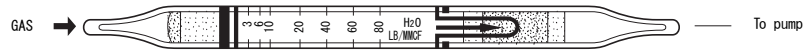
Tube No.
177UL

WATER VAPOUR



1. PERFORMANCE

1) Measuring range : 3-80 LB/MMCF
   Number of pump strokes 1 (100mL)
2) Sampling time : 1 minute/1 pump stroke
3) Detectable limit : 2 LB/MMCF
4) Shelf life : 3 years
5) Operating temperature : 0～40℃
6) Temperature compensation : Necessary(See "TEMPERATURE CORRECTION TABLE")
7) Reading : Direct reading from the scale calibrated by 1 pump stroke
8) Colour change : Yellow→Blue, Yellowish green (below 40 LB/MMCF)

2. RELATIVE STANDARD DEVIATION

RSD-low : 10% RSD-mid. : 10% RSD-high : 10%

3. CHEMICAL REACTION

$H_2O + Mg(ClO_4)_2 \rightarrow Mg(ClO_4) \cdot H_2O$

4. CALIBRATION OF THE TUBE

DIFFUSION TUBE METHOD

5. INTERFERENCE AND CROSS SENSITIVITY

Substance	Interference	Coexistence
Alcohols	Similar stain is produced.	Higher readings are given.
Benzene	The accuracy of readings is not affected.	
Toluene	〃	
Hexane	〃	
Sulphur dioxide	〃	
Hydrogen sulphide	〃	

TEMPERATURE CORRECTION TABLE

Temperature ; To correct for temperature, multiply the tube reading by the following factors.

Temperature(℃)	0	1	2	3	4	5	6	7	8	9
Correction Factor	1.85	1.81	1.77	1.72	1.68	1.63	1.59	1.54	1.49	1.45
Temperature(℃)	10	11	12	13	14	15	16	17	18	19
Correction Factor	1.40	1.36	1.31	1.27	1.23	1.19	1.15	1.11	1.07	1.03
Temperature(℃)	20	21	22	23	24	25	26	27	28	29
Correction Factor	1.00	0.96	0.93	0.90	0.87	0.84	0.81	0.78	0.76	0.73
Temperature(℃)	30	31	32	33	34	35	36	37	38	39
Correction Factor	0.71	0.68	0.66	0.64	0.62	0.60	0.58	0.56	0.55	0.53
Temperature(℃)	40									
Correction Factor	0.51									