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**Volumetric Feeders, AccuRate Series**



- Volumetric feeding of bulk solids
- Feeding without internal agitation
- Gentle material conditioning
- Economical and simple integration
- Compact design

**Application**  
Feeders of the AccuRate series are a special economical solution for volumetric feeding of bulk solids. With a feed rate range of 0.1 l/h to 8,000 l/h, these feed systems can be used for:  
• continuous feeding  
• batching and  
• blending  
of materials with up to 10 mm grain size.  
No matter whether materials or additives are fed into the process, extruders or compounders, or a blend requires to be formed, feeders of the AccuRate series offer the right solution for almost any application. Their simple, compact design does not only ensure easy service and maintenance but also economical integration into existing production plants.

**Features**  
The AccuRate basic feeder comes with the following features:  
• Housing (rugged welded structure) of stainless steel, with easily removable side panels  
• Flexible hopper of (FDA-approved) TUFLEX vinyl  
• "Massaging" paddle system  
• Discharge unit (helix and nozzle in stainless steel)  
• Vertical discharge head  
• Protective grid  
• DC or AC drive for helix and paddle (joint or separate)  
For DC-drives, a wide choice of controllers is available.  
Feed rate and agitation setpoints can be entered via potentiometer, with or without display, for continuous or batch mode. External presetting via analog signal input is also possible.

For optimum adaption of the feed system to the application, beside the basic feeder, a wide choice of feed equipment and accessories is available.  
**Function**  
Volumetric AccuRate feeders operate according to the "flexible-wall principle" introduced by Schenck-AccuRate more than 30 years ago. Instead of the usual internal agitators, all feeders are fitted with two external paddles that gently massage the molded hopper. This ensures a continuous, even flow of material into the helix with a uniform bulk density. This avoids bridging and material build-up. Additionally, the flexible-wall principle ensures a constantly high filling degree of the helix.

BV-D2042GB we make processes work

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Beamwork timer module instructions. Beamwork timer instructions. Beamwork led timer instructions.

