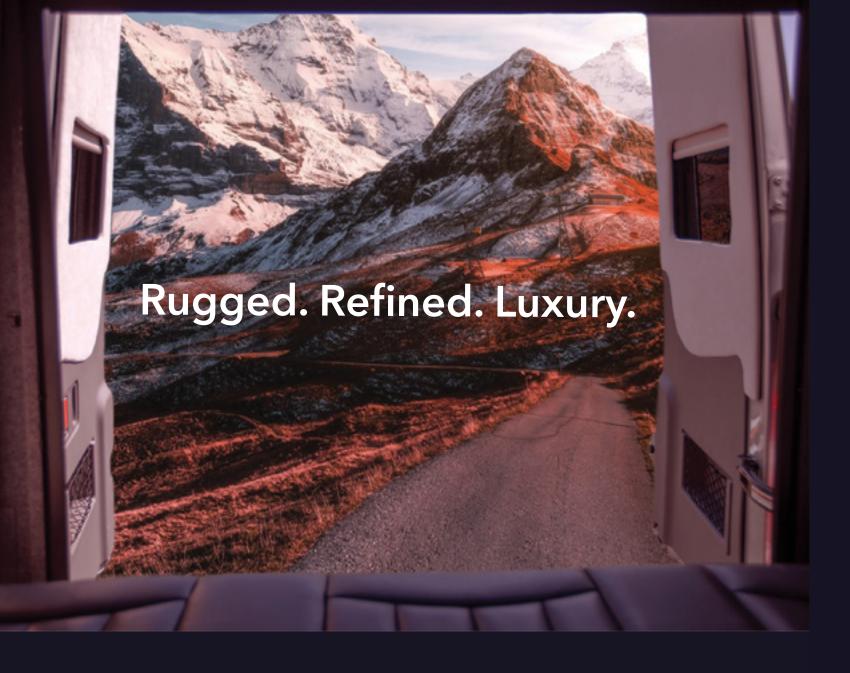


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Timb=rline

PREMIUM HEAT & HOT WATER SYSTEM

Ideal for Class B and C Motorhomes.









et at



ntinuous Clea t Water Effici



Intuitive Touch Screen

TIMBERLINEHEAT.COM ELWELLCORP.COM

BY ELWELL

360-608-0916

Presenting Timberline:

Timberline is an intentionally designed heat and hot water system that brings the luxuries of home to the rugged outdoors. Whether your adventures take you skiing in the mountains of Colorado or beach-combing in Florida, radiant enveloping comfort and hot showers will welcome you back at your motorhome.

SYSTEM OPERATION

Timberline heat and hot water is generated by the Autoterm Binar Compact, a powerful but quiet diesel or gasoline heating unit made for the most adverse conditions. A heated glycol solution is circulated through the interior of the living space through quiet air handlers that provide soft radiant heat. The glycol is also circulated through an instantaneous water heat exchanger which produces hot water for showers and kitchen use.

By using the diesel or gasoline burner coupled with 110V electric element support, Timberline provides efficient comfort whether dry camping or plugged into shore power. When the RV is cold the fans run on high until the interior temperature starts to reach it's target. The fans then automatically slow down and remain on low levels, maintaining the comfort levels inside.

The Timberline touchscreen digital panel located inside the RV gives you full control of your interior temperature. The controls are intuitive and easily allow you to adjust how hard or soft you want the heat to distribute and whether you want to utilize your fuel source or electric only.



DIESEL

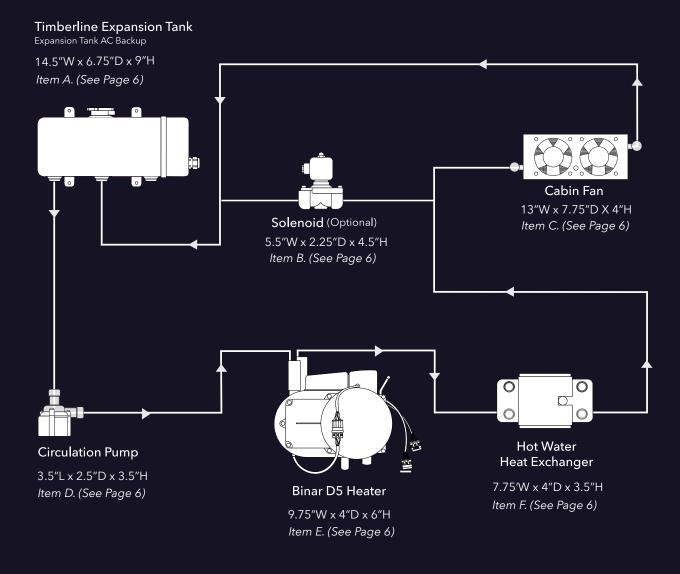
Binar-5D Hydronic Coolant Heater Part# A17000-D1

