



ARIESPLUS

EASY. PRECISION. CONTROL.

THE NEW TOUCH SCREEN CONTROLLER

Introducing the AriesPlus touch screen temperature controllers: designed for precision, they offer programmable control with up to 99 segments, configurable as ramp, step, or dwell, and can manage relay operations. These controllers provide exceptional temperature accuracy across a wide range through advanced multi-temperature tuning. They also feature process data logging to internal memory and allow for remote viewing on any browser without the need for software installation.

THE NEW TEMPERATURE CONTROLLER AriesPlus

INTUITIVE NAVIGATION AND MORE

The AriesPlus touch screen controllers offer programmable control in which 99 segments may be set as ramp, step or dwell and may also be configured to control relays.

The ARIES series provides a capacitive touch screen interface giving intuitive access to a comprehensive menu for selection and editing of program profiles; scheduling of programs at a defined day and time; data logging of setpoint and actual temperature; localization of language; user level security. The ARIES series can also store and retrieve 50 unique program profiles.

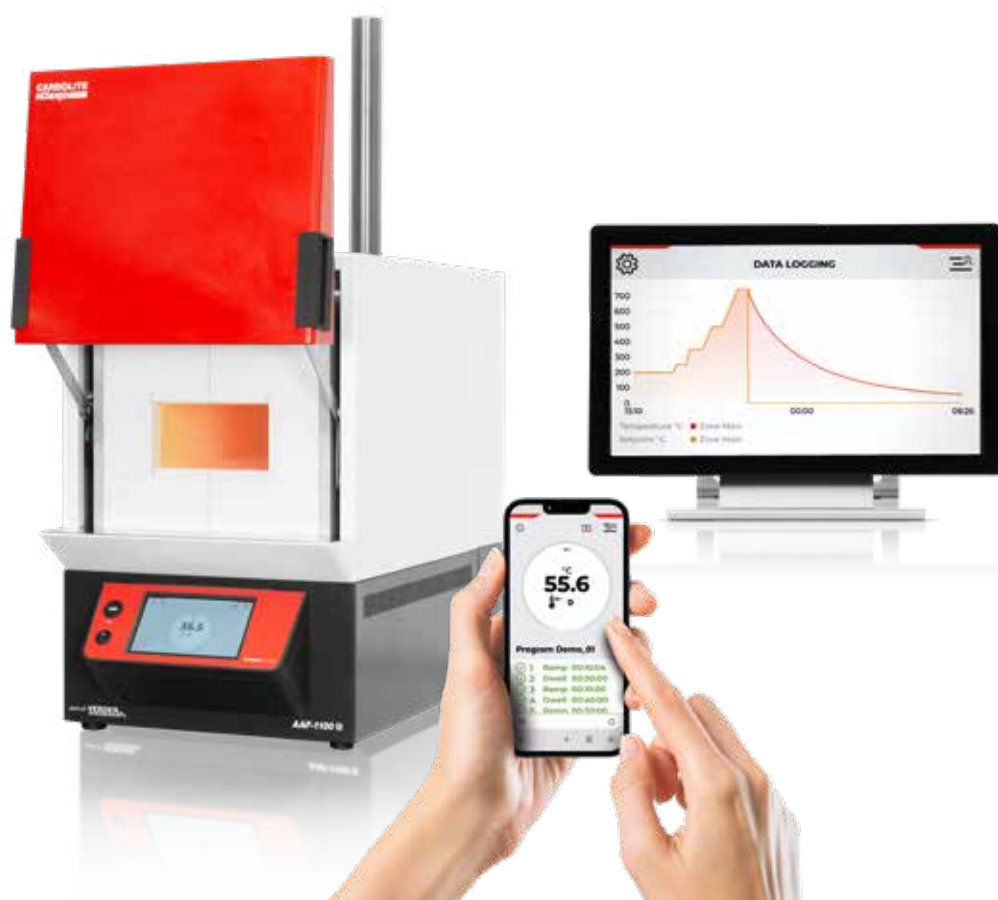
Data-logging is to internal memory which can be downloaded to the adjacent USB port or downloaded to a PC if connected on a network. Ethernet communication is fitted as a standard feature.