However, they also produce heat, although in smaller amounts. Surprisingly, it doesn't. The most important is the size of your aquarium. This is because different aquatic plants require different light intensities. While the majority of corals can be found in tropical and subtropical waters, other aquatic plants have a vast geographic range. Plus, most of these fixtures enable you to adjust settings using a remote or an app. Alternatively, you can invest in a smart LED lighting system that automatically determines what colors will be displayed in the fish tank. The Satellite Plus Pro is available in: 18-inch, 24 to 36-inch, 36 to 48-inch and 48 to 60-inch. Moreover, this fixture gives you two options of controlling the LED light wirelessly. So it all boils down to the color that shows off the corals, aquarium plants and organisms in the best light. So even though LED aquarium lights cost more money upfront, you'll be able to make up for this difference through energy cost savings. Less heat is another reason that warrants investing in LED aquarium lights is the fact that they don't dispense the type of heat generated by fluorescent bulbs. Ideally, a color rating of between 6000 and 8000K offers a magnificent view of your fish tank. How do Aquarium LED Lights Work? An aquarium LED lighting consists of many tiny LED lights that are connected together so as to illuminate brightly. The actual size of the fixture is shown by the smaller number. These include a wireless IR remote and a touch keypad. The Satellite Plus Pro is a pricey unit. To generate light, a current has to pass through the diode through a process that involves converting electrons (present in the diode) to photons. On the other hand, if you have a deep tank, you'll need more powerful lights that can cast light to the deeper sections. When evaluating the size of LED lights, you should also account for the species and number of photosynthetic entities in the fish tank. But in exchange for a hefty investment, you'll get all the bells and whistles you expect to find in an aquarium LED light. To start with, the fairly thin light boasts a 24-hour on/off timer reinforced with a 15-minute ramp up and dim down settings. A plant in its growth phase will require more light than one that is fully grown. Along with seeking advice from professional aquarists, you should conduct a thorough research on your aquatic plants and establish their lighting requirements. Light Intensity This is an expression of the strength or amount of light emanating from a particular source, which in our case, is LED lighting fixture. Keep in mind that different organisms have varying light intensity requirements, so consider the aquatic life you have. They combine the best attributes of each type of light. Does this result in a uniform spread of the light or is it focused on only those sections that have plants and corals? Let's look at the key benefits of LED aquarium lights: Lower power consumption Compared to the other models of lights we've mentioned above, LED fixtures consume the least amount of energy. In fact, they use up to 80% less energy than other lights. Based on these factors, the Nicrew Classic LED is certainly one of the best options of fish tank lighting. These come with extendable brackets, making them suitable for different tank sizes. This way, the small amounts of heat they discharge won't reduce the lifespan of the LED chip. Long life is a key advantage that LED aquarium lighting has over its counterparts is long lifespan. The Kelvin rating is very close to that of normal daylight, which means it generates enough light to help the aquarium plants photosynthesize naturally. Another plus of this lighting fixture is the automated timing system. What this means is that the lighting requirement of one aquarium plant will differ significantly from another. Apart from species, the age of the aquatic plants will also come into play. Different fixtures are designed to churn out varying wavelengths and strengths. LED is an acronym for light-emitting diode, or its affiliates Store Availability Store Availability Store Availability 4.5 rating Write a review Order now and get it around Saturday, April 30 Store Availability Store Availability Store Availability Store Availability © 1996-2014, Amazon.com, Inc. Generally, most aquatic plants fair well on 10 lumens per liter while there are a few that require up to 40 lumens per liter. While using this approach of lumens per liter to determine the kind of lights to buy is wise, it has one major limitation. The manufacturer has utilized LED technology effectively, providing a decent amount of brightness without compromising on energy-efficiency. Another pleasant feature of these LEDs is that they don't dissipate much heat. This enables you to adjust the light intensity in your fish tank. With greater energy, different colors combine forming a bright white light. Similarly, standard fluorescent bulbs that offer 6 to 18 months can't rival the longevity offered by the LED models. Adjustability in light intensity level Another benefit you get from installing LED lights in your fish tank entails the ability to program and dim the fixtures, or its affiliates There are many reasons why homeowners choose to keep aquariums, but the most common is the fact that they add beauty to a home. Usually, the sets of colors that blend are red, blue and green. Why Should You Choose LED Lights for your Aquarium? When setting up lighting in your fish tank, you have several options to choose from other than LED fixtures. These include fluorescent bulbs, metal halide lights and compact fluorescent bulbs. Over-illuminating an aquarium affects both the fish and plants. Thanks to this feature, they're perfect for simulating the tropical lighting that aquatic life experience in their real-life habitats. These fixtures are also capable of supporting the photosynthesis process for your aquarium plants. While all these lighting options have their fair share of benefits, LED aquarium fixtures reign supreme. Better yet, the colors transition very smoothly creating an aesthetic appeal. And apart from colors, you can also configure brightness or activate effects like "strobe" using this remote. This fixture is available in 5 sizes: 11 - 19 inch, 19 - 28 inch, 28 - 36 inch, 35 - 45 inch, 46 - 54 inch. As a result, you'll have to buy these lighting fixtures separately and install them on your own. To compound this issue, LED aquarium lights come in different designs and shapes meaning that the installation mechanisms also differ. With compact fluorescent bulbs, you'll benefit from greater light output at a smaller size. In this article, we'll look at the best LED aquarium lights and the benefits they bring. How to Choose LED Aquarium Lights Selecting the appropriate illumination for your fish tank can seem daunting, especially if you're not familiar with all the lighting jargon- color temperature, Kelvin scale and others. The only problem is that the lighting kits provided with most aquariums are not LED. Due to their compact size, you'll find them often incorporated in aquariums. Metal halides also have a major advantage, and that is their ability to produce a full spectrum. The ramp up increases brightness at sunrise while the dim down decreases it at sunset. There's also a storm mode that creates lightning strikes and other innovative effects. This is bound to add some thrill to your aquarium. Like the majority of the fixtures in our review, this one also comes with extendable brackets making it suitable for different tank sizes. All the buttons are color-coded, making it easy to switch to your preferred hues. But it's actually not difficult to find a good fixture. Best part is: you don't even have to point the remote directly to the receiver as you can control it through a wall. If you're not tech-savvy, you'll be pleased to know that the remote has a simple interface. Featuring 8,000K, this fixture is designed to provide