

PF-DETERMINATION (SANDBOX METHOD)

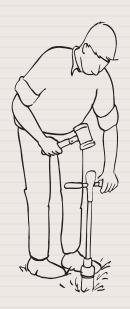
You will return to the contents of P1 SOIL by clicking the pictogram

P1.80

A soil sample ring is placed in the ring holder.



The soil sample ring holder is hammered into the soil using the impact absorbing hammer.



The determination of the moisture characteristic (pF-curve) is essential when researching the quantity of water available in the soil for plants and trees.

Depending on the desired measuring range underpressure (the so called sandboxes) or overpressure (membrane apparatus) is used.

For the determination of the moisture characteristic using the sandbox method undisturbed samples are needed. These samples are taken using stainless steel soil sample rings. Filling these rings is done using the sample ring holders (see P1.31 for additional information).

In the laboratory the samples are saturated and subsequently balanced with respect to the increasing values of the moisture tension. The moisture tensions are obtained by creating a series of underand overpressures. Weighing of the sample after each balance adjustment yields the moisture content for each moisture tension.

08.27 Set for pF-determination, sandbox method (pF 0 - 4.2)

For the pF-determination over the complete range from pF 0 to pF 4.2 an extensive set has been composed. The set consists of:

- A sandbox for pF-determination 0 2.0 for a max. of 40 soil sample rings.
- ☐ A sand-/kaolin box for pF-determination 2.0 - 2.7 for a max. of 40 soil sample rings.
- ☐ A membrane apparatus for pF-determination 3.0 - 4.2 for a max. of 15 soil sample rings, including compressor and accessories.
- A soil sample ring kit (with conical screw thread connection) for taking undisturbed samples to a depth of up to 2 meter.
- Cases with soil sample rings.
- ☐ Aluminium soil sample boxes for drying the soil samples in a drying oven.

The set can be supplied with soil sample rings and ring holders with a diameter of 53 mm (08.27.SA) and 60 mm (08.27.SB).



Set for pF determination, sandbox method (pF 0 - 4.2)

PF-DETERMINATION (SANDBOX METHOD)

08.01 Sandbox for pF-determination (pF 0 - 2.0)

The standard set for pF-determination pF 0 - 2.0 (0 - 0.1 bar) consists of the sandbox with control panel, suction levelling stand, water supply bottle with stand, filter cloth (140-150 micron), a number of containers synthetic sand, grain size approximately 73 micron and various accessories.

A maximum of 40 soil sample rings can be placed on the sandbox. The samples that are measured are taken using soil sample rings.

These rings usually have a contents of 100 cc. In addition to the standard set a soil sample ring kit must be available as well as cases with soil sample rings and aluminum soil sample boxes.

For the determination of the pF the laboratory should also be equipped with a balance and a drying oven.

The table on which the instrument is placed should be level and isolated against vibration.

Before measuring of the moisture tension can commence the different parts must be mounted and the drain must be fitted with a filter cloth.

Subsequently the sandbox is filled in the proper manner with water and synthetic sand (the sand should not contain any air- or water pockets). If everything has been executed in accordance with the operating instructions the saturated samples in the soil sample rings can be placed in the sandbox and the moisture tension is determined of the completely saturated sample.

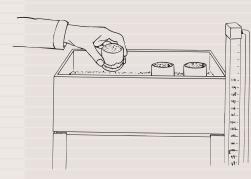
Next subsequently larger suction is applied. Weighing the sample each time after the balance is set again yields the moisture content that goes with each moisture tension.

If the sandbox is inundated with water after each test it can remain in operation during several years. A copper ring prevents algal growth.



P1.80

The soil sample ring with the saturated sample is placed on the prepared sandbox.

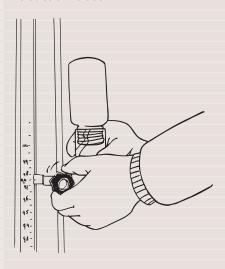


RENEFITS

08.01 Sandbox

- Shapes the pF curve for the wettest part
- Uses undisturbed samples 53 or 60 mm
- 40 samples allow large scale research
- Number of samples allow effective averaging
- Set-up can be used over and over for years
- Comprehensive photo manual for easy set-up

The suction is set.





