

Research plan of plasmatic vacuum reactor (PVR) 1

Prototype

Creation of graphical design, construction and preparation PVR for other parts needed for testing.

Main research

Main part of research will be focused mostly on testing and cooperation of PVR and other auxiliary equipment and software SenseLab so the output of PVR is in some form (electrical, thermal, ...)

Basic phases of main research:

1. Connection of individual equipment, sensors to prototype and PC and their synchronisation with SenseLab

- Turbomolecular vacuum pump + control device + Inovac ITR90,
- containers with gas and vacuum tanks,
- reverse throttle valves,
- USB oscilloscope,
- multimeters,
- high speed DC engine with stepless regulation,
- sensors for measuring magnetic, electric and radiation field, sensors for gas dosing and sensors for temperature measuring...

2. Testing and result recording