systems

Small Water Heaters

Accessories for Thermo Top C / E / P / V

VW

Additional Kit

9005558B	Kit Fuel B Golf IV Bora front drive
1302411A	Kit ACC VW Polo VW OZ Thermo Top C VW OZ 6Q0 05

VW / Audi

Upgrade Kit

9014397C	UGK VW Touareg TDI with T91
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VW / Seat

Installation Kit

1301190A	Kit Seat Ibiza/Cordoba 1.2 P Thermo Top E
92587D	Kit VW-Sharan/Seat Alhambra Thermo Top Z/C

VW Skoda / Seat

Additional Kit

9013645A	Kit IPCU for Climatronic
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Water Heating Systems

Small Water Heaters

Thermo 50



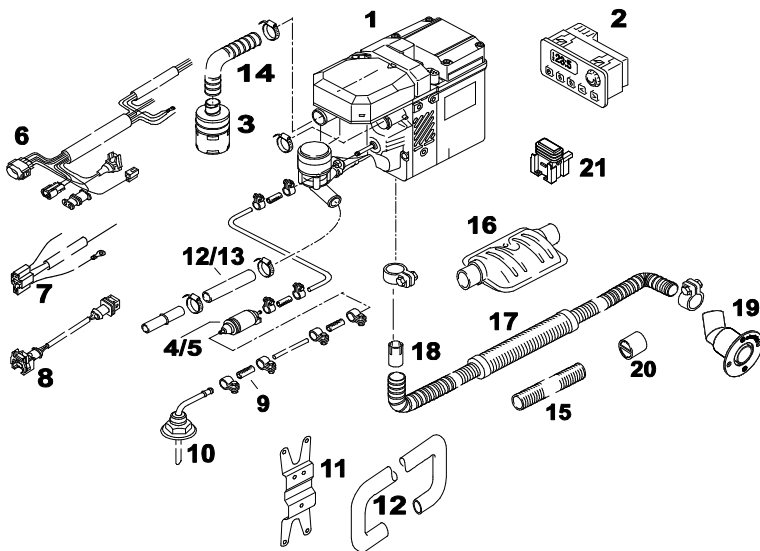
Thermo 50	*		*	*	*		*	*	*	*	*

Technical Data			
		Diesel	
EG-Type approval code		e1*2001/56*0004*--	
Heating output	Partial load / Full load	kW	2,2 / 5,0
Fuel consumption	Partial load / Full load	kg/h	0,3 / 0,61
Rated Voltage		V	24
Rated power consumption with circulation pump	Partial load / Full load	W	34 / 50
Fuel Types		Diesel EN590 (B5) / Arctic Diesel / heating oil (EL)	
Operating temperature range		°C	-40 to +80
Dimensions (LxBxH)		mm	237 x 106 x 193
Weight		kg	2,9
Tolerance ± 10%			

See Technical Notes on page 2.

Circulation pump U4847: Volume flow 500 l/h, Weight 0.3 kg, Dimensions (LxWxH) 96 x 75 x 80.

Scope of Delivery



Pos. nr.	Part Description
1	Heater
2	Digital timer 1531
3	Air intake silencer, bag
4	Dosing pump DP30, bag
5	Dosing pump DP30 Marine, bag
6	Wiring harness Thermo 50
7	Wiring harness vehicle ventilation
8	Wiring harness Dosing pump
9	Tube 5x1,5 NF 6000 mm
10	Tank extracting device
11	Support
12	Preformed hose D20 x 3,5
13	Tube
14	Flexible tube H-M-A D21,4 400 mm
15	Flexible tube D22x2 INOX 1000 mm
16	Exhaust silencer D22
17	Exhaust silencer D24 tight
18	Exhaust pipe reduction cover 22/24
19	Wall-feed-through D24 straight
20	Protection cap, bag
21	Fixation support, bag
22	Switch relays, bag (no image)

Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Standard																							
67014A	Thermo 50 D 24V Standard	*			*		*	*	*	*	*	*	*	*	*	*	*				*	*	
Marine																							
9009338C	SOD Thermo 50 D 24V Marine	*	*	*		*	*		*	*	*	*	*	*	*	*			*	*	*	*	*

Water Heating Systems

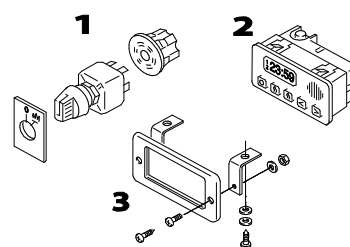
Small Water Heaters

Thermo 50



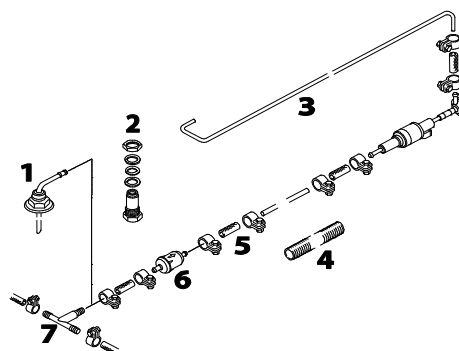
Control Units

Pos. nr.	Part Number	Part Description
1	109999	Switch with light bulb 24V compl.
2	88204A	Digital timer 1531, Standard Timer 12V
2	88195A	Digital timer 1531, Standard Timer 24V
3	474630	Mounting set for digital timer 1529/ 1531 (bag)



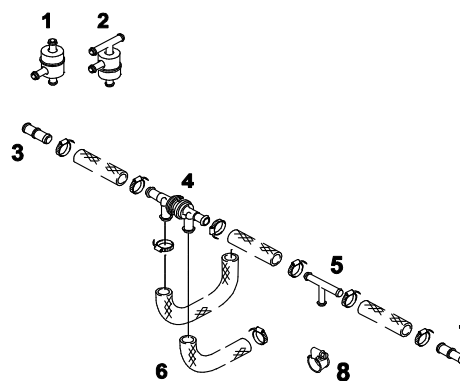
Parts of fuel supply

Pos. nr.	Part Number	Part Description
1	35320A	Tank extracting device truck 650 mm
2	107762	Tank extracting device (bag)
3	483931	Fuel hose 5x1.5 natur
4	15570A	Flexible pipe/ heat protection hose GA-A Øi 14.5 standard length 1 m
5	484032	Fuel hose Ø 4.5x10.5 50 mm
6	487171	Fuel filter
7	1310349B	Fuel standpipe 6x5x6 T-form
7	1310350B	Fuel standpipe 8x5x8 T-form
7	1310352B	Fuel standpipe 12x5x12 T-form
7	1310412A	Fuel standpipe 15x6x15 T-form



Parts of water system

Pos. nr.	Part Number	Part Description
1	98992A	Water thermostat 20/20/20/20
2	19872A	Water thermostat 20/20/20/20
3	66934B	Connection pipe Ø 20
4	12780A	Non-return valve 18/18/18/18
4	19873A	Non-return valve 20/20/20/20
4	87072A	Non-return valve 20/20/22/22
5	355240	T-piece 18/18/18
5	21081A	T-piece 20/20/20
5	105848	T-piece (with ventilation) Ø 18
6	33894A	Moulded hose Øi 20/Øo 29 for truck 2200 mm
7	66908B	Connection pipe 18x20 plastic
8	1303080A	Hose clamp (chrome steel) Ø 20- 27



Water Heating Systems

Big Water Heaters

Thermo 90 ST



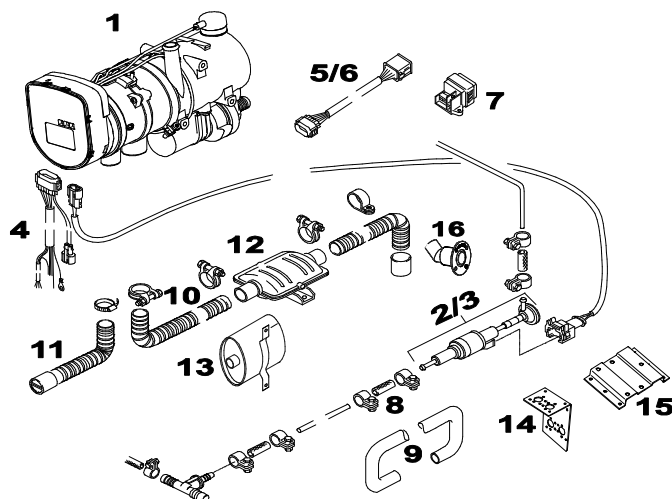
Thermo 90 ST	*		*	*	*		*	*	*	*	*

Technical Data				Diesel	Petrol
EG-Type approval code				e1*2001/56*2004/78*0019	e1*2001/56*2004/78*0019
Heating performance	Control range / boost mode	kW		1,8 - 7,6 / 9,1	2,0 - 7,6
Fuel consumption	Control range / boost mode	kg/h		0,19 - 0,9 / 1,1	0,25 - 1,0
Rated Voltage		V		12 / 24	12
Rated Power Consumption	Control range / boost mode	W		37 - 83 / 90	37 - 83
Fuel Types				Diesel EN590 (B5) Arctic-Diesel heating oil (EL)	Petrol EN 228 ROZ 91/ 95/ 98
Operating temperature range		°C		-40 to +80	-40 to +80
Dimensions (LxBxH)		mm		355 x 133 x 232	355 x 133 x 232
Weight		kg		4,8	4,8
Tolerance ± 10%					

See Technical Notes on page 2.

Circulation pump U4846: Volume flow 700 l/h, Weight 0.7 kg, Dimensions (LxWxH) 180 x 74 x 112 including connections.

Scope of Delivery



Pos. nr.	Part Description
1	Heater
2	Dosing pump DP2 with damping device
3	Dosing pump DP30 with damping device
4	Wiring harness HG Standard
5	Wiring harness Dosing pump
6	Wiring harness ventilation blower
7	Fixation support
8	Tube 5x1,5 NF 6000 mm
9	Tube D20
10	Flexible tube D38
11	Air intake silencer D30
12	Exhaust silencer D38
13	Exhaust silencer Marine
14	Support Standard
15	Support Marine
16	Exhaust gas duct pipe D38

Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Standard																		
9007621A	SOD Thermo 90 ST P 12V Standard	*	*		*	*	*	*	*	*	*	*	*	*	*			
9007622A	SOD Thermo 90 ST D 12V Standard	*		*	*	*	*	*	*	*	*	*	*	*	*			
9007623A	SOD Thermo 90 ST D 24V Standard	*		*	*	*	*	*	*	*	*	*	*	*	*			
Marine																		
9010412E	SOD Thermo 90 ST D 12V Chiller Marine	*		*	*	*		*	*	*	*	*	*	*	*	*	*	*

Water Heating Systems

Big Water Heaters

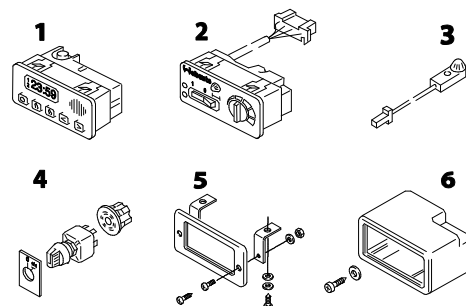
Thermo 90 ST



Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Marine																		
9010410C	SOD Thermo 90 ST D 12V Marine	*		*	*	*		*	*	*	*	*		*		*	*	
9010411C	SOD Thermo 90 ST D 24V Marine	*		*	*	*		*	*	*	*	*	*		*		*	*
9010413E	Thermo 90 ST Chiller 24V Diesel	*		*	*	*		*	*	*	*	*	*	*		*	*	*

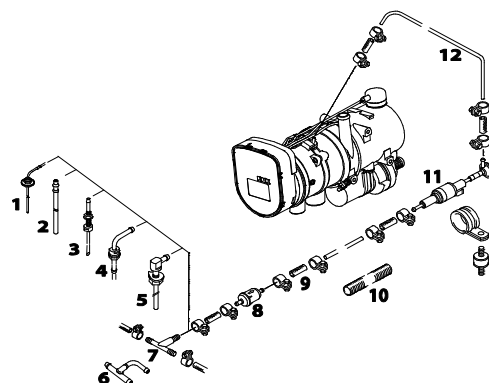
Control Units

Pos. nr.	Part Number	Part Description
1	88204A	Digital timer 1531, Standard Timer 12V
1	88195A	Digital timer 1531, Standard Timer 24V
2	34875A	Room thermostat compl.
3	82356A	External temperature sensor
4	109995	Switch with light bulb 12V compl.
4	109999	Switch with light bulb 24V compl.
5	474630	Mounting set for digital timer 1529/ 1531 (bag)
6	475866	Mounting set housing (bag)
	25011C	Room thermostat 12V/24V VLL-22 GR RA4 VCV



Parts of fuel supply

Pos. nr.	Part Number	Part Description
1	35320A	Tank extracting device truck 650 mm
2	67366A	Tank extracting device Rover Defender, BMW E46
3	1300494D	Tank extracting device (tank fitting) 508 mm
4	1301553A	Tank extracting device Ø 5 kit tank fitting with hose 6 mm 90° short
5	1300823C	Tank extracting device (tank fitting) 508 mm 90°
6	1310367B	Fuel standpipe 6x5x6 H-form
6	1310368B	Fuel standpipe 8x5x8 H-form
6	1310369B	Fuel standpipe 10x5x10 H-form
6	1310370B	Fuel standpipe 12x5x12 H-form
7	1310349B	Fuel standpipe 6x5x6 T-form
7	9001344B	Fuel standpipe 8x5x8 PME resistant plastic
8	487171	Fuel filter
9	484032	Fuel hose Ø 4.5x10.5 50 mm
10	15570A	Flexible pipe/ heat protection hose GA-A Øi 14.5 standard length 1 m
11	28174B	Dosing pump DP2 12V (bag)
11	91473A	Dosing pump DP 30,02 with damping device 24V
11	89620B	Dosing pump DP 30.2 12V (bag)
12	65201B	Hose 3.5x9.5 90° RME resistant with 2 hose c lamps
12	66636A	Fuel hose PME resistant for pipe Ø 6 without connection 20 m
12	67365A	Fuel hose for 67366A Øi 4.5 / Øo 77.5 90°
12	483931	Fuel hose 5x1.5 natur



Water Heating Systems

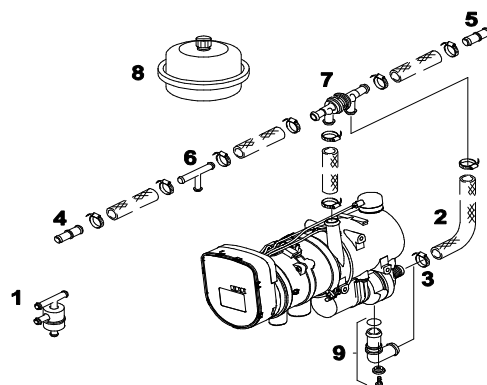
Big Water Heaters

Thermo 90 ST



Parts of water system

Pos. nr.	Part Number	Part Description
1	19872A	Water thermostat 20/20/20/20
2	33894A	Moulded hose Øi 20/Øo 29 for truck 2200 mm
3	1303080A	Hose clamp (chrome steel) Ø 20- 27
4	66908B	Connection pipe 18x20 plastic
5	66934B	Connection pipe Ø 20
6	21081A	T-piece 20/20/20
7	19873A	Non-return valve 20/20/20/20
8	351725	Pressure expansion tank 8l
9	22524B	Elbow Ø 20 90° (bag)



Water Heating Systems

Big Water Heaters

DBW 2010 / 2016



DBW 2010 / 2016			*	*			*	*	*	*	*

Technical Data			DBW 2010	DBW 2016
EG-Type approval code			e1*2001/56*2004/78*0001	e1*2001/56*2004/78*0001
			*-	*-
Heat Performance	Control Range	W	13,1	16
Heating output	Control Range	W	13,1	16
Fuel consumption	Control Range	kg/h	1,3	1,5
Rated Voltage		V	12 / 24	12 / 24
Rated power consumption without circulation pump	Contro Range	W	60	90
Fuel Types			Diesel EN 590 heating oil (EL)	Diesel EN 590 heating oil (EL)
Operating temperature range		°C	-40 to +80	-40 to +80
Dimensions (LxBxH)		mm	564 x 205 x 228	564 x 205 x 228
Weight		kg	14,5	14,5
Tolerance ± 10%				

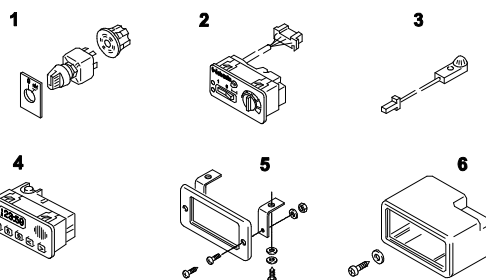
Circulation pump U4810: Volume flow 1600 l/h against 0,15 bar, Weight 0,8 kg, Dimensions (LxWxH) 95 x 81 x 81.

Circulation pump U4814 Aquavent 5000, alternative: Volume flow 5200 l/h against 0,2 bar, Weight 2,1 kg, Dimensions (LxWxH) 221 x 100 x 105.

