### **UNIVERSAL HELPERS IN THE LABORATORY**

New LAUDA Hydro water and shaking water baths up to 100 °C – high quality, intuitive, reliable

Lauda-Königshofen, February 24, 2020 – LAUDA, the world market leader for constant temperature equipment and systems for precise temperature generation, has extended its laboratory technology product range. The launch of the new LAUDA Hydro waterbath product line, reinforced by the addition of "GFL Technology", means that LAUDA can now offer a considerably extended range of products. In this respect, LAUDA is continuing the tradition of the GFL brand, which has been valued in laboratories for its durability and superior quality for over 50 years. The GFL company has been part of the LAUDA Group since the beginning of 2019 and will be further expanded as a development and production location.

**LAUDA Hydro water baths: Equipped for every laboratory application**

Water baths are an indispensable part of many process chains in laboratories. The Hydro product range offers the perfect equipment for every laboratory requirement with six water baths, two water baths with a circulating function and three shaking water baths. The LAUDA Hydro water baths with an interior made of high-quality stainless steel provide the right bath depth and openings for every application with bath volumes from 4 to 41 liters. They are designed for the needs of biological, medical or biochemical laboratories with excellent temperature homogeneity, optional circulation or a shaking function.

**Homogeneous temperature distribution**

The heater of the LAUDA Hydro water baths is located directly under the bottom of the screen. This ensures homogeneous temperature distribution and rapid achievement of the desired temperature with a high temperature stability of ±0.1 K. The heater power is adjusted to the size of the bath. The optional circulating function is ideal for applications which require both temporal and spatial temperature distribution throughout the bath. Water baths with a circulating system have an excellent temperature homogeneity of ±0.02 K.

All water baths offer a temperature range of up to 100°C, which also permits applications in the boiling temperature range. A timer function can be used to set a switch-on delay and the duration of the operating time, either after a switch-on delay or after reaching the set temperature. The high-contrast 3.5-inch TFT display shows all the settings and operating values. The controller also has an electronic function check with a visual and acoustic alarm signal in the event of an error. The double overtemperature protection allows reliable continuous operation, even in the absence of the operator.

**LAUDA Hydro water and shaking water baths from 10 to 100 °C – high quality, intuitive, reliable**

The shaking water baths of the LAUDA Hydro series can be used for a variety of tasks in the laboratory depending on requirements. The device type H 20 SOW creates a circular motion for the sample whereas the types H 20 S and H 20 SW are designed for a linear, oscillating shaking movement. This is because variable mixing of the samples is required depending on the application. For example, applications in biotechnology are often dependent on an orbital shaking movement.

The built-in speed controller enables a load-independent, infinitely variable shaking movement with a soft start. The two shaking water baths H 20 SW and H 20 SOW are equipped with a cooling coil as standard. The temperature range of the shaking water baths can be extended down to 10 °C by connecting them to the domestic water supply or to commercially available circulation chillers.

**LAUDA Hydro: User safety and a long service life**

All Hydro device types are protected against overheating during dry running by means of low-level protection. The Hydro shaking water baths have water level control as standard, which guarantees reliable continuous operation. Furthermore, they consist of a corrosion-resistant outer casing made of electrolytically galvanized, powder-coated sheet steel. The interior parts of the casing and the tubular heating element are made of stainless steel. The double-walled, heat-insulated cover with internal curvature reliably prevents condensate from dripping back into the system. The recessed operating elements protect the electronics from dripping water and dirt. This increases the service life and ensures a high level of user safety.

LAUDA has rounded off its new water bath line with evaporation baths and a paraffin stretching bath for special applications such as gentle evaporation from Erlenmeyer flasks and the stretching and drying of sectioned tissue samples. The new LAUDA Hydro water baths are available as of now and will replace the previous line of LAUDA Aqualine water baths by the end of March 2020.

**About LAUDA**

We are LAUDA - the world leader in precise temperature control. Our constant temperature equipment and heating and cooling systems are at the heart of many applications. As a complete one-stop supplier, we guarantee the optimum temperature in research, production and quality control. We are your reliable partner, particularly in the fields of automotive, chemical/pharma, semiconductor and laboratory/medical technologies. We have been inspiring our customers for more than 60 years with our competent mentoring and innovative, environmentally-friendly concepts - new every day and all over the world.

**Figure 1: pic\_LAUDA\_Hydro\_01\_20-02-14\_rho.jpg**

The LAUDA Hydro product range consists of the perfect equipment for every laboratory requirement with six water baths, two water baths with a circulating function and three shaking water baths. (Source: LAUDA)

**Figure 2: pic\_LAUDA\_Hydro\_02\_20-02-14\_rho.jpg**

All Hydro device types are protected against overheating during dry running by means of a low-water safety device and optional water level control, thereby guaranteeing reliable continuous operation. (Source: LAUDA)

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