



**INSTALLER**

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**SUMMARY**

*Together, we have gone through the building conditions in order to select and size the most efficient heat pump solution based on your circumstances. The calculations are based on both facts and assumptions which means that small deviations from the final installation can occur.*

*Please give me a call if you have further questions or visit [www.nibe.se](http://www.nibe.se) to find out more about NIBE's heat pump solutions.*

Best regards  
NIBE Installer

**BUILDING PERFORMANCE**

Energy need for heating	20601 kWh/year
- of which is hotwater	4258 kWh/year
Maintenance energy	472 kWh/year
Power demand	9,5 kW

**BEFORE HP INSTALLATION**

Energy to purchase -Electricity	21073 kWh/year
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**AFTER HEATPUMP INSTALLED**

Energy to purchase -Electricity	6675 kWh/year
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**SAVINGS**

<b>Energy savings</b>	<b>14398 kWh/year</b>
CO2 savings	1275 kg/year

**CLIMATE CONDITIONS**

Annual mean temperature	10,6 °C
Design outdoor temperature	-15,0 °C

**BUILDING CONDITIONS**

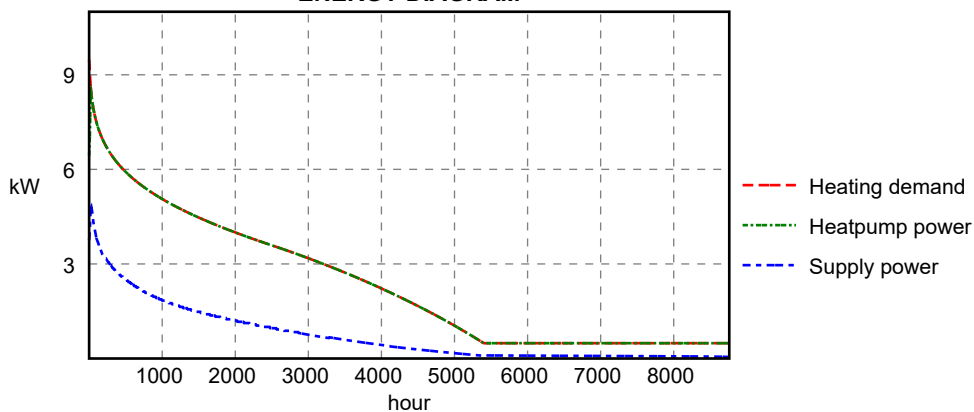
Room temperature	23,0 °C
Heating need stops at	17,0 °C
Supply temperature at DOT	55 °C
Return temperature at DOT	45 °C

**HEATPUMP PERFORMANCE WITH  
-NIBE SPLIT AMS10-12 (25A)**

Energy delivered	20547 kWh/year
Energy supplied	6384 kWh/year
Supplementary energy, total	54 kWh/year
Energy for heating circulation pump	236 kWh/year
Energy coverage	100 %
Annual heating factor, net	3,2
Annual heating factor, total	3,1
Fixed or floating condensing	Floating
Heat capacity at DOT	6,4 kW
Power input at DOT	3,8 kW
Recommended supplementary power	3,1 kW
Power coverage	68 %

CUSTOMER

**ENERGY DIAGRAM**



## CONDITIONS

The estimate is based on the enclosed energy calculation and the following conditions



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## HEAT PUMP INVESTMENT

Capital cost	35 000	RON
Loan amount	0	RON
Terms of loan	0	years
Interest rate	0,0	%
Yearly maintenance cost	300	RON

## ENERGY PRICES BEFORE HEATPUMP INSTALLATION

Electricity	0,65	RON/kWh
Fixed charge, yearly	0	RON
Yearly cost of maintenance, estimated	300	RON

## ENERGY PRICES AFTER HEATPUMP INSTALLATION

Electricity	0,65	RON/kWh
Fixed charge, yearly	0	RON
Yearly cost of maintenance, estimated	300	RON

## ENERGY CONSUMPTION

## BEFORE HP INSTALLATION

Energy to purchase -Electricity	21073	kWh
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## AFTER HEATPUMP INSTALLED

Energy to purchase -Electricity	6675	kWh
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## ENERGY COSTS, FIRST YEAR

## ENERGY COSTS BEFORE HEATPUMP INSTALLATION

Energy cost	13 391	RON
Maintenance cost	300	RON
Fixed charge	0	RON
Total costs	13 691	RON

## ENERGY COSTS AFTER HEATPUMP INSTALLATION

Energy cost	4 339	RON
Maintenance cost	300	RON
Fixed charge	0	RON
Total costs	4 639	RON

## SAVINGS, FIRST YEAR

Savings, energy	9 052	RON
Savings, maintenance	0	RON
Savings, fixed charge	0	RON
Total savings	9 052	RON

## FINANCIAL COSTS

Average yearly cost of loan	0	RON
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## PAYBACK

Payback time	3,9	years
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The economy summary outcome is dependent on a number of assumptions such as the power rate etc. and should only be seen as a prognosis.