Part Number	Part Description
Standard	
357324	SOD DBW 2010 D 12V Standard
356700	SOD DBW 2010 D 24V Standard
9012936A	SOD DBW 2016 D 12V Standard
9012935A	SOD DBW 2016 D 24V Standard

Control Units

Pos. nr.	Part Number	Part Description
1	109995	Switch with light bulb 12V compl.
1	109999	Switch with light bulb 24V compl.
2	34875A	Room thermostat compl.
3	82356A	External temperature sensor
4	88204A	Digital timer 1531, Standard Timer 12V
4	88195A	Digital timer 1531, Standard Timer 24V
5	474630	Mounting set for digital timer 1529/ 1531 (bag)
6	475866	Mounting set housing (bag)



Water Heating Systems

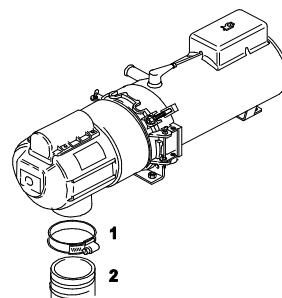
Big Water Heaters

DBW 2010 / 2016



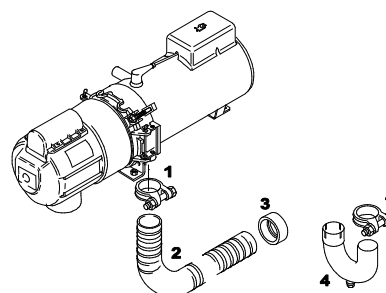
Parts of combustion air system

Pos. nr.	Part Number	Part Description
1	1302375A	Hose clamp Ø 70-90 Aero BG
2	398519	Flexible hose PAK Ø 80



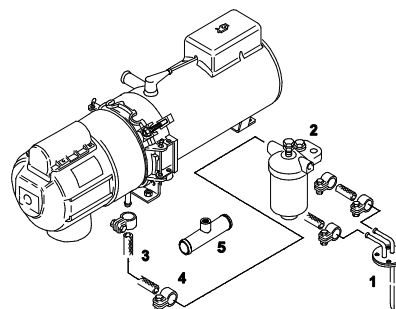
Parts of exhaust system

Pos. nr.	Part Number	Part Description
1	1302375A	Hose clamp Ø 70-90 Aero BG
1	9002255B	Hose clamp Ø 39...42
2	353221	Flexible pipe Ø 38x2 Inox 2-layers
3	24046A	Protection cap
4	370169	Elbow pipe assembly



Parts of fuel supply

Pos. nr.	Part Number	Part Description
1	394157	Tank extracting device compl.
2	140708	Fuel filter
3	370177	Fuel hose Ø 5x10 per metre
4	1310947A	Hose clamp Ø 10
5	1310365A	Pipe with socket compl.
	219495	Connecting parts for fuel filter 140708 (bag)



Water Heating Systems

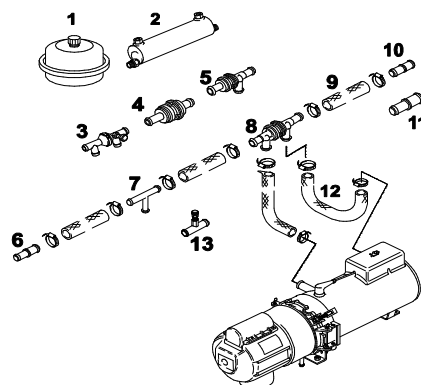
Big Water Heaters

DBW 2010 / 2016



Parts of water system

Pos. nr.	Part Number	Part Description
1	351725	Pressure expansion tank 8l
2	434043	Calorifier compl.
3	446912	Non-return valve with drainage hole
4	109557	Non-return valve
5	12785B	Non-return valve 3/18K
6	66908B	Connection pipe 18x20 plastic
7	355240	T-piece 18/18/18
8	12751A	Non-return valve 4/18K
9	369136	Hose Øi 18/Øo 27 2000 mm
10	66906B	Connection pipe 18x18
11	66932A	Connection pipe 18x22
12	472433	Hose Ø 18x3.5 2.2 m
13	105848	T-piece (with ventilation) Ø 18



Water Heating Systems

Big Water Heaters

Thermo 230 / 300 / 350



Thermo 230 / 300 / 350						*	*		*	*	*

Technical Data				Thermo 230	Thermo 300	Thermo 350
EG-Type approval code				e1*2001/56*2004/78 *0007*--	e1*2001/56*2004/78 *0008*--	e1*2001/56*2004/78 *0009*--
Heat Performance	Control Range	W		23	30	35
Heating output	Control Range	W		23	30	35
Fuel consumption	Control Range	kg/h		2,5	3,3	3,7
Rated Voltage		V		24	24	24
Nominal power consumption without circulating pump		W		65	110	140
Fuel Types				Diesel/heating oil EL	Diesel/heating oil EL	Diesel/heating oil EL
Operating temperature range		°C		-40 to +80	-40 to +80	-40 to +80
Dimensions heater unit (LxWxH) incl. control unit		mm		610 x 246 x 220	610 x 246 x 220	610 x 246 x 220
Weight of heater unit with control unit		kg		19	19	19
Tolerance ± 10%						

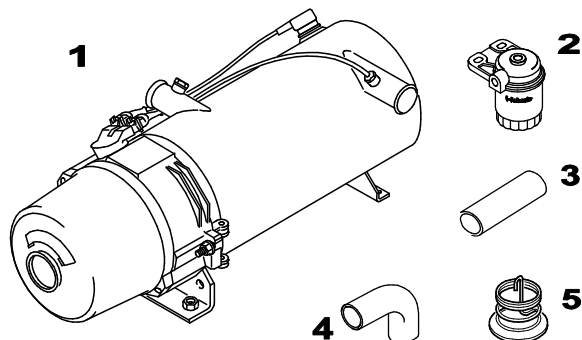
Alternative:

Circulation pump U4814 / Aquavent 5000: Volume flow 5200 l/h against 0,2 bar, Weight 2,1 kg, Dimensions (LxWxH) 221 x 100 x 105

Circulation pump U4854 / Aquavent 5000S: Volume flow 5200 l/h against 0,2 bar, Weight 2,2 kg, Dimensions (LxWxH) 173 x 81 x 77

Circulation pump U4856 / Aquavent 6000SC: Volume flow 6000 l/h against 0,4 bar, Weight 2,35 kg, Dimensions (LxWxH) 229 x 115 x 110

Scope of Delivery



Pos. nr.	Part Description
1	Heater
2	Fuel filter
3	Silicone tube
4	Preformed hose
5	Exhaust deviation tube

Part Number	Part Description	1	2	3	4	5
Standard						
85312B	SOD Thermo 230.032 24V	*	*			*
85782C	HT Thermo 230.032 24V	*				
85313B	SOD Thermo 300.031 24V	*	*			*
84069C	HT Thermo 300.031 24V	*				
85314C	SOD Thermo 350.32 24V	*	*			*

Water Heating Systems

Big Water Heaters

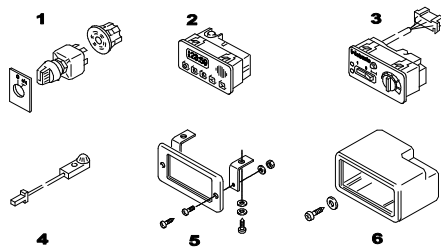
Thermo 230 / 300 / 350



Part Number	Part Description	1	2	3	4	5
Standard						
85783C	HT Thermo 350.032 24V	*				
Part Number	Part Description	1	2	3	4	5
Special Vehicles						
9016237A	SOD Thermo 230.155 Rail Compact with accessories	*		*	*	
9016236A	SOD Thermo 300.155 Rail Compact with accessories	*		*	*	
9016235A	SOD Thermo 350.155 Rail Compact with accessories	*		*	*	

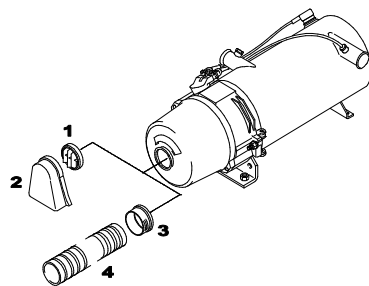
Control Units

Pos. nr.	Part Number	Part Description
1	109999	Switch with light bulb 24V compl.
2	88195A	Digital timer 1531, Standard Timer 24V
3	34875A	Room thermostat compl.
4	82356A	External temperature sensor
5	474630	Mounting set for digital timer 1529/ 1531 (bag)
6	475866	Mounting set housing (bag)



Parts of combustion air system

Pos. nr.	Part Number	Part Description
1	20819B	Grid
2	20818B	Splash guard
3	101377	Connection Ø 55
4	88729A	Flexible hose Ohler Climaduct TPE Ø 55



Water Heating Systems

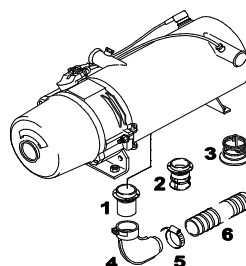
Big Water Heaters

Thermo 230 / 300 / 350



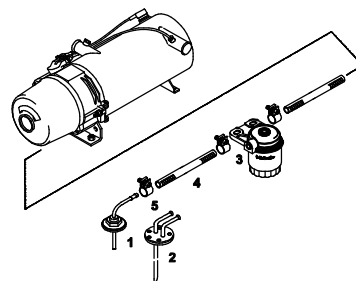
Parts of exhaust system

Pos. nr.	Part Number	Part Description
1	460176	Exhaust pipe Ø 71 90 mm
2	9012435A	Outlet pipe Ø 71 133 mm
2	9012434A	Exhaust pipe Ø 71 98 mm
3	84970A	Exhaust gas deflection
4	465380	Elbow Ø 70 for hose connection
4	465135	Elbow Exhaust outlet Ø 70
5	1310947A	Hose clamp Ø 10
6	479721	Flexible pipe Ø 70x2.5 Inox 2-layers



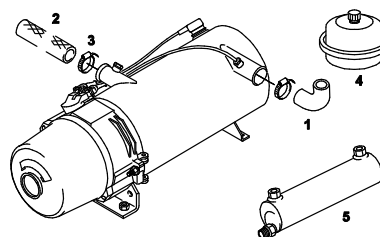
Parts of fuel supply

Pos. nr.	Part Number	Part Description
1	353213	Tank extracting device assy.
2	394157	Tank extracting device compl.
3	9010929A	Fuel filter compl.
4	66636A	Fuel hose PME resistant for pipe Ø 6 without connection 20 m
5	1310947A	Hose clamp Ø 10



Parts of water system

Pos. nr.	Part Number	Part Description
1	9009652A	Moulded hose Ø 38 EPDM
2	1303715A	Moulded hose Ø 38 65 mm
3	285560	Hose clamp Ø 40-60 (per piece)
4	351725	Pressure expansion tank 8l
5	434043	Calorifier compl.



Comfort Accessories

Air/Water Heaters

Comfort Accessories Water Heaters

Digital Timer 1533



											
Digital Timer 1533	*	*									

Technical Data		
Rated Voltage	V	12
Dimensions (LxBxH)	mm	64 x 43 x 13
Bias current	mA	< 1
Switching output	mA	< 70
Operating voltage	V DC	9,5 - 12
Tolerance ± 10%		

Part Number	Part Description
Standard	
1301122C	Digital timer heating time 60 min. 3 heating times

Comfort Accessories

Air/Water Heaters

Comfort Accessories Water Heaters

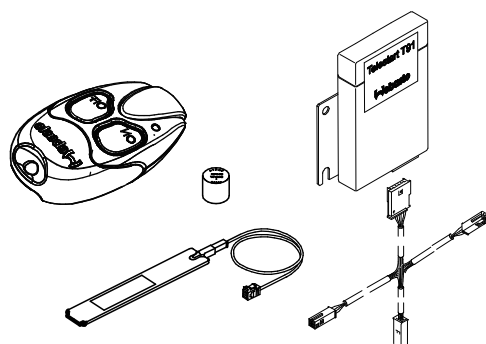
Telestart T91



Telestart T91	*	*	*								

Technical Data			
		Sender	Receiver
Approval		CE, e1 03 5755	CE, e1 03 5755
Weight with battery	g	16	80
Dimensions (LxBxH)	mm	54 x 32 x 16	85 x 65 x 16
Connections		---	Antenna plug, FAKRA, Coding I, system plug MQS 6-pins Tyco 1-1241370-1
Display		Multicolour LED	--
Transmission power/range typical-optimum	mW / m	max. 25 / 600-1000 m	max. 25 / 600-1000 m
Temperature range storage/operation	°C	-40... +85 / 0.... +50	-40... +85 / -40.... +85
Operating voltage	V DC	3 (recommended: Type DL 1/3N Duracell)	9 - 16
Tolerance ± 10%			

Heating time 10-120 min; with feedback



Part Number	Part Description
Commercial Vehicles	
1314636A	Transmitter T91 black including battery
1314635A	Telestart T91 black compl.

Control Units

Pos. nr.	Part Number	Part Description
	84587A	Summer / winter switch, extra necessary for ventilation function with analogically controlled heaters

Comfort Accessories

Air/Water Heaters

Comfort Accessories Water Heaters

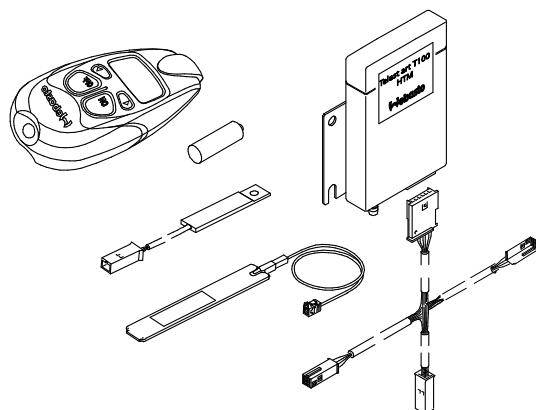
Telestart T100 HTM



Telestart T100 HTM	*	*	*								

Technical Data			
		Transmitter	Receiver
Approval		CE	CE, e1 03 5755
Weight	g	32	80
Dimensions (LxBxH)	mm	70 x 37 x 18	85 x 65 x 16
Connections		--	Antenna plug FAKRA, coding I, system plug MQS 6-poles Tyco 1-1241370-1
Display		Display	--
Transmission power/range typical-optimum	mW / m	max. 25 / 600-1000 m	max. 25 / 600-1000 m
Temperature range storage/operation	°C	-20... +70 / 0.... +50	- 40... +85 / -40.... +85
Operating voltage	V DC	6V (recommended: PX28L Duracell)	9 - 16
Tolerance ± 10%			

Heating time 10-120 min; with feedback



Part Number	Part Description
1314638A	Transmitter T100 HTM black compl. including battery
1314637A	Telestart T100 HTM black compl., heating time 10-120 min

Control Units

Pos. nr.	Part Number	Part Description
	84587A	Summer / winter switch, extra necessary for ventilation function with analogically controlled heaters

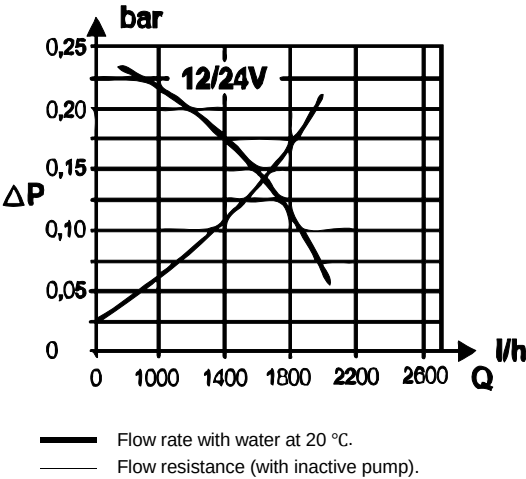
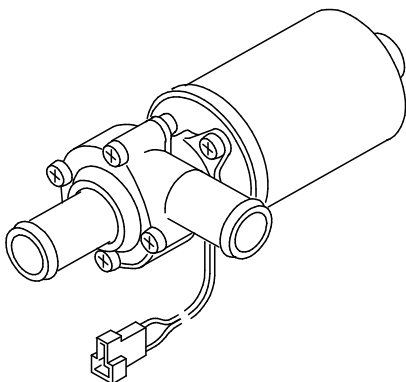
Water Heating Systems

Circulation Pumps

U 4810

											
U 4810		*	*	*			*	*	*	*	*

Technical Data			
Volume flow	against 0,15 bar	l/h	1600
Rated Voltage		V	12 / 24
Rated Power Consumption		W	25
Water socket connections		mm	18
Electrical connections			see plug version
Dimensions (LxBxH)		mm	173 x 81 x 77
Weight		kg	0,8
Tolerance ± 10%			



Part Number	Part Description
Standard	
458414	Circulation pump U4810 12V with support
458384	Circulation pump U4810 12V without support
458422	Circulation pump U4810 24V with support
458392	Circulation pump U4810 24V without support

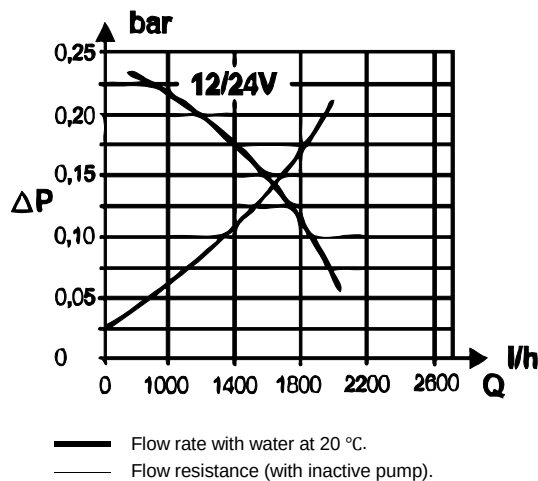
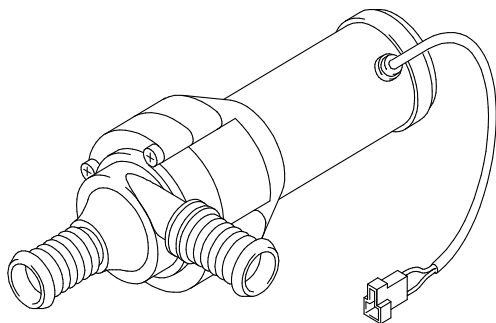
Water Heating Systems

Circulation Pumps

U 4846

											
U 4846		*	*	*			*	*	*	*	*

Technical Data			
Volume flow	against 0,3 bar	l/h	700
Rated Voltage		V	12 / 24
Rated Power Consumption		W	15
Water socket connections		mm	20
Electrical connections			see plug version
Dimensions (LxBxH)		mm	180 x 74 x 112
Weight		kg	0,7
Tolerance ± 10%			



Part Number	Part Description
Standard	
35897A	Circulation pump U4846 12V without support
35919A	Circulation pump U4846 24V without support

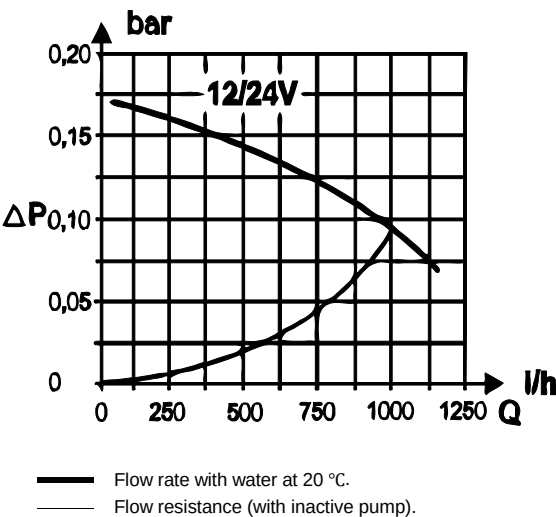
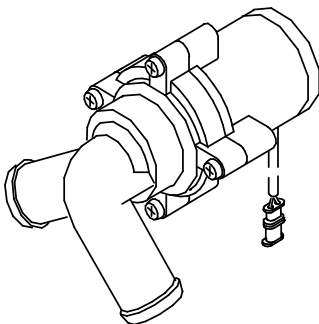
Water Heating Systems

Circulation Pumps

U 4847

											
U 4847		*	*	*			*	*	*	*	*

Technical Data			
Volume flow	against 0,14 bar	l/h	500
Rated Voltage		V	12 / 24
Rated Power Consumption		W	14 / 28
Water socket connections		mm	18 / 20
Electrical connections			see plug version
Dimensions (LxBxH)		mm	96 x 75 x 80
Weight		kg	0,3
Tolerance ± 10%			



Part Number	Part Description
Standard	
98237A	SP Circulation pump U4847 24V for Thermo 50 axial socket
9017986A	Circulation Pump U4847 econ 130°
9017982A	Circulation Pump U4847 econ axial

