

Table 12-12

UNIFORM PLUMBING CODE OF ABU DHABI:  
AN ENVIRONMENTAL GUIDE FOR  
WATER SUPPLY AND SANITATION

**Table 12-12 Semi-Rigid Copper Tubing [NFPA 54: Table 6.2(g)]**

		Gas: Natural								
		Inlet Pressure: Less than 0.138bar								
		Pressure Drop: 12.7mm w.c.								
		Specific Gravity: 0.6								
		Tube Size (mm)								
DN:	K&L:	8	10	15	18	20	25	32	40	50
	ACR:	9.5	15	18	20	22	28	35	----	----
Length (m)		Capacity in m <sup>3</sup> /h								
3	0.8	1.6	3.1	5.5	7.8	16.7	30.0	47.6	98.8	
6	0.5	1.1	2.2	3.8	5.4	11.5	20.7	32.6	67.9	
9	0.4	0.8	1.7	3.0	4.3	9.2	16.6	26.2	54.6	
12	0.4	0.7	1.5	2.6	3.7	7.9	14.2	22.4	46.7	
15	0.3	0.7	1.3	2.3	3.3	7.0	12.6	19.8	41.3	
18	0.3	0.6	1.2	2.1	3.0	6.3	11.4	18.0	37.4	
21	NA	0.5	1.1	1.9	2.7	5.8	10.5	16.6	34.5	
24	NA	0.5	1.0	1.8	2.5	5.4	9.8	15.4	32.0	
27	NA	0.5	1.0	1.7	2.4	5.1	9.2	14.4	30.0	
30	NA	0.5	0.9	1.6	2.2	4.8	8.7	13.6	28.3	
38	NA	0.4	0.8	1.4	2.0	4.3	7.7	12.1	25.2	
45	NA	0.4	0.7	1.3	1.8	3.9	6.9	11.0	22.8	
53	NA	0.3	0.7	1.2	1.7	3.5	6.4	10.1	21.0	
60	NA	0.3	0.6	1.1	1.6	3.3	5.9	9.4	19.5	
75	NA	NA	0.6	1.0	1.4	2.9	5.3	8.3	17.3	
90	NA	NA	0.5	0.9	1.2	2.7	4.8	7.5	15.7	
105	NA	NA	0.5	0.8	1.1	2.4	4.4	6.9	14.4	
120	NA	NA	0.4	0.7	1.1	2.3	4.1	6.5	13.4	
135	NA	NA	0.4	0.7	1.0	2.1	3.8	6.1	12.6	
150	NA	NA	0.4	0.7	0.9	2.0	3.6	5.7	11.9	
165	NA	NA	0.4	0.6	0.9	1.9	3.5	5.4	11.3	
180	NA	NA	0.3	0.6	0.8	1.8	3.3	5.2	10.8	
195	NA	NA	0.3	0.6	0.8	1.8	3.1	5.0	10.3	
210	NA	NA	0.3	0.6	0.8	1.7	3.0	4.8	9.9	
225	NA	NA	0.3	0.5	0.8	1.6	2.9	4.6	9.6	
240	NA	NA	0.3	0.5	0.7	1.6	2.8	4.4	9.2	
255	NA	NA	0.3	0.5	0.7	1.5	2.7	4.3	8.9	
270	NA	NA	NA	0.5	0.7	1.5	2.6	4.2	8.7	
285	NA	NA	NA	0.5	0.7	1.4	2.5	4.0	8.4	
300	NA	NA	NA	0.5	0.7	1.4	2.5	3.9	8.2	
330	NA	NA	NA	0.4	0.6	1.3	2.4	3.7	7.8	
360	NA	NA	NA	0.4	0.6	1.2	2.3	3.6	7.4	
390	NA	NA	NA	0.4	0.6	1.2	2.2	3.4	7.1	
420	NA	NA	NA	0.4	0.5	1.2	2.1	3.3	6.8	
450	NA	NA	NA	0.4	0.5	1.1	2.0	3.1	6.6	
480	NA	NA	NA	0.4	0.5	1.1	1.9	3.1	6.3	
510	NA	NA	NA	0.3	0.5	1.0	1.9	2.9	6.1	
540	NA	NA	NA	0.3	0.5	1.0	1.8	2.9	5.9	
570	NA	NA	NA	0.3	0.5	1.0	1.8	2.8	5.8	
600	NA	NA	NA	0.3	0.5	1.0	1.7	2.7	5.6	

NA means a flow of less than 0.3m<sup>3</sup>/h

**Note:** All table entries are rounded to 3 significant digits.

\*Table capacities are based on Type K copper tubing inside diameter (shown), which has the smallest inside diameter of the copper tubing products.

SI: 1m = 3.3 ft.; 1mm = 0.04 in.; 1m<sup>3</sup> = 33.3 ft.<sup>3</sup>; 1bar = 14.5 psi