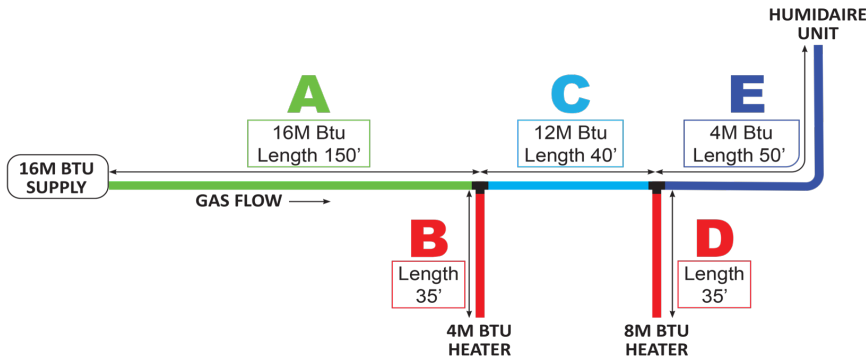


Natural GAS



Pipe sizing is a function of BTUs travelling through the pipe, effective length of the pipe, and the supply pressure. BTUs are simple to calculate (as shown above), effective pipe length is a little more complex (see below), and supply pressure is from your gas company.

The effective length of pipe A is the longest path from the start of pipe A (supply) to the furthest machine (Humidaire). So effectively pipe A is 240 feet long (A + C + E).

The effective length of Pipe C is the longest path from the start of pipe C ("T" junction where A,B,C intersect) to the furthest machine (Humidaire). So effectively pipe C is 90 feet long (C + E).

Pipes B, D, and E are simply their respective lengths: B is 35 feet, D is 35 feet, and E is 50 feet.

4 Million BTU / Hour

Supply PSI	Pipe Length (Feet)	Min Pipe Size
10	200	1.5
15		1.5
20		1
25		1
10	500	2
15		1.5
20		1.5
25		1.5
10	1000	3
15		1.5
20		1.5
25		1.5
10	5280	3
15		2
20		2
25		2

8 Million BTU / Hour

Supply PSI	Pipe Length (Feet)	Min Pipe Size (Inches)
10	200	2
15		1.5
20		1.5
25		1.5
10	500	3
15		2
20		1.5
25		1.5
10	1000	3
15		2
20		2
25		1.5
10	5280	4
15		3
20		3
25		3

16 Million BTU / Hour

Supply PSI	Pipe Length (Feet)	Min Pipe Size (Inches)
10	200	3
15		2
20		2
25		1.5
10	500	4
15		3
20		2
25		2
10	1000	4
15		3
20		3
25		2
10	5280	6
15		4
20		3
25		3

Pipe sizes are for schedule 40 pipe and based on a minimum of 9 PSIG delivered to the inlet of the Heater or Humidaire. Use the pipe length that is equal to or longer than the effective length: for 240 feet use 500 feet in the table. Use the BTU rating that is equal to or higher than the BTU needed: for 12M use 16M.

Natural GAS

24 Million BTU / Hour

Supply PSI	Pipe Length (Feet)	Min Pipe Size (Inches)
10	200	4
15		3
20		2
25		2
10	500	4
15		3
20		3
25		2
10	1000	6
15		3
20		3
25		3
10	5280	6
15		4
20		4
25		4

32 Million BTU / Hour

Supply PSI	Pipe Length (Feet)	Min Pipe Size (Inches)
10	200	4
15		3
20		3
25		2
10	500	6
15		3
20		3
25		3
10	1000	6
15		4
20		3
25		3
10	5280	8
15		6
20		4
25		4

40 Million BTU / Hour

Supply PSI	Pipe Length (Feet)	Min Pipe Size (Inches)
10	200	4
15		3
20		3
25		3
10	500	6
15		4
20		3
25		3
10	1000	6
15		4
20		4
25		3
10	5280	8
15		6
20		6
25		4

64 Million BTU / Hour

Supply PSI	Pipe Length (Feet)	Min Pipe Size (Inches)
10	200	6
15		4
20		3
25		3
10	500	6
15		4
20		4
25		3
10	1000	6
15		6
20		4
25		4
10	5280	10
15		6
20		6
25		6

Pipe sizes are for schedule 40 pipe and based on a minimum of 9 PSIG delivered to the inlet of the Heater or Humidaira. Use the pipe length that is equal to or longer than the effective length: for 240 feet use 500 feet in the table. Use the BTU rating that is equal to or higher than the BTU needed: for 12M use 16M.

Propane Gas

4 Million BTU / Hour

Supply PSI	Pipe Length (Feet)	Min Pipe Size (Inches)
10	200	1.5
15		1
10	500	1.5
15		1
10	1000	2
15		1.5
10	5280	3
15		1.5

8 Million BTU / Hour

Supply PSI	Pipe Length (Feet)	Min Pipe Size (Inches)
10	200	1.5
15		1.5
10	500	2
15		1.5
10	1000	3
15		1.5
10	5280	3
15		2

16 Million BTU / Hour

Supply PSI	Pipe Length (Feet)	Min Pipe Size (Inches)
10	200	2
15		1.5
10	500	3
15		2
10	1000	3
15		2
10	5280	4
15		3

24 Million BTU / Hour

Supply PSI	Pipe Length (Feet)	Min Pipe Size (Inches)
10	200	3
15		1.5
10	500	3
15		2
10	1000	3
15		3
10	5280	4
15		3

32 Million BTU / Hour

Supply PSI	Pipe Length (Feet)	Min Pipe Size (Inches)
10	200	3
15		2
10	500	4
15		3
10	1000	4
15		3
10	5280	6
15		4

40 Million BTU / Hour

Supply PSI	Pipe Length (Feet)	Min Pipe Size (Inches)
10	200	3
15		2
10	500	4
15		3
10	1000	4
15		3
10	5280	6
15		4

64 Million BTU / Hour

Supply PSI	Pipe Length (Feet)	Min Pipe Size (Inches)
10	200	4
15		3
10	500	6
15		3
10	1000	6
15		4
10	5280	8
15		6

Pipe sizes are for schedule 40 pipe and based on a minimum of 9 PSIG delivered to the inlet of the Heater or Humidaira. Use the pipe length that is equal to or longer than the effective length: for 240 feet use 500 feet in the table. Use the BTU rating that is equal to or higher than the BTU needed: for 12M use 16M.