



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**

6348810



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

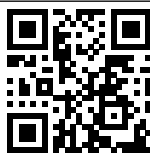
The heating cable is silicone-covered and works with an energy-saving power supply with 24 V safety voltage for hazard-free use. The the power supply unit needs to be mounted in a well-ventilated, splash-proof place. The undergravel heating results in a slight warming of the substrate, but definitely 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 | 76,12 € | 82,16 € | 104,97 € | 122,89 € |
| 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 | 19% | 19% | 19% | 19% |
| 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 | - | - | - | - |

