

**VOLATILITY**  
*Crude Oil Package*



## Crude Oil Package

### The Industry Standard for Vapor Pressure Testing of Crude Oil According to ASTM D 6377

- **MINIVAP VPS or VPSH**
- **ROCKING PLATE**
- **FLOATING PISTON CYLINDER (FPC250)**
- [ASTM D 6377](#) - Vapor Pressure of Crude Oil
- **Fully Automatic Procedure**
- **Results within 10 minutes**
- **Only 10 mL Sample**



#### **MINIVAP VPS or VPSH**

MINIVAP VPS and MINIVAP VPSH are compact, portable and fully automatic instruments for the vapor pressure determination of liquids. The unique piston based measuring principle for automatic sample introduction and expansion developed by GRABNER INSTRUMENTS, offers high accuracy and easy operation.



[click to enlarge](#)

#### **FLOATING PISTON CYLINDER (FPC250)**

The new Floating Piston Cylinder (FPC250) was designed in cooperation with Norwegian offshore personnel specifically for ASTM D 6377. A mechanical stirrer is included to ensure uniform samples. No valve stems or handles protrude from the cylinder, reducing hazards.

#### **ROCKING PLATE**

MINIVAP is placed on the Rocking Plate to shake the sample inside the measuring cell, reducing the equilibrium time significantly.

### **STOP WASTING YOUR TIME WITH SAMPLING PROCEDURE OF ASTM D 323**

The pressurized crude oil from the FPC or pipeline is directly transferred into the measuring chamber and the vapor pressure is measured against vacuum by a single expansion.

The derived precision is significantly better than the classical method of D 323.

Cooling and air saturation are NOT required!

#### **APPLICATIONS**

Over the last 10 years, the outstanding performance of the MINIVAP VPS and MINIVAP VPSH has proven effective in refineries, pipeline companies and independent test laboratories all over the world.

#### **LABORATORY**

Applications include the standard test methods for vapor pressure of crude oil in the laboratory or production plant, and off-shore platforms.



[FPC250](#)

[\(technical details\)](#)

MINIVAP VPSH further includes the measurement of the vapor pressure at vapor liquid ratios down to 0.02:1 to simulate the situation in oil tanks.

**ON-LINE**

MINIVAP ON-LINE is the first and only equipment for vapor pressure determination of crude oil using the expansion method ASTM D 6377.

**TECHNICAL DATA**

MINIVAP	VPS	VPSH
Temperature range:	20 to 60°C 68 to 140°F	0 to 100 °C 32 to 212 °C
Pressure range:	0 to 300 kPa	0 to 500 kPa
Vapor/Liquid-Ratio:	4:1	4:1 to 0.02:1
Power requirements:	100/120/230/240 V AC 50/60 Hz, 65 W	
Field application:	12 V/4A DC (vehicle battery)	
W x H x D:	196 x 315 x 175 mm 7.7" x 12.4" x 6.9"	
Weight:	8 kp (18 pounds)	



[\(technical details\)](#)

**FPC250**

Diameter/length	48/415 mm
Sample volume	250 mL
Maximum pressure	7000 kPa

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GRABNER INSTRUMENTS  
Messtechnik Ges.m.b.H.  
A-1220 Vienna/Austria



Dr. Otto-Neurath-Gasse 1  
Phone +43/1/282 16 27-0  
Fax +43/1/280 73 34