

Certification Test



How To Use Yaskawa's Energy Savings Predictor
TRM800-Z1000-ESP (eLM.Z1000.01.ESP)

Taking the Certification Test

The Energy Savings Predictor Software is needed to take this test. Please record all changes on this answer sheet and attach ESP Report.

A passing score is 100%.

Returning the Certification Test

Option 1: Fax this page to **Yaskawa Technical Training Services** at (847) 887-7185.

Option 2: E-mail the answers and **all** contact info below to training@yaskawa.com.

Receiving Your Score

You may review your answers only if a passing score is received. When the test is taken during class, you will receive your score as soon as it can be graded. When taken as a CLEP test or pre-requisite enrollment test, contact Technical Training Services via email or phone to receive your score.

Contact Information:

Name: _____ Title: _____

Company: _____ Email: _____

Address: _____

Phone Number: _____ Fax number: _____

Supervisor's Name/ Title: _____

Name of Yaskawa Rep: _____

Test Date: _____

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Please start a new ESP project and create a new Multiple System to solve this problem.

Jon Doe a Maintenance Manager at the local Chicago School District is interested in Saving Energy and has heard that VFDs can save money. Create a report for Jon. Enter customer information and add contact information (Remember this show up on your final report). His utility company is Chicago Electric and charges Base Rate of \$.07 per kW and has no Alternative Rate or demand charge. Jon has two fans with inlet guide vanes for flow control. The motors are 10 Hp, 30.7 Amp, 208V, with an efficiency of 91.5%. He likes the Z1000 HVAC drive that Yaskawa offers. These fans run all year around. The fans run at 80% flow 70% of the time. Jon sometimes prefers a lower flow rate of 60%.

Jon also has a pump that uses a bypass valve for flow control. This pump uses a 15 Hp, 480V, 20.2 Amp, and 91.5 % efficient motor that runs 10 hours a day all year around. This pump runs at 90%, 80%, 70%, 60%, 50% flow at a time of 20%, 30%, 20%, 20%, 10%.

What would Jon's Payback Estimation and Energy Saved be if he chooses to use VFD's in his school?