

Table 12-34

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

**TABLE 12-34 Semi-Rigid Copper Tubing [NFPA 54: Table 6.3(g)]**

						Gas:		Undiluted Propane		
						Inlet Pressure:		0.014bar		
						Pressure Drop:		0.069bar		
						Specific Gravity:		1.50		
INTENDED USE: Tube Sizing Between 0.138bar Service and Line Pressure Regulator										
	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 kW								
3		121.0	249.6	506.9	887.8	1,259.9	2,686.8	4,834.5	7,618.0	15,880.6
6		83.2	171.4	348.7	609.4	864.4	1,848.8	3,340.2	5,244.7	10,928.9
9		66.8	137.7	280.1	489.3	694.4	1,482.6	2,672.2	4,219.2	8,760.7
12		57.1	117.8	239.7	419.0	594.8	1,268.7	2,285.4	3,603.9	7,500.8
15		50.7	104.3	212.4	372.1	527.4	1,125.1	2,027.6	3,193.7	6,651.1
18		46.0	94.6	192.5	337.0	477.6	1,019.6	1,837.1	2,894.8	6,035.8
21		42.2	87.0	177.3	310.6	439.5	937.6	1,687.7	2,663.4	5,537.7
24		39.3	80.9	164.7	288.0	407.3	873.1	1,570.5	2,475.9	5,156.8
27		36.9	75.9	154.7	270.1	383.8	817.5	1,473.8	2,323.5	4,834.5
30		34.9	71.8	145.9	255.2	363.3	773.5	1,391.8	2,194.6	4,570.8
38		30.8	63.6	129.5	226.2	322.3	685.6	1,233.5	1,945.5	4,043.4
45		27.8	57.7	117.2	205.1	290.7	621.2	1,119.3	1,763.9	3,662.5
53		25.8	53.0	107.8	188.7	267.5	571.4	1,028.4	1,623.2	3,369.5
60		24.0	49.2	100.5	175.5	248.8	530.3	958.1	1,509.0	3,135.1
75		21.1	43.7	89.1	155.6	220.6	471.7	849.7	1,336.1	2,786.4
90		19.3	39.6	80.6	140.9	199.8	427.8	767.7	1,213.0	2,522.7
105		17.6	36.3	74.1	129.5	184.0	392.6	706.1	1,113.4	2,320.6
120		16.4	34.0	68.9	120.4	171.1	366.3	659.3	1,037.2	2,159.4
135		15.5	31.9	64.8	113.1	160.6	342.8	618.2	972.8	2,027.6
150		14.7	30.2	61.2	106.9	151.5	325.2	583.1	920.0	1,913.3
165		13.8	28.4	58.0	101.4	143.9	307.7	553.8	873.1	1,819.5
180		13.2	27.2	55.4	96.7	137.4	293.0	527.4	832.1	1,734.6
195		12.6	26.1	53.0	92.6	131.6	281.0	506.9	797.0	1,661.3
210		12.0	25.2	51.0	89.1	126.3	269.9	486.4	767.7	1,596.9
225		11.7	24.0	49.2	85.8	121.6	260.2	468.8	738.4	1,538.3
240		11.4	23.4	47.5	82.9	117.5	251.1	451.2	712.0	1,485.5
255		10.8	22.6	46.0	80.3	113.7	242.9	436.6	688.6	1,435.7
270		10.5	22.0	44.5	77.6	110.2	235.6	424.9	668.0	1,391.8
285		10.3	21.1	43.1	75.6	107.2	228.8	413.1	650.5	1,353.7
300		10.0	20.8	41.9	73.5	104.3	222.7	401.4	632.9	1,315.6
330		9.4	19.6	39.8	69.7	99.0	211.3	380.9	600.7	1,251.1
360		9.1	18.8	38.1	66.5	94.3	201.6	363.3	571.4	1,192.5
390		8.8	17.9	36.3	63.6	90.5	193.1	348.7	547.9	1,142.7
420		8.2	17.3	35.2	61.2	86.7	185.5	334.0	527.4	1,095.8
450		7.9	16.7	33.7	58.9	83.8	178.7	322.3	506.9	1,057.7
480		7.6	16.1	32.5	56.8	80.9	172.6	310.6	489.3	1,019.6
510		7.6	15.5	31.6	55.1	78.2	167.0	301.8	474.7	987.4
540		7.3	14.9	30.5	53.3	75.9	162.0	293.0	460.0	958.1
570		7.0	14.7	29.6	51.9	73.5	157.3	283.0	445.4	928.8
600		6.7	14.1	29.0	50.4	71.5	152.9	275.4	433.6	905.4

**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