

## **Geothermal Product Assembly Line**

### **Heating & Cooling Pump Factory**

- **Fully automated production plant in Georgia**
- **April 27, 2011**
- **By Acceleratum LLC**

## Summary of the Planned Factory

The plan is to build an assembly line for geothermal heating and cooling systems in Georgia.

The factory output capacity is planned to be 300 units a day increasing the volume rapidly up to 1,000 units a day;

Plant size: 11,000 sqm land 50,000 sqm (expansion area included);

On pay roll estimated 100 in two shifts (16hrs daily operation);

The average price of unit: €200;

Turn over at full capacity: €60 million a year;

Operational margin (50%) or €30 million a year; and

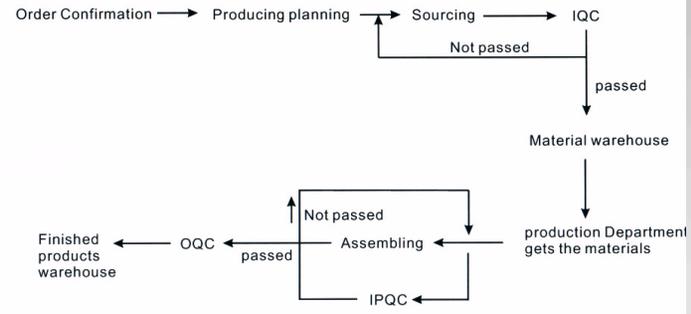
Total Investment: €100 million excluding any subsidies and grants.



Example of a factory only – not related to geothermal factory

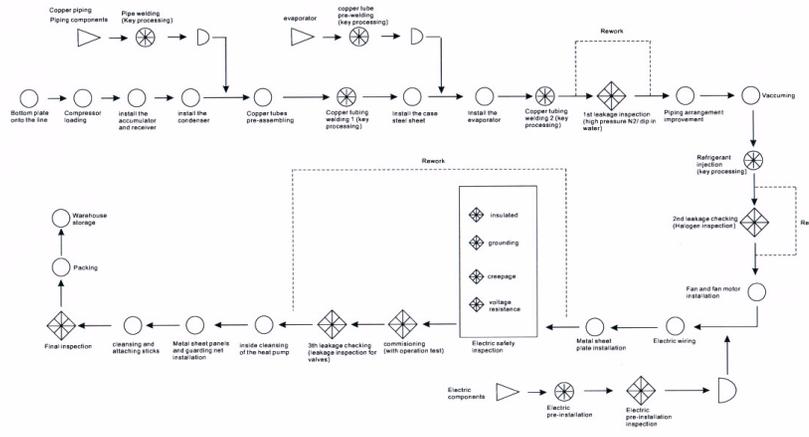
# General Process Operation of the Plant

## Supply Chain Summary



# General Technical Description of the Assembly Line

## Heat Pump Assembly



### Summary of Investment and Use of Cash\*

Land	TBD
Infrastructure	10M€
Building	10M€
Production line(s)	80M€
Planning and design including pre-study and feasibility	11,5M€
Subsidies and grants	10M€
Total Investment ~	100M€
Financing:	Equity: 35% Debt 65%

**Estimates Only\***

## **Project Lead Team**

Kari Innala (Civil Eng.) (Geothermal Products and Production Line)

Minna LeVine (Project Coordinator, Atlanta)

Fredrik Pressler (Alternative Energy Project Manager)

Glenn Potrykus (Project Coordinator EU)

Calvin Tan (Civil Eng.) Geothermal Material Expert