

# Outboard motors TREND 1.1 - 1.6

3.5 HP EQUIVALENT 5 HP

## Benefits

- » Most powerful electric outboard motors with an integrated Lithium battery on the market
- » Biggest battery capacity in standard equipment
- » Without any cables - the models Trend 1.1 & 1.6 can be handled without any visible cables
- » Lithium cell from international well-known suppliers
- » Superior robustness through the light aluminum housing
- » Fast stowed and carried away
- » Tiller can be fixed in height
- » Obtainable with tiller and remote control
- » Brushless motor technology
- » Trimmable and swing up by hand



## Aquapedia

### You ask – We answer

#### WHICH MOTOR FOR WHICH BOAT?

Both motors are applicable for infant boats, small dinghies and other small boats. Having satisfactory reserves for wind and wave we recommend depending on the hull type the model Trend 1.1 up to 1.5tons, and Trend 1.6 up to 1.8tons.

#### WHAT IS THE CRUISING RADIUS WITH ONE 640 WH BATTERY?

	Trend 1.1 with 1.100 Watt	Trend 1.6 with 1.600 Watt
Slow	06 h 30 min	04 h 30 min
Half power	02 h 30 min	01 h 45 min
Full power	00 h 40 min	00 h 29 min

The cruising radius can be doubled with a 1.280 Wh battery.

#### HOW CAN THE CRUISING RADIUS BE INCREASED?

The cruising radius can be prolonged through to using an extra battery 640 Wh or 1.280 Wh which is easy to change. The second battery can be bought budget-friendly at an Aquamot dealer.

#### HOW SAFE IS THE AQUAMOT TREND?

Of course very safe. On the one hand the kill switch protects against an unwanted operation on the other hand the battery management system (BMS) protects with numerous safety functions against for example over- and under-voltage, short circuits, over- and under-temperature, etc. 8 years after date of manufacturing the battery has to verify by an Aquamot Service Center to insure the max. safety.

#### WHAT IS INCLUDED AT THE STANDARD SCOPE OF DELIVERY?

Basically you are ready to start with a motor package of a Trend 1.1 & 1.6. Starting from the high efficient motor incl. propeller with display and kill switch through to Lithium battery, charger and anode is everything included.

#### WHAT IS THE WARRANTY?

The warranty period is 2 years from the date of purchase for non-commercial use.

#### COMFORTABLE ON-BOARD COMPUTER

The integrated display shows the status of the battery. It is also possible to see this information through the backlight during night and dawn.

#### HIGH PERFORMANCE LITHIUM BATTERY INCL. BMS WITH REDUNDANT PROTECTIVE FUNCTIONS

The 640 Wh light weight lithium battery offers a superior safety system in addition to a considerable performance.

High safety cells made from well-known manufactures incl. the high-intelligent BMS ensure highest possible safety. Certainly this battery is a safety partner.

#### PROFILES SHAFT DESIGN

The steering of the motor has been improved through the design of the shaft. There are 3 different shaft lengths available: S, L and XL

#### HIGH EFFICIENT & CALM PROPULSION CHAIN

QUIET & POWERFUL – these specifications have to have a first-class electric outboard motor. This can be only realized through a direct drive with a gearbox and a superior propeller design.

#### VERTICALLY ADJUSTABLE TILLER

The tiller is adjustable in height. Therefore the Aquamot Trend is comfortable to use for fisherman and sailor.

A tiller extension is also available. Alternative the Trend can be delivered for remote control.

#### SOPHISTICATED SUSPENSION

It goes without saying that an outboard motor is able to trim in 3 positions and swing up by hand. But this motor swings up automatically when it touches on the ground. This is brand new.

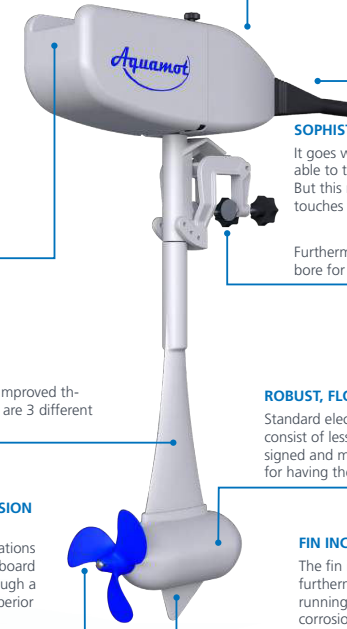
Furthermore the suspension has an additional bore for bolting it against theft.