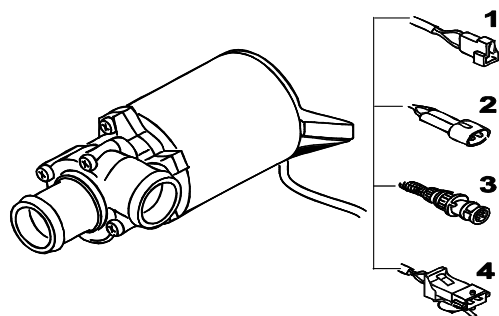
Water Heating Systems

Circulation Pumps

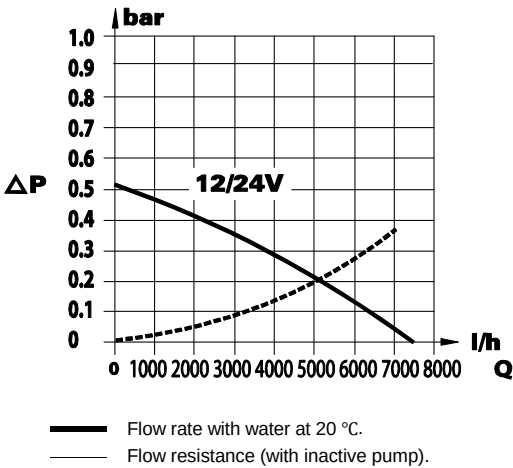
Aquavent 5000 / U 4814

											
Aquavent 5000 / U 4814						*	*				*

Technical Data			
Volume flow	against 0,2 bar	l/h	5200
Rated Voltage		V	12 /24
Rated Power Consumption		W	104
Water socket connections		mm	38
Electrical connections			see plug version
Dimensions (LxBxH)		mm	221 x 100 x 105
Weight		kg	2,1
Tolerance ± 10%			



- 43151D = Pos 1
- 43152F = Pos 1
- 63699C = Pos 2
- 21191D = Pos 3
- 86496D = Pos 4



Part Number	Part Description
Standard	
43151D	Circulation pump Aquavent 5000 / U4814 12V
43152F	Circulation pump Aquavent 5000 / U4814 24V
63699C	Circulation pump Aquavent 5000 / U4814 24V
21191D	Circulation pump Aquavent 5000 / U4814 24V
86496D	Circulation pump Aquavent 5000 / U4814 24V

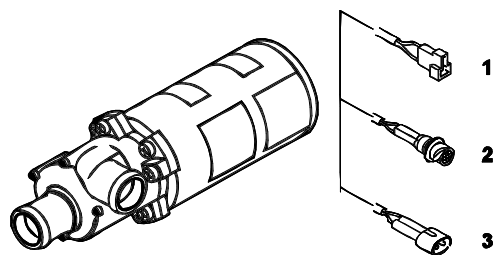
Water Heating Systems

Circulation Pumps

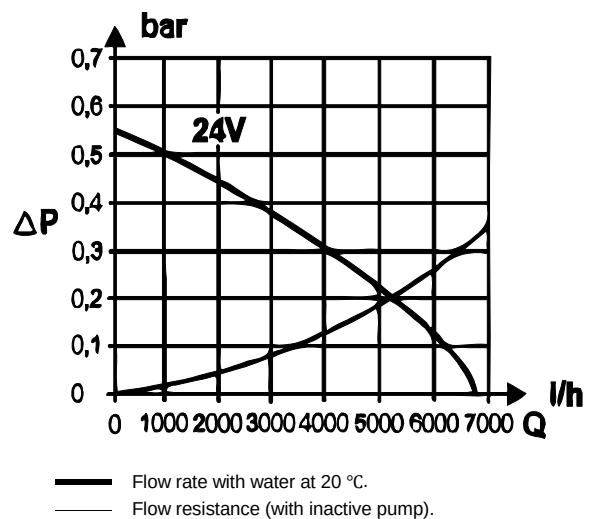
Aquavent 5000 S / U 4854

											
Aquavent 5000 S / U 4854		*				*	*				*

Technical Data			
Volume flow	against 0,2 bar	l/h	5200
Rated Voltage		V	24
Rated Power Consumption		W	104
Water socket connections		mm	38
Electrical connections			see plug version
Dimensions (LxBxH)		mm	249 x 100 x 105
Weight		kg	2,2
Tolerance ± 10%			



1301681A = Pos 1
1302710A = Pos 2
1302711A = Pos 3



Part Number	Part Description
Standard	
1301681A	Circulation pump Aquavent 5000S / U4854 24V
1302710A	Circulation pump Aquavent 5000S / U4854 24V
1302711A	Circulation pump Aquavent 5000S / U4854 24V

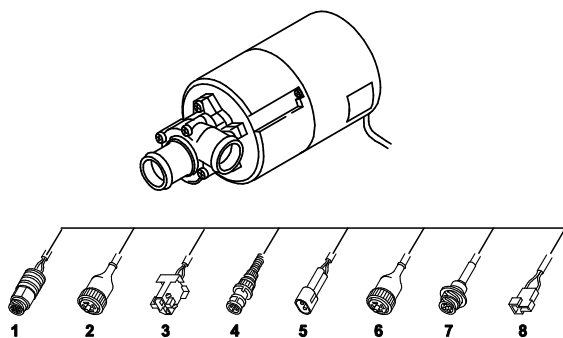
Water Heating Systems

Circulation Pumps

Aquavent 6000 SC / U 4856

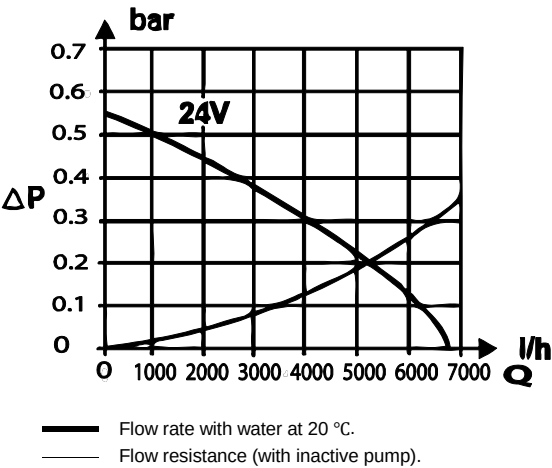
											
Aquavent 6000 SC / U 4856		*				*	*				*

Technical Data			
Volume flow	against 0,4 bar	l/h	6000
Rated Voltage		V	24
Rated Power Consumption		W	210
Connections dia.		mm	38
Electrical connections			see plug version
Dimensions (LxBxH)		mm	229 x 115 x 110
Weight		kg	2,55
Tolerance ± 10%			



1314659A = Pos 1
2710196A = Pos 2
1314660A = Pos 3
1314728A = Pos 4

1314554A = Pos 5
1314670A = Pos 6
1314661A = Pos 7
1314727A = Pos 8



Part Number	Part Description
1314659A	Circulation Pump Aquavent 6000SC / U4856 24V
2710196A	Circulation pump Aquavent 6000SC / U4856 24V
1314660A	Circulation Pump Aquavent 6000SC / U4856 24V
1314728A	Circulation pump Aquavent 6000SC / U4856 24V
1314554A	Circulation Pump Aquavent 6000SC / U 4856 24V
1314670A	Circulation Pump Aquavent 6000SC / U4856 24V
1314661A	Circulation Pump Aquavent 6000SC / U4856 24V
1314727A	Circulation Pump Aquavent 6000SC / U4856 24V

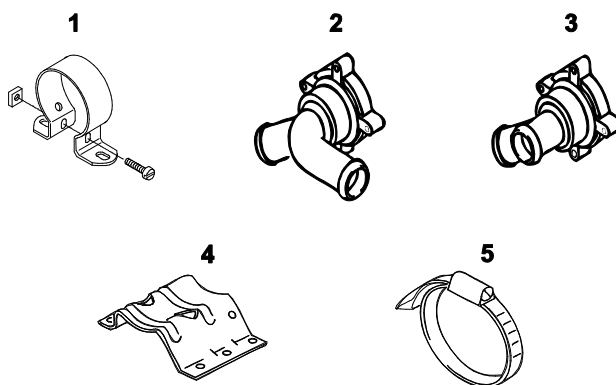
Water Heating Systems

Circulation Pumps

Accessories Circulation Pumps

Accessories

Pos. nr.	Part Number	Part Description
1	83358A	Mounting clamp (support) for U4846, bag with small parts
1	454311	Mounting bracket (bag)
2	93011C	U 4847 Pump casing (connector angle 193°) Pos. 2
3	93012C	U 4847 Pump casing (axial connection) Pos. 3
4	37269A	Stand (support)
4	233641	Stand (support)
5	1310877A	Hose clamp DIN 3017 Ø 60-80
5	67373A	Hose clamp Aero Ø 98-120



Water Heating Systems

Water Stations

Water station Thermo 50



Water station Thermo 50			*				*				

Technical Data			
Diesel			
EG-Type approval code	e1* 2001/56*0002*_		
Heating output	Partial load / Full load	kW	2.6 / 5.2
Fuel consumption	Partial load / Full load	kg/h	0.29 - 0.59
Nominal power consumption with circulating pump	Full Load	W	32 - 50
	Partial Load	W	22 - 34
Dimensions (LxBxH)		mm	390 x 235 x 310 mm
Weight heater with fuel pump		kg	15.0
Tolerance $\pm 10\%$			

The Webasto water station consists of a Webasto water heater unit (e.g. Thermo Top C / Thermo 90 S), completely integrated into a stainless steel body. This provides a quick and easy installation of the system (Plug & Heat).

The Webasto water station acts as a central unit for the heating of the application's warm water heating system (such as radiators and fan heat exchangers). Additionally, domestic warm water is heated on demand using a Webasto calorifier. The switching from central heating to domestic warm water heating is done automatically.

The delivery scope of all Thermo 50 / 90 water stations product versions comprises:

Heater fitted in stainless steel enclosure, control panel, heat-only panel, control cable (length = 10m), exhaust silencer ($\varnothing$ 24/38), flexible exhaust pipe stainless steel (length = 1,8m), exhaust insulation (length = 1m), through hull fitting ($\varnothing$ 24/38), complete fuel system (mechanical).

Part Number	Part Description
Marine	
77054500	Water Station Thermo 50 Marine D 12V Plug & Heat
77054600	Water Station Thermo 50 Marine D 24V Plug & Heat

Water Heating Systems

Water Stations

Water station Thermo 90



Water station Thermo 90			*				*				

Technical Data			
Diesel			
EG-Type approval code e1* 2001/56*0019*_			
Heating performance	Control range / boost mode	kW	1.8 -7.6 continuous; 9.1 Boost mode
Fuel consumption	Control range / boost mode	kg/h	0.19-0.9
Rated Voltage		V	12 / 24
Nominal power consumption with circulating pump	Full Load	W	83 / 90 (Boost mode)
	Partial Load	W	37
Dimensions (LxBxH)		mm	390 x 235 x 310
Weight heater with fuel pump		kg	16.5
Tolerance ± 10%			

The Webasto water stations consist of a Webasto water heater unit (e.g. Thermo Top C / Thermo 90 S), completely integrated into a stainless steel body. This provides a quick and easy installation of the system (Plug & Heat).

The Webasto water station acts as a central unit for the heating of the application's warm water heating system (such as radiators and fan heat exchangers). Additionally, domestic warm water is heated on demand using a Webasto calorifier. The switching from central heating to domestic warm water heating is done automatically.

The delivery scope of all Thermo 50 / 90 water stations product versions comprises:

Heater fitted in stainless steel enclosure, control panel, heat-only panel, control cable (length =10m), exhaust silencer (Ø 24/38), flexible exhaust pipe stainless steel (length = 1,8m), exhaust insulation (length = 1m), through hull fitting (Ø 24/38), complete fuel system (mechanical).

Part Number	Part Description
Marine	
77054700	Water Station Thermo 90 S Marine D 12V Plug & Heat
77054750	Water Station Thermo 90 S Marine D 24V Plug & Heat

Water Heating Systems

Water Stations

Water station DBW 2010 / 2016



Water station DBW 2010 / 2016			*				*				

Technical Data			DBW 2010	DBW 2016
EG-Type approval code			e1* 2001/56* 2004/78*0006_	e1* 2001/56* 2004/78*0006_
Heating capacity	Full Load	kW	16	16
Fuel consumption	Control Range	l/h	1,3 (1,5)	1,6 (1,9)
Rated Voltage		V	24	24
Fuel type			Diesel	Diesel
Nominal power consumption with circulating pump (without ventilation)	Full Load	W	125	120
Dimensions (LxBxH)		mm	800 x 520 x 270	800 x 520 x 270
Weight heater with fuel pump		kg	38	38
Tolerance ± 10%				

The Marine water stations are professional solutions designed to be used everyday and under all circumstances. The water stations have compact dimensions in all capacities (11,6 kW to 35 kW) and are assembled in a stainless steel tray, fitted in a noise-insulated plastic enclosure and operate very quietly. All systems have a winter mode with freeze protection (230 V / 750 Watt).

The following abbreviations are valid for below listed water stations:

CH = central heating unit will supply hot water to radiations and/or heat exchangers with fan
 BC = central heating and heating up domestic water in Webasto boiler, automatically controlled
 T = central heating and heating up domestic water through plate heat exchanger, automatically controlled
 C = Chiller integration, for integration in Blue Cool Chiller Systems.

Scope of delivery: Heater fitted on stainless steel tray, enclosure, control panel in Bticino style, pressure and temperature gage, overpressure valve, fuel filter, stainless steel buffer tank with electric heating, 230 V / 750 W element.

Part Number	Part Description
Marine	
3391619A	Marine central heating DBW2010 12V C
3391622A	Marine central heating DBW2010 24V C
3391617A	Marine central heating DBW2010 12V CH
3391620A	Marine central heating DBW2010 24V CH
3391618A	Marine central heating DBW2010 12V BC
3391621A	Marine central heating DBW2010 24V BC
3391625A	Marine central heating DBW2016 12V C
3391628A	Marine central heating DBW2016 24V C
3391623A	Marine central heating DBW2016 12V CH
3391626A	Marine central heating DBW2016 24V CH
3391624A	Marine central heating DBW2016 12V BC
3391627A	Marine central heating DBW2016 24V BC
3391823A	Marine Central heating DBW 2016 12V T
3391824A	Marine Central heating DBW 2016 24V T

Accessories

Pos. nr.	Part Number	Part Description
	3391768A	Wall mounting support
	9014694A	Temperature sensor external 2.5 m
	3391450A	Support for floor mounting (2 pieces required for installation)
	3392190A	Programmable timer L4451
	9013796A	Kit Telestart T91, with return signal, heating time 10-120 min

Water Heating Systems

Water Stations

Water station DBW 2010 / 2016



Accessories

Pos. nr.	Part Number	Part Description
	9008710C	Fuse box for 3 fuses
	3392192A	Decorative frame Bticino Light (white)
	3392197A	Control cable L= 5 m (between control panel and unit)
	3392198A	Control cable L= 10 m (between control panel and unit)

Water Heating Systems

Water Stations

Water station Thermo 230 / 300 / 350



Water station Thermo 230 / 300 / 350			*				*				

Technical Data				Thermo 230	Thermo 300	Thermo 350
EG-Type approval code				e1*2001/56*2004/78 *0007*--	e1*2001/56*2004/78 *0008*--	e1*2001/56*2004/78 *0009*--
Heating output		kW		23	30	35
Fuel consumption	Control Range / Plus *	kg/h		2,5	3,3	3,7
Rated Voltage		V		24	24	24
Nominal power consumption without circulating pump		W		190	235	265
Fuel Types				Diesel EN 590 / heating oil (EL)	Diesel EN 590 / heating oil (EL)	Diesel EN 590 / heating oil (EL)
Operating temperature range		°C		-40 to +80	-40 to +80	-40 to +80
Dimensions (LxBxH)		mm		800 x 520 x 270	800 x 520 x 270	800 x 520 x 270
Weight		kg		44 (C, CH model) / 48 (T model)	44 (C, CH model) / 48 (T model)	44 (C, CH model) / 48 (T model)
Tolerance ± 10%						

The Marine water stations are professional solutions designed to be used everyday and under all circumstances. The water stations have compact dimensions in all capacities (11,6 kW to 35 kW) and are assembled in a stainless steel tray, fitted in a noise-insulated plastic enclosure and operate very quietly. All systems have a winter mode with freeze protection (230 V / 750 Watt).

The following abbreviations are valid for below listed water stations:

CH = central heating unit will supply hot water to radiations and/or heat exchangers with fan

BC = central heating and heating up domestic water in Webasto boiler, automatically controlled

T = central heating and heating up domestic water through plate heat exchanger, automatically controlled

C = Chiller integration, for integration in Blue Cool Chiller Systems.

Scope of delivery: Heater fitted on stainless steel tray, enclosure, control panel in Bticino style, pressure and temperature gage, overpressure valve, fuel filter, stainless steel buffer tank with electric heating, 230 V / 750 W element.

Part Number	Part Description
Marine	
3391631A	Marine central heating Thermo 230 24V C
3391630A	Marine central heating Thermo 230 24V T
3391629A	Marine central heating Thermo 230 24V H
3391634A	Marine Central heating Thermo 300 24V C
3391633A	Marine Central heating Thermo 300 24V CH
3391825A	Marine Central heating Thermo 300 24V T
3391636A	Marine Central heating Thermo 350 24V C
3391635A	Marine Central heating Thermo 350 24V CH

Accessories

Pos. nr.	Part Number	Part Description
	3391768A	Wall mounting support
	9014694A	Temperature sensor external 2.5 m
	3391450A	Support for floor mounting (2 pieces required for installation)
	3392190A	Programmable timer L4451
	9008710C	Fuse box for 3 fuses
	3392192A	Decorative frame Bticino Light (white)
	3392197A	Control cable L= 5 m (between control panel and unit)
	3392198A	Control cable L= 10 m (between control panel and unit)

Water Heating Systems

Cargo hold heating

Casette Thermo 90ST / DBW 2010 / 2016



Casette Thermo 90ST / DBW 2010 / 2016										*	

Technical Data		Thermo 90 ST	DBW 2010	DBW 2016
Capacity	kW	6,5	11,6	16,0
Volt		24	24	24
Rated Power Consumption	W	203	328	358
Air volume flow	against 0,5 mbar	m³/h	250	500
Connections Ventilations	mm	80	80	80
Weight	kg	36	45	45
Dimensions (LxBxH)	mm	720 x 420 x 340	900 x 530 x 320	900 x 530 x 320
Tolerance ± 10%				

Freight hold heating Casette

Using a Webasto cassette, freight holds with a moderated temperature of 65°C can be heated. This heating mode prevents excessively high temperatures near the air outlet grid and therewith, possible damage of the valuable freight.

The Thermo 90ST edition has a ventilation for freight hold temperature control; DBW 2010 has two of these ventilations.

This enables specific control of two freight areas independently from each other.

The DBW 2016 version has even more heating capacity: Besides a pre-mounted heat exchanger (11 kW) this version has also a connection for an additional heat exchanger. The 5 kW ventilation of that latter can be used to warm up even bigger freight hold areas.

