



JBL PROTEMP b III

Substrate heating for freshwater aquariums

Suitable for:



- An undergravel heating cable provides a natural-like thermal flow through the substrate and thus promotes the transport of nutrients to the roots
- Easy to install: place the heating cable in loops on the bottom panel of the aquarium, fasten with the suction cups
- The rising, heated water causes the colder water to flow in and thus ensures water circulation IN the substrate. In this way, the substrate also becomes a natural aquarium filter
- Large cross-section of the heating cable for more power, 24 V safety voltage against hazards, high-quality power supply unit, spring clips allow mounting without tools
- Package contents: undergravel heating cable for aquariums, incl. electr. transformer, heating cable with cold and warm conductor, suction cup attachment

You may also be interested in

You can find a complete overview here: <https://www.jbl.de/qr/60490>



**JBL PROFLORA
 Ferropol**

Plant fertiliser for freshwater aquariums



**JBL PROFLORA
 AquaBasis plus**

Long-lasting nutrient substrate f. freshwater aquarium



**JBL PROFLORA
 AquaBasis Start**

Plant fertiliser starter set for freshwater aquariums



JBL PROTEMP e300

External heater for all aquariums from 90 to 300 l





JBL PROTEMP b III

Spare parts



JBL slotted suction cup, 2mm

Holder for heating cables in aquariums and terrariums



JBL adapter UK for all flat-pin plugs



JBL PROTEMP b III



Product information

Water circulation

Aquatic plants grow better in the wild when they have access to seeping nutrition sources. The plants absorb their food from these sources. The gently warming undergravel heating causes the warm water to rise and the cold water, full of dissolved nutrients and minerals, sinks to the bottom. This creates a thermal water flow, which washes the minerals and trace elements directly to the roots.

Easy to install

When beginning to set up the aquarium, position the heating cable in even-sized loops (in the area where plants are to be planted) on the cleaned bottom pane. Using the slotted suction cups enclosed, fasten the heating cable. Bring the cold leads of the cable out of the aquarium and connect them to the power supply. The black markings on the cable clearly distinguish the cold lead from the heating cable.

Safe to use

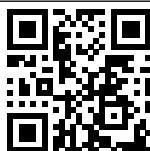
The heating cable is silicone-covered and works with an energy-saving power supply with 24 V safety voltage for hazard-free use. The the power supply unit needs to be mounted in a well-ventilated, splash-proof place. The undergravel heating results in a slight warming of the substrate, but definitely needs to be supplemented with a heater thermostat (JBL ProTemp s) for warm water fish. The power supply units heat up during operation - this is normal and due to technical reasons.

Tip:

If you don't want to use the suction cups to fix the undergravel heating cable, you can also glue the heating cable with small "silicone drops" and then remove the suction cups.

Contents of the various undergravel heating cable sizes: (power cable length always 1.5 m)

- JBL PROTEMP b 10 III: 3.6 m heating cable, 2 m PTC resistor ("cold lead"), 20 slotted suction cups
- JBL PROTEMP b 20 III: 4.9 m heating cable, 2 m PTC resistor ("cold lead"), 30 slotted suction cups
- JBL PROTEMP b 40 III: 7.0 m heating cable, 2 m PTC resistor ("cold lead"), 30 slotted suction cups
- JBL PROTEMP b 60 III: 9.0 m heating cable, 2 m PTC resistor ("cold lead"), 40 slotted suction cups

Further information	
FAQ	✓
Blog	✓
Press	✗
Laboratory/calculator	✗
Worth reading	✓
Spare parts	✓
Video	✓
GarantiePlus	✓
Instructions	✓
QR code	





JBL PROTEMP b III



Product details

Article data				
Product name	JBL PROTEMP b10 III	JBL PROTEMP b20 III	JBL PROTEMP b40 III	JBL PROTEMP b60 III
Art. No.	6049000	6049100	6049200	6049300
EAN number	4014162604903	4014162604910	4014162604927	4014162604934
EAN as barcode				
Performance	10 W	20 W	40 W	60 W
Range	40-120 l	60-200 l	90-300 l	160-600 l
Expiry months	-	-	-	-
RRP incl. VAT	77,40 €	83,54 €	106,73 €	124,96 €
Base price	-	-	-	-
Nominal filling quantity	-	-	-	-
Base quantity	1	1	1	1
Gross weight	440 g	462 g	584 g	636 g
Net weight	291 g	313 g	435 g	487 g
Weight change	-	-	-	-