#### ROBUST, FLOW-OPTIMIZED ALUMINUM HOUSING

Standard electric outboard motors with this power consist of less robust plastic. All Trend motors are designed and manufactured of a high-tensile aluminum for having the highest robustness.

#### FIN INCL. INTEGRATED ANODE

The fin improves the steering of the boat and furthermore it protects the motor against running aground. The anode protects against corrosion also in sea-water.



## Model and accessories overview

Model	Power	Control	Comp. thrust comb. engine	Thrust	Integrated battery	Battery	Weight	Shaft length	Warranty
Trend 1.15-P	1.100 W	Tiller	3,5 hp	72 lbs	Yes - removable	640 Wh – Li-Ion	14,2 kg	62 cm	2 Years
Trend 1.11-P	1.100 W	Tiller	3,5 hp	72 lbs	Yes - removable	640 Wh – Li-Ion	14,6 kg	71 cm	2 Years
Trend 1.65-P	1.600 W	Tiller	5,0 hp	89 lbs	Yes - removable	640 Wh – Li-Ion	15,3 kg	62 cm	2 Years
Trend 1.6L-P	1.600 W	Tiller	5,0 hp	89 lbs	Yes - removable	640 Wh – Li-Ion	15,9 kg	71 cm	2 Years
Trend 1.15-F	1.100 W	Remote	3,5 hp	72 lbs	Yes - removable	640 Wh – Li-Ion	14,6 kg	62 cm	2 Years
Trend 1.11-F	1.100 W	Remote	3,5 hp	72 lbs	Yes - removable	640 Wh – Li-Ion	14,2 kg	71 cm	2 Years
Trend 1.65-F	1.600 W	Remote	5,0 hp	89 lbs	Yes - removable	640 Wh – Li-Ion	15,3 kg	62 cm	2 Years
Trend 1.6L-F	1.600 W	Remote	5,0 hp	89 lbs	Yes - removable	640 Wh – Li-Ion	15,9 kg	71 cm	2 Years
Surcharge for 1.280 Wh battery	-	-	-	-	-	1.280 Wh – Li-Ion	5,1 kg	-	2 Years
Spare battery Trend 1.1-1.6	-	-	-	-	-	640 Wh – Li-Ion	4,7 kg	-	2 Years
Spare battery Trend 1.1-1.6	-	-	-	-	-	1.280 Wh – Li-Ion	9,8 kg	-	2 Years
Surcharge XL-shaft	-	-	-	-	-	-	40,3 kg	80 cm	2 Years
Spare Propeller									For Trend 1.1 and 1.6
Long-throttle arm									Long-throttle arm - 65cm
Charger									For Trend 1.1 and 1.6



# Outboard motors TREND 2.2 - 4.3

6,5 HP EQUIVALENT 11 HP

## Benefits

- » Superior thrust – none other comparable motor has a bigger thrust than these electric outboard motors
- » Unrivaled smooth operation through direct drive – no annoying high-frequent whir
- » High comfort – smart display and height-adjustable tiller
- » Unrivaled durability through high-performance aluminum
- » Obtainable with tiller and remote control
- » Brushless motor technology
- » Trimmable and swing up by hand



## Aquapedia

### You ask – We answer

#### WHICH TREND FOR WHICH BOAT?

Both motor types are useable for Dinghis and smaller boats. Having satisfactory reserves for wind and wave we recommend depending on the hull type the model Trend 2.2 from 2.0tons up to 2.5tons, and Trend 4.3 up to 4.0tons.

#### WHAT IS THE CRUISING RADIUS?

The cruising radius depends from the quality and capacity of the batteries. Below you will find examples with the Aquamot Longlife Deep-Cycle Silicone batteries:

	Trend 2.2 with 2 pcs. Aquamot ALS batteries 12 V / 260 Ah	Trend 4.3 with 4 pcs. Aquamot ALS batteries 12 V / 260 Ah
Slow	10 h 00 min	10 h 00 min
Half power	05 h 30 min	05 h 30 min
Full power	02 h 15 min	02 h 15 min

#### IS IT POSSIBLE TO RAISE OR REDUCE THE BATTERY CAPACITY?

Of course, there are several possibilities to raise or reduce the cruising radius. Generally only traction batteries should be used because they are designed for a higher current during a long time period (ATTENTION: no starter or semi-traction batteries). Furthermore a min. capacity of 110Ah is recommended. All batteries should have the same capacity for having the max. lifetime. Therefore please always ask an Aquamot dealer or Aquamot regarding the dimensioning of the battery capacity.