Scope of delivery Thermo 90 ST Casette:

Heater pre-mounted on stainless steel base, all electrical parts connected, tank connection, fuel supply tube, 1 metre exhaust tube, exhaust silencer, small parts



Part Number	Part Description
Cargo Heating	
77054894A	Casette Thermo 90 ST 12V
77054898	Casette Thermo 90 ST 24V
77056500A	Casette DBW 2010 24V
77057000A	Casette DBW 2016 24V

Water Heating Systems

Cargo hold heating

Trailer Thermo 230



Trailer Thermo 230										*	

Technical Data			
		KM 23	
Capacity		kW	23
Volt			24
Rated Power Consumption		W	405
Air volume flow	against 0,5 mbar	m³/h	1100
Weight		kg	147
Dimensions (LxBxH)		mm	1905 x 1310 x 365
Tolerance ± 10%			

With a Webasto Trailer structure KM23 it is possible to heat cargo holds with a moderate temperature of 65°C. The installation consists of a 23 kW Water heater which heats up two heat exchangers with ventilation. All components such as exhaust tube, fuel pump and filter are completely pre-mounted. The pre-mounted control unit with thermostat is also delivered. This heating mode enables quick warming up without excessively high temperatures accumulating near the air outlet grid. The machine shall be set up in a well vented environment.

Scope of delivery KM 23:
Heater pre-mounted in stainless steel box, control unit with on/off key, ventilation switch and electrical thermostat, Armaflex insulation band.

Accessory: Order number 3391869A 230V connection set. Consists of 230V connection, charger 230V / 24V, wiring harness. This enables direct operation under 230 Volt.



Part Number	Part Description
Cargo Heating	
3391780A	Trailer KM 23

Air Heaters



Hot Air and Increased Comfort!



Air Top 2000 ST



Dual Top

- Performance from 2 up to 5,5 kW (Dual Top up to 8 kW)
- Variable application for interior cabin heating
- Low consumption of fuel and power
- User-friendly control unit
- Step-less heating regulator and silent operation

Air Heating Systems

Air Heaters

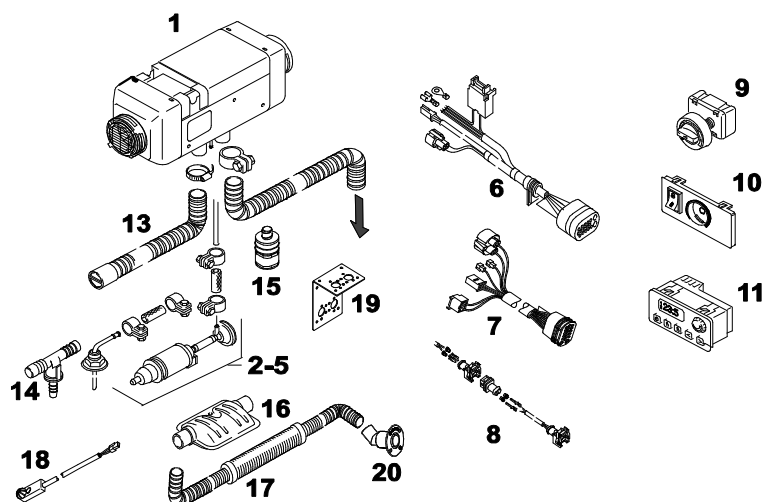
Air Top 2000 ST



Air Top 2000 ST	*	*	*	*	*		*	*	*	*	

Technical Data				Diesel	Petrol
EG-Type approval code				e1*2001/56*0022*__	e1*2001/56*0022*__
Heat Performance	Control Range	W		0,9 - 2,0	1,0 - 2,0
Heating output	Control Range	W		0,9 - 2,0	1,0 - 2,0
Fuel consumption	Control Range	l/h		0,12 - 0,24	0,12 - 0,24
Rated Voltage		V		12 / 24	12
Rated Power Consumption	Control Range	W		14 - 29	14 - 29
Heating Air Flow (Against 0,5 mbar)	Maximum	m³/h		93	93
Fuel Types				Diesel EN 590 / PME DIN EN 14214 / heating oil EL	Petrol EN 228
Operating temperature range		°C		-40 to +40	-40 to +40
Dimensions (LxBxH)		mm		311 x 120 x 121	311 x 120 x 121
Weight		kg		2,6	2,6
Tolerance ± 10%					

Scope of Delivery



Pos. nr.	Part Description
1	Heater
2	Dosing pump DP2 with damping device
3	Dosing pump DP2 with silent mounting
4	Dosing pump DP30 with damping device
5	Dosing pump DP30 with silent mounting
6	Wiring harness HG Standard
7	Wiring harness HG Marine
8	Wiring harness Dosing pump
9	Control panel retail
10	Control unit rotary switch with ventilation switch
11	Control unit digital timer
12	Set accessories (insulation, grille, etc. - no image)
13	Tube, flex tube
14	Fuel extractor
15	Air intake silencer
16	Exhaust silencer
17	Exhaust silencer Marine (tight)
18	Temperature sensor external
19	Support stainless steel
20	Wall-feed through D24 straight

Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Standard																											
9022048A	SOD Air Top 2000 ST B 12V Basic	*	*										*														
9022049A	SOD Air Top 2000 ST D 24V Basic	*			*								*														
9022047A	SOD Air Top 2000 ST D 12V Basic	*			*								*														
9022050A	Kit AT2000ST Standard						*		*					*	*												
Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Motorhomes																											
9009781C	SOD Air Top 2000 ST D 12V Motorcaravan Comfort	*			*		*		*	*			*					*									
9016149B	SOD Air Top 2000 ST D 12V Camping																										

Air Heating Systems

Air Heaters

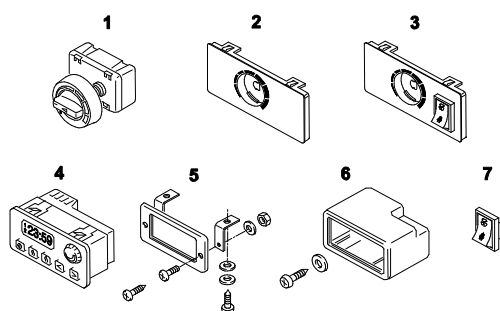
Air Top 2000 ST



Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Marine																											
9009780F	SOD Air Top 2000 ST D 12V Marine stainless steel	*	*		*	*		*		*	*			*	*			*	*	*	*						

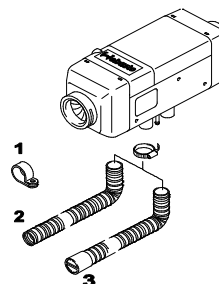
Control Units

Pos. nr.	Part Number	Part Description
1	82819B	Heater control
2	82422B	Cover for control element
3	92240A	Panel with ventilation switch
4	88206A	Digital timer 1531, combination timer 12V
4	9010385A	Digital timer 1531, combination timer 12V with wiring harness
4	88205A	Digital timer 1531, combination timer 24V
4	9010386A	Digital timer 1531, combination timer 24V with wiring harness
5	474630	Mounting set for digital timer 1529/ 1531 (bag)
6	475866	Mounting set housing (bag)
7	84586A	Switch printed



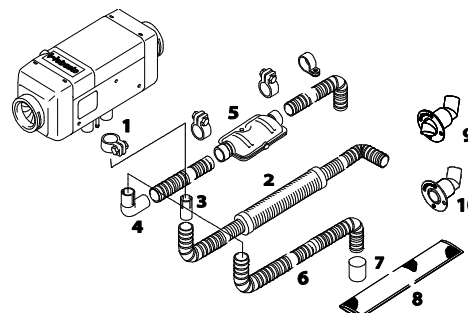
Parts of combustion air system

Pos. nr.	Part Number	Part Description
1	499021	P-clamp Ø 33
2	466115	Flexible pipe PAK Ø 22 per metre
3	492345	Air intake silencer mounting set Ø 22 410 mm



Parts of exhaust system

Pos. nr.	Part Number	Part Description
1	20965A	P-clamp Ø 24-26
2	9014067A	Exhaust Silencer Ø 24 mm air tight 1800 mm
3	92641A	Exhaust gas reducing bush Ø 22/24
4	28472C	Exhaust elbow Ø 22
5	86450C	Exhaust silencer Ø 22 without barcode
5	90378C	Exhaust silencer Ø 24
6	337390	Flexible hose Øi 22/Øo 26 Inox 2-layers per metre
7	24048A	Protection cap
8	9016230A	Thermo insulation 1250 mm
8	9016231A	Thermo insulation 1700 mm
8	1313978A	Thermo insulation 1850 mm
9	9018379A	Through hull Ø 24 bent (bag)
10	9018377A	Through hull Ø 24 straight (bag)



Air Heating Systems

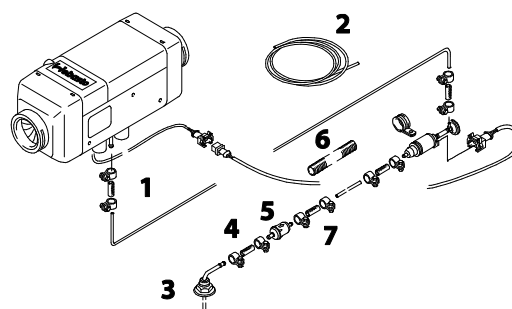
Air Heaters

Air Top 2000 ST



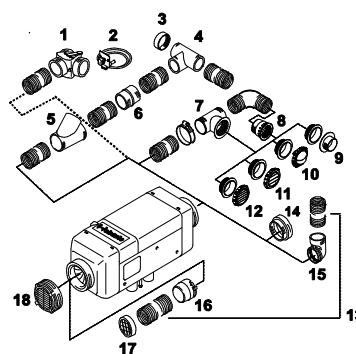
Parts of fuel supply

Pos. nr.	Part Number	Part Description
1	483931	Fuel hose 5x1.5 natur
2	64892A	Fuel line 5x1.5 5000 mm Marine acc. to EN ISO 7840
3	9008021A	Tank extracting device Ø 5 kit tank fitting with hose 6 mm 90°long
3	35320A	Tank extracting device truck 650 mm
3	1301553A	Tank extracting device Ø 5 kit tank fitting with hose 6 mm 90°short
3	1300823C	Tank extracting device (tank fitting) 508 mm 90°
3	1300494D	Tank extracting device (tank fitting) 508 mm
4	379611	Fuel hose B5x9
5	487171	Fuel filter
6	15570A	Flexible pipe/ heat protection hose GA-A Øi 14.5 standard length 1 m
7	64891A	Fuel hose Ø 5x5 50 mm acc. to EN ISO 7840 Marine



Parts for (heating) air system

Pos. nr.	Part Number	Part Description
1	9009642A	Distributor with flap valve 60/60/60
2	9008255A	Bowden cable for distributor 60/60/60 (9009642A) and 90/90/90 (9009641A)
3	9009319D	End piece Ø 60
4	9009266C	T-piece 60/60/60
5	9009264B	Branch 60/60/60
6	9009258C	Connection piece Ø 60 straight
7	9009268B	Threaded T-piece 60/60/60
8	9009239B	Sleeve Ø 60
9	9009249C	Wall pipe Ø 60
10	9012301A	Air outlet Ø 60 closable white
10	9012300A	Air outlet Ø 60 closable black
10	9012302A	Air outlet Ø 60 closable grey
11	9012295A	Air outlet Ø 60 45°white
11	9012294A	Air outlet Ø 60 45°black
11	9012296A	Air outlet Ø 60 45°grey
12	9012298A	Air outlet Ø 60 90°white
12	9012297A	Air outlet Ø 60 90°black
12	9012299A	Air outlet Ø 60 90°grey
13	1311884A	Flexible pipe APK Ø 60 mm per metre
13	1311892B	Flexible pipe APK Ø 60 mm 25 m
13	441376	Flexible tube PAK Ø 55 per metre
13	1311897A	Flexible pipe PAPK Ø 60 per metre
13	1311898B	Flexible pipe PAPK Ø 60 25 m
14	82378A	Adapter ring 60/75
15	29849A	Hot air elbow Ø 60
16	31290B	Air inlet adapter
17	84937A	Protective screen Ø 60
18	67492A	Grid



Air Heating Systems

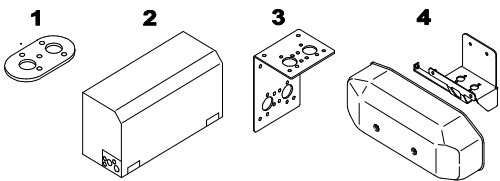
Air Heaters

Air Top 2000 ST



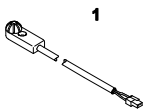
Mounting Parts

Pos. nr.	Part Number	Part Description
1	82227A	Spacer plate for Air Top 2000 6mm (for height compensation)
2	86032A	Installation box for Air Top 2000 outside installation underfloor
3	92223C	Heater bracket
4	9005942A	Air Top Box for Air Top 2000 ST plastic cover hood



Accessories

Pos. nr.	Part Number	Part Description
1	9005004B	Temperature sensor external 5 m for Air Top 2000 ST



Air Heating Systems

Air Heaters

Air Top Evo 3900



											
Air Top Evo 3900	*	*	*	*	*		*	*	*	*	*

Technical Data				Diesel	Petrol
EG-Type approval code		e1*2001/56*2006/119*0255*_		e1*2001/56*2006/119*0255*_	
Heating output	Control Range / Plus *	kW		1,5 - 3,5 / 3,9 **	1,7 - 3,5 / 3,9
Fuel consumption	Control Range / Plus *	kg/h		0,16 - 0,37 / 0,41	0,18 - 0,37 / 0,41
Rated Voltage		V		12 / 24	12
Rated power voltage	Control Range / Plus *	W		15 - 40 / 55	15 - 40 / 55
Heatin air flow	Control Range / Plus against 0,5 mbar	m³/h]		132 / 139 (Marine 140 /155)	132 / 139 (Marine 140 /155)
Fuel Types				Diesel EN 590 / PME DIN EN 14214 / heating oil EL	Petrol EN 228
Operating temperature range		°C		-40 to +40	-40 to +40
Dimensions (LxBxH)		mm		423 x 148 x 162	423 x 148 x 162
Weight		kg		5,9	5,9
Tolerance ± 10%					

See Technical Notes on page 2.

*Increased heating performance "plus" possible with control unit MC Multi Comfort (max. 60 min with Air Top Evo 3900 / max. 30 min. with Air Top Evo 5500).

Additional functions Master-Slave:

**2-4 can be connected to each other in order to reach a heating performance up to 22 kW (see Air Top Evo System, page 64).

Additional functions Automatic versions (AM):

- Autoboot, for quick automatical heating
- Automatic height adjustment for optimal heating performance at higher altitudes
- Extended features via control unit MC are possible
- Air Top Evo System is possible (see page 64)

Contents: Heater, accessories (please order control unit seperately)

Additional functions RV versions (AH):

- Automatic height adjustment for optimal heating performance at higher altitudes
- Extended features via control unit MC are possible

Additional functions Marine versions:

- 5% higher ventilation speed and therewith, stronger air volume flow
- A respectively higher electrical power consumption

The devices are especially suitable for longer air ducts with stronger counterpressure.

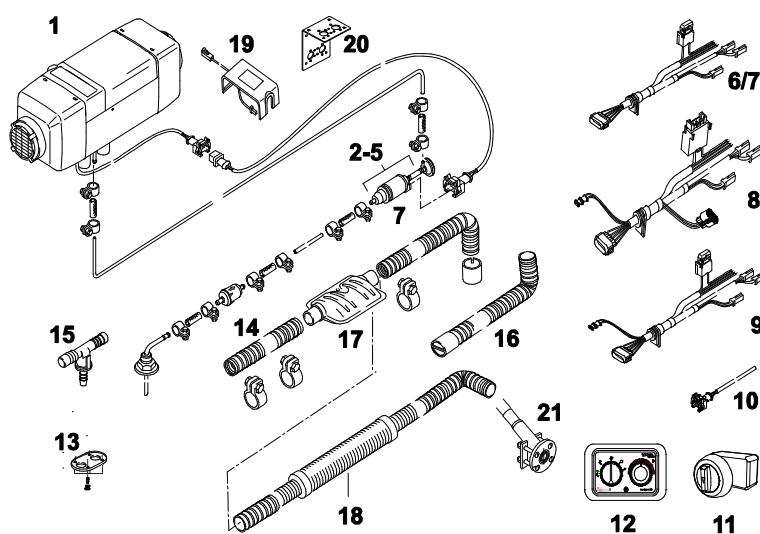
Air Heating Systems

Air Heaters

Air Top Evo 3900



Scope of Delivery



Pos. nr.	Part Description
1	Heater
2	Dosing pump DP2 with damping device
3	Dosing pump DP2 with silent mounting
4	Dosing pump DP30 without damping device
5	Dosing pump DP30 with silent mounting
6	Wiring harness heater Standard
7	Wiring harness heater SPM/RV
8	Wiring harness heater Marine 9500mm
9	Wiring harness Master-Slave System
10	Wiring harness dosing pump
11	Control panel retail
12	Control panel MultiComfort MC
13	Set accessories (Insulation, grille ...)
14	Tube, flextube
15	Fuel extractor
16	Air intake silencer
17	Exhaust silencer
18	Exhaust silencer Marine (tight)
19	Temperature sensor external, bag 2500/5000mm
20	Support stainless steel
21	Wall-feed through D24 straight

Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Standard																													
9019200B	SOD Air Top Evo 3900 P 12V Basic	*	*											*															
9019198B	SOD Air Top Evo 3900 D 12V Basic	*			*									*															
9019199B	SOD Air Top Evo 3900 D 24V Basic	*			*									*															
9019428A	Kit Air Top Evo 3900/5500 Standard						*				*				*	*	*												
Special Vehicles																													
9019263A	SOD Air Top Evo 3900 P 12V Automatic	*	*				*				*			*	*	*													
9019264B	SOD Air Top Evo 3900 D 12V Automatic	*			*			*			*			*	*	*													
9019265A	SOD Air Top Evo 3900 D 24V Automatic	*			*			*			*			*	*	*													
1314412A	SOD Air Top Evo 3900 D 12V Automatic-Slave	*			*					*	*			*	*	*													
1314413A	SOD Air Top Evo 3900 D 24V Automatic-Slave	*			*					*	*			*	*	*													
Motorhomes																													
9019293C	SOD Air Top Evo 3900 D 12V Standard AM Camping	*		*				*			*		*	*	*	*	*	*	*										
9018548B	SOD Air Top Evo 3900 Diesel 12V Comfort RV AM	*			*			*			*	*		*	*	*	*	*	*										
Marine																													
9019203B	SOD Air Top Evo 3900 P 12V Marine Basic	*	*											*															
9019201B	SOD Air Top Evo 3900 D 12V Marine Basic	*			*									*															
9019202B	SOD Air Top Evo 3900 D 24V Marine Basic	*			*									*															
9018439B	SOD Air Top Evo 3900 D 12V Marine	*			*			*		*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9018440B	SOD Air Top Evo 3900 D 24V Marine	*			*			*		*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9018495B	SOD Air Top Evo 3900 D 12V Marine Evo + MC04	*			*			*		*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9018496B	SOD Air Top Evo 3900 D 24V Marine	*			*			*		*	*		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Air Heating Systems

Air Heaters

Air Top Evo 5500



											
Air Top Evo 5500	*	*	*	*	*	*	*	*	*	*	*

Technical Data				Diesel	Petrol
EG-Type approval code		e1*2001/56*2006/119*0256*__		e1*2001/56*2006/119*0256*__	
Heating output	Control Range / Plus *	kW		1,5 - 5,0 / 5,5**	1,7 - 5,0 / 5,5
Fuel consumption	Control Range / Plus *	kg/h		0,16 - 0,52 / 0,57	0,18 - 0,52 / 0,57
Rated Voltage		V		12 / 24	12
Rated power voltage	Control Range / Plus *	W		15 - 95 / 130	15 - 95 / 130
Heatin air flow	Control Range / Plus against 0,5 mbar	m³/h]		200 / 220	200 / 220
Fuel Types		Diesel EN 590 / PME DIN EN 14214 / heating oil EL		Petrol EN 228	
Operating temperature range		°C		-40 to +40	-40 to +40
Dimensions (LxBxH)		mm		423 x 148 x 162	423 x 148 x 162
Weight		kg		5,9	5,9
Tolerance ± 10%					

*Increased heating performance "plus" possible with control unit MC Multi Comfort.

