

Soil Moisture Retention Curve Systems



MC5

Moisture Retention Curve System, 5 bar Application.

Components

Qty.	Part #	Description
1	PV5	Pressure Vessel, 5 bar (Extractor)
1	SB5	Pressure Stabilizer, 5 bar (Manifold)
4	EPIH	Extraction Plate, 1 bar high flow (ceramic Plate)
4	EP3	Extraction Plate, 3 bar (Ceramic Plate)
4	EP5	Extraction Plate, 3 bar (Ceramic Plate)
4	1093F2	Soil sample retaining rings, per dozen
1	PM20-#	Air Compressor, 20 bar, 110 and 220 Volt options

All required hoses are included.



MC15

Moisture Retention Curve System, 1 to 15 bar Application.

Components

Qty.	Part #	Description
1	PV15	Pressure Vessel, 15 bar (Extractor Plus 1080G1 Hinge)
1	SB15	Pressure Stabilizer, 15 bar (Manifold)
4	EPIH	Extraction Plate 1 bar high flow (Ceramic Plate)
4	EP3	Extraction Plate, 3 bar (Ceramic Plate)
4	EP5	Extraction Plate, 5 bar (Ceramic Plate)
4	EP15	Extraction Plate, 15 bar (Ceramic Plate)
8	1093F2	Soil sample retaining rings, per dozen
1	PM20-#	Air Compressor, 20 bar, 110 and 220 Volt options

All required hoses are included.



MC5N15

Moisture Retention Curve System, 0.3 to 5 bar Application.

Components

Qty.	Part #	Description
1	PV5	Pressure Vessel, 5 bar (Extractor)
1	PV15	Pressure Vessel, 15 bar (Extractor Plus 1090G1 Hinge)
1	SB5	Pressure Stabilizer, 5 bar (Manifold)
1	SB15	Pressure Stabilizer, 15 bar (Manifold)
4	EPIH	Extraction Plate, 1 bar high flow (Ceramic Plate)
4	EP3	Extraction Plate, 3 bar (Ceramic Plate)
4	EP5	Extraction Plate, 5 bar (Ceramic Plate)
4	EP15	Extraction Plate, 15 bar (Ceramic Plate)
8	1093F2	Soil sample retaining rings, per dozen
1	PM20-#	Air Compressor, 20 bar, 110 and 220 Volt options

All required hoses are included.



MCT15

Moisture Retention Curve System, 4x Sandbox Tension Tables, 0 to 15 cbar Vacuum Range

Components

Qty.	Ref. #	Description
3		Sandbox tension table Assembly
3		Hanging water column Assembly
3	0932W010	Silica flour, 325 mesh, 10lbs
3	1930K3	Four liter water collection flask
3	XLABBEA-KER2000PP	Polypropylene beaker 2 liter

Plus an assortment of tools, tubing, and luer fittings



MCT75

Moisture Retention Curve System, 4x Ceramic Tension Table, 10 to 75 cbar Vacuum Range

Components

Qty.	Ref. #	Description
4		Ceramic Plate tension table Assembly
1	SBT100	0 to -100 centibars vacuum manifolds
4	BT1000	Sample Bottle Assembly
1		4X Manifold Bottle Rack
1	1980	11 gallon reservoir
1	2008F2	Automated electric pressure vacuum pump

Plus an assortment of tools, tubing, and luer fittings



MC2-TM5

Moisture Retention Curve System, 12X TM5 Tempe Cell Setup, 0.1 to 2 bar Application Range

Components

Qty.	Ref. #	Description
1	1980	11 gallon reservoir
1	2008F2	Automated electric pressure vacuum pump
1	SB2	0-2 bar non-relieving manifold
12	TM5	4X Tempe cell manifold stand
1		Tempe Cell, four standard diameters, different lengths available
12	BT1000	Sample Bottle Assembly

Plus an assortment of fittings, connections, and tubing



Extractors



Manifolds



Ceramic Plates



Pressure/Vacuum Pump



Air Compressors

Extractors

Part #	Description
PV5	Pressure Vessel, 5 bar Application Range, Rust resistant (Water+)
PV15	Pressure Vessel, 15 bar Application Range, Rust Resistant (Water+), Including 1080G1 Hinge

