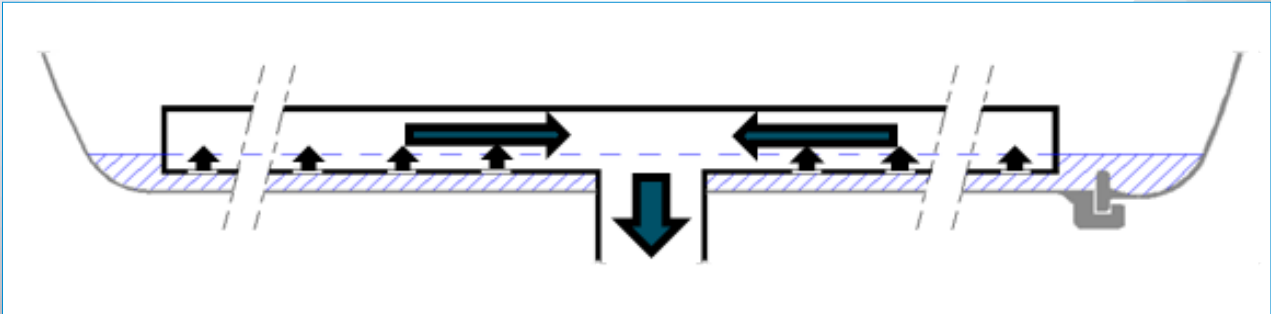


Low Energy Suction System



~45%* less water volume required to be heated and cooled per process.

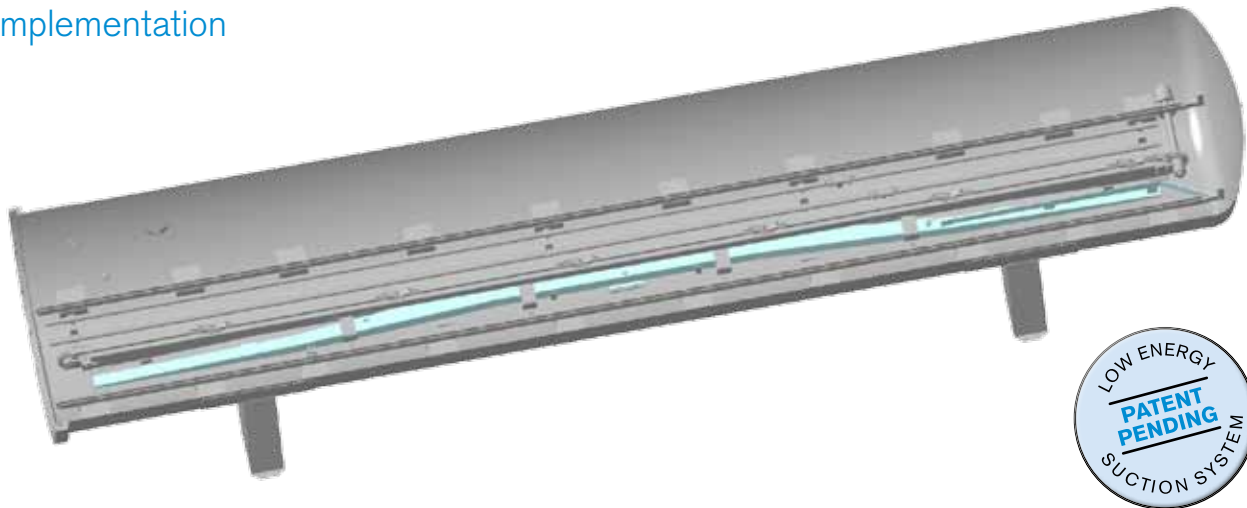
General

The low water level system utilizes a suction manifold to spread the suction points out along the entire length of the vessel. This allows for a lower water level to be used during processing without causing pump cavitation. As a result, ~45%* less water volume required to be heated and cooled per process, reducing the load on both the boiler and the cooling system.

Principle

- Water is transferred into the manifold through specifically sized ports along the length of the manifold. Port opening size varies based on the distance of the port from the suction point.
- The water flows through the manifold to the suction points to be sent to the pump circuit
- The pump circuit returns the water to the retort via the spray pipe system and the water is recirculated through the manifold

Implementation



Benefits

- Process energy cost savings of ~\$20,800* per year, per retort (based on \$5,200 per 1000 cycles)
- Boiler water supply, filtering and treatment cost savings of ~\$1,000* per year, per retort (based on \$240 per 1000 cycles)
- Total cost savings of ~\$21,800* per year, per retort (based on \$5,450 per 1000 cycles)
- Passive; no maintenance required

*Note: Actual cost savings will depend on various factors such as:

- Number of Cycles Run
- Retort Size & Options
- Energy & Utility Costs

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ALSO REPRESENTING



Europe

John Bean Technologies SpA
Via Mantova 63/A
43122 Parma
Italy
Phone: +39 0521 908 411
Fax: +39 0521 460 897

John Bean Technologies Spain, S.L.U.
Autovia A-2, km 34,400
28805 Alcalá de Henares
Madrid, Spain
Phone: +34 91 304 0045
Fax: +34 91 327 5003

South America

John Bean Technologies
Máq. e Equip. Ind. Ltda.
Av. Eng Camilo Dinucci 4605
14808-900 Araraquara, São Paulo
Brazil
Phone: +55 16 3301 2000
Fax: +55 16 3301 2144

North America

John Bean Technologies Corporation
2300 Industrial Avenue
Madera CA 93639
USA
Phone: +1 559 661 3200
Fax: +1 559 661 3156

South America

John Bean Technologies Máq. e Equip. Ind. Ltda.
Av. Eng Camilo Dinucci 4605
14808-900 Araraquara, São Paulo
Brazil
Phone: +55 16 3301 2000
Fax: +55 16 3301 2144

Asia Pacific

John Bean Technologies (Thailand) Ltd.
No. 159/26 Serm-Mit Tower
Room no. 1602-3 Sukhumvit 21 Road
Klongtoey Nua Sub-district, Wattana District
Bangkok 10110 Thailand
Phone: +66 2 257 4000
Fax: +66 2 261 4099



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hello@jbt.com | jbtfoodtech.com

