

LAB SAFETY *at* HEIDOLPH

It's not Rocket Science!

PROPERLY IDENTIFY ALL HAZARDOUS MATERIALS

DON'T BLOCK SAFETY SHOWERS OR EYEWASHES

WEAR CLOSED-TOE SHOES

NO SHORTS OR LOOSE CLOTHING

NO FOOD OR DRINK

WEAR CLOSED-TOE SHOES

USE APPROPRIATE EYE PROTECTION AT ALL TIMES

TIE BACK LOOSE HAIR

DO NOT OBSTRUCT WORK AREAS, FLOORS, EXITS

KEEP LAB LOCKED WHEN NOT IN USE

No Shoes • No Lab Coat • No Service

FINDENSER



Super Air Condenser replaces the need for water cooled condenser in over 95% of all common chemistry applications

WHAT ARE THE BENEFITS?

- Helps meet sustainable water reduction targets
- No risk of flooding from running water
- Eliminate water purchase & disposal costs
- For solvent volumes from 5ml up to 1L

HOW MUCH IS WATER COSTING YOUR LABORATORY?

For synthesis with low boiling point solvents, Findenser showed a significant improvement in solvent retention. With acetone or DCM the reaction boiled dry when using an air condenser, yet Findenser retained 95% of the solvent under the same conditions.

HEAT ON BLOCKS



Replace messy oil baths, heating mantles, avoid spills and make your chemistry safer, cleaner and faster...

It is accepted that oil baths and heating mantles are no longer the preferred choice of chemists to heat round bottom flasks.

The risk of oil fires and injury from hot oil spills, plus the mess and disposal costs associated with the use of oil, mean that oil baths no longer represent safe or environmentally friendly working practice in labs. Heating mantles are expensive, difficult to clean, do not respond well to liquid spills and often create hot spots when heating. Therefore safety aware scientists

are increasingly turning to Heat-On as the safe, cost efficient and high performance alternative to heating standard round bottom flasks.

Heidolph heat on blocks are proven to heat up 11 mins faster than oil baths while saving 30% less energy than competitive blocks



MAGNETIC STIRRING HOTPLATE



Highest level of safety hotplate

Spontaneous & unexpected heating of hotplates has been the cause of laboratory fires and explosions.

*Lawrence Berkeley National Laboratory, University of California, University of Pennsylvania, MIT & Oak Ridge National Lab.

WHY ARE MORE LABS STANDARDIZING ON HEIDOLPH HOTPLATES?

- Fire resistant aluminum die cast housing
- Hermetically sealed housing to protect the electronics from liquids & gases
- 2 independent safety circuits avoid any overtemperature situations
- Separate illuminated on/off button for heating prevents unintentional heat up

The National Fire Protection Association estimates that **169 fires** have occurred annually in chemical laboratories. On the average, there are 13 civilian injuries and **\$1.5 million per year** in direct property damage. Most fires in which the cause or ignition source can be identified originate in malfunctioning electrical equipment (41.6%)



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