



## Water stills "WITO-DEST".

The quality of the water corresponds to the provision of the DAB 8 and to all important pharmacopoeas, ASTM-D-1193 and ASTM-C-225. A conductivity of the distilled water up to  $\leq 1 \mu\text{S S/cm}$  (25 °C) can be reached. The immersion heating element is covered by quartz glass, so that heavy metal ions in the distillate are excluded. At 60 °C, the distillate is free of CO<sub>2</sub>. The automatic level regulation and the mounted-in safety device against water lack guarantee an extrem safety during operation. The apparatus are delivered ready for use. Temperature of distillate approx. 50 °C.

Type	Output l/h	V/A	W	Heater	
WD2	2.5	220/10	2200	quartz	2.190.001
WD5	5	220/14	3100	quartz	2.190.002
WD3	3	220/10	2200	metall	2.190.003
WD7	7	220/23	5100	metall	2.190.007
WD8	7	380/8	3100	metall	2.190.008
WD9	7	220/10	3600	quartz	2.190.009



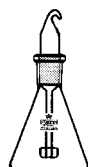
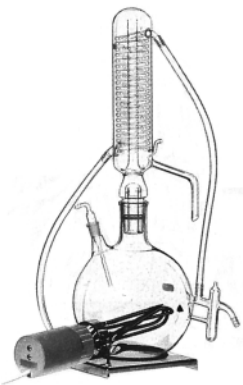
## Water still "Economy".

Top water quality to responsible price. Consisting of the 5 liters boiling flask, interchangeable heating element with thermostatic cut-out of power in case of water input fail, re-starts automatically when water supply is restored. With syphon tube and constant water level device, double spiral condenser with special „PRECISO“ FCH-V interchangeable joint (easy to remove from the boiling flask). Excess water is drained through an overflow tube attached to the constant level. Temperature of distillate 70-80 °C.

Type	Output l/h	V/A	W	Heater	
"Economy"	3-4	220/10	3000	metall	2.190.100

Spare parts to water still:

Bottle, 5000 ml, PE-stopper ST 45/40	2.190.005
Aspirator bottle, 10000 ml, with draincock, PE	2.190.006
WITONEX-cleansing concentrate, 1kg	2.190.009
Heating element for WITO-DEST-WD 2	2.190.010
Heating element for WITO-DEST-WD 5	2.190.011
Heating element for WITO-DEST-WD 3	2.190.012
Heating element for WITO-DEST-WD 7	2.190.014
Heating element for WITO-DEST-WD 8	2.190.015
Heating element for modell "Economy"	2.190.016
Double spiral distilling condenser for modell "Economy" with FCH-V 45/40	2.190.017
Flask 5000 ml with overflow-tube for modell "Economy"	2.190.018
Wall rack for model "Economy"	2.190.019
Air leak tube for model "Economy"	2.190.021
Condenser for Distiller WD 2-3	2.190.022
Condenser for Distiller WD 5-8	2.190.023
Heating element for WITO-DEST-WD 9	2.190.024
Heating reactor for WD 9	2.190.025
Condenser for WD 9	2.190.026

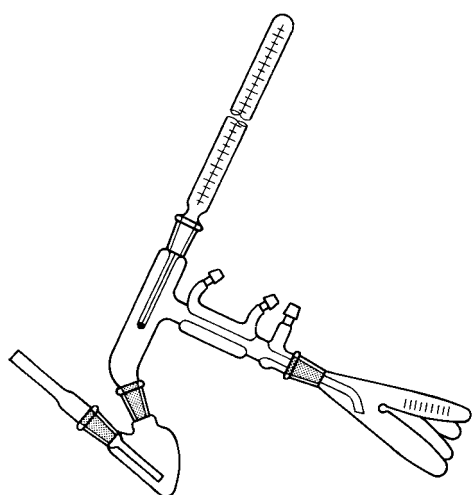
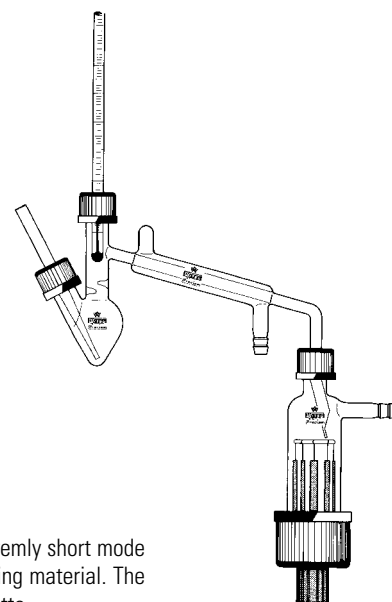