**2-4 can be connected to each other in order to reach a heating performance up to 22 kW

Contents for Standard versions: Heater (Please order installation accessories and control unit seperately)

Additional functions Automatic versions (AM):

- Autoboot, for quick automatical heating
- Automatic height adjustment for optimal heating performance at higher altitudes
- Extended features via control unit MC are possible
- Air Top Evo System is possible (see page 64)

Contents: Heater, accessories (Please order control unit seperately)

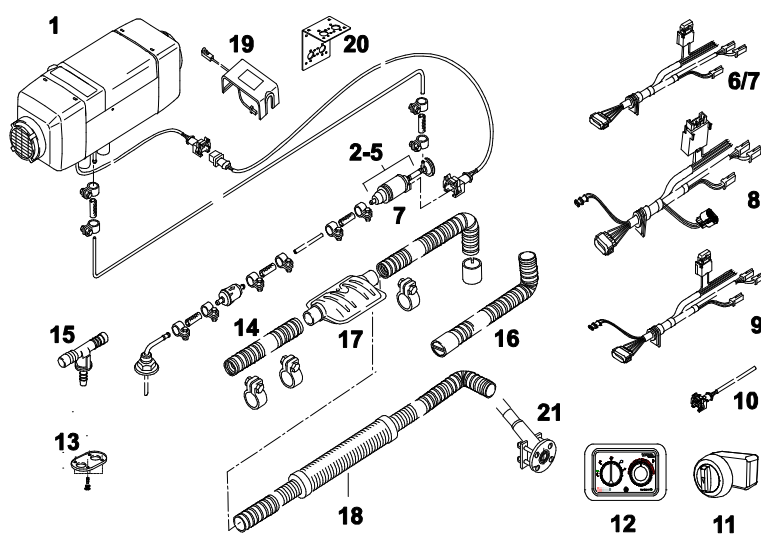
Air Heating Systems

Air Heaters

Air Top Evo 5500



Scope of Delivery



Pos. nr.	Part Description
1	Heater
2	Dosing pump DP2 with damping device
3	Dosing pump DP2 with silent mounting
4	Dosing pump DP30 without damping device
5	Dosing pump DP30 with silent mounting
6	Wiring harness heater Standard
7	Wiring harness heater SPM/RV
8	Wiring harness heater Marine 9500mm
9	Wiring harness Master-Slave System
10	Wiring harness dosing pump
11	Control panel retail
12	Control panel MultiComfort MC
13	Set accessories (Insulation, grille ...)
14	Tube, flextube
15	Fuel extractor
16	Air intake silencer
17	Exhaust silencer
18	Exhaust silencer Marine (tight)
19	Temperature sensor external, bag 2500/5000mm
20	Support stainless steel
21	Wall-feed through D24 straight

Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Standard																												
9019206B	SOD Air Top Evo 5500 P 12V Basic	*	*											*														
9019204B	SOD Air Top Evo 5500 D 12V Basic	*			*									*														
9019205B	SOD Air Top Evo 5500 D 24V Basic	*			*									*														
9019428A	Kit Air Top Evo 3900/5500 Standard						*				*				*	*	*											
Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Special Vehicles																												
9019271A	SOD Air Top Evo 5500 P 12V Basic-Ambulance	*	*				*				*			*														
9019272B	SOD Air Top Evo 5500 D 12V Basic-Ambulance	*					*													*		*						
9019266A	SOD Air Top Evo 5500 P 12V Automatic	*	*				*				*			*	*		*											
9019267B	SOD Air Top Evo 5500 D 12V Automatic	*			*			*			*			*	*		*											
9019268C	SOD Air Top Evo 5500 D 24V Automatic	*			*			*			*			*	*		*											
1314345A	SOD Air Top Evo 5500 D 12V Automatic-Slave	*			*					*	*			*	*		*											
1314344A	SOD Air Top Evo 5500 D 24V Automatic-Slave	*			*					*	*			*	*		*											
Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Motorhomes																												
9019294B	SOD Air Top Evo 5500 D 12V Standard AM Camping	*			*			*		*		*		*	*		*	*		*								
9018549A	SOD Air Top Evo 5500 D 12V Comfort AM RV	*		*				*			*		*	*	*		*	*		*								
Part Number	Part Description	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Marine																												
9018441C	SOD Air Top Evo 5500 D 12V Marine	*				*			*		*	*		*	*	*	*		*	*	*	*						
9018442C	SOD Air Top Evo 5500 D 24V Marine	*				*			*		*	*		*	*	*	*		*	*	*	*						
9018497C	SOD Air Top Evo 5500 D 12V Marine Evo MC04	*			*			*		*		*		*	*	*	*		*	*	*	*						
9018498C	SOD Air Top Evo 5500 D 24V Marine Evo MC04	*			*			*		*		*		*	*	*	*		*	*	*	*						

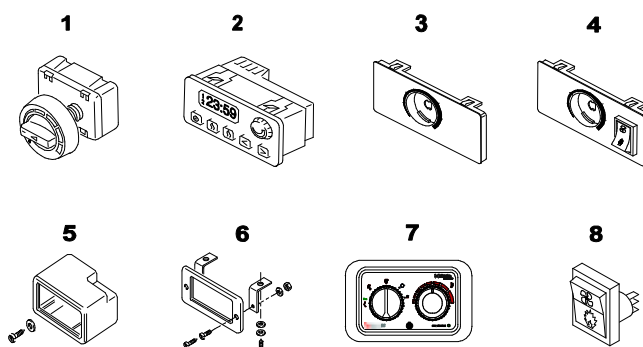
Air Heating Systems

Air Heaters

Accessories for Air Top Evo 3900 / 5500

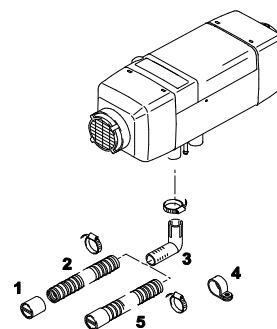
Control Units

Pos. nr.	Part Number	Part Description
1	82819B	Heater control
2	88205A	Digital timer 1531, combination timer 24V
2	88206A	Digital timer 1531, combination timer 12V
3	82422B	Cover for control element
4	92240A	Panel with ventilation switch
5	475866	Mounting set housing (bag)
6	474630	Mounting set for digital timer 1529/ 1531 (bag)
7	1313212A	Heater control MC 05 12/24V Standard
7	1313210B	Heater control MC 05 12/24V Camping
7	1313184A	Heater control MC 04 12/24V Marine (kit)
7	1313212B	Control Unit MC05 12/24 V Standard (Kit)
8	84586A	Switch printed
	1313908A	Adapter wiring harness for 92240A



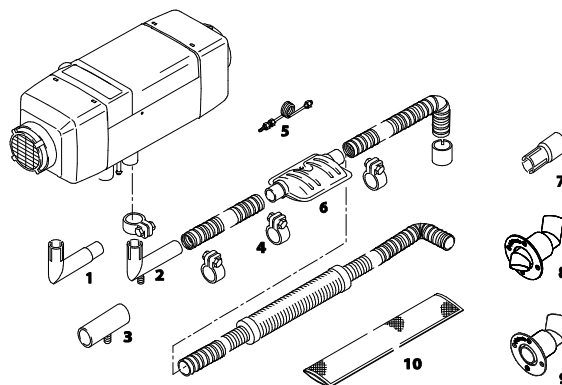
Parts of combustion air system

Pos. nr.	Part Number	Part Description
1	90411A	Protection cap
2	91562A	PAK Hose Ø 25 per metre
3	91563A	Air intake elbow
4	499021	P-clamp Ø 33
5	90416D	Air intake silencer Ø 25 650 mm compl.



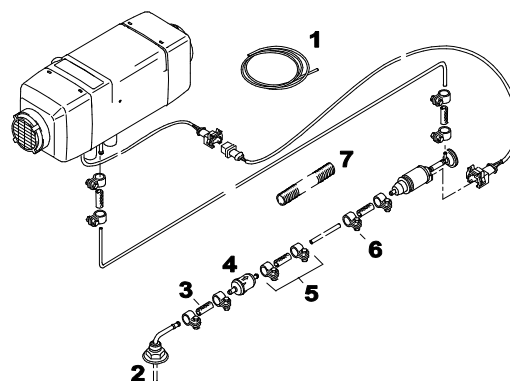
Parts of exhaust system

Pos. nr.	Part Number	Part Description
1	92643A	Exhaust elbow Ø 24 without drainage
2	91383B	P-clamp Ø 27-30
2	91564B	Exhaust elbow Ø 24
3	92164A	Connection pipe with drainage
4	126830	P-clamp Ø 42
5	92621A	Condensation water drain (bag)
6	90378C	Exhaust silencer Ø 24
7	66878A	Exhaust pipe reduction Ø 24/30
8	9018379A	Through hull Ø 24 bent (bag)
9	9018377A	Through hull Ø 24 straight (bag)
10	9016230A	Thermo insulation 1250 mm
10	9016231A	Thermo insulation 1700 mm
10	1313978A	Thermo insulation 1850 mm



Accessories for Air Top Evo 3900 / 5500

Pos. nr.	Part Number	Part Description
1	64892A	Fuel line 5x1.5 5000 mm Marine acc. to EN ISO 7840
2	9008021A	Tank extracting device Ø 5 kit tank fitting with hose 6 mm 90°long
2	35320A	Tank extracting device truck 650 mm
2	1301553A	Tank extracting device Ø 5 kit tank fitting with hose 6 mm 90°short
2	1300823C	Tank extracting device (tank fitting) 508 mm 90°
2	1300494D	Tank extracting device (tank fitting) 508 mm
3	64891A	Fuel hose Ø 5x5 50 mm acc. to EN ISO 7840 Marine
4	487171	Fuel filter
5	66959A	Fuel connections for Air Top 3500/5000 Marine compl.
6	1310771A	Hose clamp Ø 9
7	15570A	Flexible pipe/ heat protection hose GA-A Øi 14.5 standard length 1 m



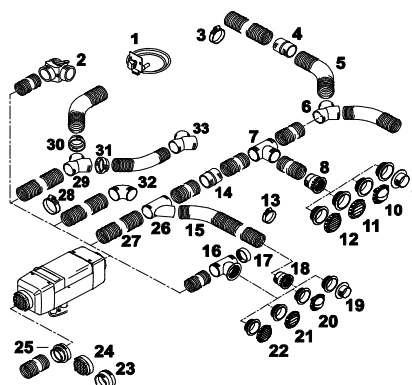
Air Heating Systems

Air Heaters

Accessories for Air Top Evo 3900 / 5500

Parts for (heating) air system

Pos. nr.	Part Number	Part Description
1	107812	Bowden cable 850 mm for distributor 80/80/80 (100567)
1	108932	Bowden cable 1500 mm for distributor 80/80/80 (100567)
1	9008255A	Bowden cable for distributor 60/60/60 (9009642A) and 90/90/90 (9009641A)
2	9009642A	Distributor with flap valve 60/60/60
2	100567	Distributor with flap valve 80/80/80
2	9009641A	Distributor with flap valve 90/90/90
3	1312547A	Hose clamp DIN3017-A Ø 70-90
4	495646	Double pipe socket Ø 80 75mm
5	9021059B	PAK Flex tube with 10mm Armaflex Insulation, Di = 80mm, Da = 109mm, L = 12m roll
5	1311885A	Flexible pipe APK Ø 80 mm per metre
5	1311893B	Flexible pipe APK Ø 80 mm 25 m
5	1311899A	Flexible pipe PAK Ø 80 per metre
5	1311900B	Flexible pipe PAK Ø 80 25 m
6	91000A	Y-piece 90/80/80
7	9009266C	T-piece 60/60/60
7	9009265C	T-piece 90/90/90
8	9009240B	Muffle Ø 90
9	9009250C	Wall pipe Ø 90
10	9012292A	Air outlet Ø 90 closable white
10	9012291A	Air outlet Ø 90 closable black
10	9012293A	Air outlet Ø 90 closable grey
10	9014998A	Air outlet closable, brown Ø 60
11	9012286A	Air outlet Ø 90 45°white
11	9012285A	Air outlet Ø 90 45°black
11	9012287A	Air outlet Ø 90 45°grey
11	9015000A	Air outlet 45°, brown Ø 60
12	9012289A	Air outlet Ø 90 90°white
12	9012288A	Air outlet Ø 90 90°black
12	9012290A	Air outlet Ø 90 90°grey
12	9015003A	Air outlet 90°, brown Ø 60
13	1312548A	Hose clamp DIN3017-A Ø 50-70
14	9009258C	Connection piece Ø 60 straight
14	9009259C	Hose connector Ø 90 straight
15	1311884A	Flexible pipe APK Ø 60 mm per metre
15	1311892B	Flexible pipe APK Ø 60 mm 25 m
15	1311898B	Flexible pipe PAK Ø 60 25 m
15	1311897A	Flexible pipe PAK Ø 60 per metre
16	9009268B	Threaded T-piece 60/60/60
16	9009267B	Threaded T-piece 90/60/90
17	9009319D	End piece Ø 60
17	9009271D	End piece Ø 90
18	9009239B	Sleeve Ø 60
19	9009249C	Wall pipe Ø 60
20	9012301A	Air outlet Ø 60 closable white
20	9012300A	Air outlet Ø 60 closable black
20	9012302A	Air outlet Ø 60 closable grey



Air Heating Systems

Air Heaters

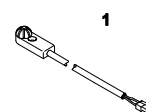
Accessories for Air Top Evo 3900 / 5500

Parts for (heating) air system

Pos. nr.	Part Number	Part Description
21	9012295A	Air outlet Ø 60 45°white
21	9012294A	Air outlet Ø 60 45°black
21	9012296A	Air outlet Ø 60 45°grey
22	9012298A	Air outlet Ø 60 90°white
22	9012297A	Air outlet Ø 60 90°black
22	9012299A	Air outlet Ø 60 90°grey
23	89075A	Reducer Ø 90/80
24	252441	Grid Ø 80
25	89111B	Adapter 90°80
26	9009264B	Branch 60/60/60
26	9009263B	Branch 90/60/90
27	9021082B	Insolated Hose PAK Ø90 12m
27	1311894B	Flexible pipe APK Ø 90 mm 25 m
27	1311886A	Flexible pipe APK Ø 90 per metre
27	1311902B	Flexible pipe PAK Ø 90 25 m
27	1311901A	Flexible pipe PAK Ø 90 per metre
28	91565B	Hose clamp Ø 80-95
29	9009261D	Y-piece 90/90/90
30	9011011C	Reducing piece 90/60
31	9009270B	Reducing piece 90/80
32	9009260C	Elbow 90° Ø 90
33	9009262B	Y-piece 80/60/60

Accessories

Pos. nr.	Part Number	Part Description
1	9014694A	Temperature sensor external 2.5 m



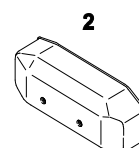
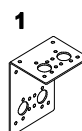
Air Heating Systems

Air Heaters

Accessories for Air Top Evo 3900 / 5500

Mounting Parts

Pos. nr.	Part Number	Part Description
1	92223C	Heater bracket
2	9005942A	Air Top Box for Air Top 2000 ST plastic cover hood



Air Top System

Modular Air heating System

7,8 - 22 kW

Control unit



Temperature sensor



Master



Slave



Slave



Slave

Build-up as system

The variants Air Top Evo 3900 and Air Top Evo 5500 offer the option to operate up to 4 Heaters within one System: Heater 1 is defined as master heater, the other heating devices are so called slave heaters. The control unit and external temperature sensor are connected to the master heater. The slave heater gets connected to the wiring harness of the master heater. The communication between the various devices happens via a serial bus system. Therewith, i.e. through combining several heating devices, a system can be individually adapted to a given application.

