TOSHIBA

CASE STUDY 3

MECHANICAL ENGINEERING SUPPLIER

By using the USX, more than 50% of the operating costs could be saved.

Project Period
December 2016

Installed Units
- Air-cooled heat pump „Universal Smart X“ (USX)
- “Super Digital Inverter“ (SDI)

PROBLEM STATEMENT

The customer is a parts manufacturer of industrial machinery. The customer‘s original gas absorption chiller, after nearly 20 years of operation, needed to be replaced to save energy, easily control temperature and reduce operating costs.

SOLUTION

To meet the customer‘s needs, TOSHIBA recommended replacing the original absorption chiller with the air-cooled Universal Smart X heat pump chiller (USX). The USX reduced running costs through high-efficiency operation and provided risk diversification with a backup for each module.

Gas Absorption Chiller

Universal Smart X

Split Air Conditioning System

Super Digital Inverter

Gas Absorption Chiller

Universal Smart X

old split airconditioning system

Super Digital Inverter

ADVANTAGES

Replacement with high-efficiency chiller brought energy savings and large reduction in operating costs.

1. The system installation costs were reduced.
2. 54.6% energy saving rate compared to gas.
3. Simple and reliable system operation.

CUSTOMER‘S OPINION

Universal Smart X offered us cost reduction for maintenance and operation, lower environmental impact and higher comfort.