**Micro distilling apparatus, Widmark** for determining alcohol in blood.

Type	
Complete	2.154.000
Spare parts:	
Erlenmeyer flask, 50 ml, ST 19/26	2.154.001
Adapter with ST 19/26	2.154.002

**Micro-distilling apparatus for 5 ml.**

Type	
Complete	2.156.000
Spare parts:	
Flask with fused-on condenser, 70 mm, 2 GL 14	2.156.001
Screw cap, top with hole GL 14	2.156.002
Gasket, Silicone rubber, with PTFE washer 12 x 6 für GL 14	2.156.003
Receiver adapter with 1 GL 14 and 1 GL 32	2.156.004
Screw cap, top with hole GL 32	2.156.005
Receiving tubes with support and washer	2.156.006
Thermometer, solid stem -10 +250 °C: 1 °C	2.156.007
Air leak tube	2.156.008



**Short path distilling apparatus, micro.** Extremely short mode of construction. Gentle treatment of the distilling material. The receiver flasks can be easily emptied by a pipette.

Type	
Complete	2.996.000
Spare parts:	
Flasks, pear shaped, 2 x ST 14/23, 10 ml	2.996.001
Short path distilling link with condenser, 3 ST 14/23	2.996.002
Thermometer -10 +250 °C:1 °C, ST 14/23	2.996.003
Air leak tube ST 14/23	2.996.004
Receivers with 4 test tubes 3 ml:0.5 ml	2.996.005
Clip for joint St 14/23	2.996.006
Accessories:	
Fractionating column acc. to Vigreux, 200 mm length, 2 ST 14/23	2.996.007

**Vacuum sublimation apparatus.**

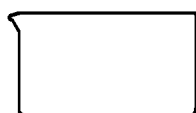
PRECISO. New model. An effective cleansing of many drugs and chemicals which, while being heated, directly pass from the solid state, into the vaporous state without liquifying before and which solidify again when they are cooled correspondingly. The purified sublimate can be easily and completely regained from the conical condenser after the termination of the sublimation process. Vacuum-tight without grease.

Type	Capacity ml	
Micro-apparatus GL 45	25	2.994.001
Semi-micro-apparatus GL 45	100	2.994.002
Macro-apparatus GL 100	1000	2.994.003



**Crystallizing dishes.** With spout and notation badge, acc. to DIN 12338.

Dia. mm	Height mm	Capacity ml	DURAN	Borosilicate glass	Quartz glass
40	25	20	5.534.020	5.534.020B	8.653.021
50	30	40	5.534.040	5.534.040B	8.653.022
60	35	60	5.534.060	5.534.060B	8.653.023
70	40	100	5.534.100	5.534.100B	8.653.024
80	45	150	5.534.150	5.534.150B	8.653.025
95	55	300	5.534.300	5.534.300B	8.653.026
115	65	500	5.534.500	5.534.500B	—
140	75	900	5.534.900	5.534.900B	—
190	90	2000	5.534.002	5.534.002B	—
230	100	3500	5.534.003	5.534.003B	—





