

Project : 1
number
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Preliminary estimate for a heat pump EXCELLIA MONO 11



Reference : MONI EN TI OLYMPO 80m2
Demander name : GEORGE GEORGIADIS

M, Mrs,

Please find here below the project referenced :

- Summury of initial assumptions
- Heat pump choice
- Estimation of the heating/cooling floor
- Energies consumption and comparison
- Summary on warranties and tax reductions
- Price and options chosen

Do not hesitate to contact us for any further information you may need. Sincerely yours
MBH

NB :

1 - Assumptions

Region	IOANNINA (45221)
Altitude	Entre 801 et 900
Grand floor heated by the heat pump	80 m ²
Ceiling height of the grand floor	3 m
Grand floor application	Radiateurs 60 °C

2 - Thermal estimation of your project

Outside sizing temperature : **-12°C**

Estimated heat loss : **11000 W**

Heat pump required output : **13200 W**

Dimensioning rate required : **1.2**

1.2 x Heat loss - 6000 W de l'appoint intégré

Hydroning schematics reference : 1-AEM-R0

3 - Heat pump

Heat Pump range generator ALFÉA EXCELLIA MONO

Reference : **EXCELLIA MONO 11**

Product reference : **522 863**



Output of the heatpump at sizing temperature : **8942 W**

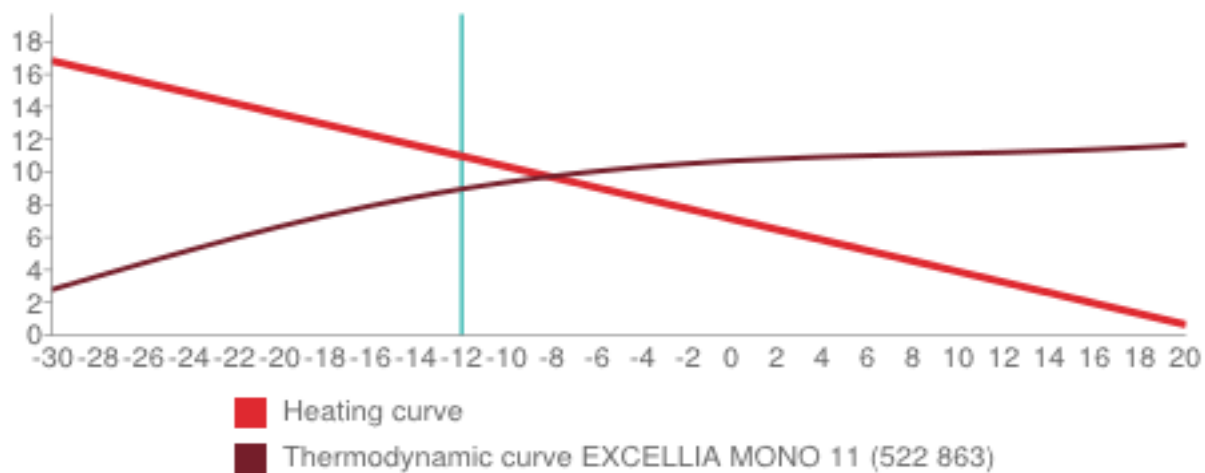
Absorbed output by the heat pump at sizing temperature : **7238 W**

Back up heating element output integrated in the calculation : **6000 W**

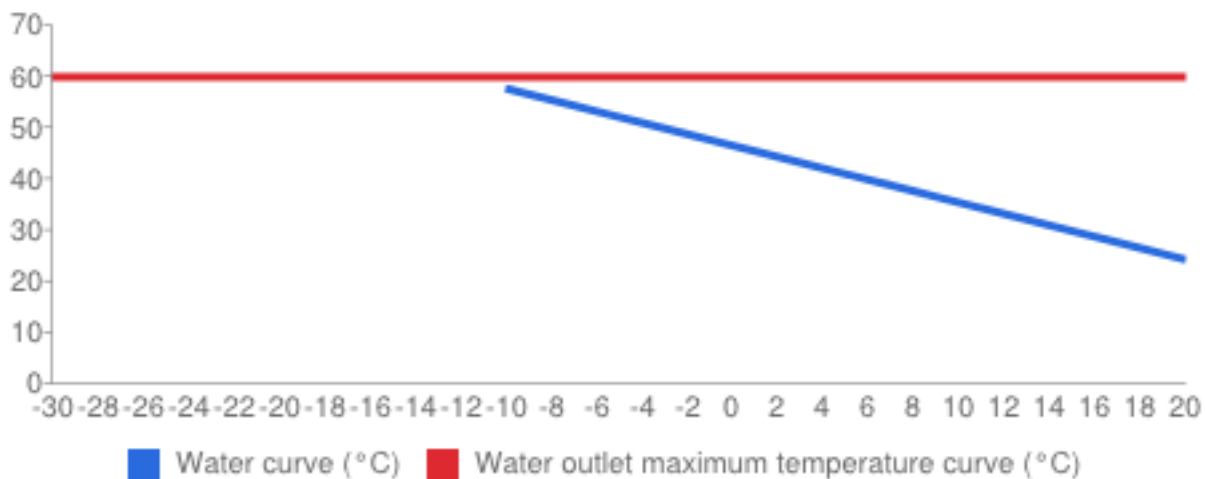
Nominal output of the back up heating element : **6000 W**

