

AstroDrive™ FFU Control Consoles

PRECISION CONTROL FOR CRITICAL CLEANROOM ENVIRONMENTS

Benefits

- **Reduced energy consumption:**
Setback control automatically reduces the fan speed or system operation during periods of low demand such as overnight hours, weekends, or when cleanroom activity is minimal
- **Simplified maintenance:**
Real-time, local access to FFU performance allows technicians to quickly identify and respond to issues
- **Quick deployment:**
Field-configurable setup speeds up installation and commissioning
- **Regulatory support:** Integration with environmental monitoring systems helps meet compliance standards
- **Flexible scalability:**
Ideal for operations of any size, from single-room setups to multi-zone, full-facility systems
- **Centralized control:** Integrates with broader building systems for unified facility management

AAF's AstroDrive consoles give you full command over your fan filter unit (FFU) systems, whether you're operating a single cleanroom, managing multiple zones, or running a large-scale facility with complex requirements. Designed for flexibility, ease of use, and seamless integration, these compact control solutions support local and facility-wide cleanroom management while helping you meet stringent industry and regulatory standards.

AstroDrive consoles are available in scalable configurations:

- **AD 100/200 models:** Control 1-200 FFUs across one room or zone with the capability to break fans into multiple groups. Consoles available off-the-shelf.
- **AstroDrive Z2/Z3/Z4 models:** Control 1-200 FFUs across 6-16 rooms or zones. Consoles available off-the-shelf.
- **AstroDrive Custom Consoles:** Customizable consoles capable of managing up to 1,000+ FFUs and across up to 50 rooms or zones.

With advanced motor control, environmental monitoring connectivity, and intuitive interfaces, AstroDrive delivers intelligent, efficient control tailored to your application.

Enhance Your System with Scalable Add-On Options

AstroDrive consoles are designed for flexibility, with a variety of optional add-ons available to tailor your system to your specific cleanroom needs. From sensors and cables to cloud connectivity and integration tools, these enhancements expand functionality, increase system visibility, and streamline integration, supporting your operational goals and compliance requirements with confidence.

On-Site Field Service Support

To support smooth installation, commission, or troubleshooting, AAF can coordinate qualified field service resources, as needed. Technicians can help to ensure proper setup, configuration, and training so your console(s) performs as intended with minimal disruption.

AstroDrive™ FFU Control Consoles

Features

- **Scalable FFU control:** Supports up to 200 FFUs with off-the-shelf models and up to 1,000+ FFU's with custom configurations
- **Compact, wall-mounted interface:** Customizable and space-efficient for cleanroom environments
- **Touch-capable, user-friendly display:** Simplifies operation and monitoring
- **Plug-and-play setup:** Flexible configuration options for streamlined installation
- **BMS/BAS integration:** Seamlessly connects with building management or automation systems
- **Sensor connectivity:** Compatible with pressure, temperature, humidity, and particle count sensors
- **RPM measurement:** Enables fan speed monitoring for more precise control



AstroDrive Custom Consoles



AstroDrive Z4



AstroDrive Z3



AstroDrive Z2



AstroDrive AD 100



AstroDrive AD 200

Find the Right Fit for Your Cleanroom System

Use the chart below to compare available models and select the control console that best fits your facility's size, complexity, and integration needs.

Model	Color Touchscreen Size	Max # of FFUs	Max # of Zones	Controls FFUs via BACnet	Animated Ceiling Grid	Data Logging	Alarm Outputs	Stop & Standby Inputs	Particle Counter Integration	Remote Setback & Clock/Calendar	Set Speed by Zone or Global	BACnet MS/TP or IP	Sensor Integration ²
AstroDrive Custom Consoles	Up to 15"	1000+	50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
AstroDrive-Z4	12"	200	16			✓	✓	✓	✓	✓	✓	✓ ¹	✓
AstroDrive-Z3	7"	120	12			✓	✓	✓	✓	✓	✓	✓ ¹	✓
AstroDrive-Z2*	3.5"	100	6			✓	✓	✓	✓	✓	✓	✓ ¹	✓
AD 100 (Handheld Control)	2.5" x 1.25"	100	2		Read Only/No Info Relay (ALL ALARM INFO AT CONSOLE)					✓	✓		
AD 200 (Wall-mount Control)	2.5" x 1.25"	200	2		Read Only/No Info Relay (ALL ALARM INFO AT CONSOLE)					✓	✓		

¹ – BACnet Communication requires Gateway option

² – Sensor Integration requires Distributed Sensor Module (DSM)

* Available in Monitor Only option; includes Gateway



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