

Cold Filter Plugging Point - CFPP I Cryostat

ASTM D 6371, DIN 51428 (obs.), EN 116, EN 14214, IP 309, JIS K2288, SIS 155 122 (obs.)

Product group(s): Cold Behaviour, Fuel

User group(s): Biodiesel, Biofuel, Diesel, Fuel

Scope: For the determination of the cold filter plugging point (CFPP) temperature of diesel and domestic heating fuels using either dry ice cooling or cryostat cooling apparatus.

The test may not be applicable to the determination of the low temperature operability of distillate fuels used in equipment with exposed paper filters in the fuel supply system.

The Cold-Filter Plugging Point informs about possible trouble by precipitation of paraffin on filters at low temperatures.

The Cold Filter Plugging Point is defined as the highest temperature (expressed as a multiple of 1 °C) at which the fuel, when cooled under the prescribed conditions, either will not flow through the filter or requires more than 60 sec for 20 ml to pass through.



Cold Filter Plugging Point Test Equipment

to be composed of:

- **CFPP I - Cryostat**
with 1 Test-Device (accessories for 1 test place)
- **Vacuum Device**

Technical Data

Dimensions (W x D x H): 600 x 730 x 1000 mm

Weight: 110 Kg

Main Unit

13-2418

CFPP I - Cryostat Test Arrangement (1 Chamber)

ASTM D 6371 - EN 116 - EN 14214 - IP 309 - JIS K2288
(DIN 51 428, SIS 155 122)

Air-cooled refrigeration cabinet on castors.
Cooling Compressor with R404A-filling.

Consisting of:

1 Aluminum-Block test chamber with 4 test place avoiding the use of any hazardous bath medium, the aluminum block also serves as an air jacket; electronic temperature control in the range of +20 to -69° C block-temperature, digital display of real temperature.
Electronic heater for rapid warming of the test block when changing from very low temperature to a higher one.

Supplied with:

1 CFPP-Test-Device consisting of:
1 test glass, 1 centering guide, 1 stopper, 1 test tube, 1 filter assembly, 1 thermometer ASTM 5C (-38 to +50 °C).

Note! The vacuum device is not included.

Power supply: 230 V, 50 Hz

13-2414

CFPP I - Cryostat Test Arrangement (1 Chamber)

Like 13-2418 but:
Power supply: 115 V, 60 Hz

13-0450	Vacuum Device Consisting of: pressure equalizing vessel, U-tube manometer, 3-way cock and electric vacuum pump Power supply: 230 V, 50 Hz
13-0449	Vacuum Device Like 13-0450 but: Power supply: 110/115 V, 60 Hz

Options & Accessories

10-0013	Water Jet Pump acc. to Hanff, made of glass
13-0010	Filter Paper II b DIN 52 135, pack of 100

Spare Parts

16-0371	Thermometer ASTM 5C / IP 1C Range: -38 to +50 : 1 °C Length: 230 mm, Immersion: 108 mm, Ø 7 mm
16-0372	Thermometer ASTM 5C / IP 1C Range: -38 to +50 : 1 °C (officially certified)
16-0375	Thermometer ASTM 6C / IP 2C Range: -80 to +20 : 1 °C Length: 230 mm, Immersion: 76 mm, Ø 7 mm
16-0376	Thermometer ASTM 6C / IP 2C Range: -80 to +20 : 1 °C (officially certified)
13-0422	Test Jar, flat-bottom, 45 ml level marking
13-0424	Measuring Tube , made of glass with 20 ml level mark, without filter assembly
13-0425	Gaskets (set of 10) for measuring tube (13-0424)
13-0426	Gaskets (set of 10) for the filter sieve (13-0427)
13-0427	Filter Sieve (45 µm mesh)
13-0430	Filter Assembly without measuring tube Consisting of: 1 gasket for filter sieve and 2 gaskets for measuring tube.
13-0444	Centering Guide (for CFPP-units made since 2/2002)
13-0447	Stopper, PE (Ø 70 mm / bored twice) for test-thermometer, pipet and evacuation

Order Guideline

Minimum equipment:	1x 13-2418 + 1x 13-0450
Spares (approx. 1 year):	13-0424, 13-0425, 13-0010, Thermometer
Additional requirements:	