Effective dimensioning rate : **1.2**

Heat loss curves without over output coefficients (kW)



Water curve and water outlet maximum temperature curve



4 - Accessories

Traceur fond de bac 809 644

Mise en service Alfea

T55 073 951

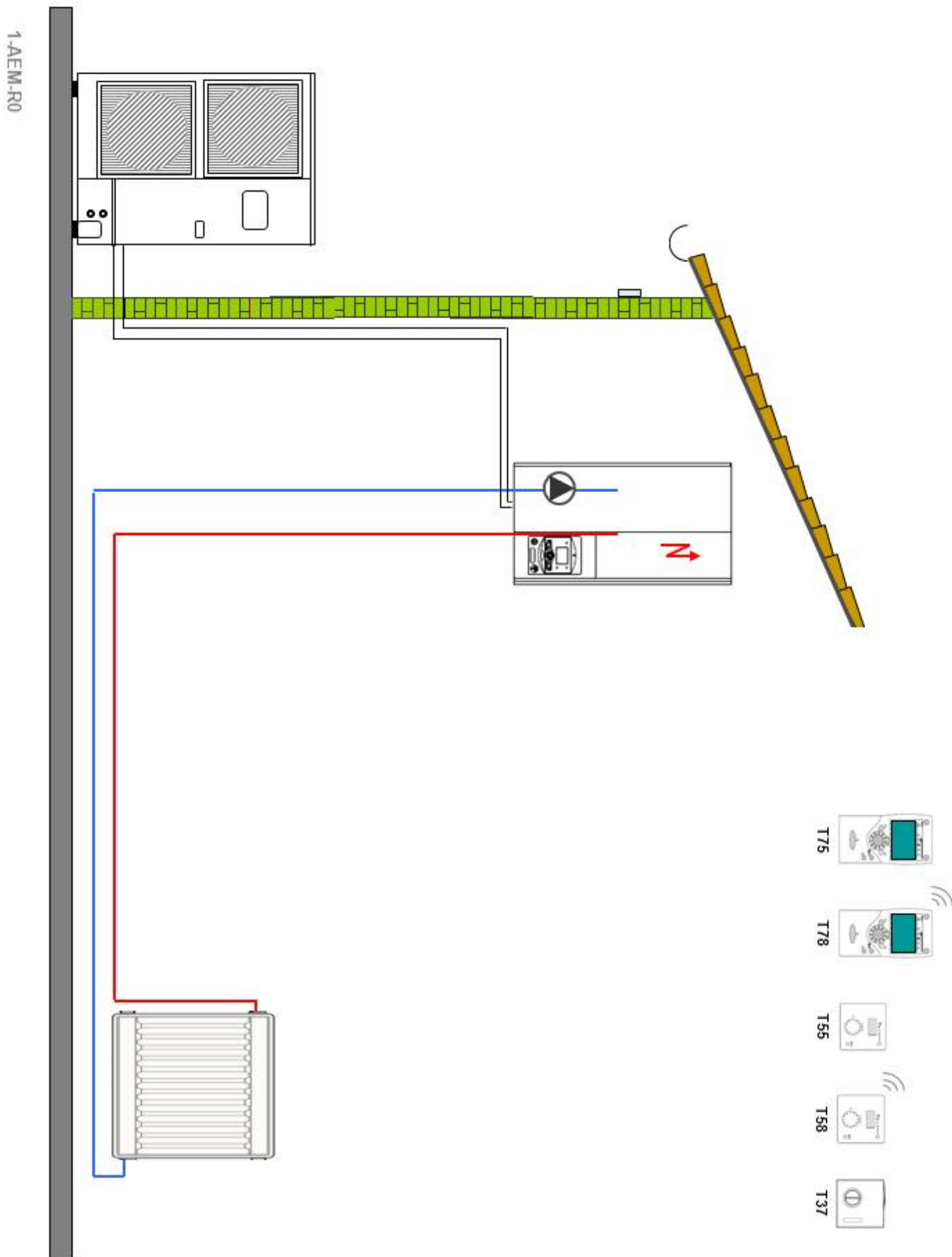
APPOINT 6kW 230 V 073 985

SUPPORT SOL 450mm (par 2) 809 532

BOUCHONS SUPPORT SOL (par 4) 809 540

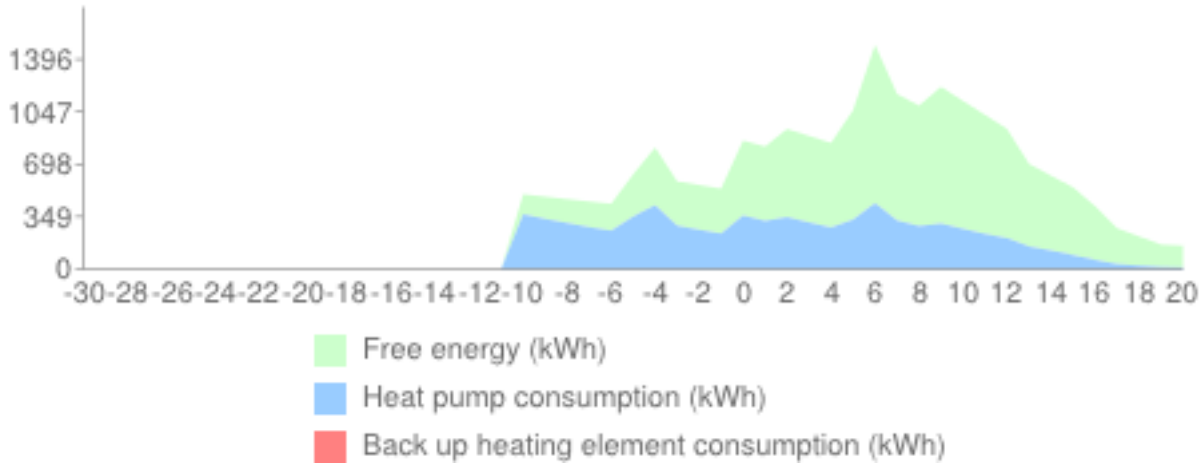
KM1 5M 5/8-3/8 809 565

Schéma hydraulique de principe.