Disposal				
Product name	JBL PROTEMP b10 III	JBL PROTEMP b20 III	JBL PROTEMP b40 III	JBL PROTEMP b60 III
Art. No.	6049000	6049100	6049200	6049300
Green dot	✓	✓	-	✓
Group electronic waste	Small appliances that can be used in private households	Small appliances that can be used in private households	Small appliances that can be used in private households	Small appliances that can be used in private households
Disposal weight	150 g	150 g	210 g	210 g
Battery type	-	-	-	-
Battery return	-	-	-	-
Battery rechargeable	-	-	-	-
Disposal weight battery	-	-	-	-
Non-returnable glass	-	-	-	-
PPK	149 g	149 g	149 g	149 g
Plastic small	-	-	-	-
Plastic large	-	-	-	-
Disposal weight metal	0 g	0 g	0 g	0 g

Features				
Product name	JBL PROTEMP b10 III	JBL PROTEMP b20 III	JBL PROTEMP b40 III	JBL PROTEMP b60 III
Art. No.	6049000	6049100	6049200	6049300
Animal species	Arowana, Artemia, Axolotl, Barbels, Bettas, Bichirs/reedfish, Blowfish, Catfish, Cichlids (South America), Crayfish, Danions, Discus, Dwarf shrimps, Flowerhorn, Gobies, Goldfish, Gouramis, Guppy, Juvenile fish, Killifish, Livebearers, Loaches, Newts, Panchaxes, Rainbowfish, Snails, Spiny eels, Tetra, Veiltails, freshwater butterflyfish	Arowana, Artemia, Axolotl, Barbels, Bettas, Bichirs/reedfish, Blowfish, Catfish, Cichlids (South America), Crayfish, Danions, Discus, Dwarf shrimps, Flowerhorn, Gobies, Goldfish, Gouramis, Guppy, Juvenile fish, Killifish, Livebearers, Loaches, Newts, Panchaxes, Rainbowfish, Snails, Spiny eels, Tetra, Veiltails, freshwater butterflyfish	Arowana, Artemia, Axolotl, Barbels, Bettas, Bichirs/reedfish, Blowfish, Catfish, Cichlids (South America), Crayfish, Danions, Discus, Dwarf shrimps, Flowerhorn, Gobies, Goldfish, Gouramis, Guppy, Juvenile fish, Killifish, Livebearers, Loaches, Newts, Panchaxes, Rainbowfish, Snails, Spiny eels, Tetra, Veiltails, freshwater butterflyfish	Arowana, Artemia, Axolotl, Barbels, Bettas, Bichirs/reedfish, Blowfish, Catfish, Cichlids (South America), Crayfish, Danions, Discus, Dwarf shrimps, Flowerhorn, Gobies, Goldfish, Gouramis, Guppy, Juvenile fish, Killifish, Livebearers, Loaches, Newts, Panchaxes, Rainbowfish, Snails, Spiny eels, Tetra, Veiltails, freshwater butterflyfish





Features				
Animal size	For all animal sizes	For all animal sizes	For all animal sizes	For all animal sizes
Animal age group	All aquarium fish	All aquarium fish	All aquarium fish	All aquarium fish
Volume of habitat	40-120 L (40-80cm)	60-200 L (60-100cm)	90-300 L (80-120cm)	160-600 L (100-150cm)
Material	Plastic (ABS), metal (copper), silicone	Plastic (ABS), metal (copper), silicone	Plastic (ABS), metal (copper), silicone	Plastic (ABS), metal (copper), silicone
Food type	-	-	-	-
Colour	white / black	white / black	white / black	white / black
Dosage	-	-	-	-
Transport conditions	-	-	-	-