## Evaporating dishes.

Dia. mm	Height mm	Capacity ml	DURAN	Borosilicate glass	Quartz glass	PTFE
<b>With spout and notation DIN 12336.</b>						
40	18	10	5.530.010	5.530.010.B	8.651.001	
50	25	15	5.530.015	5.530.015.B	8.651.002	
60	30	45	5.530.045	5.530.045.B	8.651.003	
70	35	60	5.530.060	5.530.060.B	8.651.004	
80	45	90	5.530.090	5.530.090.B	8.651.005	
95	55	170	5.530.170	5.530.170.B	8.651.007	
115	65	320	5.530.320	5.530.320.B	—	
140	80	600	5.530.600	5.530.600.B	—	
190	100	1500	5.530.001	5.530.001.B	—	
230	130	2500	5.530.002	5.530.002.B	—	
<b>Low form</b>						
25	—	—	—	—	—	7.207.001
100	—	—	—	—	—	7.207.002
<b>Tall form</b>						
5	—	—	—	—	—	7.208.001
25	—	—	—	—	—	7.208.002
75	—	—	—	—	—	7.208.003



## Evaporating dishes.

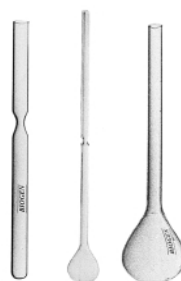
Dia. ml	DURAN	Soda glass	Quartz glass	PTFE	PP
<b>Watch glass shape, thin glass, fire-polished rim</b>					
40	5.601.040	5.600.040	8.629.002	7.209.001	—
50	5.601.050	5.600.050	8.629.003	7.209.002	—
60	5.601.060	5.600.060	8.629.004	—	7.103.001
70	—	5.600.070	8.629.005	—	—
75	—	—	—	7.209.003	—
80	5.601.080	5.600.080	8.629.006	—	7.103.002
100	5.601.100	5.600.100	8.629.007	7.209.004	7.103.003
125	5.601.125	5.600.125	—	7.209.005	7.103.004
150	5.601.150	5.600.150	—	—	—
200	5.601.200	5.600.200	—	—	—
250	5.601.250	5.600.250	—	—	—

## Freeze drying ampoules, borosilicate glass.

Capacity ml	Neck O.D. mm	Overall length mm	
<b>Round bottom, cylindrical sided</b>			
1	7	80	5.553.001
2	8	140	5.553.002
3	8	163	5.553.003
5	8	167	5.553.004
10	8	180	5.553.005
15	8	180	5.553.006
20	8	195	5.553.007
25	8	200	5.553.008
50	8	230	5.553.009
100	15	240	5.553.010
<b>Flat bottom, cylindrical sided</b>			
1	7	80	5.553.101
2	8	140	5.553.102
3	8	163	5.553.103
5	8	167	5.553.104
10	8	180	5.553.105
25	8	200	5.553.106
<b>Round bottom, cylindrical</b>			
1	7	127	5.553.201
2	8	145	5.553.202
3	10	145	5.553.203
4	10	170	5.553.204
<b>With seal-off constriction</b>			
0,5	6	105	5.553.301
1	8	145	5.553.302
2	9	145	5.553.303
<b>For large culture collections</b>			
0,5	5	90	5.553.401
<b>Bulb-type, with seal-off constriction</b>			
1	8	130	5.553.501
2	8	130	5.553.502
5	8	130	5.553.503
10	8	140	5.553.504
20	8	147	5.553.505
<b>With marking area. For 1 ml pipettes</b>			
1	10	155	5.553.601

## Evaporating dishes, porcelain, with spout.

Dia. mm	Height mm	Capacity ml	
<b>Low bottom</b>			
40	8	8	8.525.001
50	10	10	8.525.002
63	13	20	8.525.003
80	16	45	8.525.005
100	20	100	8.525.007
125	25	260	8.525.009
<b>Round bottom</b>			
63	25	35	8.526.004
85	35	95	8.526.007
100	40	115	8.526.008
125	50	285	8.526.011
150	55	420	8.526.013
160	64	580	8.526.014
180	65	700	8.526.015





**Calcium Chloride towers**, borosilicate glass. With thread cap GL 45, needle valve stopcock, stable foot made of plastic.

