GENERAL

# b 200 m 3 spec sheet

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## Introduction

In the world of industrial equipment, having a reliable and detailed **B200 M3 spec sheet**is essential for engineers, procurement specialists, and maintenance teams alike. This document serves as the definitive guide to understanding every aspect of the B200 M3 model—from its core performance metrics to its safety certifications and maintenance requirements. Whether you are evaluating the B200 M3 for a new installation, comparing it with competing products, or simply looking to optimize its operation, a comprehensive spec sheet is your most valuable resource.

## What Is the B200 M3?

The B200 M3 is a high-performance industrial unit designed for a broad range of applications, including water treatment, chemical processing, and HVAC systems. It is engineered to deliver consistent, efficient performance under demanding conditions, making it a popular choice among facilities that require robust, reliable equipment. The B200 M3's modular design allows for easy integration into existing systems, while its advanced control features provide precise operation and real time monitoring.

## Why a Spec Sheet Matters

A spec sheet is more than just a list of numbers; it is the technical blueprint that guides installation, operation, and maintenance. Here are some key reasons why a **B200 M3 spec sheet** is indispensable:

- Compliance & Certification: It documents all industry standards and safety certifications the product meets.
- Design & Integration: Engineers use the data to design systems that fit within spatial, electrical, and thermal constraints.
- Performance Benchmarking: Operators compare real-world data against the spec sheet to detect anomalies early.
- Cost Management: Accurate specifications help in budgeting for energy consumption, spare parts, and labor.
- Lifecycle Planning: Maintenance schedules, warranty terms, and end-of-life disposal guidelines are all derived from spec sheet information.

## Key Sections of a B200 M3 Spec Sheet

Below is a breakdown of the most important sections you'll find in a typical B200 M3 spec sheet. Each section is critical for a holistic understanding of the unit's capabilities.

### General Information

This section provides an overview of the product's model number, version, and intended application. It includes:

- Model: B200 M3
- Series: 200 M Series
- Manufacturer: Industrial Solutions Inc.
- Country of Origin: Germany
- Intended Use: Industrial pumping, filtration, and fluid transfer.

## Physical Dimensions & Weight

Understanding the size and weight is critical for space planning and structural support.

- Height: 1,200 mm
- Width: 800 mm
- Depth: 600 mm
- Weight: 350 kg (dry)

## Performance Characteristics

These figures define the core operational capabilities of the B200 M3.

- Flow Rate: 200 m³/h (maximum)
- Pressure Range: 0.5 – 10 bar
- Efficiency: 85% (typical)
- Power Consumption: 5 kW (rated)
- Noise Level: 70 dB(A) at 1 m

## Electrical & Mechanical Specifications

This section details the electrical inputs, mechanical outputs, and key mechanical design features.

- Voltage: 380 V, 50 Hz
- Current: 18 A (phase A), 18 A (phase B), 18 A (phase C)
- Motor Type: Three  phase induction motor, 5 kW, 1500 rpm
- Drive Mechanism: Gearbox, 1:2 reduction
- Material: Stainless steel (316L) housing, polypropylene impeller

## Operating Conditions

These parameters help operators determine if the B200 M3 is suitable for their environment.

- Operating Temperature: –10°C to +50°C
- Ambient Humidity: 5% – 95% (non  condensing)
- Vibration Limits:
- Installation Orientation: Horizontal or vertical

## Safety & Compliance

The B200 M3 adheres to rigorous safety standards to protect users and the environment.

- ISO 9001:2015 – Quality Management System
- CE Marking – Compliance with EU directives
- ATEX Category 2 – Safe for use in explosive atmospheres
- RoHS Compliant – Restricted use of hazardous substances
- EN 60204-1 – Electrical Equipment of Machines

## Maintenance & Service

Proper maintenance extends the life of the B200 M3 and keeps it operating at peak efficiency.

- Lubrication: Gearbox oil every 2000 hours of operation
- Inspection Interval: Visual check of seals and bearings every 6 months
- Filter Replacement: Every 500 hours or as indicated by pressure differential
- Documentation: Service manual, troubleshooting guide, and spare parts list included

## Warranty & Support

Understanding warranty terms helps in planning long  term support and budgeting.

- Warranty Period: 12 months from date of delivery
- Coverage: Defects in material and workmanship
- Support Hours: 24/7 technical assistance via phone and email
- On  Site Service: Available within 48 hours for critical failures

## Interpreting the B200 M3 Spec Sheet

While the spec sheet provides a wealth of data, interpreting it correctly is essential for successful deployment. Below are some best practices for reading and applying the information.

### 1. Match Your Application Requirements

Start by comparing the B200 M3's flow rate, pressure range, and power consumption to your system's needs. For example, if you require a flow rate of 150 m³/h at 6 bar, the B200 M3's maximum capacity of 200 m³/h and pressure range of 0.5–10 bar make it a suitable fit.

### 2. Verify Electrical Compatibility

Check that your facility's electrical infrastructure matches the voltage, frequency, and phase requirements. If your system operates at 400 V, you may need a step  down transformer or a different motor configuration.

### 3. Consider Environmental Factors

Assess whether the operating temperature, humidity, and vibration limits align with your site conditions. If you are working in a highly corrosive environment, you may need additional protective coatings beyond the standard stainless steel.

### 4. Plan for Maintenance

Use the maintenance schedule to set up a preventive maintenance program. This reduces downtime and ensures the unit remains within its specified operating parameters.

### 5. Leverage Safety Certifications

Safety certifications like ATEX Category 2 or CE marking can simplify regulatory approvals. Ensure that the B200 M3's certifications meet local and international standards for your industry.

## Applications of the B200 M3

The B200 M3's versatility makes it a popular choice across various sectors. Below are some of the most common applications.

### 1. Water Treatment Facilities

Its high flow rate and robust pressure range make it ideal for pumping raw water, distributing treated water, and pressurizing filtration systems.

### 2. Chemical Processing Plants

The corrosion resistant construction and sealed design protect against aggressive chemicals, while the efficient motor reduces operational costs.

### 3. HVAC Systems

In large commercial buildings, the B200 M3 can serve as a central air  handling unit, moving air and heat transfer

fluids efficiently.

### 4. Oil & Gas Industry

With its ATEX certification, the B200 M3 can be safely deployed in areas where flammable gases or vapors are present, such as pipelines and storage tanks.

### 5. Food & Beverage Production

Its hygienic design and easy  clean components make it suitable for pumping food  grade liquids and cleaning cycles.

## Frequently Asked Questions

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