

AV-60

Over 60 Million Pounds of Annual Capacity

63 MILLION
POUNDS PER YEAR

28.5 MILLION
KILOGRAMS PER YEAR

Lowest cost
per pound/liter of any HPP machine



Avure's HPP Giant for High-Volume Production.

The AV-60 delivers the highest capacity and lowest operating costs of any HPP machine in the world. With the largest vessel diameter and fastest pressurization system, it has revolutionized HPP machine design.

Topline features

- Highest throughput in the world
- Lowest cost per pound/kg/bottle of any HPP machine
- Largest diameter vessel in the world enables maximum efficiency and production of small to large and irregular-shaped products
- Advanced cylinder liner design delivers longest proven life of any vessel in the industry

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Technical Specs

Standardized Annual Capacity

>95,000,000 lbs. (43,100,000 kg) per year with 1 minute hold time at 87,000 psi (6,000 bar); 15 cycles per hour

>63,000,000 lbs. (28,700,000 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 specifically 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-60.

- 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-60 works longer, harder, and produces more product per cycle than any other machine. And makes itself known with a superior bottom line.

<i>Vessel: Diameter</i>	471 mm (18.54")
<i>Vessel: Internal Length</i>	3000 mm (118.11")
<i>Vessel: Fill Efficiency</i>	80%
<i>Vessel: Standardized Hourly Capacity</i>	12,210 lbs. (5,535 kg) per hour 1 minute hold 8,140 lbs. (3,690 kg) per hour 3 minute hold
<i>Number of Intensifiers</i>	Three high-pressure pump units with hydraulic system and four high-speed intensifiers per pump
<i>Vessel: Volume</i>	525 liters (138.7 U.S. gallons)
<i>Wire Wound Vessel</i>	172 miles (277 km) of wire 43,151 lbs. (19,614 kg)
<i>Wire Wound Frame</i>	79.2 miles (127 km) of wire 19,650 lbs. (8,932 kg)
<i>Total Machine Weight</i>	169,755 lbs. (77,000 kg)
<i>Recommended Input Water</i>	4° C to 29° C (39° F to 84° F) Flow rate: 300 liters per minute (79.3 U.S. gallons) process water Flow rate: 38 liters per minute (10 U.S. gallons) high-pressure pumps Flow rate: 5 liters per minute (1.3 U.S. gallons) hydraulic unit
<i>Power Supply</i>	890 kVA / 3 ph. / 480V / 60 Hz / 1070 A / 750 kW 850 kVA / 3 ph. / 400V / 50 Hz / 1230 A / 725 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.



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



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