

# CO<sub>2</sub> Testing Equipment

## ASCO CO<sub>2</sub> Gas Purity Tester

part no. 900138



The **ASCO** CO<sub>2</sub> Gas Purity Tester has been designed to measure the purity of CO<sub>2</sub> up to 99.995 % in a quick, easy and reliable way. Essential for bottling plants, breweries, beverage manufacturers and industrial gas companies.

The complete kit contains all equipment for a simple, safe and fast CO<sub>2</sub> gas purity test and is complete with easy instructions (step by step pictures on a laminated A3 sheet). The **ASCO** CO<sub>2</sub> Gas Purity Tester (stainless steel) can be used either wall-mounted or free standing.

Step 1	Step 2	Step 3	Step 4	Step 5
Remove the red lid on the top.	Turn the 3-way valve to the position shown.	Close "Flow" valve (clockwise). Connect sampled gas to CO <sub>2</sub> source (gas phase or tank or cylinder or vaporized liquid from tank, never in liquid phase directly) and to CO <sub>2</sub> "Flow" valve.	Open the blue and black valves at least 3 turns. Now slowly open the CO <sub>2</sub> source valve and then the "Flow" valve so that you can hear or feel the flow of CO <sub>2</sub> through the tester. Stop purging to end of step 5.	Close the blue valve for 2 minutes. Then open the blue valve again.
Gently close the black valve. Make sure that it is tight. Purge for at least 1 minute. Then close CO <sub>2</sub> source.	Close (clockwise) the CO <sub>2</sub> "Flow" control valve.	Close (clockwise) the blue valve.	Turn 3-way valve to the indicated position clockwise.	Fill caustic potash or caustic soda to the level shown. Mixture explained in supplied manual.
Slowly open the blue valve and the caustic solution will absorb the CO <sub>2</sub> gas in the purity tester.	After max. 10 minutes read the indicated purity value (bottom of the meniscus). Compare the value with the conversion table on the right hand side.	Turn 3-way valve clockwise to indicated position to drain the tester.		

**CAUTION**

When handling with caustic potash or caustic soda avoid direct contact with eyes and skin (wear protective gloves and glasses). In the event of contact with eyes or skin rinse for at least 10 minutes with cold running water. Seek medical advice.

**Purity conversion table**

Impurities %	Purity %
0.0	99.995
0.005	99.990
0.010	99.985
0.015	99.980
0.020	99.975
0.025	99.970
0.030	99.965
0.035	99.960
0.040	99.955
0.045	99.950
0.050	99.945
0.055	99.940
0.060	99.935
0.065	99.930
0.070	99.925
0.075	99.920
0.080	99.915
0.085	99.910
0.090	99.905
0.095	99.900
0.100	99.895
0.105	99.890
0.110	99.885
0.115	99.880
0.120	99.875
0.125	99.870
0.130	99.865
0.135	99.860
0.140	99.855
0.145	99.850
0.150	99.845
0.155	99.840
0.160	99.835
0.165	99.830
0.170	99.825
0.175	99.820
0.180	99.815
0.185	99.810
0.190	99.805
0.195	99.800
0.200	99.795
0.205	99.790
0.210	99.785
0.215	99.780
0.220	99.775
0.225	99.770
0.230	99.765
0.235	99.760
0.240	99.755
0.245	99.750
0.250	99.745
0.255	99.740
0.260	99.735
0.265	99.730
0.270	99.725
0.275	99.720
0.280	99.715
0.285	99.710
0.290	99.705
0.295	99.700
0.300	99.695
0.305	99.690
0.310	99.685
0.315	99.680
0.320	99.675
0.325	99.670
0.330	99.665
0.335	99.660
0.340	99.655
0.345	99.650
0.350	99.645
0.355	99.640
0.360	99.635
0.365	99.630
0.370	99.625
0.375	99.620
0.380	99.615
0.385	99.610
0.390	99.605
0.395	99.600
0.400	99.595
0.405	99.590
0.410	99.585
0.415	99.580
0.420	99.575
0.425	99.570
0.430	99.565
0.435	99.560
0.440	99.555
0.445	99.550
0.450	99.545
0.455	99.540
0.460	99.535
0.465	99.530
0.470	99.525
0.475	99.520
0.480	99.515
0.485	99.510
0.490	99.505
0.495	99.500
0.500	99.495
0.505	99.490
0.510	99.485
0.515	99.480
0.520	99.475
0.525	99.470
0.530	99.465
0.535	99.460
0.540	99.455
0.545	99.450
0.550	99.445
0.555	99.440
0.560	99.435
0.565	99.430
0.570	99.425
0.575	99.420
0.580	99.415
0.585	99.410
0.590	99.405
0.595	99.400
0.600	99.395
0.605	99.390
0.610	99.385
0.615	99.380
0.620	99.375
0.625	99.370
0.630	99.365
0.635	99.360
0.640	99.355
0.645	99.350
0.650	99.345
0.655	99.340
0.660	99.335
0.665	99.330
0.670	99.325
0.675	99.320
0.680	99.315
0.685	99.310
0.690	99.305
0.695	99.300
0.700	99.295
0.705	99.290
0.710	99.285
0.715	99.280
0.720	99.275
0.725	99.270
0.730	99.265
0.735	99.260
0.740	99.255
0.745	99.250
0.750	99.245
0.755	99.240
0.760	99.235
0.765	99.230
0.770	99.225
0.775	99.220
0.780	99.215
0.785	99.210
0.790	99.205
0.795	99.200
0.800	99.195
0.805	99.190
0.810	99.185
0.815	99.180
0.820	99.175
0.825	99.170
0.830	99.165
0.835	99.160
0.840	99.155
0.845	99.150
0.850	99.145
0.855	99.140
0.860	99.135
0.865	99.130
0.870	99.125
0.875	99.120
0.880	99.115
0.885	99.110
0.890	99.105
0.895	99.100
0.900	99.095
0.905	99.090
0.910	99.085
0.915	99.080
0.920	99.075
0.925	99.070
0.930	99.065
0.935	99.060
0.940	99.055
0.945	99.050
0.950	99.045
0.955	99.040
0.960	99.035
0.965	99.030
0.970	99.025
0.975	99.020
0.980	99.015
0.985	99.010
0.990	99.005
0.995	99.000