Manifolds

Part #	Description
SB5	PV5, Pressure Stabilizer Manifold, 5 bar Application Range
SB15	PV15, Pressure Stabilizer Manifold, 15 bar Application Range

Pressure/Vacuum Pump

Part #	Description
PM10-1	MC2/MCT, Automated Pressure/Vacuum Pump, -1 to +10 bar, 110V

Ceramic Plates

Part #	Description
EP1H	Extraction Plate, Ceramic Type 1HB (1 bar Application Range, High Flow)
EP3	Extraction Plate, Ceramic Type 3B (3 bar Application Range)
EP5	Extraction Plate, Ceramic Type 5B (5 bar Application Range)
EP15	Extraction Plate, Ceramic Type 15B (15 bar Application Range)

Air Compressors

Part #	Description
PM20-1	MC5/15, Heavy Duty Air Compressor, 20 bar, 110V
PM20-2	MC5/15, Heavy Duty Air Compressor, 20 bar, 220V

Others Parts

Part #	Description
G61	6" Dial Pressure Gauge, 1 bar, for SB1
G62	6" Dial Pressure Gauge, 2 bar, for SB2
G66	6" Dial Pressure Gauge, 6.5 bar, for SB5
G620	6" Dial Pressure Gauge, 20 bar, for SB15
G6T34	6" Dial Vacuum Gauge, -0.34 cbar, for SBT34
G6T100	6" Dial Vacuum Gauge, -100 cbar, for SBT100

Part #	Description
HSB-NT	SB, Nitrogen Tank to Pressure Stabilizer, Regulator plus 5 ft High Pressure Hose, 20 bar range, for SB
HSB-15	Connecting Hose, 15 bar Application Range, 5 ft Length, for SB15/PV15
HSB-5	Connecting Hose, 5 bar Application Range, 5 ft Length, for SB5/PV5/PV5H
HSB-20	Connecting Hose, Pressure Stabilizer to Compressor, 20 bar Application Range, 5 ft Length, for SB/PM
HSB-2	Connecting Hose, 2 bar Application Range, 5 ft Length, for SB/TM
SBM-3	1-to-3 Multiplexer for Pressure/Vacuum Stabilizers, for SB
0700K3	Tee Assembly for HSB-15
760G1	Air Filter, 300 psi, for Pressure Stabilizers, for SB
EPD-K	Plate Drainage Kit, Pack of 4, for MC
802-6-24	O-Ring for EP Right-angle Outflow Connection, Pack of 24, for MC
675TC	(0675TC) Outflow Tube Collector for EP
0675DT	Extraction Plate Flow Meter, for MC
1093F1	Soil Sample Retaining Ring, 1 cm tall, 2.375" OD, Pack of 12, for MC
1093F2	Soil Sample Retaining Ring, 1 cm tall, 2.375" OD, with 140-150 Nylon Mesh, Pack of 12, for MC
1530	1093, Funnel and Pestel, for MC
1510-5-100	Paper Filter, Pack of 100, for MC
1057K1	Complete Plug Bolt Kit, Set of 5, for PV5/PV15
802-10-24	O-Ring for Plug Bolts, PV5 and PV15, 24-Pack, for PV5/PV15
802-453-2	O-Ring, Lid Seal, 2-PACK, for PV5/PV15
1065	HIGH PRESSURE ELECTRICAL LEADTHROUGH, for PV5/PV15
PV15-4-10	Plastic Spacer, 10-Pack, for PV5/PV15
MRT001L10	Nepprene Tubing, 1/16" ID, 1/16" Wall, 10 ft
1080U	PM HINGE, INCLUDES 1081 ADAPTER PLATE, for PV15
1500-2	TRIANGULAR SUPPORT FOR 1500F2 EXTRACTOR, for PV15
1500-8	NEOPRENE PAD, for PV15
1596K1	Complete Bolt Kit, Set of 8, for PV15
1600-4	INLET FITTING, for PV5
1696K1	Complete Bolt Kit, Set of 6, for PV5
1540K1	SOIL SPECIMEN PREP KIT, for MC
EPP-12-4	Saturation Pan Assembly less Extraction Plate, 12" Dia., 4" Height, for MCT
932-10	Silica Powder, 325 Mesh, 10 lb Bag, for MCT15, EP#