Connect to the AriesPlus controller using any computer browser (no software installation necessary) for:

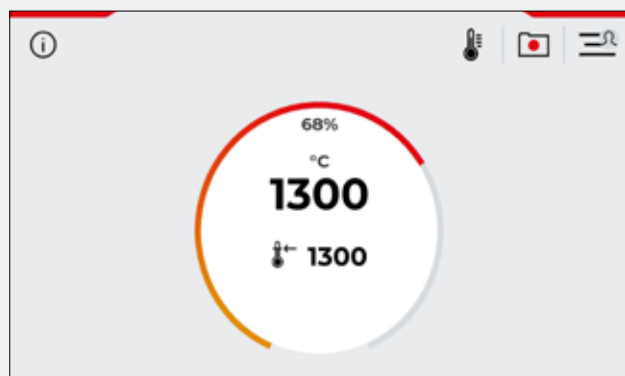
- | Remote viewing
- | Login and navigate
- | Create and edit programs
- | Data-Logging download to PC

STANDARD FEATURES

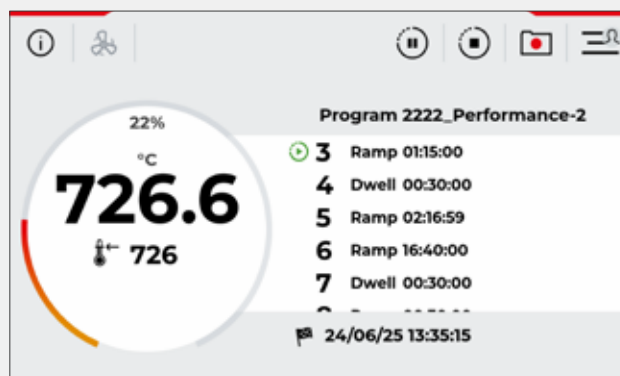
- | 7.0" colour capacitive touch screen
- | Setpoint & program profile control
- | Data logging to internal memory
- | 7-day time scheduler
- | Ethernet communication
- | Remote connection via a browser
- | Panel mounted USB socket
- | User level security
- | Settings including 9 languages



SINGLE ZONE



Single-zone control with datalog recording icon display



Home screen with program running, showing the current segment and program end time & date

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OPTIONAL FEATURES

The range of high quality PID (Proportional, Integral, Derivative) temperature controllers are fitted to CARBOLITE products. These controllers provide accurate temperature control that closely follows programmed ramp rates and setpoint temperatures.

OVER-TEMPERATURE CONTROL

- Integrated independent over-temperature protection with clear alarm indication; recommended for unattended operation and valuable load protection.

ALARM ACTIVATION

- Alarm options enable door locking and process accuracy monitoring.

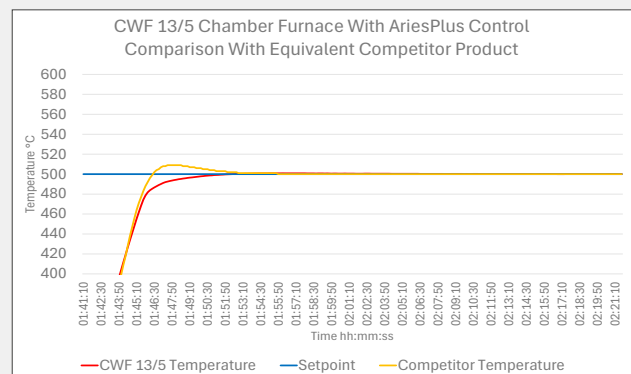
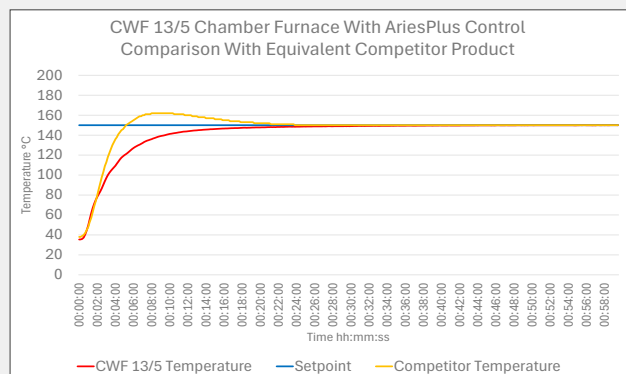
PROGRAM SEGMENT EVENTS

- Program segment events activate options like switching gas flows or starting a cooling fan.