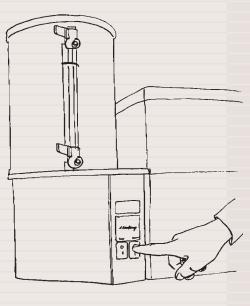
Sandbox for pF-determination (pF 0 - 2.0)





P1.80

The suction is adjusted to the sand/kaolin box.



BENEFITS

08.02.SA Sand/kaolin box

- \bullet Shapes the largest part of the pF curve
- \bullet No mercury used, electronic vacuum pump
- Measuring range important for all soils
- Uses undisturbed samples 53 or 60 mm
- 40 samples allow large scale research
- Number of samples allow effective averaging
- Set-up can be used over and over for years
- Comprehensive photo manual for easy set-up

PF-DETERMINATION (SANDBOX METHOD)

08.02.SA Sand/kaolin box for pF-determination (pF 2.0 - 2.7)

The standard set for pF-determinations pF 2.0 - 2.7 (0.1 - 1 bar) consists of a sand/kaolin box with control panel, an electronical suction level control system (pressure range 0 - 600 hPa) with integrated control panel, pressure sensor and 10 l tank, containers with synthetic sand, a container with kaolin clay and various accessories.

The sand/kaolin box is suitable for a maximum of 40 soil sample rings. The pF-determinations are executed on samples in the soil sample rings. These rings generally have a 100 cc contents.

In addition to the standard set a soil sample ring kit must be available also as well as cases with soil sample rings and aluminium soil sample boxes.

A balance and a drying oven are part of the minimum equipment.

The laboratory table on which the measuring

instrument is placed should be level and isolated against vibration.

Before the measuring of the pF can be started the various parts must be mounted and the drain must be fitted with a filter cloth. Next the sand/kaolin box is filled in the proper manner with water, synthetic sand and kaolin clay (the sand/clay filling should not contain any air or water pockets). Excess drainage water is removed applying the automatic suction level control system.

The different suction on the samples is realized using the vacuum pump.

For the determination of the complete pF-range (0 - 2.7) the sand box and the sand/kaolin box can be applied in one single setup next to each other.

A filled box can be used for several years if it is inundated with water after each test. A copper ring prevents algal growth.



Sand/kaolinbox for pF-determination (pF 2.0 - 2.7)

PF-DETERMINATION (SANDBOX METHOD)

08.03 Membrane apparatus for pFdetermination (pF 3.0 - 4.2)

In case of the membrane apparatus for pF-determination of samples in the range pF 3.0 - 4.2 (1.0 - 15.5 bar), samples cut in sample rings are not used. In this setup the semi-disturbed sample is saturated before measurement in the laboratory and placed in a synthetic ring.

The complete set consists of a pressure membrane extractor suitable for a maximum of 15 samples, a 20 bar compressor including reducing valve and manometer, an air filter, cellophane membrane, filter cloth, synthetic soil sample retaining rings and various accessories.

For the pF-determination the laboratory should at least be fitted with a balance, a drying oven and aluminum soil sample boxes with lids.

After saturation of the sample, part of this sample is placed in a synthetic retaining ring and prepared further.

After closing of the pressure membrane extractor an overpressure is realized in the pressure membrane extractor using the compressor.

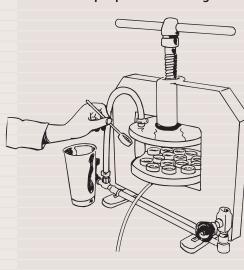
On reaching the equilibrium the samples are removed, weighed, dried and weighed again.

In order to be able to measure a larger series of samples a second pressure membrane extractor can be connected to the first extractor.



P1.80

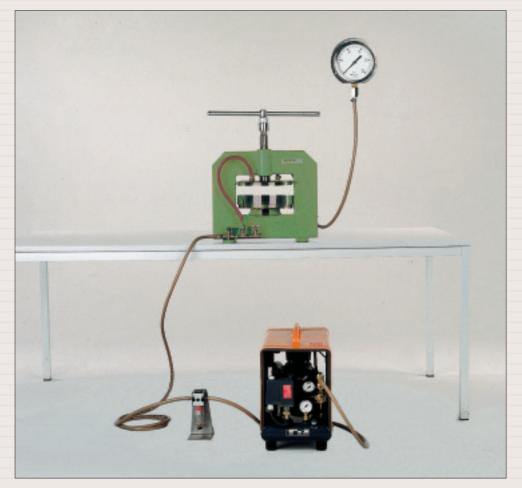
The saturated sample is scooped from the sample pot into the rings.

