

# HOTRUNNER CONTROLLER

Series

# AHC

Simple  
Tough  
Stability  
Precise Control

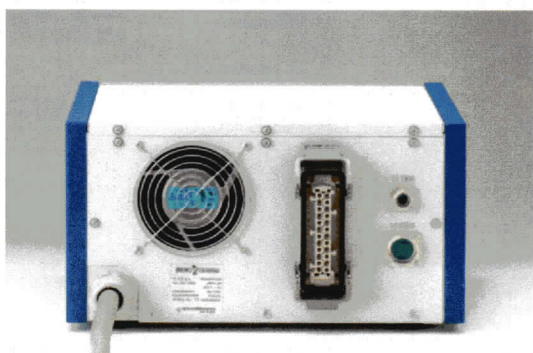


## Simple

Specialized mini-type controller, which can control up to 4 gates.

Available in two models:- (VP) for valve use, and (TP) for spear use.

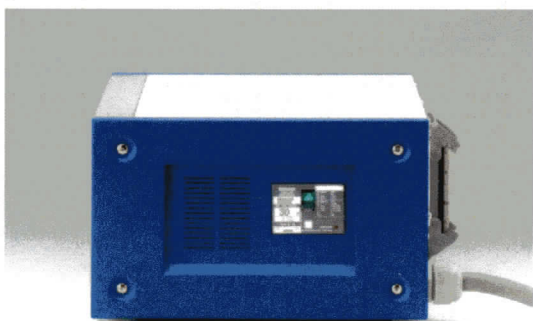
- The AHC series represents the integration of our conventional HC series (Valve use) and AYC series (Spear use). Almost all valves and spears manufactured by SEIKI can be controlled with these two models.
- It is equipped with a screen and interface the same as our advanced (S2K) controller series to improve operability.
- The design adopts a terminal-block-less type circuit board and all fuses are located together on the side panel for easy access and maintenance.



## Tough / Stability / Precise Control

Rich in functions, enhanced performance, designed for operating trouble free in the most severe environmental conditions

- Equipped with optical insulated sensor input circuit for grounded type sensors. The withstanding voltage has been improved to 400V to enhance noise-resistance and durability.
- The operating environment humidity has been increased to 90% for working under severe environmental condition.
- The frequency of the power supply is applicable to the full range from 45Hz to 65Hz. The operation is stable even when using a simple power source or when the power source conditions are changing dramatically.
- Equipped with a self-tuning function to keep precision in the long term.
- Adopts a True RMS current control circuit (TP) to measure the current accurately even with a distorted waveform. The AHC series can realize a precise current control even under a poor power source conditions.



ISO9001  
JQA-QM5881

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**SEIKI CORPORATION**



## Basic function

- Heat retention function
- 2 steps heat up function
- Solenoid valve driving function (for VP only)
- Constant output control function
- Memory function (16 setup values)
- Boost function
- Power-on auto-heat up function
- Temperature unit support (Centigrade/Fahrenheit) function
- Key-lock function
- Constant of temperature control selecting function
- Turn-off delay function
- Soft start function
- Sensor selecting function (J,K)
- Password lock function
- Self-tuning function

## Timer

- Heat up delay timer
- Tip auto-turn off timer
- Heat up time monitoring timer
- Tip timer (setup independently)
- Heat up standby timer
- Valve timer

## Specification of AHC Controller

Power Supply	AC200V/220V/240V(±10%), 45~65Hz		
Operating Temperature	0~40℃ (Storage temperature: -20~60℃)		
Operating Humidity	~90%RH (Avoid condensation)		
Controllable Devices	TP	Spear (D・G・ESP・B (Up to STT22B220))	
	VP	Valve (SVP・SVY・SV32・SV25), ESN	
Capability of Power Supply	2VP2, 2TP2S, 2TP2T		30A (Earth leakage circuit breaker is optional)
	4TP4S, 4TP2T		50A (Earth leakage circuit breaker is optional)
Temperature Unit	Selectable from Centigrade(℃)/Fahrenheit(° F)		
Temperature Input Range	Type-J Sensor	0~500℃	
	Type-K Sensor	0~600℃	
Temperature Measuring Resolution	Optical insulated circuit with the internal precision of 0.1℃ (ADC15bit/1s (Sampling Speed))		
Current Measuring Resolution	True RMS with the precision of 0.1A (ADC10bit/10kHz (Sampling frequency))		
Timing Signal	Contact Input	Dry contact input	
	Voltage Input	DC24V or AC100V~240V	
External Interface	Dry contact input		External alarm, Air pressure drop, 2 Extra input
	Contact output (Rating: DC24V/0.5A)		Alarm, Ready, 1 Extra input
	DC24V Voltage output (Rating: 300mA)		Valve open (For solenoid valve control)
Display	5.7" black and white LCD screen with touch panel function Selectable from Japanese/English/Chinese (Simplified character)		
Memory	16 setup values		
Trouble Detection	Abnormal temperature / Sensor disconnection / Reversed sensor connection / Sensor unmatching / Heater disconnection (Spear/Valve tip) / Over current (Spear/Valve tip)		
Temperature Control	PID temperature control + Self-tuning function		
Output Specification	Manifold	3.0kW (200V 1 Phase)	Time proportioning control output (approx 1s of control cycle)
		4.8kW (200V 3 Phase)	
	Value Body	1.5kW (200V 1 Phase)	Time proportioning control output (approx 1s of control cycle)
	Value Tip	11V/5A	Soft pulse control output
	Spear Body	32V/4.5A	Phase control output (Closed loop current)
	Spear Tip	11V/14A	Phase control output (Closed loop current)
Noise-resistance	Line Noise	Common mode 2kV (100ns/1us) Normal mode 2kV (100ns/1us)	
	Static	Air: 15kV. Contact: 8kV	
Dimensions	390(W)×330(D)×200(H)		
Weight	2VP2	18kg (Main body and power supply wire, excluding cable)	
	2TP2S, 2TP2T	21kg (Main body and power supply wire, excluding cable)	
	4TP4S, 4TP2T	30kg (Main body and power supply wire, excluding cable)	
Accessory	Timing signal input cable (Selectable from contact input use and voltage input use)		

## Options

- Earth Leakage Breaker / Digital I/O cable / Air unit connection cable