#### WHAT IS INCLUDED AT THE STANDARD SCOPE OF DELIVERY?

Generally it is everything included except batteries and chargers. Therefore it is also the lever and display included at the remote models. At the tiller models it is included in the motor. The cable lengths are standardized: 3m for power cable and 30cm battery connection, 6m to the display. An extension is supplied by Aquamot.

#### WHAT IS THE WARRANTY?

The warranty period is 2 years from the date of purchase for non-commercial use.

#### COMFORTABLE ON-BOARD COMPUTER

The integrated display shows the status of the battery. It is also possible to see this information through the backlight during night and dawn.

#### SHORT OR LONG SHAFT

The motor can be delivered in 2 different lengths: S & L. Furthermore the steering of the motor has been improved through the design of the shaft.

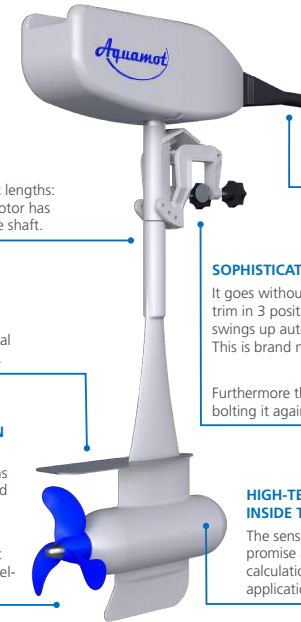
#### OPTIMIZED ANTI-CAVITATIONS-PLATE

The anti-cavitations plate which is optional available enables a low immersion depth.

#### HIGH EFFICIENT & CALM PROPULSION CHAIN

QUIET & POWERFUL – these specifications have to have a first-class electric outboard motor.

This can be only realized through a direct drive with a gearbox and a superior propeller design.



#### VERTICALLY ADJUSTABLE TILLER

The tiller is adjustable in height. Therefore the Aquamot Trend is comfortable to use for fisherman and sailor.

A tiller extension is also available. Alternative the Trend can be delivered for remote control.

#### SOPHISTICATED SUSPENSION

It goes without saying that an outboard motor is able to trim in 3 positions and swing up by hand. But this motor swings up automatically when it touches on the ground. This is brand new.

Furthermore the suspension has an additional bore for bolting it against theft.

#### HIGH-TECH MOTOR WITHOUT ELECTRONICS INSIDE THE HOUSING

The sensorless asynchronous AC motors (=brushless) promise a superlative performance. Through exact calculations the motor has been well adapted for the application of an electric motor for a boat.

## Model and accessories overview

Model	Power	Voltage	Control	Comp. thrust comb. engine	Thrust	Weight	Shaft length	Warranty
Trend 2.2L-P	2.200 W	24 V	Tiller	6,5 hp	124 lbs	23,4 kg	70 cm	2 Years
Trend 4.3L-P	4.300 W	48 V	Tiller	11 hp	197 lbs	24,8 kg	70 cm	2 Years
Trend 2.2L-F	2.200 W	24 V	Remote	6,5 hp	124 lbs	23,4 kg	70 cm	2 Years
Trend 4.3L-F	4.300 W	48 V	Remote	11 hp	197 lbs	24,8 kg	70 cm	2 Years
Trend 11.0L-F	11.000 W	48 V	Remote	28 hp	n/a	52,2 kg	75 cm	2 Years
Trend 15.0L-F	15.000 W	48 V	Remote	35 hp	n/a	53,3 kg	75 cm	2 Years
Trend 20.0L-F	20.000 W	96 V	Remote	40 hp	n/a	55,4 kg	75 cm	2 Years
Trend 25.0L-F	25.000 W	96 V	Remote	45 hp	n/a	58,2 kg	75 cm	2 Years
Cable extension motor cable - 2 m				with high voltage plug				
Cable extension leaver - 2 m				with plug				
Anti-cavitations-plate				Consist of stainless steel				
Spare Propeller				For Trend 2.2 and 4.3				
Long-throttle arm				Long-throttle arm - 65cm				