Binar-5D Specifications			
Technical Parameters	Diesel		
Voltage	12V or 24V		
Heating medium	Coolant, antifreeze coolant		
Heating power	5 kW		
Optimal liquid/ coolant volume	10 - 12 L		
Power consumption	45 - 70 W		
Fuel	Diesel		
Fuel consumption, max	0.60 l/h		
Control Mode	Touchscreen		
Weight	7 lb		
Heater dimensions	9.5 x 4.3 x 7.1 in		

GASOLINE

Binar-5B Hydronic Coolant Heater Part# A17000-G1

Binar-5B Specifications		
Technical Parameters	Gasoline	
Voltage	12V or 24V	
Heating medium	Coolant, antifreeze coolant	
Heating power	5 kW	
Optimal liquid/ coolant volume	10 - 12 L	
Power consumption	45 - 70 W	
Fuel	Gasoline	
Fuel consumption, max	0.70 l/h	
Control Mode	Touchscreen	
Weight	7 lb	
Heater dimensions	9.5 x 4.3 x 7.1 in	



SYSTEM SPECIFICATIONS

Hot Water Performance: Continuous on-demand

Power:

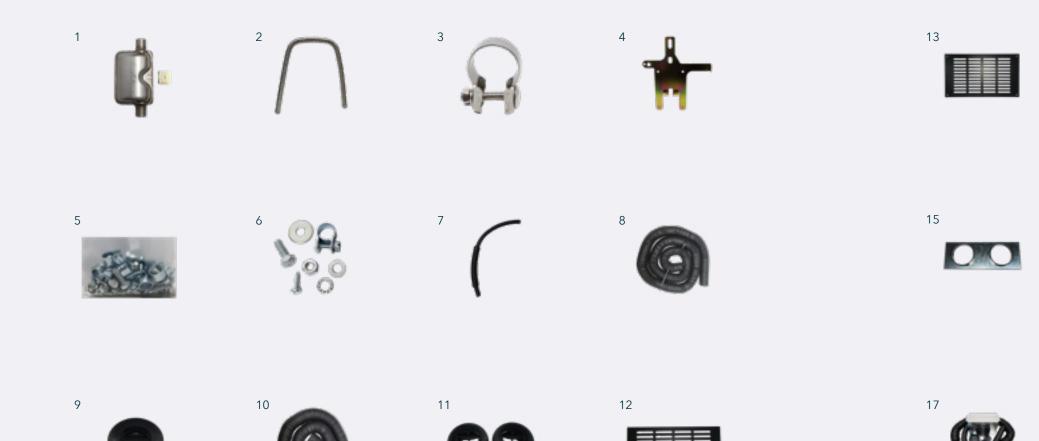
8000-17000 Btu (Diesel) 5000 Btu (Electric) Weight: Less than 30 lbs

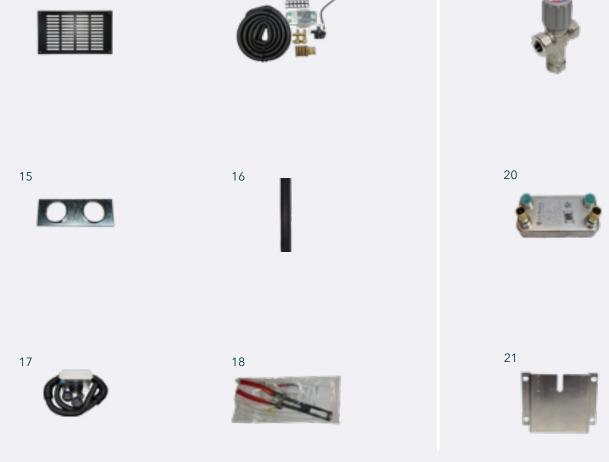
Power Consumption:

12V: 5 amps, 120V: 12.5 amps



TIMBERLINEPARTS & ACCESSORIES





HEATER ACCESSORIES

- 1 Exhaust Muffler 24mm Part#: A30100
- Exhaust Tubing 24mm (With End Cap)Part#: A30101
- 3 Exhaust Clamp 24mm Part#: A30102
- 4 Timberline/Autoterm Binar Bracket Part#: A60110

- 5 Timberline Installation Hardware Part#: A60100
- 6 Timberline Install Screw Pack Part#: A60100
- 7 **Timberline Air Intake** Part#: A30600
- 8 **2 Inch Ducting**Part#: A10300-2005
 Length: 8'

- 9 **2 Inch Vent**Part#: A10300-2001
- 10 3 Inch Ducting
 Part#: A8018
 Length: 8'
- 11 **3 Inch Vents** Part#: A1051
- 12 Black Anodized Plate
 Part#: A-1057
 Size: 10" L x 4"W

13 Black Anodized Plate Part#: A1049

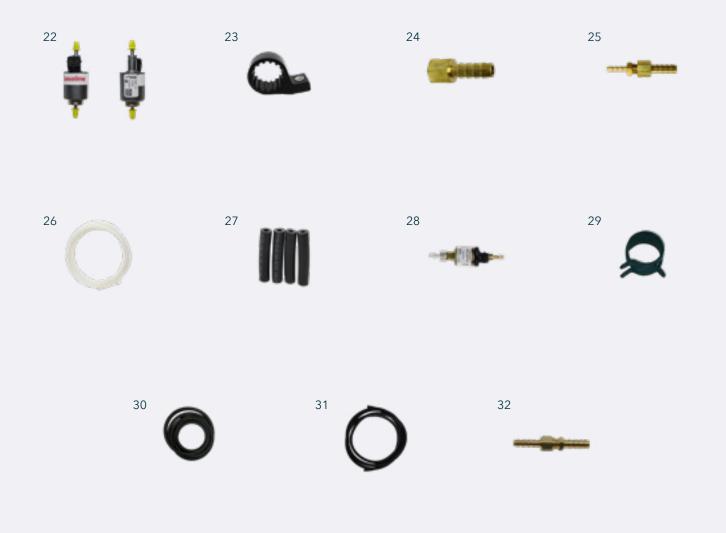
Dimensions: 10" Lx 6"W

- 14 Engine Heat Loop Kit Part#: A11600
- 15 Duct Plate for Toe-kick
 Part#: A10281
 Port Diameter: Ø 3"
- 16 Exhaust Heat Shield Part#: B1000-909 Length: 18"

- 17 Ducting Kit for Toe-kick Part#: A230-JAY00
- 18 Spring Clamp Pliers
 (Straight)
 Part#: go-323
 (Swivel)

Part#: go-322

- HOT WATER
- 19 Timberline Mixing Valve Part#: A10250
- 20 Potable Double Wall Heat Exchanger Part#: A10200
- 21 Potable Double Wall Heat Exchanger Bracket Part#: A10201





FUEL SYSTEM

- 22 Gasoline Fuel Pump (Thomas) Part#: A9000-P327-12
- 23 Fuel Pump Bracket
 Part#: A15101
- 24 **Hose Barb to FPT**Part#: 126HBL-5-2
 3/4" barb x 1/2" FPT
- 25 Fuel Line Adapter
 Part#: EL-00050-06-20
 5/16" barb x 3/16" barb

- 26 Fuel Line Roll Part#: A15200
- 27 Fuel Adapters
 Part#: A15201
- 28 Diesel Fuel Pump Part#: A15100
- 29 **7/16 Fuel Hose Clamp** Part#: Fuel-30075

- 30 **5/16 Fuel Hose**Part#: Fuel-30095
 Length: 10'
- 31 **3/16 Fuel Hose**Part#: Fuel-30085
 Length: 10'
- 32 **1/4 to 5/16 Fuel Adapter**Part#: Fuel-30101

ELECTRICAL

- 33 Timberline Touchscreen Control Panel
 - Part#: A20100
- 34 Touch Screen Extension
 Part#: A2033-10
 Length: 10'
- 35 System Temp Sensor Part#: A20500
- 36 Fan Harness
 Part#: A2031
 Length: 5'