Easy step by step instruction

## ASCO CO<sub>2</sub> Gas Purity Tester: Standard scope of supply

### ASCO CO<sub>2</sub> Gas Purity Tester

Complete kit comprises:

- CO<sub>2</sub> purity tester
- pair of protective gloves
- protective glasses
- two plastic containers
- flexible hose

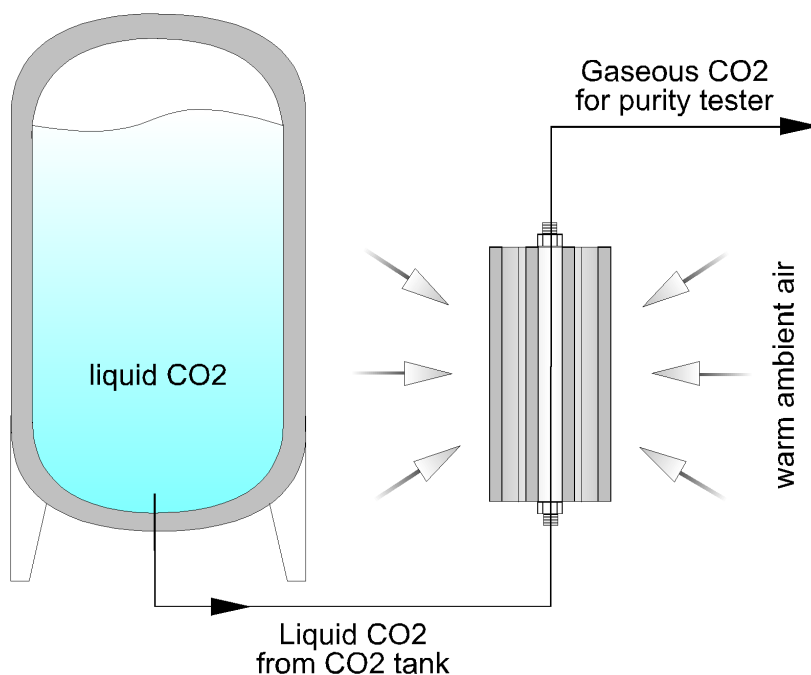
part no. 900138



## Mini-Vaporiser for CO<sub>2</sub> Gas Purity Tester: Application

### CO<sub>2</sub> Mini-Vaporiser for ASCO CO<sub>2</sub> Gas Purity Tester

The mini-vaporiser vaporises liquid CO<sub>2</sub> into gaseous form. Gaseous CO<sub>2</sub> will be used to measure the CO<sub>2</sub> purity with the purity tester.



## ASCO CO<sub>2</sub> Gas Purity Tester: Options

Pos. 001

### Mini-Vaporiser for CO<sub>2</sub> Gas Purity Tester

Equipped with flow regulator  
Maximum inlet pressure 25 bar (348 psi)

Including:

- adaptor 1 1/2" (38mm) made of stainless steel
- adaptor 1" made of stainless steel
- high pressure hose, PFTE, DN5, 6L, 2 m (6.6 ft)
- short instruction manual A3

part no. 4046324