Height mm	O. D. mm	
240	40	5.624.101
315	45	5.624.102
420	55	5.624.103
500	75	5.624.104



**Drying tubes. With 1 bulb.**

Shape	Length mm	I. D. mm	
Straight	100	13	2.110.100
Straight	125	13	2.110.125
Straight	150	13	2.110.150
Straight	200	18	2.110.200
Bent	100	13	2.112.100
Bent	125	13	2.112.125
Bent	150	13	2.112.150
Bent	200	18	2.112.200

**Drying tubes. U-shaped.**

ST	Length mm	I. D. mm	
<b>With ST-stoppers</b>			
10/19	80	9	2.114.080
12/21	100	13	2.114.100
14/23	125	16	2.114.125
19/26	150	18	2.114.150
19/26	250	18	2.114.250
<b>With side connections</b>			
-	80	9	2.115.080
-	100	13	2.115.100
-	125	16	2.115.125
-	150	18	2.115.150
-	250	18	2.115.250
<b>U-tubes</b>			
-	80	9	2.116.080
-	100	13	2.116.100
-	125	16	2.116.125
-	150	18	2.116.150
-	250	18	2.116.250



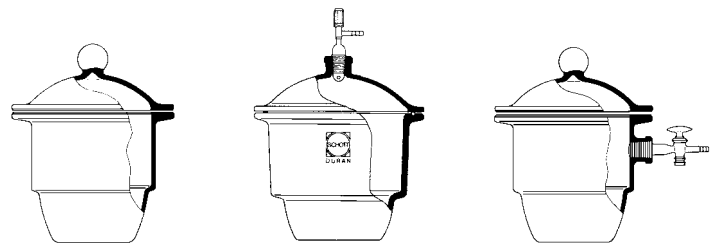
**Desiccators, with stopcock.** Lower part and plate made of PP, lid PC. The desiccator is vacuum adjusted. The inset for chloride of lime serves as holding device for perforated porcelain plates.

O. D. mm	Height mm	Complete	O-ring Neopren	Piece PP
150	190	7.082.001	7.084.001	7.085.001
200	230	7.082.002	7.084.002	7.085.002
250	300	7.082.003	7.084.003	7.085.003
Stopcock		7.083.001		

**Desiccators "NOVUS", borosilicate glass.**

1. With knobbed lid.
2. With tubulated lid, with needle valve stopcock and cone ST 24/29.
3. With ST-stopcock and cone ST 24/29 in side tubus and knobbed lid.

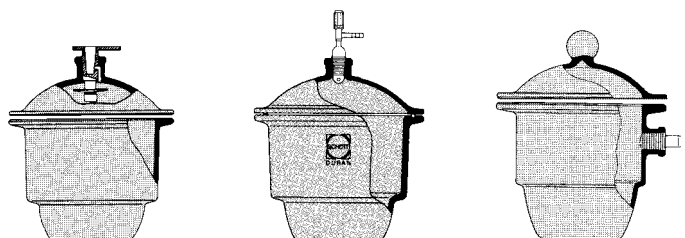
I. D. mm	1.	2.	3.
100	5.650.100	5.660.100	5.670.100
150	5.650.150	5.660.150	5.670.150
200	5.650.200	5.660.200	5.670.200
250	5.650.250	5.660.250	5.670.250
300	5.650.300	5.660.300	5.670.300



**Desiccators "NOVUS", borosilicate glass.** With safety PROTEFAN coating as implosion and splinter protection.

1. With needle valve stopcock.
2. With needle valve stopcock in side tubulation and knobbed lid.
3. With improved Wortex sealing device.

I. D. mm	1.	2.	3.
200	5.065.200	5.070.200	5.075.200
250	5.065.250	5.070.250	5.075.250
300	5.065.300	5.070.300	5.075.300

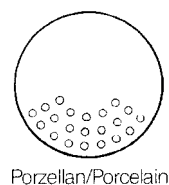
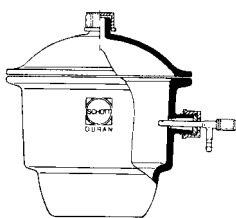




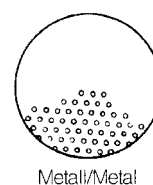
**Desiccators "MOBILEX"**, borosilicate glass. With safety PROTEFAN coating as implosion and splinter protection.

1. With lid with screw thread and screw-closure cap.
2. With lid with screw thread, screw-connection cap with aperture, silicone sealing ring, ST-stopcock, screw-closure cap.
3. With screw thread at side of base, screw-connection cap with aperture, silicone sealing ring, ST-stopcock, screw-closure cap.