- 37 Fan Harness Extension Part#: A2031-15
 - Length: 15'
- 38 **Timberline Control Box** Part#: A20200
- 39 Room Temp Sensor Part#: A20501 Length: 6' 5"
- 40 Room Temp Sensor Cover Part#: A20505

- 41 Air Sensor Extension
 Part#: A2034-10
- 42 Main Electrical Harness
 Part#: A20300
- 43 Heater Harness Extension
 Part#: A2036-10
 Length: 10'
- 44 Timberline Standard Harness Part#: A2030-W1000

10

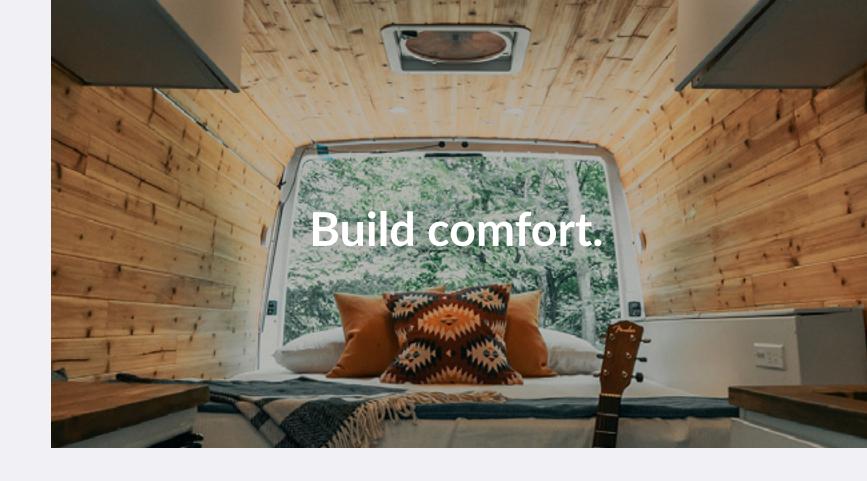


TANK & PLUMBING

- 45 **Timberline 1500W** 110V 2 Gal Tank Part#: A10100
- 46 Tank Element
 Part#: CAMCO02463
- 47 Timberline Coolant Circulation Pump Part#: A10400
- 48 Circulation Pump Bracket Part#: A10401
- 49 Hose Barb to MPT
 Part#: 125HBL-12-8
 3/4" barb x 1/2" MPT
- 50 **Hose Barb to MPT**Part#: 125HBL-3-2
 3/16" barb x 1/8" MPT

- 51 Hex Head Plug Cored
 Part#: 218P-8
 1/2" MPT Plug
- 52 **27mm Constant Tension Clamp**Part#: A30103
- 53 2 Way Electric Valve Open
 - Part#: A10350
- 54 **2 Way Electric Valve**Closed
 Part#: A15200
- 55 **Rubber Hose with U**Part#: A15201

- 56 **3/4 x 3/4 Hose Barb** Elbow Part#: A10501
- 57 3/4 x 5/8 Hose Barb Reducer Part#: A10502
- 58 **Hose Barb Tee**Part#: 1791212C
 3/4" x 3/4" x 3/4" Barb Tee
- 59 **Hose Coupler**Part#: A10600-111
 3/4" x 3/4" Barb Coupler
- 60 Radiator Cap
 Part#: 703-1696











HEATING

61 Timberline Toekick

Part#: A10300-6132 Size: 13"L x 7½"W x 3¾"H Specs: 8000 BTUs

62 Binar Heater (Gasoline)

Part#: A17000-G1 Size: 10"L x 8"W x 5"H

(Diesel)

Part#: A17000-D1 Size: 10"L x 8"W x 5"H 63 Cabin Fan-Kit

Part#: A10300-6002233 Size: 11½"L x 7W x 6¼"H Specs: 9000 BTUs

Includes:

9000 BTU Cabin Fan

Duct Plate

Two 3" Hoses

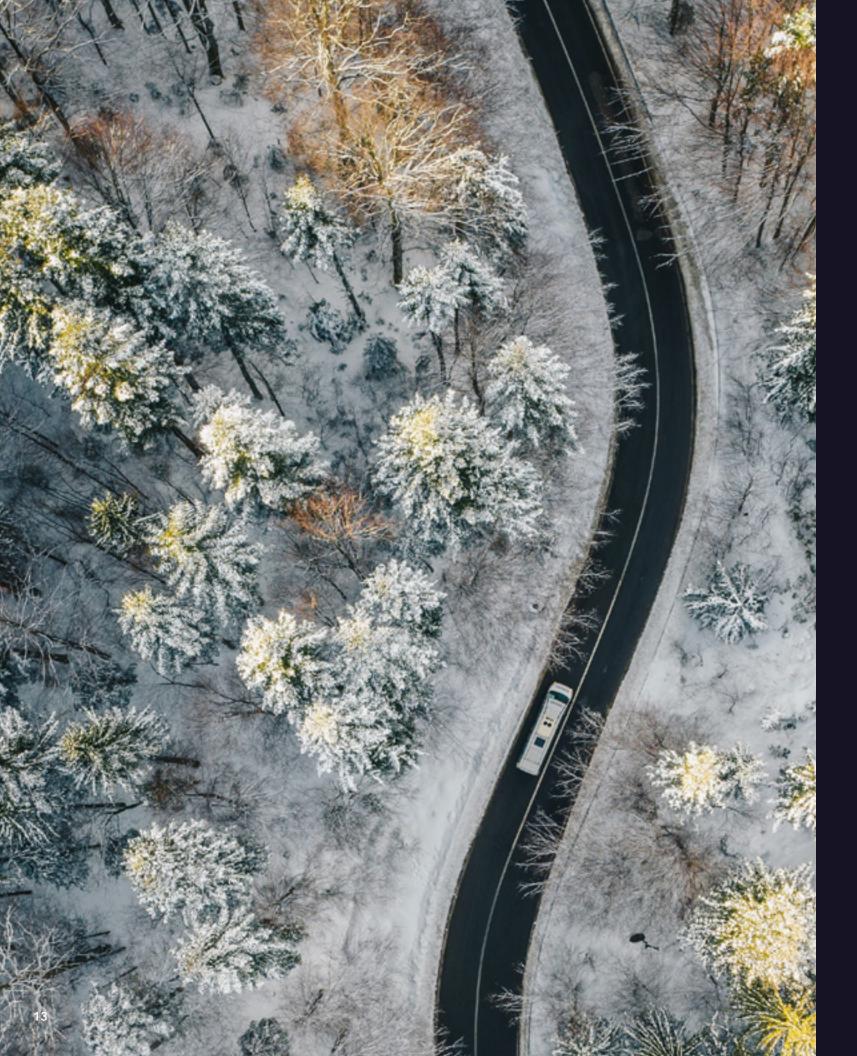
One 2" Hose

Two 3" Outlets
One 2" Outlet

DIAGNOSTICS

64 Fuel Pump Tester and Booster

Part#: 3455





Explore even the harshest climates.

AUTOTERM Air Heaters

Siberian-tested Heating Systems

AUTOTERM heaters are independent gasoline/diesel powered heating systems that can be easily installed or retrofitted into your vehicle.

Liquid heaters are specifically designed to pre-heat your vehicle's engines and compartments, thus eliminating cold start of the engine and supplying comfortable warm air to passenger compartments in cold conditions. They can also be used to heat central heating systems with radiators and boilers.

Air heaters are excellent products for spaces which need to be heated quickly, or where there is no built in central heating system. For example: campers, boats, Etc.

All heaters feature built in fail-safe systems and sensors. The self diagnostic system will automatically shut down the heater if it encounters any errors (such as battery drain, over-heating of the heater, low fuel level, air pump malfunction, or flame failure) making it a completely safe product.

AUTOTERM Air series heaters are also equipped with brush-less induction motors that ensure low noise levels as well as a long lifetime for your device, and the ability to operate in extreme temperatures as low as -45°C/-49°F.



AUTOTERM Air 2D

For Small Spaces

Heater Specifications			
Technical Parameters	High	Low	
Voltage	12V or 24V		
Heating Power	2.0 kW	0.8kW	
Power Consumption	29 W	10 W	
Fuel	Diesel		
Fuel Consumption	0.06 g/h	0.03 g/h	
Control Mode	Manual, Remote, Modem		
Weight	6.3 lb		
Heater Dimensions	12.2 x 4.7 x 5.7 in		

- Extremely compact
- Maximum heating power 6800 BTUs for 12V or 24V model
- Able to heat up to 3000 ft3 in one hour
- Excellent fuel economy at 0.06 gal/hour
- Suited to additionally heat small truck cabins, commercial vehicles, small campers, off-highway vehicles or boats of up to 33 ft.

