



Electro Mechanical Works LLC

*Vacuum*

*Insulation Panel*

## 'AWE GOOT' 'Vacuum Insulation Panel' (VIP):

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Vacuum Insulation Panels are made by sealing the thermal insulation in a barrier film under vacuum. The barrier film is formed into a pouch and the panel inserted inside, it is then evacuated and sealed.

VIP is of very low thermal conductivity because it can effectively prevent heat transfer caused by air convection. It is by far the most effective insulation material in the world and used for insulation of: LNG storage and transportation tanks, refrigerators, cooling rooms, deep freezers, sub-zero storage boxes, vending machines and so on.

### Physical Properties of 'VIP's

<b>Thermal Conductivity</b>	---	<b>&lt;0.004w/m.k (20°c)</b>
<b>Working Temperature</b>	---	<b>-150° to 130°c</b>
<b>Overall Density</b>	---	<b>240 ~ 314 kg/m<sup>3</sup></b>
<b>Compressive Strength</b>	---	<b>0.14 ~ 0.25 Mpa</b>



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### **Additional Specifications of 'VIP's:**

- **Maximum size: 1700mm (Length) x 800mm (Width).**
- **Thickness range: 5mm to 35mm.**
- **Film structure: PA / MPET / AL / PA / PE.**
- **Core material: Ultrafine fiberglass (diameter 2 - 5 $\mu$ m).**
- **Internal vacuum:  $\leq 1$ Pa.**
- **Packing: Paper carton with air bubble film.**



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## 'VIP' Applications:

- Refrigerated Road Transport.
- Temperature Controlled Containers.
- Marine Cargo Freezer Holds.



- Medical Storage.
- Refrigerators.
- Coolboxes etc.



# Numerical Control Vertical / Horizontal Cutting Machine

## Specification:

- Max Foam Length - 4050mm.
- Max Foam Width - 1300mm.
- Max Foam Height - 1200mm.
- Max Cutting Speed - 3.0m / min.
- Cutting Tolerance - 1.0mm.
- Machine Length - 8800mm.
- Machine Width - 2450cm.
- Machine Height - 3300mm.
- Wire Length - 6900mm.
- Power - 380v – 7.0KW.



Cutting Wire

# Production Line Machine for Pre-insulated Composite Panel

## Specification:

- Max Width of Panel - 1200mm.
- **Max Thickness of Panel - 15-200mm.**
- Max Length of Panel - As required.
- Production Speed - 2 – 5m / min.
- **Machine Total Length - 5000cm.**
- Total Power - 75KW.

## Control Method

**Controlled by computer and 24 hour continual production.**

## Scope of Application

Producing Phenolic Foam (PF) Aluminium Foil Composite Panel, PF **Coloured**  
**Steel / Zinc-coated Steel Composite Panel and other non-metal Composite Panels.**



# Computer Controlled Vertical / Horizontal Cutting Machine

## Specification:

- Max Foam Length - 2100mm.
- Max Foam Width - 1300mm.
- Max Foam Height - 1200mm.
- Max Cutting Speed - 2.0m / min.
- Cutting Tolerance - 1.0mm.
- Machine Length - 3800mm.
- Machine Width - 2450cm.
- Machine Height - 3300mm.
- Wire Length - 6900mm.
- Power - 380v – 7.5KW.





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