



RAPID COOL DOWN SKIDS: THE RWS ONE RCD

Modular Process Skid for Safe, Gentle & Speedy Cool Down of Your Aseptic Surge Tanks After Sterilization

At RWS ONE, our mission is to be recognized as your trusted source for reliable sanitary processing, with our specialty being aseptic and ESL technology. Our years of experience have resulted in superior equipment designs for all of your aseptic and ESL processing needs. We understand the magnitude of PMO, 3A and all regulatory guidelines, and design our systems accordingly. We are experts in providing the right solutions for your aseptic processing. The RWS ONE rapid cooldown skid is part of our family of aseptic and ESL ready systems that are available as stand-alone units to complement existing installations, or as part of an RWS ONE supplied aseptic processing solution. The RWS ONE rapid cooldown skid offers many advantages to save time and energy. They are designed to put you back into production in the shortest amount of time.



The RWS ONE Rapid Cool Down Skid

RWS ONE designs, engineers, manufactures, and automates Rapid Cool Down Skids (RCD), which offer:

- ⦿ Reduced thermal shock during sterilization cool down.
- ⦿ Reduced temperatures on glycol return.
- ⦿ Significant increase in heat up speed for tank sterilization and CIP.
- ⦿ Superior condensate recovery compared to conventional applications.
- ⦿ Reduction in energy costs, as the RCD allows for use of tower water in place of glycol.
- ⦿ Saved time due to the elimination of thermal tank jacket evacuation.
- ⦿ Increased lifecycle of tank jacketing due to significant reduction in thermal shock loads.
- ⦿ Helps protect investments in tanks and related equipment.



ONE SOLUTION FOR PROCESSING SYSTEMS

Principles of Operation

The RWS ONE RCD is designed to create a layer of separation between heating and cooling mediums in the jacket of a sterile tank. This gives you control to speed up heating and cooling phases during sterilization, without the typical wear and tear that is typical in installations without a cool down buffer. The addition of this intermediate cooling system gives you the ability to pre-cool your tank, without any concern for abrupt and excess thermal load on your cooling system. In addition, the system is designed to maintain pressure on your cooling jacket during all phases of tank operation – perfect for open and closed loop cooling systems.

Automation & Control

As experts in automation, process instrumentation and control, all RWS ONE rapid cool down skids are supplied with your preferred, leading OEM technology based control platforms. Some examples include Ignition™, Factory Talk™ and Wonderware™.

Typical Installations & Benefit of Factory-Built Skidded Designs

At RWS ONE, we design and manufacture various modular process skids within our sterile family of products, utilizing superior OEM equipment. Because of the modular skid concept, we can offer fast lead times compared to site built systems, enhanced quality measures and cost savings that can amount to significant value for our customers. Our equipment can be tested at our factory for added assurance. RWS ONE family of satisfied customers throughout the USA have benefited from the RCD in many ways, including reduced energy consumption, faster time to sterilization, and added protection of large tank investments by reducing thermal shock. The popular RCD skid is installed in numerous sanitary processing facilities including dairy, beverage and wherever sterile tank storage is required. The RCD offers the processor many benefits including industry leading designs supported by expert automation capabilities and spare parts throughout the complete life cycle of the equipment.

