Trax Group

Allianceone Apparel
Ben Tre

Alliance One in southern Vietnam is our largest sportswear manufacturing site, producing up to 2.5 million units monthly with over 8,000 workers.

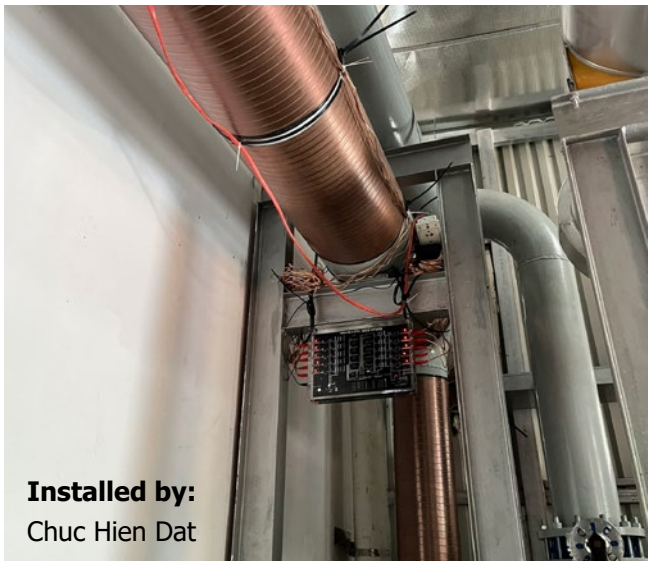
www.traxsportswear.com

INSTALLATION DETAILS

Location: Alliance One Apparel Company Limited in Ben Tre Province, Vietnam

Vulcan Model: **3 units of Vulcan S500 Anti-Scale Systems** installed on the cooling water header pipes supplying the chillers at factories F1, F2, and F3.

Purpose: Prevent new scale deposits in the chiller condenser system. Reduce maintenance and periodic cleaning costs. Replace chemical dosing systems for scale inhibition. Maintain stable condenser approach temperatures and improve cooling system performance.



Installed by:
Chuc Hien Dat

BEFORE

Chiller 1 - Before F3 test
Water Inlet/Outlet: 32.6 / 36.9 °C
Condenser Approach: 3.3 °C
Load: 86%

Chiller 2 - Before F3 test
Water Inlet/Outlet: 37.4 / 41.2 °C
Condenser Approach: 3.8 °C
Load: 93%

Chiller 1 - F1 in 2026
Water Inlet/Outlet: 32.9 / 37.3 °C
Condenser Approach: 3 °C
Load: 97 %

Chiller 2 - F1 in 2026
Water Inlet/Outlet: 30.9 / 37.3 °C
Condenser Approach: 1,6 °C
Load: 92 %

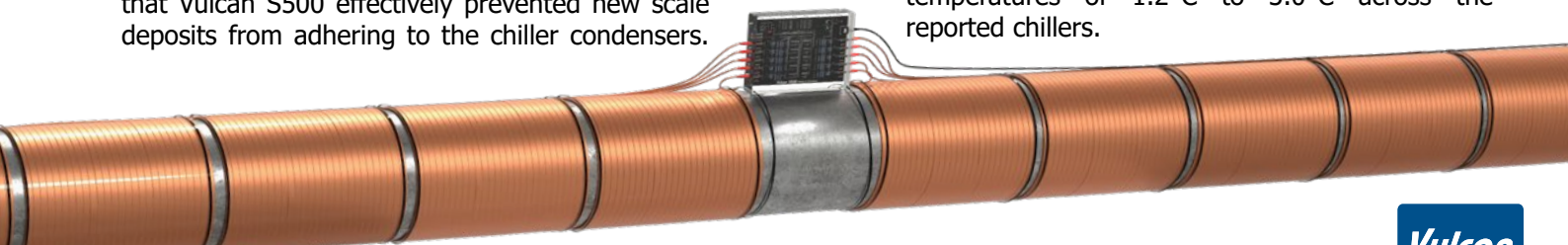
AFTER

Chiller 1 - After F3 test
Water Inlet/Outlet: 34.1 / 37.5 °C
Condenser Approach: 3.4 °C
Load: 78.4 %

Chiller 2 - After F3 test
Water Inlet/Outlet: 31.2 / 34.3 °C
Condenser Approach: 3.3 °C
Load: 81 %

Chiller 1 - F3 in 2026
Water Inlet/Outlet: 30.9 / 36.8 °C
Condenser Approach: 1.2 °C
Load: 84.4%

Chiller 1 - F2 in 2026
Water Inlet/Outlet: 30.9 / 37.3 °C
Condenser Approach: 2.7 °C
Load: 97%

RESULTS

- Reduced chemical consumption: No scale inhibitor chemicals were needed in the cooling tower water lines during the two months testing period.
- Reduced maintenance: No condenser cleaning was required during the two-month test at factory F3.
- Effective scale prevention: The customer confirmed that Vulcan S500 effectively prevented new scale deposits from adhering to the chiller condensers.
- Stable performance: Condenser approach temperatures remained stable during the initial testing period.
- Long-term operation: Measurements recorded in May 2026, approximately two years after the first installation, showed condenser approach temperatures of 1.2°C to 3.0°C across the reported chillers.