Components for MCT15, MCT75, MC2-TM5



MCT15



MCT75



MC2-TM5

MCT15 Parts

Ref. #	Description
XLABBEAKER200PP	Beaker
1768-001	Stand base support
XFIELDTAPEMEASURE	Tape measure
1768-005	Stand extension
1275-002	Aluminium stand base
1768-002	Stand riser
1768-010	Filter paper
0675D12TL	Transparent lid for saturation pan
0675B0	Zero tension plate
0675D12X4	Saturation pan
1930K2	Water trap jar, 1L
0932W010	Silica flour, 325 mesh, 10lb
XPVCEXC1/8-1.4	Clear PVC tubing, 12ft
1768-1000-01	Reservoir tube
1768-1000-02	Reservoir end cap
1930	Locking syringe, 60 CC
1768-004	Reservoir clamp
XFSMSS2420CAE04	Set screw
XORING2-210	O-ring, for reservoir cap, 1" OD
XHWCL-2INCHCLIP	Binder clamp, 2"
XLABSHELVINGPP	Lab shelving
1768-008	Tension level indicator
MZL132	Stand end cap
XFNHX1024CAH	Hex nut
XFWFW010CAR	Washer
XORING2-004	O-ring, for set screw
XORING2-010	O-ring, for drainage port
1768-011	Drainage tube
XCNLUTEE-FFFPP	Luer tee, female
XCNLUPUG-MLPP	Luer plug, male
1768-002	Stud adaptor
XCNLUHP-MFPVC	Water-stop filter (part of 1930K2)
MSL106	Allen wrench, 1/8"
XCNLUSC-MMPC	Luer stopcock, male-male
MZL133 + XFBCH2420CAF00	Screw knob, 1/2" long
XCNLU1/8B-FLPP	Female luer to 1/8" barb
XCNLU-FFFPP	Female-female luer coupling
XCNLU-MMABS	Male-male luer coupling
XCNLU1-/8NPT-FLNY	Female luer to male 1/8" NPT
XCNLUCV-MMPC	Check valve, male-male luer
1400-001L06IN	Stand stud, 6"
XFSMSS2420CAE12	Set screw, 3/4" long

MCT75 Parts

Part #	Description
EPIH	Extraction Plate, Ceramic Type 1HB
0675D12TL	Transparent Lid for 0675D12 Pans
0675D12X4	Saturation Pan
SBT100	Precision Vacuum Stabilizer, -100 cbar Application Range
0898-LAB09	Lab09 Quick Start Guide
932-10	Silica Powder, 325 Mesh, 10lb bag
1400LU	1/4" Barb to Female Luer Connector
BT1000B	Sample Collection Bottle, GL45, 1000 mL
BT4000	Water Trap Jar, 4 Liter
1980	Vacuum Reservoir, 11 gallon
PM10-1	Automated Pressure/Vacuum Pump, -1 to +10 bar, 110V
XCNLU1/8B-FLNYW	1/8" Barb to Female Luer Nylon White
XCNLU3/16B-MLNY	Male Luer to 3/16" Barbed Connector
XCNLUCV-MMPC	Male to Male Luer Check Valve
XCNLUHP-MFPVC	Hydrophobic Protector, Luer M X F, Pvc
XCNLUTEE-FFFPP	Luer Tee 3 Females
XPVCESL1/16-3/16	1/16" Id X 3/16" Od High Flex Pvc Tubing
XPVCEXC3/16-5/16	3/16" Id X 5/16" Od Clear Pvc Tubing

MC2-TM5 Parts

Part #	Description
SB2	0-2 bar non-relieving manifold
TM5	4X Tempe cell manifold stand
TM-ST	Tempe Cell Single Stand
BT1000	Sample Bottle Assembly
BTRC-L4	
PM10	Automated Pressure/Vacuum Pump, -1 to +10 bar, 110V
1980	11 gallon reservoir
XCNLU3/16B-MLNY	Male luer to 3/16" barbed connector
XCNLU3/16B-FLPP	Female luer to 3/16" barbed connector
XPVCEXC3/16-5/16	3/16" ID, 5/16" OD Clear PVC Tubing
XCNLUSC-MFPC	Female to male luer stopcock
XCNLUTEE-FFFPP	Female luer tee
XCNLU-FFFPP	Female to female luer connector
XCNLU-MMABS	Male to male luer connector