AUTOTERM Air 4D/4B

For Medium Spaces

Heater Specifications			
Technical Parameters	High	Low	
Voltage	12V or 24V		
Heating Power	4.0 kW	1.0kW	
Power Consumption	57 W / 56 W	10 W	
Fuel	Gasoline/Diesel		
Fuel Consumption	0.13 g/h	0.03g/h	
Control Mode	Manual, Remote, Modem		
Weight	12 lb		
Heater Dimensions	15.8 x 6.2	x 7.4 in	

- Highly versatile installation
- Maximum heating power 13,600 BTUs for 12V or 24V model
- Able to heat and maintain the temperature in a 5900 ft3 space
- Excellent fuel economy at 0.13 gal/hour
- Suited for large truck cabins, commercial vehicles, campers, motorhomes or boats/ yachts of up to 48 ft.

AUTOTERM Air 8D

For Large & Commercial Spaces

Heater Specifications			
Technical Parameters	High	Low	
Voltage	12V or 24V		
Heating Power	6 kW / 7.5 kW	3.2kW	
Power Consumption	75W / 90W	8W/9W	
Fuel	Diesel		
Fuel Consumption	0.2g/h / 0.24g/h	0.11g/h	
Control Mode	Manual, Remote, Modem		
Weight	25.5 lb		
Heater Dimensions	21.6 x 8.2 x 11.6 in		

- The Autoterm 8D is designed for large spaces that do not require ductwork. The heater will bring large open spaces up to temperature quickly and maintain the set temperatures easily.
- Maximum heating power 20,000 BTUs for 12V models; 23,600 BTUs for 24V models.
- Able to heat a 11,800 ft3 space hourly
- For use in large vehicles and commercial spaces, including cargo holds, shipping containers and large, open mobile workspaces.

AUTOTERM Air 9D

For Large & Commercial Spaces

Heater Specifications			
Technical Parameters	High	Low	
Voltage	12V or 24V		
Heating Power	8 kW	3.2kW	
Power Consumption	290 W / 210 W	12 W	
Fuel	Diesel		
Fuel Consumption	0.26 g/h	0.11 g/h	
Control Mode	Manual, Remote, Modem		
Weight	28.2 lb		
Heater Dimensions	25.6 x 8.3 x	11 in	

- Equipped with high-strength steel double circuit heat exchanger for best heat distribution
- Maximum heating power 27,000 BTUs
- Able to heat and maintain the temperature in a 14,500 ft3 space
- For heating large spaces such as commercial vehicle cargo compartments, buses, large motorhomes, specialty vehicles or boats up to 65 feet/20 m.

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AUTOTERM CONTROLLERS







1 Control Panel PU-28

The PU-28 is an integrated easy to use color touch-screen that is compatible with all AUTOTERM air heaters. The software allows for different comfort control methods and has full self diagnostics included. Bluetooth functionality comes standard with the PU-28.

2 Control Panel PU-27

The PU-27 is compatible with AUTOTERM 2D, 4D, 8D, 9D Air Heaters and AUTOTERM Flow 14D Liquid Heaters. This control panel has an OLED screen that does not freeze at low temperatures and has an integrated temperature sensor.

3 Control Panel PU-5

The PU-5 control panel features four simple controls and is compatible with all AUTOTERM air heaters.

AUTOTERM PARTS & ACCESSORIES

18



AIR DUCTING

- 1 Air Ducting Connector
 Part#: P5004
 Diameter: Ø 60mm
- 2 Air Ducting Flange
 Part#: P4931
 Diameter: Ø 60 mm
- 3 Air Ducting Slanted Grill
 Part#: P4943
 - Diameter: Ø 60mm 30°
- 4 Air Ducting Closable Grill
 Part#: 4099
 Diameter: Ø 60 mm

5 Air Ducting Adjustable Grill

Part#: DE033 Diameter: Ø 60 mm

- 6 Air Ducting T
 Part#: P5008
 Diameter: Ø 60 mm
- 7 Air Ducting Street Y
 Part#: P5006
- 8 Air Ducting Y (Control Valve)
 Part#: FR011

Diameter: Ø 60 mm 45°

Part#: FR011 Diameter: Ø 60 mm 9 Air Ducting Y (No Control Valve)

