

Extern-A-Therm Worksheet

English Units (Metric Units)

Worksheet 540
2/20/2009

Customer P.O. _____
 Customer _____
 Customer Signature _____
 Date _____

Eclipse S.O. _____
 Eclipse Rep _____
 Eclipse Rep Signature _____
 Date _____

I. Application Information

Burner Input Gross _____
 Firing at _____ % Excess Air
 Burner Turn-Down _____
 Type of Burner Control
 On-Ratio Fixed Air
 Other _____
 Furnace Temperature _____ °F (°C)
 Temperature of Exhaust _____ °F (°C)
 Exhaust Through Recuperator _____ %
 Amount of Dilution Air _____ scfh (m³/hr)
 *Use chart below to determine amount of dilution air,
 only needed if furnace temperature exceeds 2100°F
 (1148°C).

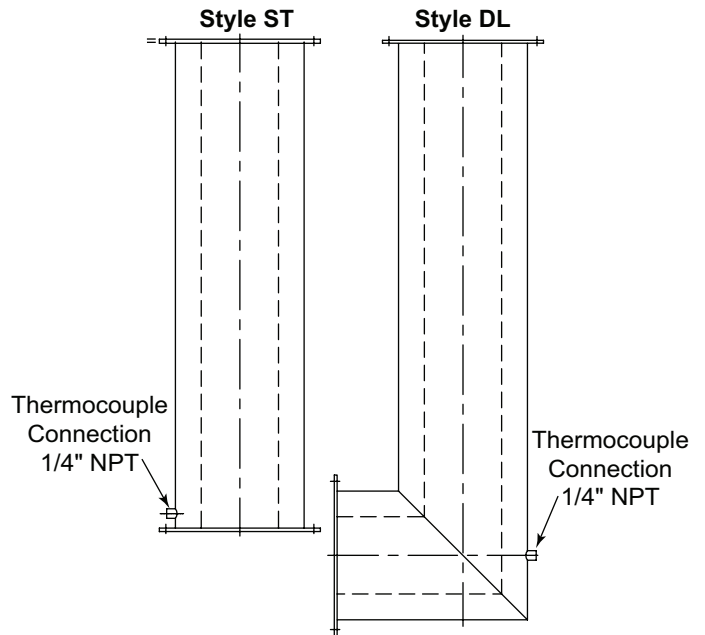
Furnace Temp °F (°C)	Burner Capacity BTU/hr (kW)				
	100,000 (29.3)	200,000 (58.6)	500,000 (146.5)	1,000,000 (293.1)	2,000,000 (586.1)
2200 (1204)	75 (2.1)	150 (4.3)	375 (10.6)	730 (20.7)	1,460 (41.3)
2300 (1260)	150 (4.2)	300 (8.5)	750 (21.2)	1,500 (42.4)	3,000 (84.9)
2400 (1315)	220 (6.2)	440 (12.4)	1,100 (31.1)	2,200 (62.3)	4,400 (124.6)

**Table Values for
Volume scfh (m³/hr) Cooling Air**

List Contaminants in Exhaust Stream

II. Heat Exchanger Configuration

Model
 300 600 1500 2500
 Housing Style
 ST DL



III. For Eclipse Engineer

Air Pressure at Max. Temp. _____ °F (°C)
 Exhaust ΔP _____ "w.c. (mbar)
 Eductor Air Flow _____ scfh (m³/hr)
 Eductor Air Pressure _____ "w.c. (mbar)
 Pre-Heated Air Temp _____ °F (°C)
 Outlet Temp _____ °F (°C)

Approved Changes Required

Engineer _____
 Date _____