



## Laboratory work place for Hydraulic Fracturing

Product #: 2994020

 **Hazardous**

**OBSOLETE ITEM**  
This item is no longer available.

Items with this mark may be considered hazardous under some shipping conditions.

If necessary, we will change your selected shipping method to accomodate these items.

Hach's Hydraulic Fracturing bench workplace covers parameters critical to water analysis in oil and gas applications, including source water, fracturing fluid, produced water, flowback water, water treatment, drilling fluids, and enhanced oil recovery. Parameters include Alkalinity, Bacteria (Iron-Related, Sulfate-Reducing, and Slime-Forming), Barium, Boron, Chloride, Conductivity, Hardness (Total as CaCO<sub>3</sub>), Hardness (Calcium as CaCO<sub>3</sub>), Iron (Total as Fe), pH, Sulfide TOC and Sulfate.

The DR 3900 photometer comes with more than 240 pre-calibrated methods for water analysis. The photometer works with TNTplus chemistry for automatic test recognition with a minimum number of handling steps, e.g. by pre-dosed reagents.

### Provides a Tailored solution

Designed to deliver reliable analysis in oil and gas applications, including source water, frac fluid, produced water, flowback water, water treatment, drilling fluids, and enhanced oil recovery.

### Demanding parameters are child's play

With TNTplus chemistry challenging parameters like TOC are simple and safe to perform. Everything needed comes in one box. There is no need for preparation or cleaning.

### Sample is 100% traceable

Use RFID technology and trace your samples back to the sample location. All important information, such as the sample location, sample taker, date and time are saved on an RFID tag on the sample bottle. And you can transfer this data to the laboratory in seconds using RFID in the DR 3900.

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## Specifications

|                          |                          |
|--------------------------|--------------------------|
| Beam Height:             | 10 mm                    |
| Data Logger:             | 2000                     |
| Dimensions (H x W x D):  | 151 mm x 350 mm x 255 mm |
| Display Resolution:      | WVGA (800 pix x 480 pix) |
| Display Size:            | 7 inch (17.8 cm)         |
| Enclosure rating:        | IP30                     |
| Max. operating humidity: | 80 %                     |
| Max. Storage Humidity:   | 80 %                     |
| Operating conditions:    | 10 °C - 40°C             |
| Photometric Accuracy:    | 5 mAbs                   |
| Photometric Accuracy 2:  | 1 %                      |

|                               |   |
|-------------------------------|---|
| Photometric Linearity:        | 0.5 % - 2 Abs   |
| Photometric Linearity 2:      | 0.01 %  |
| Photometric Measuring Range:  | 3.0 Abs   |
| Power requirements (Hz):      | 50/60 Hz  |
| Power requirements (Voltage): | 110 - 240 VAC   |
| Power Supply:                 | Benchtop Power Supply   |
| Preprogrammed methods:        | 240   |
| Sample Cell Compatibility:    | 13 mm round, 16 mm round, 1 cm & 5 cm rectangular, 1" round, 1" square  |
| Storage conditions:           | -30 °C to 60 °C   |
| User programs:                | 100   |
| Wavelength Range:             | 320 - 1100 nm   |
| Wavelength Reproducibility:   | ± 0.1 nm  |
| Wavelength Resolution:        | 1 nm  |
| Weight:                       | 4.2 kg  |
| What's included?:             | Contains a DR 3900, Digital Titrator, HQ40d multi-meter, a PHC20101 pH electrode (1 meter cable), and a CDC40101 conductivity probe (1 meter cable), along with the reagents and apparatus necessary to run 40 to 100 tests (depending on amount of titrant used) on 14 different parameters. Thermoreactor and shaker for TOC test, Set of pipettes. |

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