MK5C Application and use **2020-04-01**

MK5C, compact with controls mounted inside the centrifuge chassis. Together with the **Operating kit** it provides a complete test laboratory starting kit, including seven types of different graduated glass test tubes, cleaning devices and gear for personal protection. The cushioned **Travel case** makes the whole system mobile; it protects the equipment during transport, and is easy to take with along for onsite separation tests

The **MK5C** with integrated control unit is suited when smelly gases are not an issue. The unit requires less space and fits neatly on a bench top.

In case the liquid to be separated is releasing volatile or smelly gasses at high temperatures, then our type MK5 with separated control unit is the right choice. The centrifuge can be placed in a ventilated cabinet and the control unit is kept outside it. The units come with a 2m long cable between centrifuge and control unit. MK5 can be offered on request.

We supply centrifuge tubes with various graduations as required, made of glass that withstand temperatures to up to +100 °C / +212 °F without any problem at 3000 rpm. They can be washed and used repeatedly.

A comprehensive section providing information on "HOTSPIN testing" and factors influencing the separation result is included in the manual

<u>The Hotspin system is especially suitable when.</u>

- Quick and easy analysis are required
- Accurate heated centrifugation is required
- Sediment, water and emulsions content in oils and fats shall be determined
- Checking emulsion stability, dosage, and functions of emulsion breakers
- Checking flocculants stability, dosage, and functions of flocculants
- Checking the function of full-size centrifuges in a process
- Scaling up to full size centrifuges
- Checking the quality of waste oil deliveries
- Checking the quality of a working process
- Etc.

<u>The main features are:</u>

- Built in accurate Heating for between ambient up to +100 °C / +212 °F, accuracy ±1°C
- Compact -low weight -easy to transport for field work. Transport box available.
- All electronic controls, motor without carbon brushes.
- Safety system with overheating and vibration cut out switch is included.
- Swing out rotor 90 degrees (centrifuge tubes rotate laying horizontally which provides accurate reading of the result against the tubes graduation)
- 7 types of Centrifuge tubes with different graduations are available
- All you need kit of accessories for sample testing, tube cleaning and personal protection to get started is available.

<u>Example: Checking oils and fats</u>

The HOTSPIN is designed to perform accurate separation tests of oil/fat, water, and sediment.
Typical use:

- Separate at elevated temperature from ambient to 100 degrees C / +212 °F

- Accurate determination of the oil/fat, water and sediment content in % by volume.
- To lower the oil viscosity by heating to determine at what temperature separation is possible/acceptable.
- To determine if, and what effect dosing of flocculants and emulsion breaking chemicals have on the separability.
- Simulate the conditions in a full size separation system using centrifugal disc stack separators or decanter centrifuges.
- Check oil, emulsion, water and sediment content in waste oils, mineral oils, animal fats, fish oil and vegetable oils

Further technical and info for use is found at www.hotspin.se

To be able to offer freight, please select the unit required and state your exact delivery address including area code.

The HOTSPIN laboratory centrifuge system has been built and supplied since 1991 to demanding customers all over the World
Among others: Alfa Laval, Triplenine, Head engineering, Syncrude, Exxon, Union carbide, MI Swaco, Gulf Chemical & Industrial oil, Novosymes, Wirsam Petrosa, Wärtsilä etc. Well over 100 units have been supplied