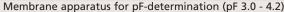


BENEFITS

08.03 Membrane apparatus

- \bullet Determines the driest range of the pF curve
- Uses overpressure on disturbed samples
- Effective set-up







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PARTS LIST

	Description Qty in s		Art.no.	Description Qty. in se	t
pF-determinatio	on (sandbox method) (P1.80)			mination pF 0 - 2,0 (0 - 0.1 bar).	
				Standard set for max. ca. 40 soil	
	Next to the well-known			sample rings	
	pF- determination with		**08.02.SA	Sand-/kaolinbox for pF	1
	ceramic plates (see P1.81)			1 determination (pF 2.0 - 2.7)	
	we supply equipment for			with electronical controlled	
	pF-determination according			suction level control system.	
	to the (dutch) sand box			Standard set for max. ca. 40	
	method.			soil sample rings	
			**08.03	Membrane apparatus for	1
	For pF determination of a			pF determination pF 3.0 - 4.2	
	complete range (pF0 - 4.2 is			(1.0 - 15.0 bar). Standard set	
	0 - 15.5 bar) we supply two			for max. about 15 samples	
	complete sets, incl. soil sample		**07.60.SC	Sample ring kit model C,	1
	rings, a soil sample ring kit and	l		standard set to a depth of 2 m.	
	soil sample boxes with lid for			For soil sample rings Ø 60 mm	
	drying and weighing of the		**07.01.60.SN	Aluminium case with 24 soil	4
	soil samples.			sample rings, Ø 60x56 mm,	
	·			height 40.5 mm, contents 100 cc,	
08.27.SA	Set for pF determination (sand-			max. volume deviation 0.5 %,	
001271371	box method) 0-15 bar of suctio			incl. 48 plastic covers Ø 60 mm,	
	Standard set with sand box			rings with special numbering	
		e.	**99.08.03.03	Aluminium soil sample	60
	(0-0.1 bar of suction), sand/kao	lin		box with lid, Ø 58.4x45 mm,	
	box (0.1-0.5) and membrane			cont. 120 cc	
	apparatus (1.0-15). With sample	е	**99.08.03.02	Aluminium soil sample	25
	ring kit, soil sample rings			box with lid, Ø 51.4 x 22 mm,	
	(Ø 53x50 mm), compressor			cont. 45 cc	
	+ access.				
				In stead of a complete set	
**08.01	Sandbox for pF determination	1		you also can order the three	
	pF 0 - 2,0 (0 - 0.1 bar). Standard			basic instruments as individual	
	set for max. ca. 40 soil sample			items.	
	rings				
**08.02.5A	Sand-/kaolinbox for pF	1		pF-determination pF 0-2.0	
	determination (pF 2.0 - 2.7)	•		(0-0.1 bar)	
	with electronical controlled			(0 011 501)	
	suction level control system.		08.01	Sandbox for pF determination	
	Standard set for max. ca. 40		00.01	pF 0 - 2,0 (0 - 0.1 bar). Standard	
	soil sample rings			•	
**08.03	Membrane apparatus for pF	1		set for max. ca. 40 soil sample	
00.03	determination pF 3.0 - 4.2	•		rings	
	(1.0 - 15.0 bar). Standard set				
	for max. about 15 samples		**08.01.11	Sample box with lid for sand	1
**07.53.SC	Sample ring kit model C,	1		to determine pF-curves, inside	
07.55.50	standard set to a depth of 2 m.	•		dimensions 540x326 mm. Incl.	
	For soil sample rings Ø 53 mm			supply bottle with support,	
**07.01.53.SN	Aluminium case with 24 soil	4		nylon cloth and filter gauze	
07.01.55.514	sample rings, Ø 53x50 mm,	7		to wrap the drain	
			**08.01.09	Container synthetic sand,	
					4
	height 51 mm, contents 100 cc,			particle size about 73 micron,	4
	height 51 mm, contents 100 cc, max. deviation less than 0.5 %,				4
	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm,		**08.01.10	particle size about 73 micron,	1
**00 09 02 02	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering	60	**08.01.10	particle size about 73 micron, contents 12.5 kg	
**99.08.03.03	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box	60	**08.01.10 **08.01.08	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150	
**99.08.03.03	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm,	60		particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm	1
	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc		**08.01.08	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3	1
	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box	60 25	**08.01.08	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust	1
	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box with 25 lid, Ø 51.4x22 mm,		**08.01.08	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust the suction regulator of the	1
	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box		**08.01.08	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust the suction regulator of the	1
**99.08.03.02	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box with 25 lid, Ø 51.4x22 mm, cont. 45 cc		**08.01.08	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust the suction regulator of the pF box 08.01.	1
**99.08.03.02	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box with 25 lid, Ø 51.4x22 mm, cont. 45 cc		**08.01.08	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust the suction regulator of the pF box 08.01. pF-determination pF 2.0 - 2.7	1
	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box with 25 lid, Ø 51.4x22 mm, cont. 45 cc Set for pF determination (sandbox method) 0-15 bar		**08.01.08	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust the suction regulator of the pF box 08.01. pF-determination pF 2.0 - 2.7	1
