

### Turbomolecular Pumps: A Brief Overview

Turbomolecular pumps are high-vacuum pumps that use a series of rapidly rotating blades to create a high-speed molecular flow, which efficiently removes gases from a vacuum chamber. They are widely used in various applications, including semiconductor manufacturing, research and development, and analytical instrumentation, due to their ability to achieve extremely low pressures.

### How AVE Can Help Choose the Right Pump

At AVE, we specialise in providing tailored vacuum solutions to meet the unique needs of our customers. Our team of experts can assist you in selecting the most suitable turbomolecular pump for your application and ensure compatibility with our AVE ultra-high vacuum chambers.

### Customer request form:

Please answer the following and send your enquiry as an attachment to [Sales@appliedvacuum.co.uk](mailto:Sales@appliedvacuum.co.uk), a member of our design engineers shall be in touch.

### Application:

- What process will your vacuum environment be enabling?
- What ultimate vacuum level does your process require?
- Please list any gasses which may be involved or produced as a byproduct of your process:

### Performance Requirements:

- How large is the vacuum environment you are evacuating?
- What is the desired pumping speed (volume of gas moved per unit time) for your application or desired pump down time (minutes: hours)?

### Environmental Conditions:

- Where will the vacuum pump be located (e.g., indoors, outdoors, hazardous environment)?
- Is there a specific temperature range the pump needs to operate in?
- Will the pump be exposed to any dust, moisture, or other contaminants?

### Additional Questions:

- Do you have a preference for a specific brand or model of vacuum pump?
- Do you have a timeline for when you need the vacuum pump?