Part#: FR010 Diameter: Ø 60 mm

- 10 Air Ducting
 Part#: DE013
 Diameter: Ø 60 mm
- 11 Air Ducting Connector
 Part#: DE017
 Diameter: Ø 75 mm
- 12 Air Ducting Flange
 Part#: DE005
 Diameter: Ø 75 mm

- 13 Air Ducting Grill
 Part#: 2534
- Diameter: Ø 75 mm
- 14 Air Ducting Slanted Grill
 Part#: P4944
 Diameter: Ø 75/90 mm 30°
- 15 Air Ducting Closable Grill
 Part#: 4108
 Diameter: Ø 75/90 mm
- 16 Air Ducting T
 Part#: 2563-01
 Diameter: Ø 75 mm

- 17 Air Ducting Y
 Part#: 2687
- 18 Air Ducting Y
 Part#: DE025
 Diameter: Ø 75-2*60 mm

Diameter: Ø 75 mm

- 19 Air Ducting Adapter
 Part#: DE031
 Diameter: Ø 75-60 mm
- 20 Air Ducting
 Part#: DE014
 Diameter: Ø 75 mm

- 21 Air Ducting Adapter (Intake Air 4D) Part#: P5313
 - Diameter: Ø 80-90 mm
- 22 Air Ducting Connector
 Part#: P5003
 Diameter: Ø 90 mm
- 23 Air Ducting Flange
 Part#: P4942
 Diameter: Ø 90 mm
- 24 Air Ducting T
 Part#: DE026
 Diameter: Ø 90mm

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AIR DUCTING

- 25 Air Ducting Street Y
 Part#: P5009
 Diameter: Ø 90mm
- 26 Air Ducting Street Y
 Part#: DE055
 Diameter: Ø 90-60-90 mm
- 27 Air Ducting Y Adapter
 Part#: DE041
 Diameter: Ø 90-2x60 mm
- 28 Air Ducting Y Adapter
 Part#: DE029
 Diameter: Ø 90-2*75mm 120°

- 29 Air Ducting Adapter
 Part#: DE030
 Diameter: Ø 90-75 mm
- 30 Air Ducting Adapter (4D)
 Part#: 2509
 Diameter: Ø96-Ø75 mm
- 31 Air Ducting Adapter
 Part#: 2509
 Diameter: Ø 96-90 mm
- 32 Air Ducting

 Part#: DE015

 Diameter: Ø 90 mm

- 33 Air Ducting Connector
 Part#: DE036
 Diameter: Ø 100 mm
- 34 Air Ducting Adapter
 Part#: DE034
 Diameter: Ø 100-90 mm
- 35 Air Ducting

 Part#: DE035

 Diameter: Ø 100 mm
- 36 Air Flow Regulator with Cable
 Part#: FR054
 Length: 59"

FUEL

- 37 **7 Liter Fuel Tank**Part#: 290
 Capacity: 7 litres
- 38 **13 Liter Fuel Tank**Part#: 1064
 Capacity: 13 litres
- 39 Fuel T Connector (Air 2D, 4D, Binar 5)

Part#: P143 Size: 8mm*5.3mm*8mm

40 Fuel Filter
Part#: 3763

41 Marine Fuel Kit

Part#: AT0041 AUTOTERM Marine fuel kits designed to be used only with AUTOTERM Air and Flow heaters.

42 Fuel Tank Cap

Part#: 1687 Replacement cap for AUTOTERM 7L and 13L fuel tanks.

EXHAUST & INTAKE

43 Heat Cover for Exhaust Pipe

Part#: A15101 Diameter: Ø 24 mm

44 Exhaust Elbow

Part#: P5198 Diameter: Ø 24 mm

45 Exhaust Thruhull

Part#: 2385

Diameter: Ø 24 mm





EXHAUST & INTAKE

46 Exhaust Thruhull Stainless Steel

> Part#: AT0003 Diameter: Ø 24 mm

47 Exhaust Thruhull Extended

Part#: AT0013 Diameter: Ø 24 mm

48 Exhaust Thruhull Angled

Part#: AT0008 Diameter: Ø 24 mm

49 Exhaust Insulation 36"

Part#: DE053 Diameter: Ø 24 mm 50 Air Intake Hose Extension

Part#: 1498 Length: 30"

