

AV-10

Over 10 Million Pounds of Annual Capacity

10 MILLION
POUNDS PER YEAR

4.5 MILLION
KILOGRAMS PER YEAR

High throughput
low cost per pound



Full-Scale HPP Production Starts Here.

With its low operating costs, compact footprint, low overall weight and easy installation, the AV-10 is the best choice for companies beginning industrial scale HPP food and beverage production.

Topline features

- Lowest cost per cycle in throughput range minimizes production costs
- Small footprint optimizes plant space
- Perfect for small and medium-sized producers, R&D and testing of larger batches
- Advanced design delivers industry's longest-lasting cylinder

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Technical Specs

Standardized Annual Capacity

>15,000,000 lbs. (6,800,000 kg) per year with 1 minute hold time at 87,000 psi (6,000 bar); 15 cycles per hour

>10,000,000 lbs. (4,500,000 kg) per year with 3 minute hold time at 87,000 psi (6,000 bar); 10 cycles per hour

Actual annual capacity must be determined for each package (load-out or vessel filling ratio), product (treatment time, pressure and temperature) and specific working practices (working hours, days, weeks and operational efficiency).



5 reasons producers worldwide choose the AV-10.

- 1. Historical performance.** Avure has pioneered and developed HPP for more than 60 years. The majority of HPP foods and beverages are produced on our equipment.
- 2. Highest possible throughput.** Avure builds the industry's largest and fastest-filling diameter pressure vessels, which pump pure water and deliver more product on every cycle.
- 3. Rapid cycling.** Avure has finessed vessel pressurization and decompression to offer the world's highest performance.
- 4. Lower operating costs.** Avure's experience in specialized metals and engineering lowers maintenance costs and minimizes costly downtime.
- 5. Reliable performance and profits.** The AV-10 works longer and harder than comparable machines. And makes itself known with a superior bottom line.

<i>Vessel: Diameter</i>	306 mm (12.05")
<i>Vessel: Internal Length</i>	1420 mm (55.91")
<i>Vessel: Fill Efficiency</i>	65%
<i>Vessel: Standardized Hourly Capacity</i>	1,935 lbs. (878 kg) per hour 1 minute hold 1,290 lbs. (585 kg) per hour 3 minute hold
<i>Number of Intensifiers</i>	One high-pressure pump unit with hydraulic system and four high-speed intensifiers per pump
<i>Vessel: Volume</i>	100 liters (26.4 U.S. gallons)
<i>Wire Wound Vessel</i>	35.4 miles (57 km) of wire, 8,770 lbs. (3,978 kg)
<i>Wire Wound Frame</i>	21.7 miles (35 km) of wire, 5,372 lbs. (2,442 kg)
<i>Total Machine Weight</i>	38,600 lbs. (17,500 kg)
<i>Recommended Input Water</i>	4° C to 29° C (39° F to 84° F) Flow rate 90 liters per minute (23.8 U.S. gallons) process water Flow rate 38 liters per minute (10 U.S. gallons) high-pressure pumps
<i>Power Supply</i>	190 kVA 3 ph. 480V 60 Hz 230 A 165 kW 160 kVA 3 ph. 400V 50 Hz 235 A 140 kW * Chillers receive separate power
<i>Air Supply</i>	87 psi (6 bar) machine quality, oil free air, 7.1 cfm (200 liters per minute)
<i>Cycle Data Documentation</i>	SCADA PC-based control system records operator, time, lot, batch, pressure, temperature, faults, and all other key parameters during cycles for validation and product safety
<i>Design and Manufacturing Certifications</i>	Designed, manufactured and tested according to ASME Boiler & Pressure Vessel Code, Section VIII, Division 3 rules and the European Pressure Equipment Directive 97/23/EC depending on vessel type and application. Other safety requirements expressed e.g. in relevant European Directives (such as Low Voltage, EMC and Machinery Directives) are also met.



Avure Global Headquarters
1830 Airport Exchange Blvd, Suite 160
Erlanger, KY 41018 USA

Contact us to arrange an on-site tour of Avure HPP machines.



Call +1-614-255-6633
Avure-HPP-Foods.com
Email: info@avure-hpp-foods.com