



THE MCCLEAN SYSTEM

Zero Ball Lose Technology
 No Water Discharge Technology
 Automatic Tube Cleaning System

INTRODUCTION

Hydroball Technics (SEA) Pte. Ltd. was established in 2003 under the Directorship of Mr. Renny Yeo & Mr. Peter Soh. We are a key player in a fast-growing energy-efficiency products and services industry with distributors and customers locally and internationally. We received the Innovator Award in 2004 from THE ENTERPRISE CHALLENGE (TEC) under the Prime Minister's Office. We are engaged in the generation of intellectual properties related to efficient industrial water cooling and energy conservation in chillers and large process plants using water-cooled shell-and-tube heat exchangers. Now we are launched our new ATC product-McClean System, which comes with Zero-Ball-Lose Technology and No-Water-Discharge Technology, we aim to deliver practical resource conservation solutions with short payback periods.



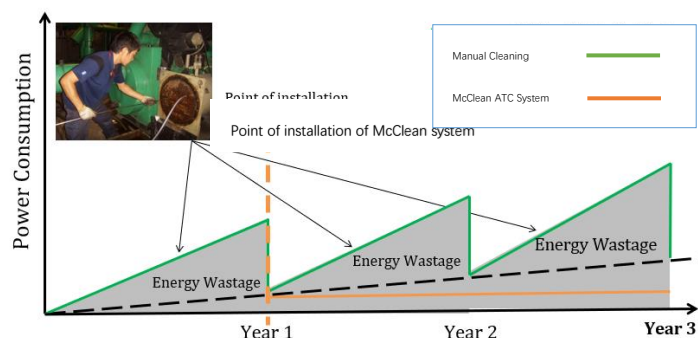
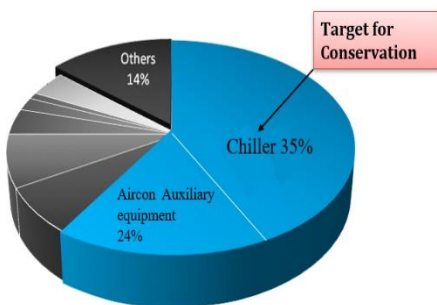
THE PROBLEM WITH HVAC/ACMV SYSTEM

During aeration in the cooling tower, cooling water picks up airborne particles such as dust, soot and microbes. The bacteria, viruses and algae will reproduce in the cooling tower tank. Besides, the high temperature heat transfer process transforms the airborne particles and soluble salts into scales which clog up the condenser inner tubes.



CHILLERS USE AT LEAST 35% OF ENERGY CONSUMPTION

Fouling can be very costly since it directly results in increased electricity consumption, interrupted operation, and increased maintenance costs.

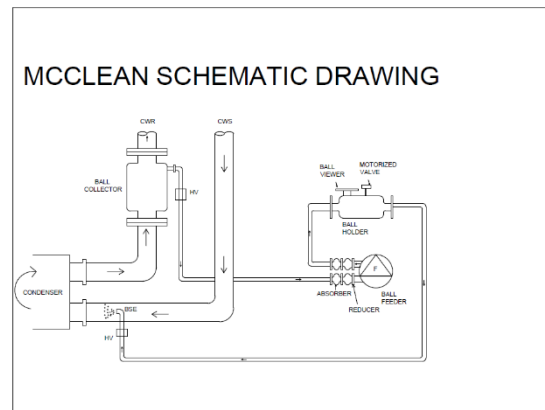


Chillers use about 35% of total energy in a building

MCCLEAN SYSTEM

McClean System is the perfect cost-effective solution that eliminates equipment downtime and optimizes energy utilization of water-cooled heat exchangers (including chillers) by automatically keeping heat exchanger tubes perpetually free from effects of scaling and particulate fouling. This ensures optimal heat exchange efficiency, contributing to prevention of unnecessary energy loss and lower cost of operation.

- 1) Low cost-of-use, including cost of replacing cleaning medium
- 2) Negligible head loss to the cooling water system to prevent incurring extra load on the cooling water pump
- 3) Made of materials that can withstand corrosion
- 4) The procedure to replace the cleaning medium passing through the condenser tubes is simple and fast
- 5) No loss of chemically treated cooling water during normal operation
- 6) Suitable for the operating pressure of the cooling water system
- 7) Easy of installation
- 8) No Loss of Water, No discharge of water after each cleaning cycle.
- 9) Effective Against Particulate Fouling, Particulate fouling can be very rapid in a dusty environment.
- 10) Energy Saving, Particulate Scaling & fouling if not mitigated, can increase the chiller energy consumption by more than 20%. McClean system prevents scaling and fouling at all times.
- 11) Reliable Performance, McClean Technics provides a reliable maintenance programme to ensure no uptrend in CAT readings.
- 12) Ease of Installation & Maintenance



OUR CLIENTS



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