



Sustainable Optimization Pump Report



RETURN ON INVESTMENT

42.88 o/o

ENERGY SAVINGS PER YEAR

€1.929,40

PAYBACK TIME

2.33 years

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Please note that the calculations and analysis made in this Sustainable Optimization report are based on information and data which is not originating directly from Alfa Laval. Alfa Laval cannot verify the contents of this report and it is intended as general information on potential optimizations only. The information and data in the report shall not be construed as an express or implied warranty or guarantee and shall be relied upon entirely at the customer's own risk.

INTRODUCTION

The purpose of the Alfa Laval Sustainable Optimization report is to present optimization possibilities on the specified equipment. This report will give estimations on economic improvements based on investment and cost operation numbers.

On the following pages you will see an analysis of the agreed equipment.

Alfa Laval provides complete assistance to realize the estimated savings, and we also provide other services, from installation to maintenance and spare parts.

For further information, please contact:

SKS 

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OPERATION PARAMETERS

The calculations are based on these settings

PROJECT NAME	Pump comparison
ITEM NAME	Compare Solid-c vs. LKH
TAG REFERENCE	
FLOW RATE	35
HEAD	40
OPERATING HOURS PER DAY	15.0000
OPERATING DAYS PER YEAR	300
OPERATING HOURS PER YEAR	4500
LIFETIME IN YEARS	10
COUNTRY	Netherlands
ELECTRICITY COST	0.2100
CO2 EMISSION PER KWH	0.5452

EQUIPMENT PROFILES

The calculations are based on these settings

	PUMP 1	PUMP2
MODEL NAME	LKH-20	SolidC-2
PUMP EFFICIENCY TYPE	IEC50HzIE3@50Hz	IEC50HzIE3@50Hz
MOTOR SIZE	2 poles, 50 Hz, 7,5kW	2 poles, 50 Hz, 7,5kW
MOTOR ABSORBED POWER PER UNIT	5.5000	7.2800
LIST PRICE PER UNIT	13000.00	8500.00
DISCOUNT	0.0000	0.0000
NET PRICE PER UNIT	13000.00	8500.00
ADDITIONAL INVESTMENT COSTS	0.00	0.00
ADDITIONAL RUNNING COSTS	0.00	0.00
ADDITIONAL INVESTMENT COSTS NOTES		

ANALYSIS WIZARD

Below you see the comparison between the equipments profiles

	PUMP 1	PUMP2
MOTOR SIZE	2 poles, 50 Hz, 7,5kW	2 poles, 50 Hz, 7,5kW
NET PRICE EXCL. ADD'L INVESTMENT COSTS	€13.000,00	€8.500,00
ADDITIONAL INVESTMENT COSTS	€0,00	€0,00
ADDITIONAL RUNNING COST PER HOUR	€0,00	€0,00
TOTAL INVESTMENT COST	€13.000,00	€8.500,00
TOTAL OPERATING COST	€5.655,60	€7.585,01
ELECTRICAL ENERGY COST PER YEAR	€5.655,60	€7.585,01
ELECTRICAL ENERGY COST DURING LIFETIME	€56.556,04	€75.850,06
CO2 EMISSION PER YEAR	14683	19692
CO2 EMISSION DURING LIFETIME	146830	196921

ANALYSIS OUTPUT

Below you see the comparison between the equipments profiles

	LKH-20	SOLIDC-2	LKH-20 VS. SOLIDC-2 SAVINGS
INVESTMENT COSTS	€13.000,00	€8.500,00	-€4.500,00
ANNUAL OPERATIONAL COSTS	€5.655,60	€7.585,01	€1.929,40
ENERGY COSTS	€5.655,60	€7.585,01	€1.929,40
CO2 EMISSIONS	14683.03	19692.12	5009.09
TCO	€69.556,04	€84.350,06	€14.794,02
ROI			42.88%
PAYBACK			2.33 years

RETURN ON INVESTMENT

