



Enviro-Equipment Inc.  
10120 Industrial Drive  
Pineville NC 28134

Serial#: EEI-1274

Date: 11/10/2014

Status: in stock

Dimensions: 10' long x 6' wide x 7' tall (without stack), approx. 2,500lbs

Description: Thermtech VAC 50 Thermal Oxidizer Skid – 500 CFM – Wired 480V





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**MINUTE AUTOMATIC PURGE CYCLE IS COMPLETE.  
PURGE CYCLE ALLOWS FOR A MINIMUM OF 6  
ENCLOSURE VOLUMES OF PURGE AIR.**

**THERMTECH, INC.**

**480VAC, 3PH, 60HZ  
SYSTEM FLA 3.7 AMPS**

**SN 11501102  
VAC50**

**LARGEST MOTOR 2 HP  
REF DWG #1150ELE**

VAC 50

GENERAL DATA

* unit design flow rate	500 SCFM
* burners maximum output	1.5 mmBTU/hr
* system design BTU	1.2 mmBTU/hr
* burner turndown ratio	20 to 1
* combustion blower motor size	1 HP
* combustion chamber volume	45 ft <sup>3</sup>
* stack flow area	1 ft <sup>2</sup>
* skid dimensions	67" x 136"
* velocity through 4" process inlet	
@ 250 SCFM from process stream	47.7 ft/sec
@ 500 SCFM from process stream	95.5 ft/sec

THERMAL DATA

* combustion blower flow rate at system rating (10% excess air)	220 SCFM
* total exhaust flow rate @ 1400°F	2520 ACFM
* burner chamber volume required for 0.5 second retention time @ 1400°F	21.0 ft <sup>3</sup>
* burner chamber volume required for 1.0 second retention time @ 1500°F	32.0 ft <sup>3</sup>
* stack velocity @ 1400°F	
@ 250 SCFM from process stream	21.0 ft/sec
@ 500 SCFM from process stream	42.0 ft/sec
* estimated weight, thermal unit only	2500 lbs

CATALYTIC DATA

* combustion blower flow rate at system rating (10% excess air)	64 SCFM
* total exhaust flow rate @ 600°F	1122 ACFM
* catalyst volume for 95% DRE	0.81 ft <sup>3</sup>
* minimum inlet temperature	600°F
* minimum effluent temperature	750°F
* maximum VOC concentrations	25% of the LEL
* maximum effluent temperature	1250°F
* stack velocity @ 600°F	
@ 250 SCFM from process stream	9.4 ft/sec
@ 500 SCFM from process stream	18.7 ft/sec
* estimated weight, thermal unit plus catalytic module (95% destruction)	2700 lbs

\* The above data is typical design criteria. Specific job/unit information can be obtained by end user from ThermTech, Inc..