- **Modular concept - all heating devices are identical**
- **Easy to install - the system configures itself automatically**
- **One master heating device controls all slave heating devices**
- **Only one control unit**
- **Only one temperature sensor**
- **Diagnosis enabled**
- **The system is scalable**

Volt	kW	Master 1x	Slave x Stk.	
12	8	9019264B LU Air Top Evo 3900 D 12V Automatic	1314412A LU Air Top Evo 3900 D 12V Automatic-Slave	1
24	8	9019265C LU Air Top Evo 3900 D 24V Automatic	1314413A LU Air Top Evo 3900 D 24V Automatic-Slave	1
12	11	9019267C LU Air Top Evo 5500 D 12V Automatic	1314345A LU Air Top Evo 5500 D 12V Automatic-Slave	1
	16,5			2
	22			3
24	11	9019268B LU Air Top Evo 5500 D 24V Automatic	1314344A LU Air Top Evo 5500 D 24V Automatic-Slave	1
	16,5			2
	22			3

Necessary as additional equipment:

1 Control unit MC 0X (1313209A) or Standard

1 External temperature sensor 9014694A

Integrated Heating System

Integrated Heater

Dual Top RHA 100 / 101 / 102



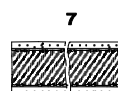
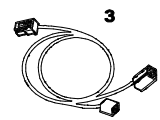
Dual Top RHA 100 / 101 / 102			*								

Technical Data				RHA 100 / RHA 101 / RHA 102
EG Type approval code	Heater			e1 00 0195
	EMC			e1 03 5000
Power output	Diesel	kW		1,5 - 6,0
	Electrical	kW		- / 0,6 - 1,2 / 1,0 - 2,0
Fuel consumption	Control Range	kg/h		0,1 - 0,6
Rated Voltage		V		12
Rated Power Consumption	Control Range	W		15 - 65
Heating air volume	against 0,5 mbar	m³/h		200
Fuel Types				Diesel EN 590
Operating temperature range		°C		-30 to +50
Dimensions (LxBxH)		mm		530 x 352 x 256
Weight		kg		20 / 21 / 21
Boiler capacity		l		11
Maximum pressure plumbing water		bar		3,5
Tolerance ± 10%				

Part Number	Part Description
Motorhomes	
For diving pump water systems	
9021619A	SOD Dual Top RHA 100 DP v3.0 AM
9022027A	SOD Dual Top RHA 101 DP v3.0 AM
9022028A	SOD Dual Top RHA 102 DP v3.0 AM
For pressure pump water systems	
9020868B	SOD Dual Top RHA 100 v3.0 AM
9021003A	SOD Dual Top RHA 101 v3.0 AM
9021004A	SOD Dual Top RHA 102 v3.0 AM

Accessories

Pos. nr.	Part Number	Part Description
1	1310746D	Programmable user interface RHA 100
2	1312808C	Extension cable dosing pump DP 40 1m
2	1312813C	Extension cable dosing pump DP 40 3m
2	9017412C	Extension cable dosing pump DP 40 5m
2	1312814C	Extension cable dosing pump DP 40 7m
3	9019419B	Extension wiring harness control unit RHA 100 3m
3	9022295A	Extension wiring harness control unit RHA 100 7m
3	9020630B	Extension wiring harness control unit RHA 100 3m
4	1314904A	Air intake cover Dual Top Ø 60
5	9018486B	Air outlet Ø 90, 90° black
6	9018647C	Kit Dual Top bellows compl.
7	9021059B	PAK Flex tube with 10mm Armaflex Insulation, Di = 80mm, Da = 109mm, L = 12m roll
8	9020573B	Duct-tube connection 10mm
7	9021082B	Insolated Hose PAK Ø90 12m
9	9020574B	15mm to 10mm tube connector



Accessory Products



Diesel Cooker: Comfortable and Safe Cooking in the Recreational Vehicle!



Diesel Cooker



Control Unit

- Performance: 900-1.900 Watt
- Gas-free cooking for all diesel-operated recreational vehicles
- Low power and fuel consumption
- High quality and robust CERAN® cook top panel
- Fast installation through universal installation kit

Commodities

Cooking Systems

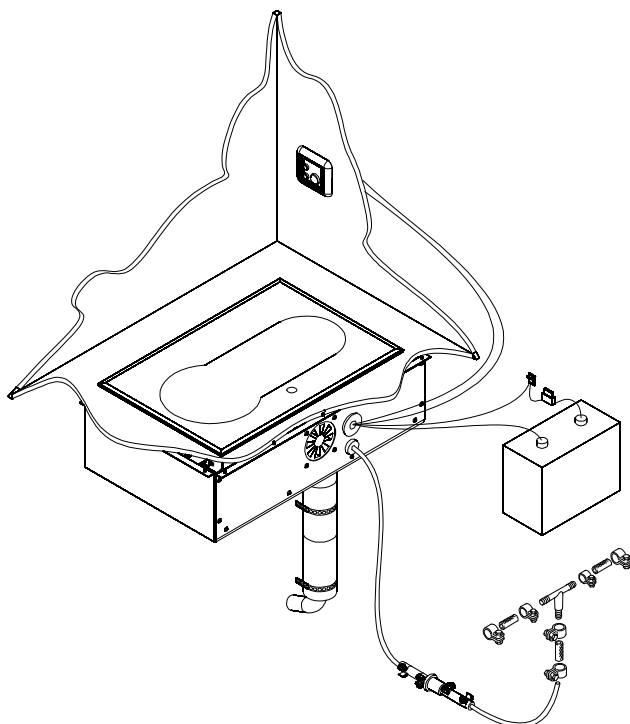
Diese Cooker X100



Diese Cooker X100			*								

Technical Data			
Dieselcooker X 100			
EG-Type approval code	GS / Fi / CE : 22159 / 22156		
Heating output	Control Range	W	0,9 - 1,9
Fuel consumption	Control Range	kg/h	0,074 - 0,156
Rated Voltage		V	12
Rated Power Consumption	Control Range	W	0,3 (with Start 8)
Heating up time		min	~ 3
Maximum temperature cooking field		°C	550
Fuel Types	Diesel EN 590		
Dimensions Ceran cooking field (LxWxH)		mm	466 x 316 x 50
Dimensions ventilation box (LxWxH)		mm	565 x 366 x 172
Weight		kg	9,5
Tolerance ± 10%			

Diesel Cooker with Ceran cooking surface. Appropriate exclusively for use in campers. Complete package including installation accessories and control unit.



Part Number	Part Description
Motorhomes	
WA90000B	Diesel Cooker X100 including installation kit

Parts of exhaust system

Pos. nr.	Part Number	Part Description
1	3200830A	Exhaust hose Ø 28 3.0 m
1	3200832A	Exhaust hose Ø 28 20 m

Commodities

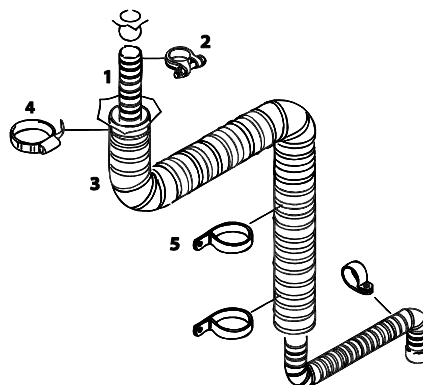
Cooking Systems

Diese Cooker X100



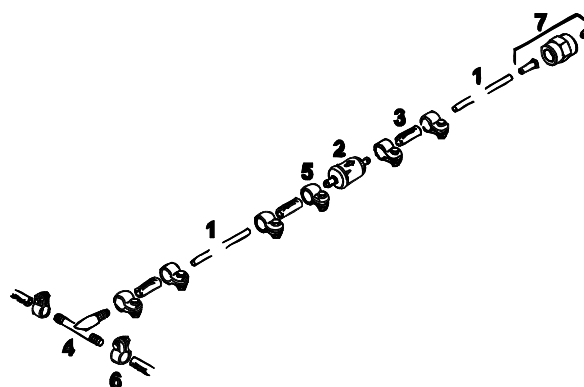
Parts of exhaust system

Pos. nr.	Part Number	Part Description
1	3200826A	Exhaust hose Ø 28 1.9 m
2	1312403A	Hose clamp Ø 30-33
3	3200833A	Cooling air hose APK Ø 60 25 m
3	3200831A	Cooling air hose APK Ø 60
3	3200827A	Cooling air hose APK Ø 60
4	1310877A	Hose clamp DIN 3017 Ø 60-80
5	79375450	Hose clamp Øi 62
5	1310947A	Hose clamp Ø 10



Parts of fuel supply

Pos. nr.	Part Number	Part Description
1	483931	Fuel hose 5x1.5 natur
2	487171	Fuel filter
3	484032	Fuel hose Ø 4.5x10.5 50 mm
4	9001344B	Fuel standpipe 8x5x8 PME resistant plastic
5	1310947A	Hose clamp Ø 10
6	1310763A	Hose clamp Ø 12
7	WA17689	Fuel connector



Air-Conditioners



The Right Climate is essential!



Compact Cooler 4E



Compact Cooler 5

- Cooling performance from 3,5 up to 8,5 kW
- Compact roof top air-conditioner for mini busses and drivers' cabins
- Short cooling time at very quiet operating
- Fast and simple installation
- Flexible comfort through module design

Air Conditioning Systems

Air conditioning system

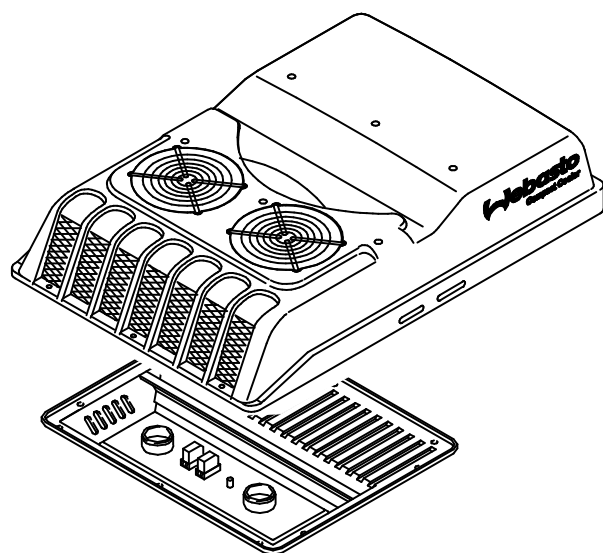
Compact Cooler 4E



Compact Cooler 4E								*	*		*

Technical Data		
EG-Type approval code		e1*72/245*2006/96*1443*06
Cooling capacity	kW	3,50
Refrigerant		R134a, prefilled
Rated Voltage	V	24
Total current consumption	A	max. 68
Operating temperature range	°C	max. 45
Volume flow evaporator fan (with air distribution plate)	m³/h	max. 550 (with air distribution plate)
Dimensions (LxBxH)	mm	1110 x 774 x 215
Weight	kg	55,0
Tolerance ± 10%		

See notes on page 2. Air conditioning system, recirculating edition with 3-level evaporating blower and electric compressor. The unit is filled with refrigerant R134a.



Part Number	Part Description
Construction Vehicles	
9004865B	Compact Cooler 4E R134a 24V with air distribution panel, room thermostat and standard mounting kit
9004864B	Compact Cooler 4E R134a 24V with air distribution panel and standard mounting kit

Accessories

Pos. nr.	Part Number	Part Description
1	66277A	Cable set for external control element 10, 80 m
2	64049A	Recirculated air filter CC5

Air Conditioning Systems

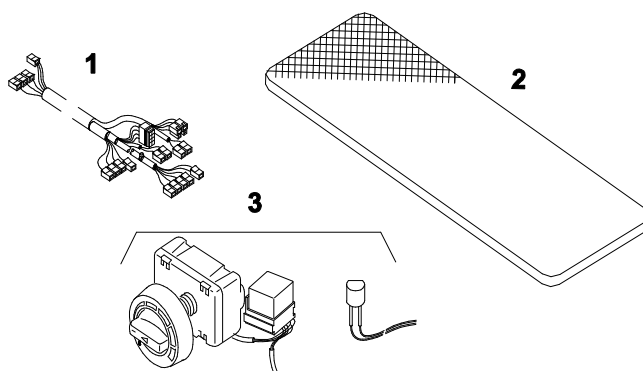
Air conditioning system

Compact Cooler 4E



Accessories

Pos. nr.	Part Number	Part Description
3	98900A	Retrofit kit electronic room thermostat 24V for CC5 retrofit kit



Air Conditioning Systems

Air conditioning system

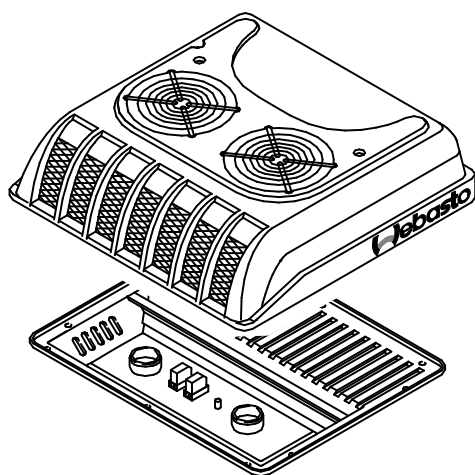
Compact Cooler 5



Compact Cooler 5	*			*				*	*		

Technical Data		
EG-Type approval code		e1*72/245*2006/96*1443*06
Cooling capacity	kW	5,0
Heating capacity Q80 (CC8 with heating section) only 12V	kW	--
Refrigerant		R134a, CFC-free
Rated Voltage	V	12 / 24
Total current consumption	A	30
Operating temperature range	°C	max. 45
Volume flow evaporator fan (with air distribution plate)	m³/h	630 (with air distribution plate)
Dimensions (LxBxH)	mm	750 x 760 x 165
Weight	kg	26,5
Tolerance ± 10%		

See notes on page 2. Air conditioning system, recirculating edition with 3-level evaporating blower and electric compressor, without refrigerant compressor, compressor support and refrigerant. Compressor supports must be bought at the vehicle manufacture or produced independently. Suitable for refrigerant R134a.



Part Number	Part Description
Construction Vehicles	
67356C	Compact Cooler 5 R134a 12V Basic version with air distribution panel, without standard installation kit
66282C	Compact Cooler 5 R134a 12V with air distribution panel and electronic room thermostat, without standard installation kit
64033D	Compact Cooler 5 R134a 12V with air distribution panel and standard installation kit
67355C	Compact Cooler 5 R134a 24V basic version with air distribution plate, without standard mounting kit
66281C	Compact Cooler 5 R134a 24V with air distribution panel and electronic room thermostat, without standard installation kit
64032D	Compact Cooler 5 R134a 24V with air distribution panel and standard installation kit

Air Conditioning Systems

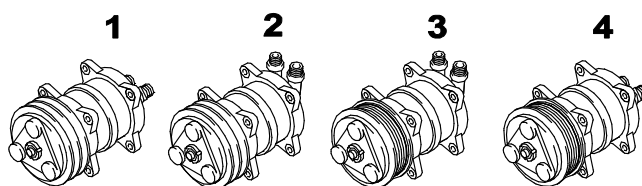
Air conditioning system

Compact Cooler 5



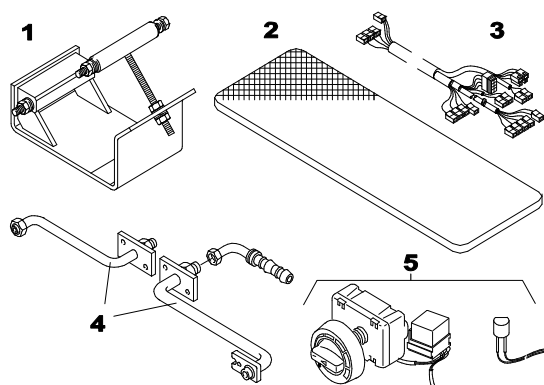
Compressor kits

Pos. nr.	Part Number	Part Description
1	40152B	Seltec compressor TM-13 HD horizontal 12V
1	40153B	Seltec compressor TM-13 HD horizontal 24V
2	80755B	Seltec compressor TM-13 HD vertical 12V
2	80700B	Seltec compressor TM-13 HD vertical 24V
3	67478A	Seltec compressor TM-13 HD 8PVK vertical 12V
4	88139B	Seltec compressor TM-13 HD 8PVK horizontal 24V



Accessories

Pos. nr.	Part Number	Part Description
1	87723C	Universal bracket
2	64049A	Recirculated air filter CC5
3	66277A	Cable set for external control element 10, 80 m
4	64519C	Installation kit external tube position
5	98899A	Elektronic room thermostat 12V for CC5 retrofit kit
5	98900A	Retrofit kit electronic room thermostat 24V for CC5 retrofit kit
	64497C	Kit 2x6 m refrigerant tube
	65362C	Kit 2x11m refrigerant hose



Air Conditioning Systems

Air conditioning system

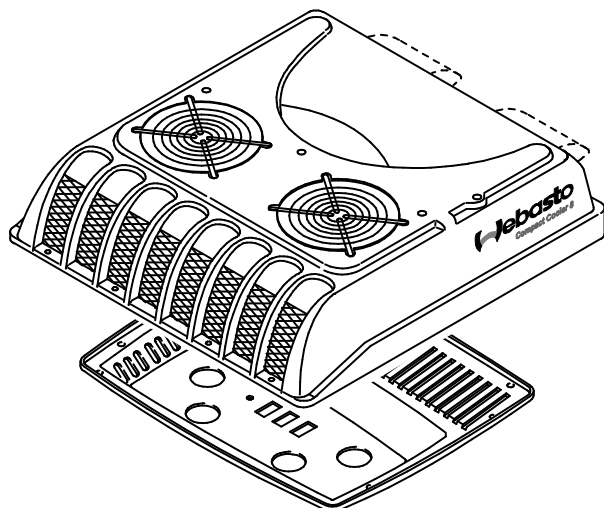
Compact Cooler 8



Compact Cooler 8	*							*			*

Technical Data		
EG-Type approval code		e1*72/245*2006/96*1443*06
Cooling capacity	kW	8,50
Heating capacity Q80 (CC8 with heating section) only 12V	kW	7,50
Refrigerant		R134a, CFC-free
Rated Voltage	V	12 /24
Total current consumption	A	30
Operating temperature range	°C	max. 45
Volume flow evaporator fan (with air distribution plate)	m³/h	1300 (freely blowing)
Dimensions (LxBxH)	mm	1025 x 970 x 197
Weight	kg	40
Tolerance ± 10%		

See notes on page 2. Air conditioning system, recirculating edition with 3-level evaporating blower and electric compressor, without refrigerant compressor, compressor support and refrigerant. Compressor supports must be bought at the vehicle manufacture or produced independently. Suitable for refrigerant R134a.



