

PMS1505D-EXP Pressure Chamber Instrument and the DCC1 Cavitation Chamber Instrument



The PMS DCC1 Cavitation Chamber Instrument

is used to simulate cavitation of xylem vessels in plants under stress. A plant stem, limb or root is introduced into the Cavitation Chamber and a head of water is connected to the sample to measure water conductivity. The chamber is then pressurized to “seed” air into the xylem. It can be used to establish vulnerability curves in plants or to continue research in the area of xylem cavitation.

The Digital Cavitation Chamber comes complete with: 100 bar capacity (10 MPa) digital gauge, 3 foot hose connecting to Cavitation Chamber, 2 metal inserts of following sizes (5/8”, 3/8”, 3/16”), 5 rubber gaskets of each size (blank, 1/16”, 1/8”, 3/16”), 6 foot hose to connect instrument to nitrogen tank.

The PMS 1505D-EXP Pressure Chamber Instrument

comes with all the normal features of our digital pressure chamber and in addition comes with a Cavitation Chamber. The instrument can be used for either Cavitation work or Pressure Chamber work.

The instrument is fitted with a 100 Bar Digital Gauge that offers features such as backlighting and multiple pressure scales such as (Bar, MPa and PSI).

Instrument comes fitted with our most popular sealing gasket size – 1/4 inch Compression Gland Gasket and Insert. This gasket will seal a sample that is 1/4 inch in diameter down to a completely closed position. If you need other sealing options such as bladed grass or other semi-round sizes check our other options.



Pressure Chamber Specifications:

Maximum Operating Pressure:	100 bar (10 MPa)
Chamber Construction:	Solid Stock Stainless Steel
Cavitation Chamber Construction:	Solid Stock Stainless Steel
Read-out:	Digital Gauge (Reads in Bar, MPa or PSI)
Size: (L x W x H)	13 x 11 x 10 inches, 33 x 28 x 24 cm
Weight:	25 Lbs / 11 Kg
Gauge:	2.5” Diameter Gauge, 1/2 of 1% accuracy

PMS 1505D-EXP comes complete with:

the following accessories for the Pressure Chamber: 1/4 Inch Compression Gland Sealing System, 5 Extra 1/4 Inch Compression Gland Gaskets, 6 foot Filling Hose, 1 – Solid Lab Stopper for instrument testing, O-Ring lubricant and Lithium Grease, 11/32 inch wrench and 3/32 inch Allen Key for Control Valve Adjustment and a colour Operating Instructions Manual. In addition the following items are for the Cavitation Chamber: 3 foot hose connecting to Cavitation Chamber, 2 metal inserts of following sizes (5/8”, 3/8”, 3/16”) 5 rubber gaskets of each size (blank, 1/16”, 1/8”, 3/16”)



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