# Outboard motors

## Benefits

- » Unique efficiency
- » Max. smooth running
- » Flow-optimized drive enclosure with a minimum drag and optimal flow conditions at the motor housing and propeller
- » Clean solution
- » Permanent useable for salt- and sweet water through the use of an seawater-resistant aluminium alloy



## Model overview

Model	A10e	A20e	A30e	A41e	A80e	A100e	A110e	A150e	A200e	A250e
Output power	1.000 W	2.000 W	3.000 W	4.100 W	8.000 W	10.000 W	11.000 W	15.000 W	20.000 W	25.000 W
Input power	1.090 W	2.180 W	3.260 W	4.450 W	8.690 W	10.870 W	11.950 W	16.300 W	21.690 W	27.080 W
Efficiency	92 %	92 %	92 %	92 %	92 %	92 %	92 %	92 %	92 %	92 %
Voltage	24 V	24 V	36 V	48 V	48 V	72 V	48 V	48 V	96 V	96 V
Current	45 A	87 A	89 A	93 A	178 A	151 A	249 A	339 A	225 A	281 A
Weight	19 kg	27 kg	28 kg	29 kg	42 kg	44 kg	55 kg	56 kg	58 kg	59 kg
Motor type	sensorless AC-motor									
Suspension	with star nubs and optional fixed screwed									
Trim mechanism	4-steps adjustable by hand									
Warranty	2 years									

## Serial components



### CONNECTION FOR MONO-CABLE-STEERING SYSTEM

The connection is made for a rope steering as standard.

Additional the installation kit for the mono-cable-steering system which is also useable for a hydraulic steering can be added.

As a consequence the motor is useable for every steering system.

### SUSPENSION WITH TILTING AND STOW MECHANISM

The robust suspension is made from seawater resistant aluminum. So you can put the motor four-step in the correct position for optimal propulsion.

Optional you can tilt the motor permanent with a tilting lever.

### SOLID, FLOW-OPTIMIZED HOUSING

The housing is cast of a seawater resistant aluminum alloy. The result is a remarkable robustness.

In addition the motor is painted with a 6- layers coating which projects against fouling and corrossions.

### FLOW-OPTIMIZED FIN

The boat can be also steered very well through this fin during the propeller doesn't operate. Therefore it isn't necessary to use additional rudder blades.

Furthermore the fin has a predetermined breaking point for break down when the motor touch on the ground.

### HIGH-ADJUSTABLE SHAFT

The shaft of Aquamot outboard motors isn't profiled purposely. The reason is the streaming speed at the eddy is roughly zero.

It is more important in our opinion for having the right immersion depth.

This can be achieved easily with the high-adjustable shaft.

### OPTIMIZED ANTI-CAVITATIONS PLATE

The anti-cavitations plate prevent the air-drawing of the propeller and therefore it is needed a minimum immersion depth.

### INTEGRATED ANODE PREVENTS CORROSION

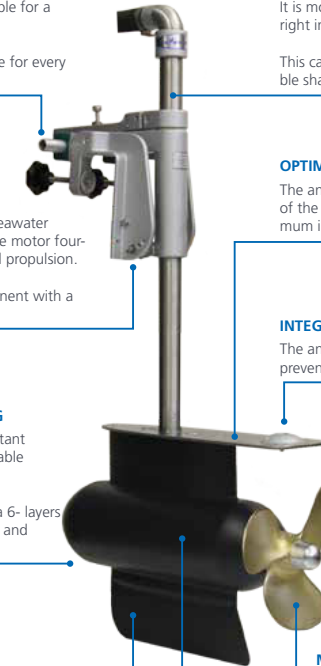
The anode is integrated in the motor system and prevents the corrosion at the housing.

### MULTI-DIMENSIONAL OPTIMIZED PROPELLER AT A SOLID MOTOR SHAFT

This solid brazen propeller is used in professional shipping and gives you max. thrust.

### HIGHLY-EFFICIENT MOTOR

The main part of the electric propulsion is inside the housing. The motor with a low rpm turns the propeller through a solid shaft of stainless steel directly without a gearbox.



## Optional