ample lighting for most plant species. This is the kind of fixture that you remove from its packaging, set up in your aquarium, plug into a power socket and simply switch on. Pros Provides full-spectrum light Has timer settings Allows you to choose from two lighting modes: day/night Ideal for freshwater Cons Power adapter tends to get too hot Koval Aquarium Lighting If you're looking for LED fixture that offers a lot of brightness, Koval Aquarium Lighting is your best bet. The majority of manufacturers provide built-in fluorescent lights. According to the manufacturer, the Lighting set lasts for up to 50,000 hours. Pros These are full spectrum lights include extendable brackets to fit different tank sizes Long-lasting Low power consumption Cons Current USA Satellite Plus PRO LED Light The Satellite Plus Pro is a pricey unit. Normal daylight is rated at 6500K, and this is what most people prefer for planted aquariums. Nonetheless, the color of light has negligible impact on plant growth. But overall, these lighting items are meant to be attached to the wall or lid of your fish tank. As you set up your illumination fixtures, think about how light will be spread throughout the tank. This in turn means that they won't cause the aquarium water to heat up excessively. That said, they do need proper air circulation like any other lighting fixture. Experts recommend staying away from incandescent bulbs as they're too tiny to use in fish tanks, and they disperse excess heat. The standard fluorescent lights are a much better alternative because they have sufficient light intensity. It's designed beautifully so you don't have to worry that installing it will ruin the phenomenal look of your aquarium. Now, if you've not yet figured this out, the "FSPEC" in the title means full spectrum. If you have a big fish tank, you should get a fixture that will cast light throughout the tank without missing any spots. Other features you should consider are: the lifespan of the lights, light intensity and color temperature. Photons are the small-sized packets of energy that emit their energy by casting a bright light. The color of the light varies parallel to the quantity of energy that is being used to convert electrons to photons. Once you've installed the lights, there's not much left to do except to turn on the main switch. Top 6 LED Aquarium Lights NICREW Classic LED Aquarium Light Nicrew Classic LED are one of the most popular lighting options for aquarists, and for good reasons. For starters, they come with adjustable metal brackets to fit a wide range of fish tank sizes. However, there's a lot that goes into maintaining a fish tank: from setting up a proper filtration system to buying aquarium heaters and air pumps. Another important piece of the puzzle is finding the perfect LED lights. This is made possible by the fact that they don't consume excess power. One benefit of having lights that dispense minimal heat is that they last longer. If you switch them on, you'll get a full spectrum lighting that is not only good for aesthetics but also your aquarium life. The benefit of such a full-spectrum LED lights is that they cast bigger and better wavelengths of light, which in turn boost growth of aquarium plants. Another thing we love about BeamsWork FSPEC light is the ease of installation. By a long lifespan, we mean that a single LED fixture provides at least 50,000 hours. That is nearly 6 years compared to the meagre 2 to 4 months offered by incandescent bulbs. These include a wireless IR remote and a touch keypad. Pros Highly-customizable Bright lighting 24-hour timer Additional weather simulations like the storm mode Cons CODIA Aquarium Hood Lighting Whether you have a saltwater or freshwater fish tank, the Aquarium Hood Lighting by CODIA is a solid choice. The smallest has a size ranging from 12 to 18 inches while their largest ranges from 48 to 52 inches. This is the fact that light is not spread uniformly throughout the tank, especially when it comes to illuminating deeper sections. As such, you should consider the lumens per liter among many other factors when choosing LED lights for your aquarium. Color Temperatures This is one of the few aspects where an aquarist has the freedom to choose based on his/her tastes and preferences. Thus, you need to turn the lights off after a given timeframe. Thankfully, Finnex has simplified this by incorporating a controller that automates the entire process. The color of light is determined using the Kelvin scale. The rule of thumb here is that warmer colors range below 5000K while cool colors exceed this mark. This is the perfect light for viewing and feeding applications. What's more, you can get LED lighting strips which reproduce the monthly lunar cycle. The controller employs a 24/7 automatic lighting cycle, which simulates the sunrise and sunset cycles. Furthermore, the LED light comes with a remote control. This allows you to configure different lighting and weather effects like cloudy days, sunny days, blazing thunderstorm and moonlight effect. Pros Easily customizable Impressive design The 24/7 mode works flawlessly Adjustable Cons The saved configurations are easy to overwrite when selecting the fixture's settings Conclusion There are several points you should consider when selecting a LED light fixture for your aquarium. What this means is that it contains a variety of colors other than the usual white. More specifically, the light comes pre-installed with 10000K, red 620nm and green 520nm. © 1996-2014, Amazon.com, Inc. This enables you to configure light intensities that simulate those that would be experienced in a native setting, particularly at sunrise and sunset. If you have nocturnal fish, this is a very handy feature as it enables you to configure a dim blue light which mimics the moonlight. White blue LEDs are suitable for daytime applications while the blue LEDs are better suited for nighttime. Pros Two lighting modes for day and night Adjustable brackets enables the fixture to fit in a variety of tank sizes Provide energy-efficient lighting Cons Construction of the brackets can be improved BeamsWork FSPEC LED Aquarium Light The first thing you'll notice about the BeamsWork LED Light is its sleek profile. Here are a few factors that will help to narrow down your options: Size The first question you need to ask yourself is: How big is my aquarium? If you have a really large tank, then you should invest in longer lights to ensure there's complete coverage. The right aquarium lighting facilitates proper growth rates and helps with algae control. This is a stylishly designed fixture that gives you a hassle-free way of adjusting its colors. We're referring to the 2.4G remote controller, which helps you switch colors from the comfort of your couch. For a fair price, you get a whopping 156 bright LEDs with various colors. With many LED lights, you'd think that the fixture's power consumption rate will go through the roof. They are also extremely bright, durable and offer two lighting setups: white and blue LEDs (for daytime) and blue LEDs (for nighttime). The bigger number represents its potential length upon adding brackets. Pros Variety of color options Comes with a remote controller Dimmable LED lights Affordable Cons Lacks cycle or timer settings Finnex Planted+ 24/7 HLC Aquarium LED Light An improved version of the previous Finnex Planted Fully Automated LED, the HLC offers the best value for money. As its name suggests, this LED light is best suited for planted aquariums. This system works by accounting for the stage of plant growth and the aquarium's temperature. How to Set Up LED Lights in your Aquarium Installing LED lights in your fish tank is a fairly simple process. But take note that the pricing of these fixtures increases parallel to their size. Secondly, this LED light allows you to pick from two lighting configurations: a white and blue combination or plain blue.

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