



ASPHALT PLANTS ANCILLARY

# WARM MIX ASPHALT SYSTEM



**Patented and field-proven, CMI Warm Mix Asphalt technology lowers mix temperatures, reduces emissions, improves mix flexibility and saves you money.**

Our simple single-point injection system lowers mix temperatures by up to 90° F (32.2° C), which can save producers up to 22% in fuel. Lower mix temperatures produce fewer emissions, which improves operating conditions for crew members and reduces the environmental impact and costs. The system more thoroughly coats aggregate, even when working with high RAP percentages, producing a mix that is workable for a longer period of time and can be hauled longer distances.

## THE FOAM ADVANTAGE

The CMI Warm Mix Asphalt system offers distinct advantages over chemical systems, including:

- No incremental per-ton costs—only the cost of water vs. \$3 to \$5/ton cost for additives
- No supply or storage issues as with additives
- Fewer moving parts – only the water pump motor, solenoid valves and water meter
- Decreased plant wear
- Single-point mixing
- Evenly coated aggregate, thanks to foamed asphalt that is produced just outside of the drum and injected into the drum’s mixing chamber
- Decreased fuel consumption

## BENEFITS

- Patented mixing chamber provides consistent AC/water mixing at any production rate
- Fast, easy installation into existing AC line
- Ability to fit any unitized mixing drum
- Higher percent RAP usage with standard AC grades
- Simple switch between producing hot mix and warm mix designs
- PLC control system to accurately control water injection and foam production
- High/low level switches ensure the water tank does not run empty
- Display showing water flow rate as both GPM and TPH
- Variable-frequency motor, high-accuracy water meter and calibration valve



### STANDARD COMPONENTS

PLC control system to accurately control AC-to-water mix ratio

Water tank skid includes 200-gal (757-l) tank, filter, 5 hp (3.73 kW) variable-frequency motor driving positive displacement water pump, high-accuracy water meter and calibration valve

Solenoid valves control flow of water and prevent reverse flow of AC into water line

Patented mixing chamber

Impulse II program

### OPTIONS

Automated water recirculation system – returns water to tank\*

### COMPONENT REQUIREMENTS

Water supply to tank skid for all control system applications

Control of digital and analog devices for applications not controlled by Impulse II or QMA systems

480 VAC breaker may be required for non-Impulse II control system applications

\*Available for counter-flow and parallel-flow drum mixers as well as various batch plant mixers



All reasonable steps have been taken to ensure the accuracy of this publication. However, due to our policy of continual product development, CMI Roadbuilding Inc. reserve the right to change details without prior notice. All machines supplied in accordance with our standard conditions. Illustrations and photos may show optional equipment. Standard Havens is a registered trademark of CMI Roadbuilding Limited in the United Kingdom, the European Union and Australia. All rights reserved. Copyright © CMI Roadbuilding Inc. 2023.