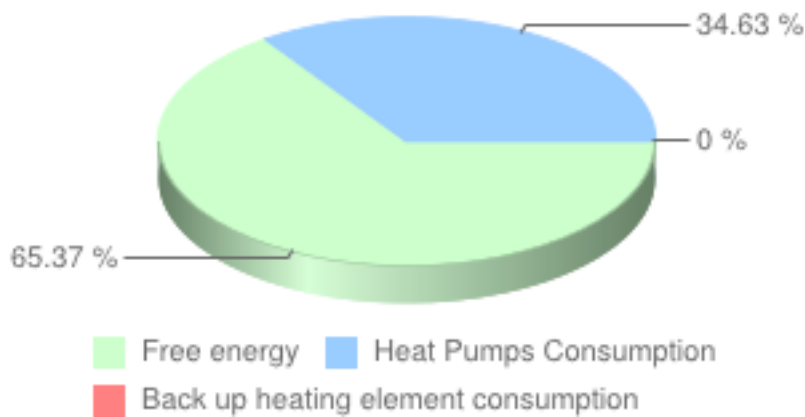


5 - Consumptions estimation

Annual consumption in relation to the outside temperature



Energy distribution



Region : **IOANNINA (45221)**

Weather station : **IOANNINA**

Sizing temperature : **-12°C**

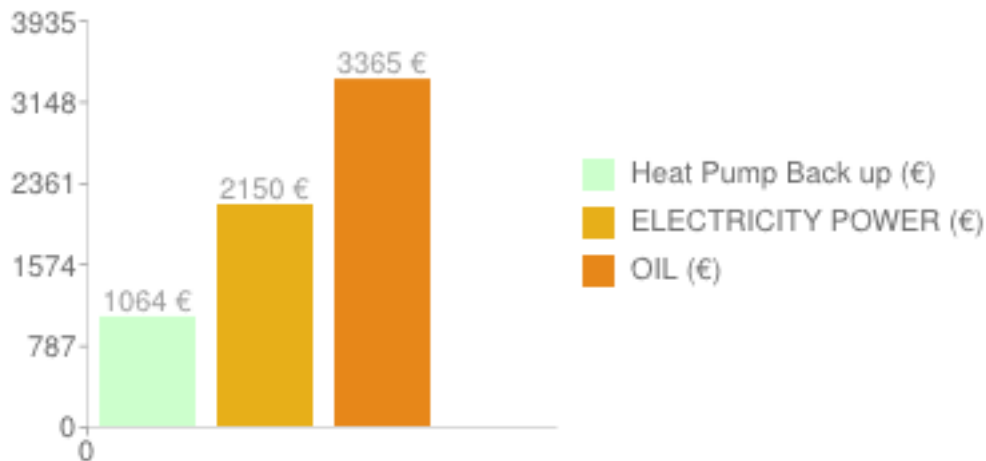
Estimated annual back up heating element cost : **0,00 €**

Estimated annual heat pump cost : **1 063,86 €**

Estimated annual heating cost : **1 063,86 €**

The information hereunder related to the energy consumption is based on the data given by the customer and is provided as an estimation. The responsibility of Atlantic couldn't be engaged in case of deviation of the figures observed compared to this estimation

Energy comparison

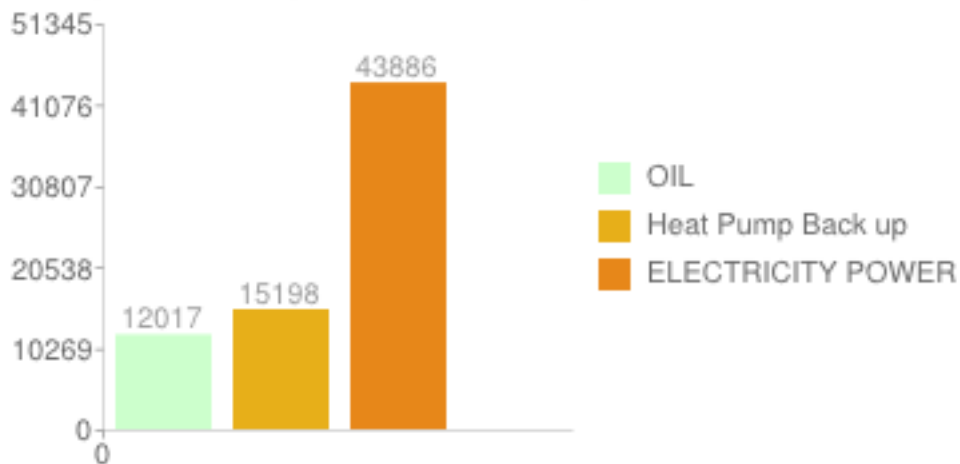


Average energy costs

0,1400 €/KWh in ELECTRICITY POWER

0,1400 €/KWh in OIL

CO₂ (kgCO₂/kWh_{ep}) emissions comparison



Sources :

Aides ANAH :

TVA réduite à 5,5% pour les travaux d'amélioration de l'habitat :

Prêt à taux zéro :

Garantie

For complete warranty conditions please contact the Atlantic representative in your country.

6 - Quotation

Designation	Reference	Code	Public price without VAT
Generator			
Heat pump	EXCELLIA MONO 11	522 863	5 875,00 €
Accessories			
	Traceur fond de bac	809 644	111,00 €
	Mise en service Alfea		0,00 €
	T55	073 951	104,00 €
	APPOINT 6kW 230 V	073 985	403,00 €
	SUPPORT SOL 450mm (par 2)	809 532	0,00 €
	BOUCHONS SUPPORT SOL (par 4)	809 540	0,00 €
	KM1 5M 5/8-3/8	809 565	0,00 €
Total without VAT			6 493,00 €
Total with VAT (TVA à 23%)			7 986,39 €

This quotation is based on the information given by the customer and has strictly estimative value. It can not be considered as thermal study or be a substitute to a complete engineering report.

Les spécifications et les prix sont soumis au changement sans préavis.

Quotation on public price without VAT. Might be modified according to the valid pricelist.

Not included in the present quotation

- * Heating emitters
- * Tools required for the system installation
- * Electrical accesories (circuit breakers, cables...)
- * Handiwork

Order processing: address