



North American 4950 Flame Grid Engineering Data

Sheet 4950-3

Air Capacity - Air pressure drop across burner can be varied for 0.3"w.c. to 2.0"w.c. As pressure drop increases, flame changes from long yellow to short blue.

Gas Capacity - depends on gas pressure drop and port drill size. Standard port size is #46 drill and should be used wherever possible. Manufacturing problems prohibit smaller ports, but larger ones can be furnished on request. Maximum port size depends on gas tube length.

For good distribution, minimum gas port pressure drop is 0.7"w.c. The highest drop consistent with good flame stability is 3 psi.

The table below lists natural gas capacities for maximum and minimum port sizes and various gas pressure drops. Other capacities can be obtained with intermediate port sizes and/or pressure drops. To determine required gas line pressures, add gas train drops.

Flow of natural gas (0.6 sp gr), cfh,
with gas port pressure drop of:

Burner designation	drill size	0.7"w.c. (min.)	Gas port 1.0"w.c.	3 psi (max.)
4950-0812	46 min	230	270	2500
	B max	1930	2310	21000
-1212	46 min	330	390	3600
	9 max	1930	2310	21000
-1412	46 min	400	480	4350
	15 max	1930	2310	21000
-2012	46 min	560	670	6100
	24 max	1930	2310	21000
-1424	46 min	790	940	8600
	15 max	3850	4600	42000
-2024	46 min	1120	1340	12200
	24 max	3850	4600	42000
-2624	46 min	1450	1730	15800
	29 max	3850	4600	42000
-3624	46 min	1990	2380	21700
	33 max	3850	4600	42000
-2648	46 min	2900	3470	31600
	29 max	7700	9200	84000
-3648	46 min	3980	4760	43300
	33 max	7700	9200	84000
-5248	46 min	5800	6940	63200
	29 max	15400	18400	168000
-7248	46 min	7960	9500	86600
	33 max	15400	18400	168000