51 Exhaust Drain

Part#: 3182 Diameter: Ø 24 mm

52 Intake Thruhull Stainless

Part#: 2405

Diameter: Ø 24 mm

53 Exhaust Silencer Stainless Steel

> Part#: DE043 Diameter: Ø 24 mm

54 Exhaust Thruhull

Part#: AT0012 Diameter: Ø 38 mm

55 Exhaust Silencer Stainless Steel

> Part#: DE044 Diameter: Ø 38 mm

56 Exhaust Silencer Kit

Part#: 3064

Diameter: Ø 24 mm









ELECTRICAL

57 Control Panel Harness Extension

> Part#: P5198 Length: 100"

58 External Temp Sensor

> Part#: 1458 Length: 196"

MOUNTING

59 Stainless Steel
Mounting Bracket
(2D, 4D)
Part#: AT0025

DIAGNOSTICS

60 Fuel Pump Tester and Booster Part#: 3455



Timberline – An Elwell Corpororation and Advers/Autoterm partnership

WHO IS ELWELL?

The Elwell family has worked in the RV and Marine industries since the 1990s, providing products, technical support, and mobile market applications to heating and burner companies worldwide. The principles at Elwell all started in the service sector of the industry– forming service networks and managing service and installation centers nationally. This background puts the company in a unique position to represent and develop technical integrated products. With that knowledge, Elwell Corp. branched out into sales, development, and customer representation where they have been able to be a great asset to their partners.

A number of years ago, Elwell identified the need for a robust and dependable heating and hot water system for these demanding markets. After testing and working with some of the more common, available burners, Elwell was not satisfied. That is when they came across a lesser known Russian company, Advers/Autoterm.

Although Autoterm and its parent manufacturer, Advers, was a well-known and successful company in Europe and other parts of the world, their name recognition and products were almost non-existent in North America. The Elwell brothers flew overseas and sat down with this company's founders, the Kordit family. That first meeting was the beginning of a close partnership that has since formed. A vision was born and a collaborative effort made to bring Advers/Autoterm products—the most efficient and effective heating and hot water systems in the world—to North America.

WHO IS ADVERS/AUTOTERM?

Advers/Autoterm is a very successful and high-quality manufacturer of both air and fluid heater some of the top air/fluid heater manufacturers in the world. Advers employs over 1000 people and has over 700 partners in over 40 countries. Advers factories are ISO certified and use the finest equipment. They are top-down integrated, which means they produce many parts internally rather than relying on sub-suppliers. Autoterm was one of the first companies to bring longer-lasting air heaters to the market when they introduced and featured their brushless motors.

ELWELL AND ADVERS/AUTOTERM IN PARTNERSHIP

Together, Advers and Elwell produced the Timberline system; they employed the core competence of Advers in burning fuel and applied the system design and market organization of Elwell. Timberline system parts are produced in both Russia and North America. In 2020 the partnership between the Elwell and Kordit families has grown beyond just the development of the Timberline system. It now includes Autoterm North America, a joint venture with the goal of bringing all Advers/Autoterm products to North America and spanning multiple markets.

THE TIMBERLINE SYSTEM

The Timberline system is feature-rich and provides a level of comfort and reliability that has been unavailable in the past. The versatility of the Timberline system design also allows builders to optimize space, while at the same time providing comfort without compromise.

Uniting Autoterm Binar 5, as the backbone of the system, and Elwell's Timberline design package, consumers can enjoy soft, quiet heat, as well as plenty of water, for all their adventures. The Binar 5 was specifically chosen by the founder of Advers because of its reliability in high altitude and Advers environments. Currently, customers are using the Timberline system all over the country, most often off-grid and in the harshest of weather.





What Autoterm North America offers:

Autoterm North America is the North American sales, service, and distribution branch of the Autoterm heating and hot water systems produced by Advers. Autoterm air and fluid heaters are built to be reliable and long-lasting, yet offered at affordable prices. The heaters are tested in the coldest environments with temperatures as low as -50F to withstand Siberia's extremely harsh winters.

Autoterm North America provides heating solutions for many different industries including: heavy truck, bus, recreational vehicle, marine, construction and agricultural markets.

To learn more about Autoterm North America and their products, visit: **Autoterm-usa.com**

Notes			





Gowhere you've never gone before.

To explore all that Tiimberline has to offer visit: **Timberlineheat.com** or **Elwellcorp.com**

360-608-0916 | info@elwellcorp.com 680-C South 28th St. Washougal, WA 98671

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