**Refrigerated Centrifuge**

**Equipment:** Refrigerated Centrifuge 6-16K

**No. of Equipment: UFCH5**

**Responsible coordinator:** Ing. RATHOUSKÝ Jiří, CSc.

**Name of Institution:** J. Heyrovsky Institute of Physical Chemistry of the ASCR, v. v. i.

**Address of Institution:** Dolejškova 2155/3, 182 23 Prague 8, Czech Republic,

**E-mail:** [jiri.rathousky@jh-inst.cas.cz](mailto:jiri.rathousky@jh-inst.cas.cz)

**Telephone:** +420 26605 3945

**Homepage:** http://www.jh-inst.cas.cz

**Contact person:** Mgr. BÍBOVÁ Hana

**E-mail:** [hana.bibova@jh-inst.cas.cz](mailto:hana.bibova@jh-inst.cas.cz)

**Telephone:** (+420) 26605 3737

**Equipment Description**

**Description of equipment:**

Centrifuge is power-driven machines that separates liquids from solid matter, liquids mixtures, or solid mixtures by centrifugal force. Refrigerated centrifuge is equipped by temperature controller. Temperatures between -20°C and +40°C can be preselected.

Specifications and technical features:

|  |  |
| --- | --- |
| Manufactured: | SIGMA Laborzentrifugen GmbH |
| Type: | 6-16K |
| Performance data:  Max. speed (rpm):  Max. capacity (ml):  Max. gravitational field (x g):  Max. kin. Energy (Nm): | 15 000  3 200  25 155  154 007 |
| Other parameters:  Time range:  Spincontrol Comfort  Spincontrol Professional  Temperature range:  Heater (special equipment):  Storage locations:  Spincontrol Comfort  Spincontrol Professional | short run, continuous run,  10 sec – 9 h 59 min  10 sec – 99 h 59 min  -20 to +40°C  -20 to +60°C  50  60 |

**Specification of expertise relevant to NanoEnviCz workpackages:**

**WP3**f,h, **WP4**a,b,c **WP5**c, **WP6**a,b,e

**Detailed description of expertise**

**Please, specify the main research topics connected with equipment:**

Centrifuge is power-driven machines that separates liquids from solid matter, liquids mixtures, or solid mixtures by centrifugal force.

**Please, specify the secondary research topics connected with equipment:**

Refrigerated centrifuge is equipped by temperature controller. Temperatures between -20°C and +40°C can be preselected. Due to the temperature controller samples depended on specific temperature can be handled.

**Keywords describing research area:**

Centrifuge, material separation, temperature setting

**Competence**

**Relevance for applied and industrial research:**

Large volume of samples of solutions can be separated.

**Relevance for fundamental studies:**

After separation both components can be further tested.