

Zastúpenie Emotron v SR:

VENIO, s.r.o.
Karmínová 3
010 03 Žilina
Slovenská republika

To: Prvá chladiarenská
vedúci prevádzky
Hlavná ulica
824 00 Bratislava
Slovensko

Prepared by: VENIO, s.r.o.
www.venio.sk
e-mail: venio@venio.sk
tel: +421 949 130 270

Pump Application

Project Name: Ovládanie čerpadla frekvencnym menicom

Total Annual Hours of Operation: 8 736 Hours

Duty Cycle

Operation / Motor / VSD Data

<u>% Flow</u>	<u>Time (Hrs)</u>	<u>Time (%)</u>
100%	0.0 Hrs	0 %
90%	873.6 Hrs	10 %
80%	2 184.0 Hrs	25 %
70%	2 184.0 Hrs	25 %
60%	3 494.4 Hrs	40 %
50%	0.0 Hrs	0 %
40%	0.0 Hrs	0 %
30%	0.0 Hrs	0 %
20%	0.0 Hrs	0 %
10%	0.0 Hrs	0 %

Cost per kWh:	€ 0.10
Motor Power:	45.0 kW
Motor Efficiency:	96.0 %
Drive Efficiency:	97.0 %
Power Company Incentive:	0.0 €/kW
Variable Speed Drive Cost:	€ 4 000

Annual Energy Cost per Control Method

Variable Speed Drive	€ 15 772
Throttling Valve Control	€ 34 379
No Speed Control	€ 41 063

Payback Time of Variable Speed Drive:

Versus No Speed Control	0.158 Years
Versus Throttling Valve Control	0.215 Years

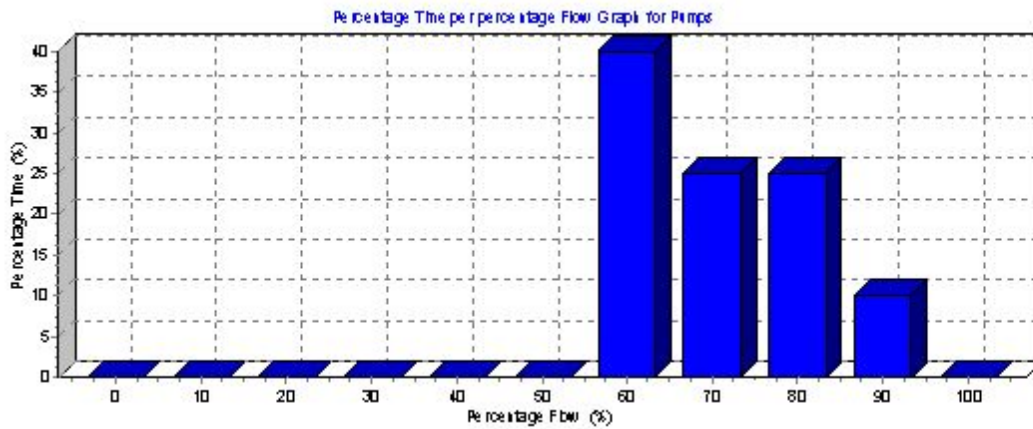
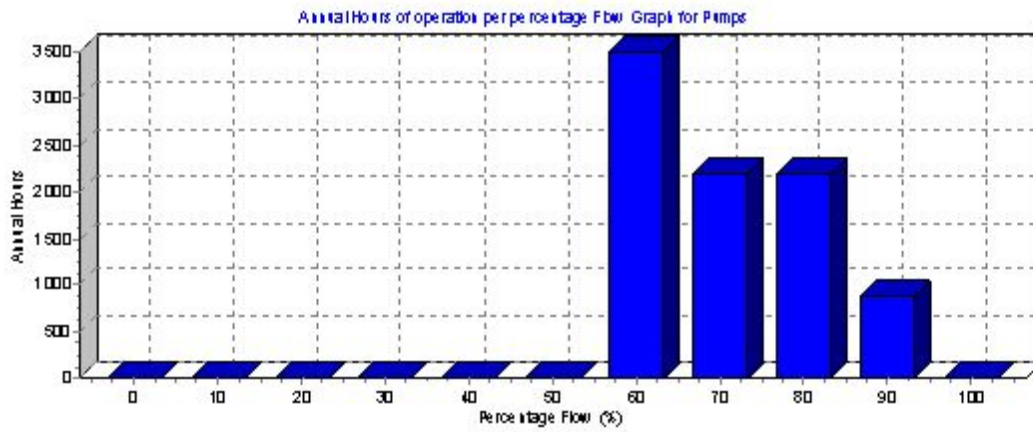
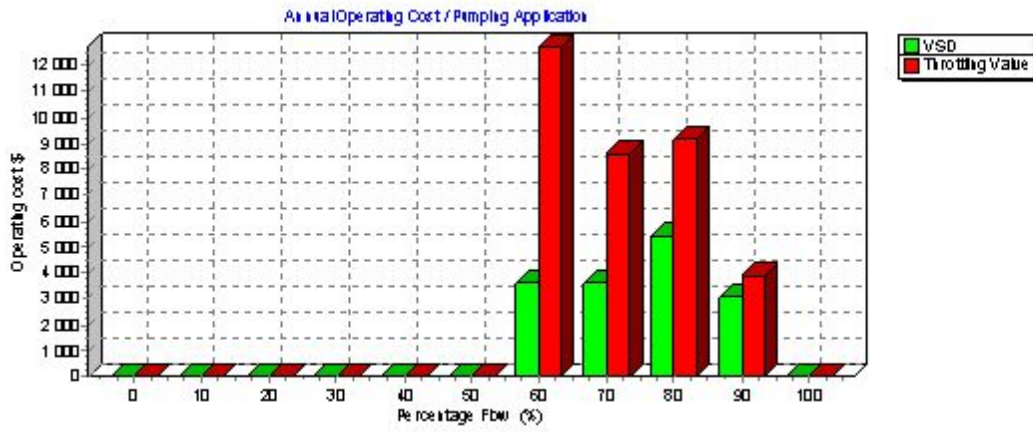
Annual Energy Savings with Variable Speed Drive

Versus No Speed Control	€ 25 290
Versus Throttling Valve Control	€ 18 606

Includes Company Incentive

Page: 1

Emotron Energy Saving Calculator



Emotron Energy Saving Calculator

This Energy Saving Calculation is based on available data, we assume no responsibility for the accuracy of the supplied data on this report.