JBL PROTEMP b III

Electronic label / illuminant				
Product name	JBL PROTEMP b10 III	JBL PROTEMP b20 III	JBL PROTEMP b40 III	JBL PROTEMP b60 III
Art. No.	6049000	6049100	6049200	6049300
Ambient temperature	-	-	-	-
Start time	-	-	-	-
Mercury	-	-	-	-
Tube length	-	-	-	-
Service life	-	-	-	-
Lumen	-	-	-	-
CRI value	-	-	-	-
Dimmable	-	-	-	-
Switching cycles	-	-	-	-
PAR value	-	-	-	-
Energy efficiency class	-	-	-	-
UV-A	-	-	-	-
UV-B	-	-	-	-
UV-C	-	-	-	-
Colour temperature	-	-	-	-
Base designation	-	-	-	-

Technical data				
Product name	JBL PROTEMP b10 III	JBL PROTEMP b20 III	JBL PROTEMP b40 III	JBL PROTEMP b60 III
Art. No.	6049000	6049100	6049200	6049300
Range in litres	-	-	-	-
Range from - to	40-120l	60-200l	90-300l	160-600l
Range in days	-	-	-	-
Range tank length	40-80	60-100	80-120	100-150
Output in watts	10 W	20 W	40 W	60 W
Output per hour	-	-	-	-
Output per day	-	-	-	-
Height	-	-	-	-
Length	-	-	-	-
Width	-	-	-	-
Diameter	-	-	-	-
Voltage	230 V	230 V	230 V	230 V
For	JBL PROTEMP b 10 III: 3,6 m Heizkabel, 2 m Kaltleiter, 20 Schlit	JBL PROTEMP b 20 III: 4,9 m Heizkabel, 2 m Kaltleiter, 30 Schlit	JBL PROTEMP b 40 III: 7,0 m Heizkabel, 2 m Kaltleiter, 30 Schlit	JBL PROTEMP b 60 III: 9,0 m Heizkabel, 2 m Kaltleiter, 40 Schlit
T8 26mm (watt)	-	-	-	-
T5 16mm (watt)	-	-	-	-
Size	-	-	-	-
Content for	-	-	-	-
Filter container volume	-	-	-	-
Volume filter media	-	-	-	-
Hose connections pressure/out	-	-	-	-
Hose connections suction/in	-	-	-	-





Technical data				
Delivery head	-	-	-	-





JBL PROTEMP b III

Food type	-
Sub product type	-
Dosing	-





Additional information for the specialist trade sector

Article data				
Product name	JBL PROTEMP b10 III	JBL PROTEMP b20 III	JBL PROTEMP b40 III	JBL PROTEMP b60 III
Art. No.	6049000	6049100	6049200	6049300
VAT	21%	21%	21%	21%
Sales unit (SU)	1	1	1	1
Volume packaging	2.4l	2.4l	2.4l	2.4l
Dimensions (l/w/h)	63 mm/165 mm/235 mm	63 mm/165 mm/235 mm	63 mm/165 mm/235 mm	63 mm/165 mm/235 mm
Layer	72	72	72	72
Pallet	216	216	216	216
Category of products	3	3	3	3
Customs tariff	84198998	84198998	84198998	84198998
Country of origin	DE	DE	DE	DE
Type of packaging	Faltschachtel/Karton	Faltschachtel/Karton	Faltschachtel/Karton	Faltschachtel/Karton

PU 1 data				
Product name	JBL PROTEMP b10 III	JBL PROTEMP b20 III	JBL PROTEMP b40 III	JBL PROTEMP b60 III
Art. No.	6049000	6049100	6049200	6049300
PU 1 material	None	None	None	None
PU 1 weight	-	-	-	-
PU 1 length	-	-	-	-
PU 1 width/depth	-	-	-	-
PU 1 height	-	-	-	-

PU 2 data				
Product name	JBL PROTEMP b10 III	JBL PROTEMP b20 III	JBL PROTEMP b40 III	JBL PROTEMP b60 III
Art. No.	6049000	6049100	6049200	6049300
PU 2 material	None	None	None	None
PU 2 weight	-	-	-	-
PU 2 length	-	-	-	-
PU 2 width/depth	-	-	-	-
PU 2 height	-	-	-	-

Trade data				
Product name	JBL PROTEMP b10 III	JBL PROTEMP b20 III	JBL PROTEMP b40 III	JBL PROTEMP b60 III
Art. No.	6049000	6049100	6049200	6049300
Till receipt text	ProTemp b10 III	ProTemp b20 III	ProTemp b40 III	ProTemp b60 III
Shelf placement	-	-	-	-