**99.08.03.02	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box with 25 lid, Ø 51.4x22 mm, cont. 45 cc Set for pF determination (sandbox method) 0-15 bar of suction. Standard set with	25	**08.01.08 **08.01.15	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust the suction regulator of the pF box 08.01. pF-determination pF 2.0 - 2.7 (0.1-1 bar) Sand-/kaolinbox for pF	1
**99.08.03.02	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box with 25 lid, Ø 51.4x22 mm, cont. 45 cc Set for pF determination (sandbox method) 0-15 bar	25	**08.01.08 **08.01.15	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust the suction regulator of the pF box 08.01. pF-determination pF 2.0 - 2.7 (0.1-1 bar) Sand-/kaolinbox for pF determination (pF 2.0 - 2.7)	1
**99.08.03.02	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box with 25 lid, Ø 51.4x22 mm, cont. 45 cc Set for pF determination (sandbox method) 0-15 bar of suction. Standard set with	25	**08.01.08 **08.01.15	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust the suction regulator of the pF box 08.01. pF-determination pF 2.0 - 2.7 (0.1-1 bar) Sand-/kaolinbox for pF determination (pF 2.0 - 2.7) with electronical controlled	1
**99.08.03.02	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box with 25 lid, Ø 51.4x22 mm, cont. 45 cc Set for pF determination (sandbox method) 0-15 bar of suction. Standard set with sand box (0-0.1 bar of suction), sand/kaolin box (0.1- 0.5) and	25	**08.01.08 **08.01.15	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust the suction regulator of the pF box 08.01. pF-determination pF 2.0 - 2.7 (0.1-1 bar) Sand-/kaolinbox for pF determination (pF 2.0 - 2.7) with electronical controlled suction level control system.	1 1 1
**99.08.03.02	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box with 25 lid, Ø 51.4x22 mm, cont. 45 cc Set for pF determination (sandbox method) 0-15 bar of suction. Standard set with sand box (0-0.1 bar of suction), sand/kaolin box (0.1- 0.5) and membrane apparatus (1.0-15).	25	**08.01.08 **08.01.15	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust the suction regulator of the pF box 08.01. pF-determination pF 2.0 - 2.7 (0.1-1 bar) Sand-/kaolinbox for pF determination (pF 2.0 - 2.7) with electronical controlled suction level control system. Standard set for max. ca. 40 soil	1 1 1
**99.08.03.02	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box with 25 lid, Ø 51.4x22 mm, cont. 45 cc Set for pF determination (sandbox method) 0-15 bar of suction. Standard set with sand box (0-0.1 bar of suction), sand/kaolin box (0.1- 0.5) and membrane apparatus (1.0-15). With sample ring kit, soil samp	25 le	**08.01.08 **08.01.15	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust the suction regulator of the pF box 08.01. pF-determination pF 2.0 - 2.7 (0.1-1 bar) Sand-/kaolinbox for pF determination (pF 2.0 - 2.7) with electronical controlled suction level control system.	1 1 1
**99.08.03.02	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box with 25 lid, Ø 51.4x22 mm, cont. 45 cc Set for pF determination (sandbox method) 0-15 bar of suction. Standard set with sand box (0-0.1 bar of suction), sand/kaolin box (0.1- 0.5) and membrane apparatus (1.0-15). With sample ring kit, soil samp rings (Ø 60x56 mm), compressor	25 le	**08.01.08 **08.01.15	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust the suction regulator of the pF box 08.01. pF-determination pF 2.0 - 2.7 (0.1-1 bar) Sand-/kaolinbox for pF determination (pF 2.0 - 2.7) with electronical controlled suction level control system. Standard set for max. ca. 40 soil sample rings	1 1 1
**99.08.03.02	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box with 25 lid, Ø 51.4x22 mm, cont. 45 cc Set for pF determination (sandbox method) 0-15 bar of suction. Standard set with sand box (0-0.1 bar of suction), sand/kaolin box (0.1- 0.5) and membrane apparatus (1.0-15). With sample ring kit, soil samp	25 le	**08.01.08 **08.01.15	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust the suction regulator of the pF box 08.01. pF-determination pF 2.0 - 2.7 (0.1-1 bar) Sand-/kaolinbox for pF determination (pF 2.0 - 2.7) with electronical controlled suction level control system. Standard set for max. ca. 40 soil sample rings Sample box with lid for sand/	1 1 1
**99.08.03.03 **99.08.03.02 08.27.SB **08.01	height 51 mm, contents 100 cc, max. deviation less than 0.5 %, incl. 48 plastic covers Ø 53 mm, rings with special numbering Aluminium soil sample box 60 with lid, Ø 58.4x45 mm, cont. 120 cc Aluminium soil sample box with 25 lid, Ø 51.4x22 mm, cont. 45 cc Set for pF determination (sandbox method) 0-15 bar of suction. Standard set with sand box (0-0.1 bar of suction), sand/kaolin box (0.1- 0.5) and membrane apparatus (1.0-15). With sample ring kit, soil samp rings (Ø 60x56 mm), compressor	25 le	**08.01.08 **08.01.15	particle size about 73 micron, contents 12.5 kg Filter cloth, 140 - 150 micron, dim. 90x135 cm Set of 65 pcs. o-rings 49x3 Omega ruler to adjust the suction regulator of the pF box 08.01. pF-determination pF 2.0 - 2.7 (0.1-1 bar) Sand-/kaolinbox for pF determination (pF 2.0 - 2.7) with electronical controlled suction level control system. Standard set for max. ca. 40 soil sample rings	1 1 1



