

Table 12-14

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

TABLE 12-14 Semi-Rigid Copper Tubing [NFPA 54: Table 6.2(i)]

		Gas: Natural								
		Inlet Pressure: Less than 0.138bar								
		Pressure Drop: 0.049bar								
		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 ³ /h								
3		5.4	11.1	22.5	39.4	55.8	119.5	214.9	339.7	704.9
6		3.7	7.6	15.5	27.1	38.5	82.1	147.8	233.0	484.1
9		3.0	6.1	12.4	21.7	30.9	66.0	118.6	187.1	390.7
12		2.5	5.2	10.6	18.6	26.4	56.3	101.6	160.0	334.1
15		2.2	4.6	9.4	16.5	23.4	50.1	90.0	141.8	294.4
18		2.0	4.2	8.5	14.9	21.2	45.3	81.5	128.5	267.8
21		1.9	3.9	7.9	13.8	19.5	41.6	75.0	118.3	246.3
24		1.8	3.6	7.3	12.8	18.1	38.8	69.6	110.1	229.0
27		1.6	3.4	6.9	12.0	17.0	36.2	65.4	103.3	214.9
30		1.6	3.2	6.5	11.3	16.1	34.3	61.7	97.4	203.0
38		1.4	2.8	5.7	10.1	14.2	30.6	54.9	86.3	180.1
45		1.2	2.5	5.2	9.1	12.9	27.6	49.5	78.4	163.1
53		1.1	2.3	4.8	8.4	11.9	25.4	45.6	71.9	150.0
60		1.1	2.2	4.4	7.8	11.0	23.6	42.5	67.1	139.6
75		0.9	2.0	4.0	6.9	9.8	20.9	37.7	59.5	123.7
90		0.8	1.8	3.6	6.3	8.9	19.0	34.3	53.8	112.1
105		0.8	1.6	3.3	5.7	8.2	17.4	31.4	49.5	103.0
120		0.7	1.5	3.1	5.4	7.6	16.2	29.2	46.1	96.0
135		0.7	1.4	2.9	5.0	7.1	15.2	27.4	43.3	90.0
150		0.7	1.3	2.7	4.8	6.7	14.4	25.9	40.8	84.9
165		0.6	1.3	2.6	4.5	6.4	13.6	24.6	38.8	80.7
180		0.6	1.2	2.5	4.3	6.1	13.0	23.5	37.1	77.0
195		0.6	1.2	2.3	4.1	5.8	12.5	22.4	35.4	73.9
210		0.5	1.1	2.3	4.0	5.6	12.0	21.6	34.0	70.8
225		0.5	1.1	2.2	3.8	5.4	11.6	20.8	32.8	68.2
240		0.5	1.0	2.1	3.7	5.2	11.2	20.1	31.7	66.0
255		0.5	1.0	2.0	3.6	5.0	10.8	19.4	30.6	63.7
270		0.5	1.0	2.0	3.5	4.9	10.5	18.8	29.7	61.7
285		0.5	0.9	1.9	3.3	4.8	10.2	18.3	28.9	60.0
300		0.5	0.9	1.9	3.3	4.6	9.9	17.8	28.1	58.3
330		0.4	0.9	1.8	3.1	4.4	9.4	16.9	26.6	55.5
360		0.4	0.8	1.7	2.9	4.2	8.9	16.1	25.4	52.9
390		0.4	0.8	1.6	2.8	4.0	8.6	15.4	24.3	50.7
420		0.4	0.8	1.6	2.7	3.9	8.2	14.8	23.4	48.7
450		0.4	0.7	1.5	2.6	3.7	7.9	14.3	22.5	47.0
480		0.3	0.7	1.4	2.5	3.6	7.7	13.8	21.7	45.3
510		0.3	0.7	1.4	2.4	3.5	7.4	13.4	21.1	43.9
540		0.3	0.7	1.4	2.4	3.4	7.2	12.9	20.4	42.5
570		0.3	0.7	1.3	2.3	3.3	7.0	12.6	19.8	41.3
600		0.3	0.6	1.3	2.2	3.2	6.8	12.2	19.3	40.2

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.; 1m³ = 33.3 ft.³; 1bar = 14.5 psi