Capacity ml	1.	2.	3.
200	5.050.200	5.055.200	5.060.200
250	5.050.250	5.055.250	5.060.250
300	5.050.300	5.055.300	5.060.300



Porzellan/Porcelain



Metall/Metal

**Desiccator, vacuum**, Splinter and implosion safety PROTEFAN coated. Complete with adapters and 1 manometer. 250 mm dia., borosilicate glass, lid and side tube ST 24, with ring nut, with PTFE-needle valve stopcock. The vacuumeter can be used in lid or side tubulature.



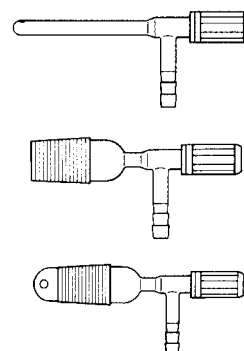
Type	
Complete	5.661.250
Spare parts:	
Adapters, 2 x GL 25, with caps and silicone seals, PTFE-covered	5.661.001
PTFE-needle valve stopcock	5.661.002
Vacuumeter, analog 1000...0 mbar, 760...0 mm/Hg	5.661.003

**Desiccator plates**, without feet, 20 mm dia., centre hole and many small holes 5 mm dia.

Dia. mm	Porcelain	Metal
90	8.535.001	8.662.801
140	8.535.003	8.662.803
190	8.535.005	8.662.805
235	8.535.006	8.662.806
280	8.535.007	8.662.807

## Accessories for desiccators.

Type	
Stopcock, Type MOBILEX, with PTFE needle valve stopcock, for thread-connection with overtight device for stopcock	5.662.002
Stopcock, for lateral tubulature, ST 24/29, Type NOVUS, with PTFE needle valve stopcock, with overtight device, with FCH-V 24/29, flat-free, high vacuum joint	5.662.003
Stopcock for lids, ST 24/29, with PTFE-needle valve stopcock, with overtight device with FCH-V 24/29, flat-free, high vacuum joint	5.662.004
Stopcock for lids, ST 24/29, with PTFE-needle valve stopcock, with overtight device with FCH-V 24/29, flat-free, high vacuum joint	5.662.005
Flat flange rings for enlarging volume of the desiccators 250 mm dia.	5.662.000



**Water estimators, Dean Stark.** With flask, round bottom 500 ml, ST 29/32. Measuring tube with cone/socket ST 29/32.

With	
Complete with measuring tube 2 ml: 0.05 ml	2.890.001
Complete with measuring tube 7.5 ml: 0.1 ml	2.890.002
Complete with measuring tube 10 ml: 0.1 ml	2.890.003
Complete with measuring tube 25 ml: 0.2 ml	2.890.004
Spare parts:	
Flasks, round bottom, 500 ml, ST 29/32	2.890.005
Measuring tube 2 ml: 0.05 ml, without stopcock	2.890.006
Measuring tube 7.5 ml: 0.1ml, without stopcock	2.890.007
Measuring tube 10 ml: 0.1 ml, without stopcock	2.890.008
Measuring tube 25 ml: 0.2 ml, without stopcock	2.890.009
Condenser acc.to West, 250 mm jacket length, with cone ST 29/32	2.890.010
Sampler tube, length 700 mm	2.890.011
Complete with measuring tube 10 ml: 0.1 ml, with ST-stopcock	2.892.000
Spare parts:	
Flasks, round bottom, 500 ml, ST 29/32	2.892.001
Measuring tube 10 ml: 0.1 ml, with ST-stopcock	2.892.002
Measuring tube 10 ml: 0.1 ml, 0-point at the top	2.892.102
Measuring tube 20 ml: 0.3 ml, with ST-stopcock	2.892.202
Measuring tube 25 ml: 0.1 ml, with ST-stopcock	2.892.252
Measuring tube 25 ml: 0.1 ml, 0-point at the top	2.892.152
Condenser acc.to West, 400 mm jacket length, with cone ST 29/32	2.892.003
Sampler tube, length 800 mm	2.892.004