COMPETITOR COMPARISON

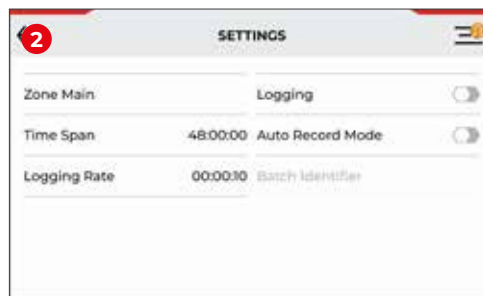
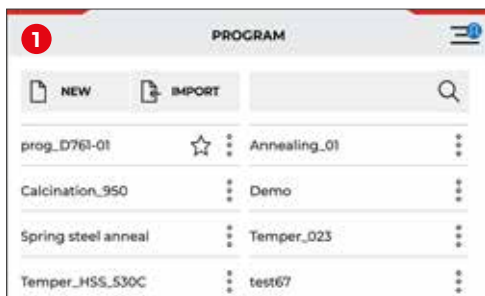
The AriesPlus temperature controller with advanced ThermoTune for exceptional precision. As shown in the charts, AriesPlus outperforms leading competitors, delivering superior control and excellent temperature stability. Discover the difference that AriesPlus can make for your laboratory or industrial heating applications.



Step to temperature comparison between the AriesPlus controller and a leading competitor. The furnace with AriesPlus control achieves the setpoint with no overshoot, whereas the competitor furnace overshoots the setpoint.

THE NEW TEMPERATURE CONTROLLER AriesPlus

EVERYTHING UNDER CONTROL



4 TIME SCHEDULER

State	Day	On Time	Off Time	Temperature / Program
⏸	Monday	06:00	18:00	550 °C
⏸	Tuesday	06:00	18:00	550 °C
⏸	Wednesday	06:00		Ramp dwell
⏸	Thursday	06:00	18:00	550 °C
⏸	Friday	06:00	18:00	550 °C

5 AUTO-TUNE CONFIG

#	Temp °C	Kp	Int	Kd	Kz	Start Temp °C
1	150	3.775	0.006	421.183	1.585	35
2	300	4.543	0.014	245.706	4.364	150
3	500	3.757	0.035	66.417	10.247	300
4	750	3.053	0.057	27.297	21.867	500
5	1000	3.029	0.067	22.717	36.443	750



- 1 PROGRAMMING**
Manage up to 50 programs with USB/PC import/export; features include duplicate, rename, favorite, and delete.
- 2 DATA LOGGING**
Set logging rate from 10 seconds; features batch ID and auto-logging on program start.
- 3 LIVE PROCESS**
View live process graphs for up to 48 hours with pinch zoom; download by batch or date/time range.
- 4 7 DAY TIME SCHEDULER**
Schedule daily heating or program runs at specified times.
- 5 AUTOTUNE**
Optimize for accurate operation across all temperatures; retune for specific processes.
- 6 REMOTE NETWORK CONNECTION**
Ethernet-ready with DHCP or manual connection options.

LEADING HEAT TECHNOLOGY

CARBOLITE is a leading manufacturer of high temperature furnaces and ovens from 30°C to 3000°C. We are the technology leader in tube furnaces as well as vacuum and special atmosphere technology. With more than 80 years of experience in thermal engineering, CARBOLITE develops innovative solutions trusted by research laboratories, pilot plants and manufacturing sites around the world.

CARBOLITE products are defined by their superior energy efficiency as well as excellent reliability and use of high-quality components.

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