



**Operation Manual
for the cooling unit
SK 6**

With the purchase of an AB Aqua Medic cooling unit you have selected a top quality product. It has been specifically designed for the cooling of closed water cycles like fresh and sea water aquaria.

The SK series coolers are supplied with a plastic covered heat exchanger.

These heat exchangers are corrosion resistant and free of contaminations. Because the cooled medium is only in direct contact with plastic, the cooling units can be used in fresh and sea water as well as in various chemicals.

The coolers have a one-phase cooling system containing the cooling medium R 134 a (FCKW-free). They work with capillary injection as control system.

1. Product description

The AB Aqua Medic **SK series** cooling units are supplied with

- a temperature computer with digital display,
- connections for water in- and outlet,
- a solid cover made of plastic.

2. Set-up and installation

1. The cooling unit must be set up at a well-aerated place. The complete heat taken out of the water by the unit and the waste heat of the unit itself are emitted at the unit to the surrounding air. A build-up of heat directly at the cooling unit leads to a heavily reduced cooling power output. Therefore, a sufficient ventilation is essential.

The environmental temperature should not exceed 35° C.

2. The cooling unit has to be connected at the connecting pieces to a closed water cycle. This is done either through a fixed connection of plastic tubes or through hoses (connection pieces are available as optional extras). It is recommended to place the unit below the water surface.

3. Switch the water flow on. It is important that the water flows continuously through the cooler. Because the thermo sensor is not placed within the unit, the heat exchanger cannot freeze in case of a failure of water supply.

Type	Water flow rate (l/h)	
	min	max
SK 6	2.000 l/h	7000 l/h

4. Before starting, the cooler must be stand up straight for at least 1 hour.

Connect it to 380V, 3 phase power source and switch the unit on (main switch at the front..

Now, the actual water temperature is shown on the display.

Because the thermo sensor is placed in the water inlet, always a temperature which corresponds to the temperature in the tank is shown.

3. Temperature control

The SK –cooling units are supplied with a digital, microprocessorcontrolled temperature controller.

programming: The display shows the actual temperature of the water. To program the set point press the „SET“- button until the adjusted set value is displayed. At the same time two LED start flashing. With the two buttons “up, □, and “down□”, the desired set point can be adjusted in steps of 1 °C. If the desired value is shown, it can be saved by pressing the „SET“ button. After some seconds the display switches back to the actual temperature and the unit is ready to start.

The status of the cooler (compressor on or off) is indicated from the small LED in the display.

4. Technical data

Type	SK 6
Power uptake	1490 W
Voltage.	400V 3Ph ~, 50 Hz
Cooling power output *	3.995 W

For aquaria up to litres **	7.000 l
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* Measured at 35°C evaporation temperature

** Measured at 22°C room temperature and cooling down to 12°C water temperature, without regarding sunlight, illumination and pump energy in a non-isolated aquarium.

5. Maintenance

The cooler has the same requirements with respect to maintenance like conventional cooling units (refrigerators etc.). Maintenance and/or repairs should be done exclusively either by a service engineer or by the manufacturer:

AB Aqua Medic GmbH , Gewerbepark 24 , D-49143 Bissendorf Clean the air-cooled condenser regularly.

We recommend flushing the heat exchanger thoroughly once a year to remove any muddy parts.

6. Warranty

Should any defect in material or workmanship be found within twelve months of the date of purchase AB Aqua Medic GmbH undertakes to repair or, at our option, replace the defective part free of charge – always provided the product has been installed correctly, is used for the purpose that was intended by us, is used in accordance with the operating instructions and is returned to us carriage paid. The warranty term is not applicable on the all consumable products.

Proof of Purchase is required by presentation of an original invoice or receipt indicating the dealer's name, the model number and date of purchase, or a Guarantee Card if appropriate. This warranty may not apply if any model or production number has been altered, deleted or removed, unauthorised persons or organisations have executed repairs, modifications or alterations, or damage is caused by accident, misuse or neglect.

We regret we are unable to accept any liability for any consequential loss.

Please note that the product is not defective under the terms of this warranty where the product, or any of its component parts, was not originally designed and / or manufactured for the market in which it is used.

These statements do not affect your statutory rights as a customer.

If your AB Aqua Medic GmbH product does not appear to be working correctly or appears to be defective please contact your dealer in the first instance.

Before calling your dealer please ensure you have read and understood the operating instructions. If you have any questions your dealer cannot answer please contact us.

Our policy is one of continual technical improvement and we reserve the right to modify and adjust the specification of our products without prior notification.

AB AQUA MEDIC GmbH - Gewerbepark 24 -D 49143 Bissendorf/Germany

- Technical changes reserved -