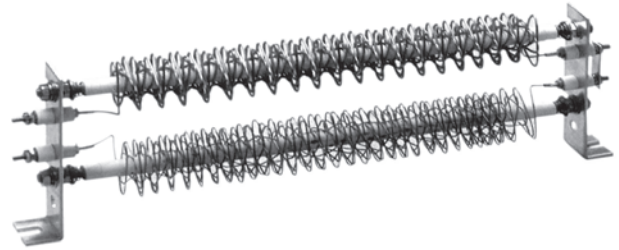


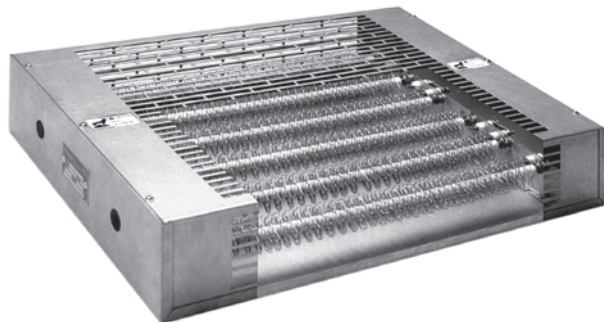
# Avtron Helidyne™ Resistors

## Type AHR

- Unique element design for efficient cooling ensures long life
- Reliable, chromium alloy resistance elements
- Elements are fully supported to resist shock and vibration



Two Avtron Helidyne Resistors with panel mount brackets



Six Avtron Helidyne Resistors with protective enclosure

- Withstands severe short-time overloads
- Higher wattage ratings than conventional wound resistors
- Corrosion resistant aluminized steel enclosures

### Typical Applications include:

- Process Heating
- Dynamic Braking
- Convection Heaters
- Load Banks
- Electric Furnaces

# Avtron Helidyne Resistors

**Avtron Helidyne Resistors** are designed for low current industrial applications from 2 amps to 21 amps continuous with natural convection cooling. Even higher capacity is possible for intermittent duty applications or by adding forced air cooling. (Consult factory for your specific application.) The unique spiraled design allows for superior cooling since much of the resistor element is exposed to the air.

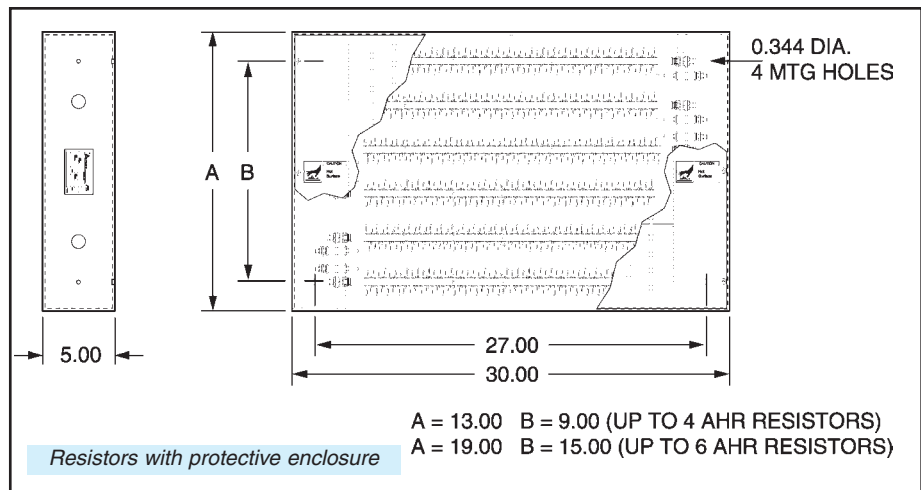
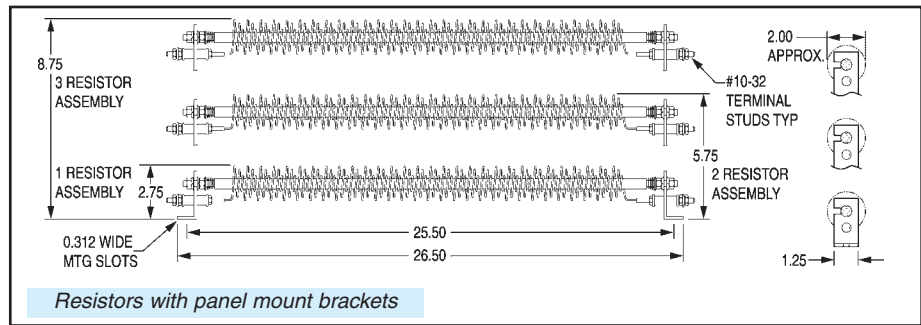
These Avtron designed and manufactured elements are engineered for reliability with hundreds of thousands in service worldwide. Elements are manufactured from corrosion resistant chromium alloy resistance wire with stainless steel terminals. Optional enclosures are constructed from aluminized steel for superior performance. These enclosures are also compatible with Avtron Wirewound Resistors (Type AWR) and Avtron Edge-wound Resistors (Type AER). In addition, these resistors have higher wattage ratings than conventional wound resistors which means fewer resistors per assembly and lower cost. Avtron Helidyne Resistors can be supplied with open mounting brackets or fully assembled in indoor or outdoor enclosures.

To further improve functionality, these resistors can be provided with optional wiring, thermal switches, and control systems. Contact your Avtron sales engineer for total support in selecting resistor assemblies and custom configurations for your application.

Avtron Part Number*	Resistance in OHMS @25°C		Continuous AMP Capacity @375°C Rise	Maximum Wattage
	MIN. OHMS	MAX. OHMS		
AHR21-xxx	2.2	3.2	21.3	1450
AHR18-xxx	3.3	4.5	18.0	1450
AHR15-xxx	4.6	5.6	15.1	1275
AHR12-xxx	5.7	7.9	12.7	1275
AHR10-xxx	8.0	10.0	10.7	1150
AHR8-xxxx	10.1	14.1	8.8	1100
AHR7-xxxx	14.2	19.9	7.4	1100
AHR6-xxxx	20.0	25.5	6.2	1000
AHR5-xxxx	25.6	33.8	5.2	900
AHR4-xxxx	33.9	43.8	4.4	850
AHR3-xxxx	43.9	61.9	3.6	800
AHR2-xxxx	62.0	90.0	2.9	750

\* Last 3 or 4 digits of part number is ohms per resistor times 100.  
 Examples: Resistor rated 18 amps, 4.3 ohms is P/N AHR18-430  
 Resistor rated 5.2 amps, 32.5 ohms is P/N AHR5-3250  
 Resistor rated 2.9 amps, 90 ohms is P/N AHR2-9000

## Outline Drawings



Helidyne is a trademark of Avtron.  
 Specifications subject to change without notice.  
 All dimensions are in inches.  
 Printed in U.S.A.

Bulletin 410  
 Rev. –

