

# Capacities and Ordering Information | 4988 Zephyr™

**Table 1. CAPACITIES**

Burner designation	millions of Btu/hr	motor hp and rpm		blower volume cfh at 1"w.c. ΔP	Flame lengths at 1"w.c. ΔP
		"L"	"H"		
<b>4988-1000</b>	1.0	1/3 -3450	1/2-3450	16 200	30"
<b>4988-2500</b>	2.5	1 -3450	2-3450	40 800	36"
<b>4988-4000</b>	4.0	1 -1725	3-3450	64 800	48"
<b>4988-6000</b>	6.0	1 1/2 -1725	3-3450	96 000	60"
<b>4988-9000</b>	9.0	3 -3450	—	123 000	78"

"L" blowers develop 1"w.c. air pressure at burner.

"H" models develop 4.5"w.c. at burner.

Motors are 230-460/3/60, except 115/1/60 is an option for -1000 burners.

**Temperature Effect.** Burner performance may change as oven air temperature rises from start-up to operating levels. Effect is most marked at elevated temperatures, but burner operation should be checked at all temperatures. Table 2 indicates how fan pressure changes with temperature. Altitude also affects blower capacity and pressure. Above 5000 feet, larger motors are usually required--consult North American.

When selecting burners, make sure pressure drop between burner and process is within the stability ranges of Table 3 at all temperatures and all firing rates.

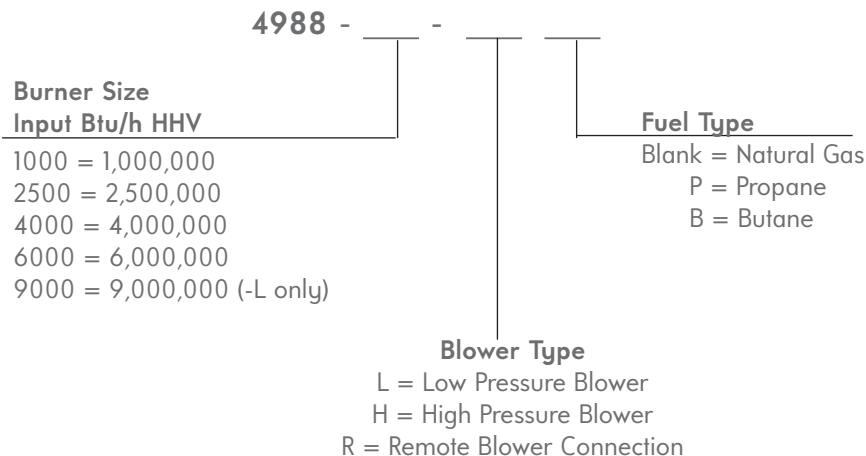
**Table 2.** Effect of air temperature on pressure developed by a recirculating fan.

temperature	factor	temperature	factor
60°F	1.00	600°F	0.49
100°F	0.93	700°F	0.45
150°F	0.85	800°F	0.42
200°F	0.79	900°F	0.38
300°F	0.68	1000°F	0.36
400°F	0.60	1100°F	0.33
500°F	0.54	1200°F	0.31

**Table 3.** Flame stability ranges.

4988- -L, H, or R	air pressure drop, "w.c.	
	minimum	maximum
1000	0.25	4.0
2500	0.50	3.0
4000	0.25	3.0
6000	0.25	2.5
9000	0.50	2.5

## ORDERING INFORMATION



To order, specify: 4988-(capacity designation)-any modifiers (L = low pressure fan, H = high pressure fan, R = remote blower, P or B = no charge modification for propane or butane--not required on -9000) electrical characteristics for burner blower motor.

*Examples:* 4988-1000-L Low Pressure Burner complete 230-460/3/60  
4988-6000-HP High Pressure Burner complete for Propane 230-460/3/60