

## Gilson Rack Compatibility

For Oils 7400 and Oils 7600 Homogenizing Autosamplers

### Introduction

The Oils 7400 and Oils 7600 have been designed to be compatible with as many different racks and sample types as possible. However, it is not always possible to be compatible with every rack and tube type. This document covers how Gilson 29 racks can be used with the Oils autosamplers and what the limitations are with this particular setup.

### Gilson Upgrade Kit

The Oils 7400 and 7600 are not natively compatible with Gilson racks. However, an upgrade kit is available that will have all the parts needed to work with Gilson 29 Racks.

- For the 7400 use part number 32-0486-047
- For the 7600 use part number 32-0487-047

Included in each of these kits is the following:

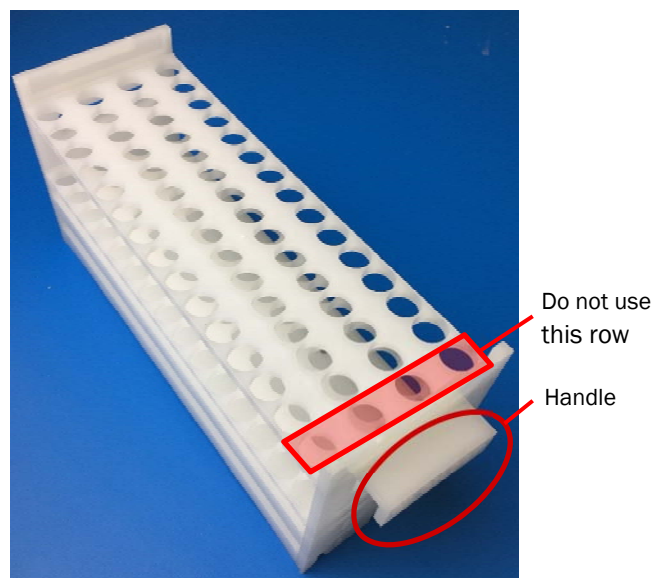
- **Probe Block** (32-0377-047)  
Spaces the sample probe and stirrer paddle 0.578 inches (1.47 cm) apart to ensure that the tube to tube spacing is correct for Gilson 29 Racks.
- **Rinse Station** (32-0380-047)  
The probe and stirrer wells are spaced appropriately for Gilson 29 racks.
- **Drip Cup** (32-0426-039)  
Adjusts for the height of the racks.
- **Spill Tray** (32-0481-047 for Oils 7400, 32-0482-047 for Oils 7600)  
Equipped with special spacers to allow Gilson racks to sit on the autosampler base plate in the same position each time.

Replacing these four parts is straightforward and requires only a Phillips head screwdriver. See the Oils 7400/7600 service manual or contact Teledyne CETAC Service and Support for more information (402-733-2829, cetacservice@teledyne.com).

### Limitations When Using Gilson Racks

One of the key functions of these autosamplers is to stir each sample prior to analysis. This ensures that samples, which would naturally separate over time, are properly homogenized for analysis. If not mixed, these samples can be difficult to analyze properly. Teledyne CETAC Oils racks were designed with stirring in mind and include cut out spots for the stirrer where needed. Gilson racks were not designed with stirring in mind which results in a small loss of function.

When there is a handle on the outside of the rack (as seen below), it impedes the movement of the stirrer as the probe samples the final row of each rack. This means that the autosampler cannot visit the last position in each row.



**Figure 1: Handle on a Gilson rack**

	Racks	Total vial positions	Usable # of vials with stirring
Oils 7400	5	300	280
Oils 7600	8	480	448