Art.no.	Description	Qty. in set	Art.no.	Description	Qty. in set
	540x326 mm. Incl. nylon cloth				
	and filter gauze to wrap				
**08.02.13	the drain	1			
06.02.13	Suction level control system (electronical), pressure range	'			
	0 - 600 hPa, incl. integrated				
	control panel, pressure sensor				
	and 10 l tank. Power supply 1	10 -			
	230 Vac (47/63 Hz) / 24 Vdc. V				
	CE-approved. For use with art	icle			
**08.01.09	08.02.12 Container synthetic sand,	4			
08.01.09	particle size about 73 micron,				
	contents 12.5 kg				
**08.01.10	Filter cloth, 140 - 150 micron,	1			
	dim. 90x135 cm				
**08.02.04	Kaolin clay, container at 2.5 k	_			
**08.01.08	Set of 65 pcs. o-rings 49x3	1			
	pF-determination pF 3.0 - 4.	2			
	(1.0 - 15.5 bar)				
08.03	Membrane apparatus for pl	=			
	determination pF 3.0 - 4.2				
	(1.0 - 15.0 bar). Standard se	t			
	for max. about 15 samples				
**08.03.01	Pressure membrane extractor	1			
	for maximum 15 samples				
**08.03.02	Cellophane membrane	1			
	PT 600, dim. 2000x120 cm, thickness 0.05 mm.				
**08.03.05	Soil sample retaining rings,	1			
00.03.03	Ø 40x36 mm, height 10 mm,	-			
	contents ab. 10 cc, set of 25 p				
**08.01.10	Filter cloth, 140 - 150	1			
**08 03 03	micron, dim. 90x135 cm	1			
**08.03.03	Compressor, 20 bar, incl. reducing-valve with manome				
	(220V - 50Hz). Special design				
	for use with equipment for				
	F-determination (08.25 and 08	-			
++00 03 03 04	Not suitable for continuous u				
**08.03.03.01	Air filter with support and 5 metres hose	1			
	Note:				
	The membrane apparatus c				
	also be connected to a pres	sure			
	supply in the laboratory				
	(minimal pressure 16 bar).				
I .					

