

**Product Bulletin Advisement**

**Bulletin #:** 7-052104  
**Brand:** Garland and U.S. Range  
**Date:** May 21, 2004  
**From:** Brian Arnold  
**Subject:** Master Series and Cuisine Series Heavy Duty Front Manifold Gas Units

Time to time we get questions on our front manifold banking, heavy-duty gas ranges such as:  
 What is the maximum gas flow capacities we can use on a specific gas line?  
 How many units can be banked together before we need another incoming line?

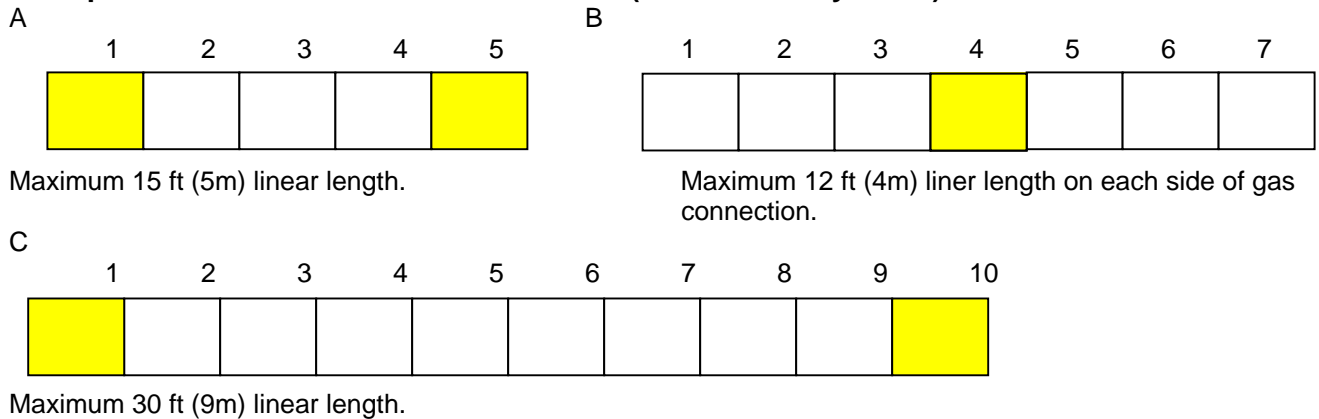
Unless you are the licensed gas fitter doing the installation, your responsibility has nothing to do with the sizing of the main gas lines only where it is applicable on the equipment requirements. In answer to these questions, we offer the following recommendations and base guidelines to assist you.

**Maximum BTU/hr. Capacity, Front or Rear "T" Gas Feed (per gas connection)**

Gas Type pipe & In Coming Supply Pressure	¾" *NPT pipe	1" NPT pipe	1 ¼" NPT pipe	2" NPT
**Nat. 7" to 8" w/c	200,000	300,000	600,000	1,500,000
***LPG 11"	400,000	600,000	1,200,000	2,200,000

\*NPT = National pipe thread (this is what the industry recognizes as standard pipe size for gas lines)  
 \*\* In North America 7" w/c =water column is common for natural gas.  
 \*\*\*LPG = Liquefied Propane Gas (commonly called propane)

**Examples of Front Manifold Gas Line Banks (Natural Gas Systems)**



Example "A" - If the BTU's were under 600,000 we can front manifold from appliance 1 or 5 and capped off the opposite end. Therefore 1 gas connection would be required.

Example "B" - If the BTU's were under 1,500,000 but over 1,200,000 we need minimum one 2" NPT rear gas connection. This would be ideally put in appliance 4 a spreader plate or cabinet with a 2" NPT "T" rear manifold gas connection. When using "T" manifolds gas connections if possible balance out the cooking line up as much as possible.

Example "C" - shows an example when we have gas supply coming in from both ends. Maximum BTU's would be 1,500,000. Special note - when there is more then one incoming line, the main supply has to be from the same regulator to balance the manifold pressure.

These are only three possibilities. As you can appreciate, there are many banking combinations. Please contact engineering for exact data if you are in doubt about a specific combination.