Part Number	Part Description
Commercial Vehicles	
9000785B	Compact Cooler 8 R134a 12V with heating element, with electronic room thermostat and electrically operated fresh-air flap, without air distribution panel and without Standard installation kit
9000784B	Compact Cooler 8 R134a 12V with heating element, with electronic room thermostat, without air distribution panel and without Standard installation kit
9000783B	Compact Cooler 8 R134a 12V with heating element, without air distribution panel, without Standard installation kit
67039B	Compact Cooler 8 12V with electric room thermostat and with and with electrically operated fresh-air flap , without air distribution panel and without standard installation kit
67037B	Compact Cooler 8 12V with electric room thermostat, without air distribution panel and without standard installation kit
66850B	Compact Cooler 8 12V without air distribution panel, without standard installation kit

Air Conditioning Systems

Air conditioning system

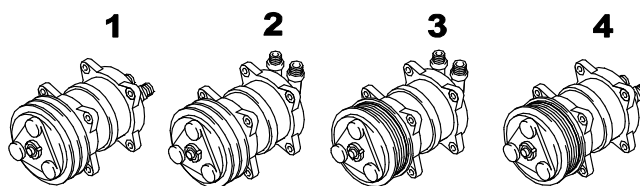
Compact Cooler 8



Part Number	Part Description
Commercial Vehicles	
64031C	Compact Cooler 8 R134a 12V with air distribution panel and standard installation kit
67040B	Compact Cooler 8 24V with electric room thermostat and with and with electrically operated fresh-air flap , without air distribution panel and without standard installation kit
67038B	Compact Cooler 8 24V with electric room thermostat, without air distribution panel and without standard installation kit
66851C	Compact Cooler 8 24V without air distribution panel, without standard installation kit
64030C	Compact Cooler 8 R134a 24V with air distribution panel and standard installation kit
9022638A	SOD Compact Cooler 8 R134a 24v with heating device, electronic thermostate and electrically operated fresh air flap, without air distribution panel and without standard mounting kit

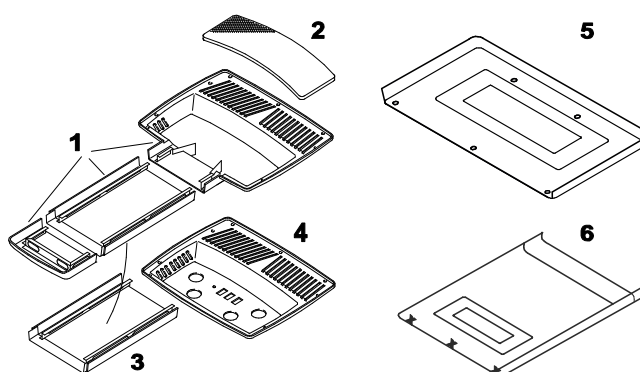
Compressor kits

Pos. nr.	Part Number	Part Description
1	40152B	Seltec compressor TM-13 HD horizontal 12V
1	67045A	Seltec compressor TM-16 HD horizontal 12V
1	67046A	Seltec compressor TM-16 HD horizontal 24V
2	64040A	Seltec compressor TM-16 HD vertical 12V
2	64035A	Seltec compressor TM-16 HD vertical 24V
3	98536A	Seltec compressor TM-16 HD 8PVK vertical 12V
3	98561A	Seltec compressor TM-16 HD 8PVK vertical 24V
4	9000678A	Seltec compressor TM-16 HD 8PVK horizontal 12V
4	9000679A	Compressor Seltec, TM-16HD 8PVK, horizontal, 24V



Air duct system

Pos. nr.	Part Number	Part Description
1	98502D	Kit air duct system CC8 (center and end section 814mm)
2	64053B	Recirculated air filter
3	98868D	Kit extension air duct 569mm max. 4 extension kits possible
4	66280B	Air distribution panel CC8 assy.
5	9001288A	Air duct end section CC8 with illumination preparation
6	9001161A	ADK extension air duct; 569 mm with illumination preparation (max 4 extension kits possible)



Air Conditioning Systems

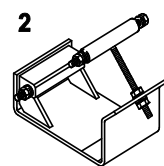
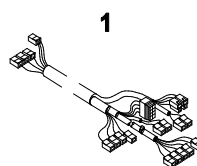
Air conditioning system

Compact Cooler 8



Accessories

Pos. nr.	Part Number	Part Description
1	67043C	Cable set CC8 for external control element 13 m
2	87723C	Universal bracket
	67041E	Standard mounting kit incl. 2x6 m refrigerant hose
	67042E	Standard mounting kit incl. 2x11m refrigerant hose
	98700E	Mounting kit CC8 2x16 m refrigerant
	39879B	Receptacle 9-pole white
	9000988A	Wiring harness CC8 for control element external heating option
	98500A	Template roof cut-out CC8
	9000458A	Relay 12V 70A
	9001669A	Connection kit CC8 heating option



Air Conditioning Systems

Air conditioning system

E-Unit Compact Cooler 5



											
E-Unit Compact Cooler 5	*			*				*	*		*

Technical Data		
Rated Voltage	V	24
Total current consumption	A	max. 53
Dimensions (LxBxH)	mm	380 x 765 x 215
Weight	g	28
Tolerance $\pm 10\%$		

See notes on page 2. Electric compressor unit for combination with Compact Cooler 5, 24V. Combined with standard installation kit including 2x6m refrigerant tube 64497C. Refrigerating capacity in combination with Compact Cooler 5: 3,5 kW.

Part Number	Part Description
Construction Vehicles	
9004866A	E-Unit Compact Cooler 5 incl. electrical motor and compressor

Air Conditioning Systems

Parking Cooler

NiteCool TCC-100



NiteCool TCC-100	*			*				*	*		

Technical Data		
EG-Type approval code	e1*72/245*2006/96*4670*02	
Cooling capacity	kW	0,6 - 1,6
Rated Voltage	V	12 / 24
Rated Power Consumption	Control Range W	15 - 150
Air volume flow	m³/h	850
Dimensions (LxBxH)	mm	728 x 895 x 125
Dimensions water tank	mm	435 x 160 x 550
Weight without water, without tank	kg	19,0
Weight empty / filled tank	kg	2,0 / 27,5
Tolerance ± 10%		

See notes on page 2. The structure of compact roof units can change the mechanical properties of vehicle cabins. Especially with earthmoving machines, DIN ISO 3471 (rollover protection structures) and DIN ISO 3499 (protective structures against falling) are to be observed.

Part Number	Part Description
Construction Vehicles	
9015005C	Nitecool TCC-100 12V
9015035C	NiteCool TCC 100 24V

Sliding Roofs



Experience the World with an Opened Roof!



Hollandia 700



Hollandia 400

- Versatile product portfolio for every desire
- Sliding roof solutions for numerous vehicle models
- Elegant design and comfortable operation
- Tested quality and dependability
- 3-year warranty

Sunroof Systems

Pop-ups

Hollandia 100



Hollandia 100	*	*		*	*			*	*	*	

Technical Data		
		matuell, Latch handle
Dimensions glass surface (W x L)	mm	748 x 378
Dimensions visible glass surface (W x L)	mm	702 x 335
Extension height	mm	85
Weight	kg	6,1
Tolerance ± 10%		

This Pop-Up roof consists of security glass with insulating protection. It can be opened and closed comfortably with a rotary or latch handle. Three possible settings.



Part Number	Part Description
Commercial Vehicles	
33H1L13100	Hollandia 100 Deluxe latch

Accessories

Pos. nr.	Part Number	Part Description
	33SSLR0000	RSR-system

Sunroof Systems

Spoiler Roof

Hollandia 300 Exclusive



Hollandia 300 Exclusive		*									

Technical Data		
		Exclusive
Dimensions visible glass surface (W x L)	mm	680 x 290
Dimensions glass surface (W x L)	mm	820 x 453
Extension height	mm	47
Panel offset	mm	270
Sun protection		Sunshade
Weight	kg	12
Operation		electrical \ soft touch
Tolerance ± 10%		

This Pop-Up roof can be operated elegantly in electrical or soft touch mode. Can optionally be equipped with rain sensor. The Hollandia 30 Exclusive roof is no.1 within the pop-up roof program. It can be installed directly by the vehicle manufacturer, with integrated sunshade.



Part Number	Part Description
Commercial Vehicles	
33H3L01103	Hollandia 300 Exclusive Large electric
33H3L00103	Hollandia 300 Exclusive Large Soft touch

Accessories

Pos. nr.	Part Number	Part Description
	33SSLR0000	RSR-system
	33S3LR0019	Rain Sensor Kit Hollandia 300 Deluxe Large

Sunroof Systems

Spoiler Roof

Hollandia 300 Classic



Hollandia 300 Classic	*	*									

Technical Data			
		Medium	Large
Dimensions glass surface (W x L)	mm	748 x 378	803 x 462
Dimensions visible glass surface (W x L)	mm	612 x 339	667 x 300
Extension height	mm	43	48
Panel offset	mm	195	290
Weight	kg	10	14
Operation		electrical /manual (hand crank)	electrical /manual (hand crank)
Tolerance ± 10%			

This Pop-Up roof consists of security glass with insulating protection. It can be operated manually or electrically.



Part Number	Part Description
Car	
33H3CM12100	Hollandia 300 Classic Medium manual
33H3CL12100	Hollandia 300 Classic Large manual
33H3CM11100	Hollandia 300 Classic Medium electric
33H3CL11100	Hollandia 300 Classic Large electric

Accessories

Pos. nr.	Part Number	Part Description
	33SSLR0000	RSR-system

Sunroof Systems

Spoiler Roof

Hollandia 300 DeLuxe



Hollandia 300 DeLuxe	*	*									

Technical Data			
		Medium	Large
Dimensions glass surface (W x L)	mm	768 X 335	820 x 453
Dimensions visible glass surface (W x L)	mm	625 X 265	693 x 330
Extension height	mm	52	47
Panel offset	mm	250	270
Sun protection		Rollo	Rollo
Weight	kg	10,5	10,4
Operation		electrical \ soft touch (only in combination with Soft-Touch)	electrical \ soft touch (only in combination with Soft-Touch)
Tolerance ± 10%			

The Hollandia 300 DeLuxe is one of the most popular Webasto sunroofs. With integrated sunshade, auto-close function and auto-retract system, illuminated display and two programmable opening positions.



Part Number	Part Description
Car	
33H3M10101	Hollandia 300 Deluxe Medium Soft touch Rollo
33H3M16101	Hollandia 300 Deluxe Medium Soft touch Rollo Rainsensor
33H3L11101	Hollandia 300 Deluxe Large electric Rollo
33H3L10101	Hollandia 300 Deluxe Large Soft touch Rollo
33H3L16101	Hollandia 300 Deluxe Large Soft touch Rollo Rainsensor

Accessories

Pos. nr.	Part Number	Part Description
	33SSLR0000	RSR-system
	33S3MR0021	Rain Sensor Kit Hollandia 300 Deluxe Medium
	33S3LR0019	Rain Sensor Kit Hollandia 300 Deluxe Large

Sunroof Systems

Folding

Hollandia 400



Hollandia 400		*									

Technical Data			
		Classic	DeLuxe
Dimensions open roof (W x L)	mm	640 x 620	640 x 620
Weight	kg	9	9
Operation		electrical	soft touch
Tolerance $\pm 10\%$			

An aero-dynamic wind deflector guarantees optimal air duct. Covering tissue consists of durable, weather proof vinyl which is available in black colour by default.



Part Number	Part Description
Car	
61S4F04400	Hollandia 400 Classic black
61S4F00400	Hollandia 400 Deluxe black

Accessories

Pos. nr.	Part Number	Part Description
	3390915A	RSR set H400

Sunroof Systems

Panorama

Hollandia 500



Hollandia 500		*									

Technical Data			
		Medium	Large
Dimensions glass surface (W x L)	mm	2 x 768 x 335	2 x 820 x 453
Dimensions visible glass surface (W x L)	mm	2 x 625 x 250	2 x 662 x 332
Extension height	mm	2 x 52	2 x 47
Panel offset	mm	250	270
Sun protection		Rollo	Rollo
Weight	kg	22,8	26
Operation		Rain sensor	Rain sensor
Tolerance ± 10%			

This Panorama roof consists of security glass with insulating protection. It can be operated electrically (soft touch) with the option to add a rain sensor. Scope of delivery includes 2 sun rollos.



Part Number	Part Description
Unspecified	
33H5M16100	H500 Single Slide grey M (middle panel to be ordered separately)
33H5M16101	H500 Double Slide grey M (middle panel to be ordered separately)
3391228A	H500 Double Slide grey L (no middle panel available)

Accessories

Pos. nr.	Part Number	Part Description
	33SSLR0000	RSR-system
	33S5MR0008	Rain Sensor Kit 500 Elegance & Sports
	33S5MR0004	Middle Panel set "Elegance 275"
	33S5MR0005	Middle Panel set "Elegance 175"

Sunroof Systems

Inbuilts

Hollandia 700



Hollandia 700		*									

Technical Data		H710	H730	H735	H740	H790
Dimensions glass surface (W x L)	mm	851 x 477	801 x 475	851 x 477	901 x 480	1001 x 485
Dimensions visible glass surface (W x L)	mm	680 x 280	630 x 340	680 x 340	730 x 340	830 x 340
Extension height	mm	50	50	50	50	50
Panel offset	mm	302	352	352	352	352
Sun protection		Sunshade	Sunshade	Sunshade	Sunshade	Sunshade
Weight	kg	14,6	18,2	14,6	19,5	21
Operation		soft touch	soft touch	soft touch	soft touch	soft touch
Tolerance ± 10%						

The Hollandia 700 has been developed specifically for upper and middle class vehicles. This elegant sliding-tilting roof does not distinguish itself from a sunroof built in directly by the vehicle manufacturer. With auto close and auto retract system. Two programming options allow to save setting preferences and recall these by pushing a button.



Part Number	Part Description
Car	
33S7100100	Hollandia 710
33S7300100	Hollandia 730
33S7500100	Hollandia 735
33S7400100	Hollandia 740
33S7900100	Hollandia 790

Accessories

Pos. nr.	Part Number	Part Description
	33RS1000	Rain Sensor Kit Hollandia 700

Sunroof Systems

Inbuilts

Hollandia 900



Hollandia 900		*									

Technical Data				
		H930	H935	H940
Dimensions glass surface (W x L)	mm	778 x 180 / 778 x 343	828 x 181 / 828 x 343	878 x 183 / 878 x 343
Dimensions visible glass surface (W x L)	mm	649 x 405	690 x 405	740 x 405
Extension height front/rear		38 / 33	38 / 33	38 / 33
Panel offset	mm	335	335	335
Sun protection		Sunshade	Sunshade	Sunshade
Weight	kg	18,2	19	19,8
Operation		Rain sensor	Rain sensor	Rain sensor
Tolerance ± 10%				

The Top model among Webasto's retrofitting sunroof systems: Both regarding the newly developed double glass technique for extra silent driving pleasure, design and dimensions. With auto-close and auto retract system. Rain sensor and remote control are available as additional option.



Part Number	Part Description
Unspecified	
3390134A	Hollandia 930 Roof (without control element)
3390135A	Hollandia 935 Roof (without control element)
3390136A	Hollandia 940 Roof (without control element)
3390412A	H900 Soft touch control element
3390413A	H900 Soft touch control element with rainsensor
3390332A	H900 colour package black 5pcs
3390361A	H900 colour package grey 5pcs
3390362A	H900 colour package beige 5pcs

Accessories

Pos. nr.	Part Number	Part Description
	3390908A	Cover switch soft touch beige 5 pcs
	3390907A	Cover switch Soft touch grey 5 pcs
	3390902A	Drain channel Front Hollandia 930 beige
	3390901A	Drain channel front Hollandia 930 grey 5 pcs

Sunroof Systems

Inbuilts

Hollandia 900



Accessories

Pos. nr.	Part Number	Part Description
	3390904A	Drain channel Front Hollandia 935/910 beige 5 pcs
	3390903A	Drain channel Front Hollandia 935/910 grey 5 pcs
	3390906A	Drain channel Front Hollandia 940 beige
	3390905A	Drain channel Front Hollandia 940 grey
	3390920A	Hollandia 900 roofing support set 5 pcs

The 60 Series: an Unrivalled Set of Highly-valued Features!



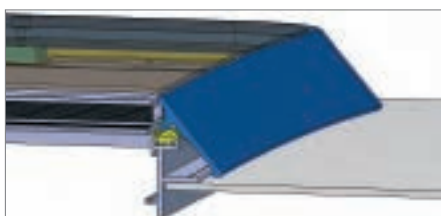
The 60 Series Sliding Roof: The easy, ready-to-be-mounted solution!

- Pre-assembled and fully tested in manufacturing plant
- Delivered ready-to-be-mounted thus providing significant cost savings for your assembly line.

Customise Your 60 Series Platform According to Your Demands!

Four main aspects can be fully personalised

Top mount or flush integration:

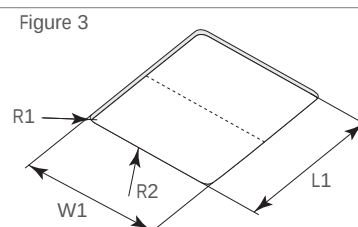
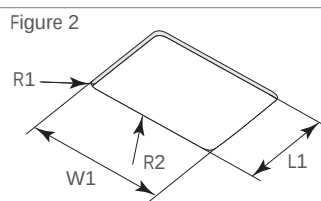
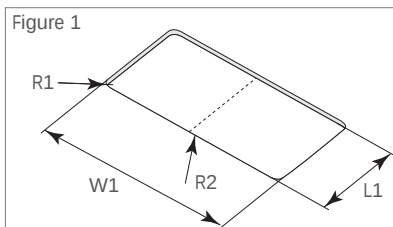


Top Mount



Flush Integration

Size and curvature:



Maximum Cut-Out size dimensions customised roofs		max. length (L1)	max. width (W1)	corner curvature (R1)	min. cross curvature (R2)
Figure 1	Roof without cross beam	1,100	1,100	80	10,000
Figure 2	Roof with cross beam in sliding direction	1,100	1,800	80	10,000
Figure 3	Roof with cross beam perpendicular to sliding direction	1,500	1,100	80	10,000

Design selection:

Panel design

- PMMA/Acrylic
- Glass
- Non transparent
- Teak

Frame design

- Anodised
- Coated
- Coloured in all available

Additional options:



Fixed panel



Sunblind/Flyscreen

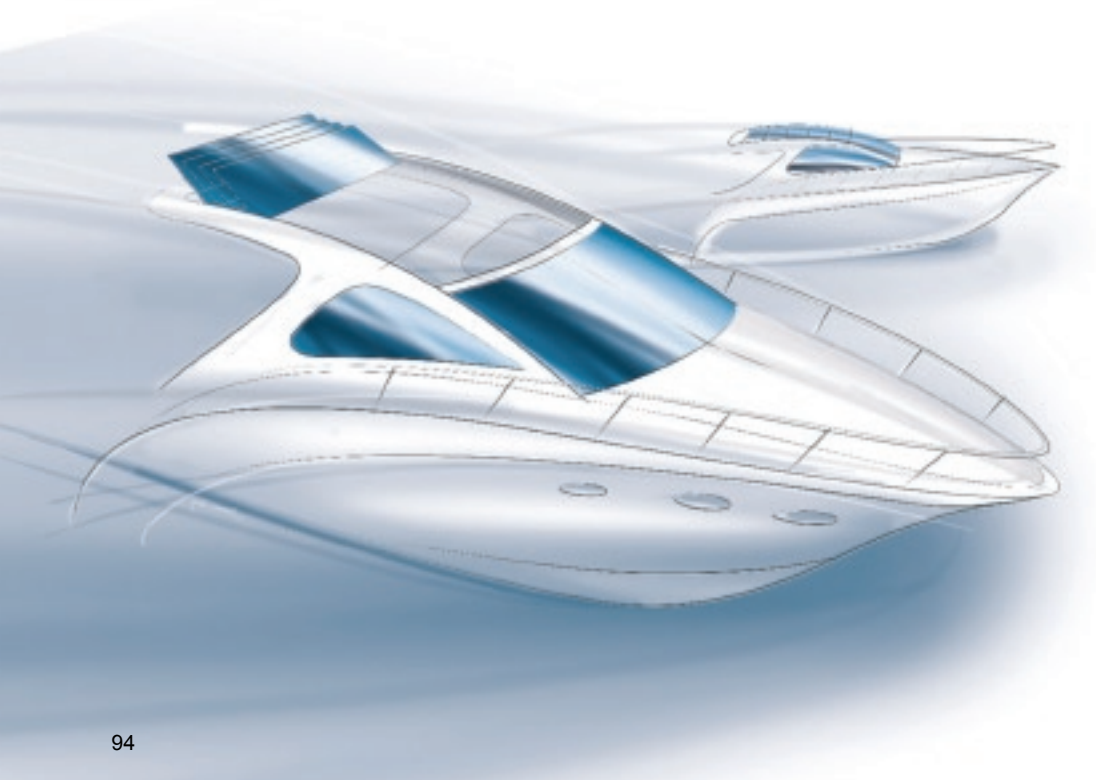
For further information, please refer to our **Webasto Marine Roofs Brochure** or visit our website at www.webasto-marine.com

Marine Engineering Services

We can do a lot more for your roof project!

- As the worldwide leader in automotive sunroof and convertible systems, Webasto can offer you uniquely customised roof solutions for your boat or yacht.
- Large moveable surfaces of all kinds and sizes are our mission.
- 30 years experience in advanced automotive roof systems applied to marine: kinematics, advanced materials, water management and sealing systems.
- We bring your ideas to reality and guarantee high quality and outstanding production know-how.
- Webasto offers manufacturing at full series quality levels: Process orientated assembly operations, from the pilot line, through the design check to series production.
- Staged project approach and joint teams enabling know-how transfer to your engineers.

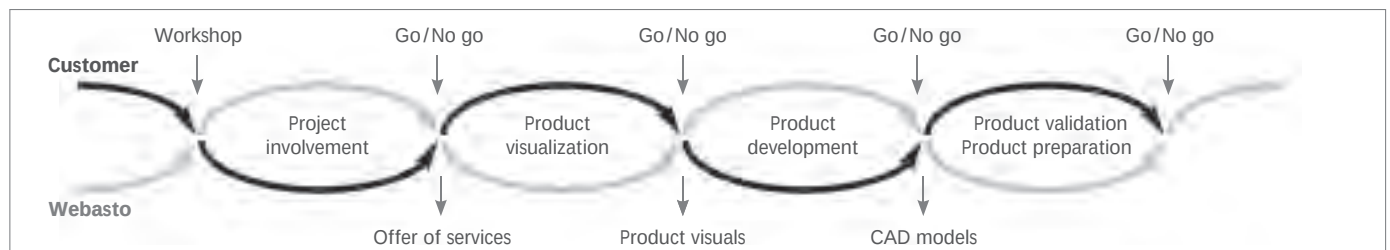
Contact us to get a free evaluation of your project!



Roof Concepts that turn Your Ideas into Reality?

The success of our projects stands on three basic elements:

- 1) Phased project approach allows frequent evaluation and limits the customers' risks
- 2) Joint teams require strong customer involvement (Marketing, R&D, Manufacturing) at every stage
- 3) Highly valuable know-how transfer ensures best outcome of the project investments.



Phase 1: Product visualization

Activity: Translate ideas in visual concepts

- Input (of customer)
- Ideas out of workshop
- CAD data of customer
- Application of product
- Technical requirements
- Technical constraints

Deliverables

- Visuals of product ideas
- Basic product description
- Functionality/Test specs
- Technology/materials
- Indication of piece price and investment
- Detailed offer for phase 2

Phase 2: Product development

Activity: Translate visual into technical concept

- Evaluate various concepts:
- Customised, adaptation of semi-standard products
- Creation of technical solution
- Solutions to constraints

Deliverables

- CAD Presentation of product concept
- Translation of functions into technical solutions
- Translation of constraints into technical solutions
- 3D CAD models
- Updated cost price and investment
- Detailed offer for phase 3

Phase 3: Product validation

Activity: Prepare drawing package for suppliers & assembly

- Product update
- Review 3D model
- Make changes
- Possibility to test prototypes

Deliverables

- Design Failure Mode and Effect Analysis (D-FMEA)
- Updated 3D CAD models
- On request: prototyping & testing
- Detailed offer for production

80/150 Series: Get Closer to the Roof of Your Dreams ...

Customisable, integrated roof design: the 80 Series

With the 80 Series, Webasto offers shipyards a completely dedicated frame design fitting the shipyard's panel design.

The frame construction is supplied as a kit which facilitates the installation on board. This innovative roof development approach requires application engineering and a close cooperation between the shipyard and Webasto.

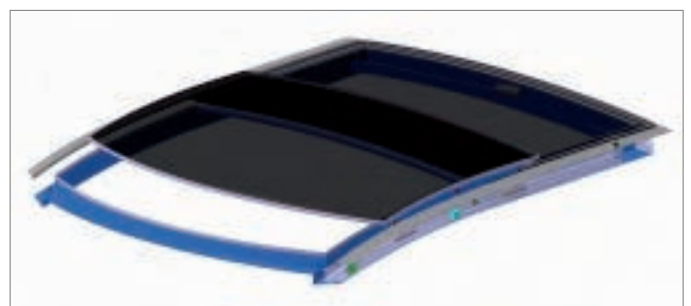
- Frame design is dedicated to the yacht
- Panel design to be defined by shipyard, limited only by the maximum panel weight of 80 kg
- Supplied as a kit, including the frame, mechanism and sealing as well as rear rails. Panel usually supplied by the shipyard.
- Fully water tight sealing system
- Tilting at front side (ventilation) and sliding to the rear
- 12 V DC drive system
- Integrated roof design
- Cross curvature is possible (starboard to port side)
- Several possibilities for panel material



Customised double curvature roof models: the 150 Series

The 150 Series of roof solutions by Webasto is the perfect solution for demanding roof projects. The fully integrated roof consists of a moving panel and optional of a fixed panel. The double curvature allows extraordinary design possibilities. The 150 Series is supplied as a complete system. The frame design is dedicated to each yacht. Application engineering and a close cooperation between the shipyard and Webasto is required.

- Frame design dedicated to each yacht
- Maximum weight of the moving panel is 150 kg
- Supplied as complete functional system
- Full water tight sealing system
- Tilting at rear side (ventilation) and sliding to rear
- 24 V DC drive system
- Double curvature (front to aft, starboard to port side).
- Panel material can be glass or sandwich
- Application engineering required



Webasto Marine Roofs Some References

Arcoa Mystic 60' – Webasto Marine Roof 80 Series



Classic Yachts – Webasto Marine Roof 60 Series



Azimut 40S – Webasto Marine Roof 80 Series



Maritimo Yachts – Webasto Marine Roof 60 Series



General Terms of Sales and Delivery

1. Validity

1) Quotations, deliveries and services shall be based exclusively on the present General Terms of Sale and Delivery. This shall also apply for all future business relations, even if the validity of these Terms is not explicitly renewed. The present Terms shall be accepted by the Customer, at the latest, upon receiving delivery without objection. The Customer's general terms of business shall only apply insofar as they concur with the present General Terms of Sale and Delivery; in all other respects, the Customer's general terms of business shall not apply even if not explicitly rejected by Webasto.

2) Divergences from the present General Terms of Sale and Delivery shall only be effective if confirmed by Webasto in writing.

2. Quotation and contract

1) Quotations, deliveries and services shall be based exclusively on the present General Terms of Sale and Delivery. This shall also apply for all future business relations, even if the validity of these Terms is not explicitly renewed. The present Terms shall be accepted by the Customer, at the latest, upon receiving delivery without objection. The Customer's general terms of business shall only apply insofar as they concur with the present General Terms of Sale and Delivery; in all other respects, the Customer's general terms of business shall not apply even if not explicitly rejected by Webasto.

2) Divergences from the present General Terms of Sale and Delivery shall only be effective if confirmed by Webasto in writing.

3. Prices

1) Unless agreed otherwise, the prices quoted by Webasto shall remain valid for 30 days as from submission of the quotation. Orders shall be based on the prices specified in the current price list.

2) Prices shall apply ex delivery works unless agreed otherwise. The cost of shipment by a carrier of Webasto's choice including packaging shall be borne by the customer. If return of the packaging has been agreed, the Customer shall return the packaging to the delivery works and shall be liable for accidental loss of the packaging until it has been returned.

4. Transfer of risk

The risk shall pass to the Customer, at the latest, when the consignment is handed over to the carrier or other person responsible for transport. The risk shall also pass to the Customer if goods are stored by Webasto on its premises at the Customer's request.

5. Warranty and liability

1) Insofar as delivery is effected within the framework of commercial business, the Customer shall examine the goods delivered by Webasto immediately upon receipt and shall report any defects and incorrect quantities in writing within eight days of receiving the goods. If defects which could not be revealed despite stringent incoming inspection are subsequently discovered during the limitation period, they shall be reported to Webasto in writing without delay following their discovery, but in all cases before expiry of the limitation period.

2) In the case of justified complaints, the actual defects shall be repaired or the defective or unserviceable parts replaced free of charge by faultless parts at Webasto's discretion. The defective goods shall be returned to Webasto free of charge for postage and carriage. If a defect is confirmed, Webasto shall bear the cost of returning goods to the Customer by the cheapest means within Germany. If such subsequent performance (repair or replacement) is impossible or fails twice for reasons beyond the Customer's control, the Customer shall be entitled to demand rescission of the contract or a reduction in price. Repair or replacement shall be effected without acknowledgement of any legal duty and shall not interrupt the lapse of the warranty for defects for the goods.

3) The warranty period for Webasto heaters and rooftop air-conditioners, as well as for Webasto replacement parts for such equipment and systems, shall equal 24 months. The warranty period shall run as from the day on which the equipment is installed or on which the vehicle in which the new equipment is installed is licensed for the first time, and shall in all cases end 36 months after delivery of the equipment, systems or replacement parts.

4) Warranty claims may only be asserted against Webasto if the warranty card has been completed by the workshop installing the equipment and is returned to Webasto together with the parts forming the subject of the complaint. Moreover, the duplicate of this warranty card (control card) must have been sent to Webasto immediately following installation of the equipment. Notwithstanding these warranty provisions and without acknowledging any legal duty,

Webasto may, at its discretion, bear the costs of installation and removal of the equipment within the framework of its workshop reference times. The costs for removal and installation shall only be borne by Webasto if the work is carried out by Webasto or by a customer service centre authorized by Webasto.

5) No liability whatsoever shall be assumed for defects due to natural wear and tear, especially auto-ignition elements, temperature fuses and their fusible inserts, carbon brushes, inappropriate or incorrect use, incorrect storage, non-compliance with the installation and operating instructions, faulty or negligent treatment, the use of unsuitable operating media, as well as climatic or other effects, unless Webasto may be blamed for these circumstances. Liability shall not be assumed for defects attributable to faulty design or the use of unsuitable materials if use of the design or materials has been specified by the Customer despite prior notice by Webasto.

6) All other warranty claims, regardless of their nature, shall be excluded, with the exception of claims for damages limited in accordance with section 6.

7) A guarantee shall only exist if explicitly declared by Webasto in writing.

6. Restriction of liability

6.1 Regardless of the underlying legal foundations, Webasto shall only be liable for losses or damage if

a) Webasto has culpably (i.e. at least through negligence) committed a fundamental breach of contract (violated a cardinal duty) in a manner jeopardizing the object of the contract or
b) the loss or damage has been caused by gross negligence or wilful intent on the part of Webasto or
c) Webasto has given a guarantee.

6.2 Webasto's liability shall be limited to the typical foreseeable loss or damage in the following cases:

a) Culpable fundamental breach of contract (violation of a cardinal duty) due to neither gross negligence nor wilful intent;
b) Violation of other duties due to gross negligence by Webasto's employees or representatives excluding executive bodies and executive employees;
c) If a guarantee is given, unless the condition of the goods has explicitly been guaranteed.

6.3 In the cases pursuant to paragraph 6.2, Webasto shall not be liable for indirect losses or damage, consequential losses and lost profit.

6.4 Webasto's liability under German product liability law for death, physical injury and damage to health, malicious concealment of a defect and guaranteeing the condition of the goods shall remain unaffected.

6.5 Paragraphs 6.1 to 6.4 shall also apply if the goods have only been defined according to their type.

6.6 Paragraphs 6.1 to 6.5 shall also apply if the Customer claims damages against Webasto's employees or representatives.

7. Delivery period

1) Binding delivery dates or periods shall only be valid if agreed in writing. If delivery is delayed for reasons for which the Customer is responsible or for other reasons beyond Webasto's control, the agreed delivery period or delivery date shall be extended or postponed accordingly.

2) Delivery shall have been effected punctually if the goods have left the delivery works prior to expiry of the delivery period.

3) If Webasto defaults on delivery, the Customer shall be entitled to withdraw from the contract and demand repayment of any advances paid, provided that a reasonable period of grace of at least two weeks has been set and expired fruitlessly.

8. Reservation of title

1) The goods delivered by Webasto shall remain the property of Webasto until all Webasto's claims against the Customer have been satisfied.

2) If the delivered goods are mixed or combined with other objects, the Customer shall assign to Webasto its claims for surrender and its right of full or joint ownership of the resultant articles when concluding the contract for delivery and shall hold the resultant articles in safekeeping on Webasto's behalf with due commercial care.

3) The Customer shall not be entitled to pledge the reserved goods to third parties nor to assign them by way of security. However, it shall be entitled to resell the reserved goods within the ordinary course of business, provided that reservation of title is simultaneously agreed. In this context, the Customer shall herewith assign all claims arising from the resale or any other associated legal reason to Webasto in full and by way of security. However, the Customer shall be entitled, until further notice, to collect the assigned claim on its own behalf for the account of Webasto; this power shall only be revoked by Webasto if the Customer defaults on its payment obligations.

4) If the reserved goods are seized by third parties, the Customer shall draw attention to Webasto's ownership of the goods and shall inform Webasto without delay. Costs and losses incurred in this context shall be borne by the Customer.

5) If the Customer acts in breach of contract, in particular if it suspends payments or if bankruptcy proceedings are instituted against its assets, Webasto shall be entitled to take back or identify the reserved goods and to enter the Customer's company premises for this purpose. 6) If the value of the security given for Webasto exceeds Webasto's claims by more than 20 %, Webasto shall release the excess security at its discretion when requested by the Customer.

9. Terms of payment

1) Unless agreed otherwise, Webasto's invoices shall be payable at the latest within 30 days of the invoice date and delivery. The Customer shall be deemed to have defaulted without requiring further reminder if this payment period is exceeded. If the Customer defaults on payments, Webasto shall be entitled to charge interest at a rate eight percentage points above the basic interest rate (Section 247 of the German Civil Code (BGB)). Insofar as cheques or bills are accepted by Webasto, they shall only be accepted in lieu of performance; Webasto reserves the right to return bills if necessary and instead to demand immediate payment or the provision of other security if there is reason to fear that the bills do not provide sufficient security. Discount and bill charges shall be borne by the Customer and shall be payable immediately.

2) If Webasto acquires knowledge of any circumstances indicating that the Customer's financial standing has significantly deteriorated since concluding the contract, in particular if the Customer fails to settle Webasto's due claims and Webasto's entitlement to payment appears to be at risk, Webasto shall be entitled to deliver only in return for full or partial payment or in return for security. If the Customer becomes insolvent or bankrupt or if a request is filed for the institution of bankruptcy proceedings against the Customer's assets, Webasto shall be entitled to withdraw from all outstanding contracts.

10. Concluding provisions

1) If the Customer is a fully qualified merchant, Webasto's head office shall be place of performance and jurisdiction for all obligations under the contract.

2) The law of the Federal Republic of Germany shall apply exclusively; application of the UN Convention on the International Sale of Goods (CISG) shall be excluded.

3) If any of these provisions prove or become invalid, this shall not affect the validity of the remaining provisions.

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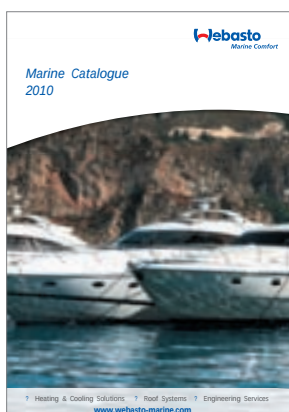


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Webasto Marine Catalogue

- Product information and product choice support tools
- Guidelines for assembling your own applications
- Technical specifications for each single product
- Installation kits for simple installation
- The most extensive accessory for air conditioning and heating systems in the marine sector

MK600476 or through your Webasto dealer. The Marine catalogue contains all Marine specific products and their respective accessories.



Marine Website

- Quick and interesting product presentation
- International, multilingual dealer locator
www.webasto-marine.de

Webasto Dealer Portal

- Direct access to the complete Webasto documentation
- User friendly tools for quick searching and downloading
- Password protected access to technical specifications and applications
<http://dealers.webasto.com>



Marine Navigator:

Useful Information about Webasto

- All available documentation with product information, technical Information and support with sales and marketing
- Useful tools for correct calculations and preparation of price offers
- The essential tool for developing your business



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- BlueComfort Premium: Chiller integrated with Water heating
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Marine Roofs



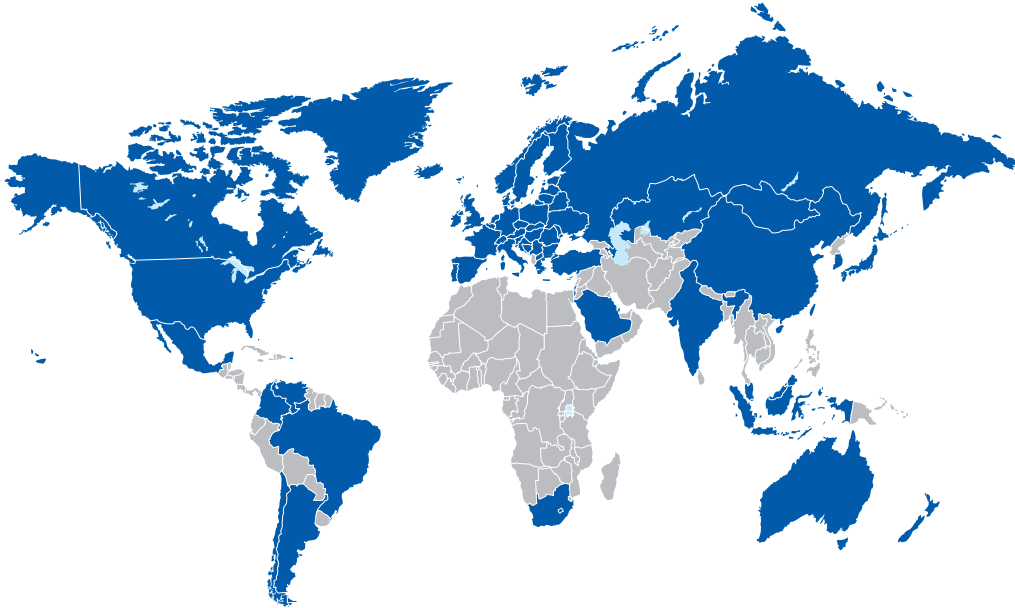
Roof solutions

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Webasto, a feel good climate – worldwide

Whether OEM or aftermarket: our products improve the comfort in vehicles. The name Webasto stands for innovative, economic and environmentally sound heating, cooling and ventilation systems for cars, commercial vehicles, motorhomes and boats. Our success is based on our wide range of products and high quality standard. An outstanding network of dealers guarantees top quality fitting and services around the globe.

We have been setting standards in technology for over one hundred years and are now amongst the 100 biggest suppliers to the automotive industry world-wide. Webasto operates in two business units: Convertible, Roof & Body (CRB) systems as well as Global Comfort Solutions (GCS) for heating, cooling and ventilation systems.



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