RT-3964 4000 CFM Catalytic Oxidizer

PRMFiltration

Self Recuperating Catalytic Oxidizer

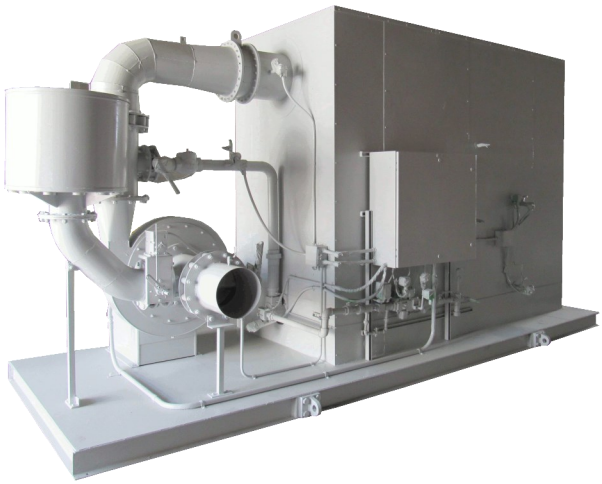
Volatile organic compound (VOC)-laden process air is drawn from the extraction wells by an SVE system. The SVE system delivers the process air to the process blower on the oxidizer skid. The process air passes through the tube side of a primary self-recuperating heat exchanger where it is preheated prior to entering the gas fired heater. The gas fired heater raises the temperature to set point prior to entering the catalyst. As this vapor-laden air mixture passes through the catalyst, an exothermic reaction occurs which is in proportion to the VOC energy concentration. The hot clean air is then passed through the shell side of the heat exchanger and then vented to atmosphere through the exhaust stack.

Dilution air control (exotherm) is achieved by an actuator with a valve installed on the inlet piping of the Oxidizer. The dilution air valve is automatically controlled by a solid state process loop controller located on the Oxidizer panel.

During the entire system operation, the burner controller modulates the automatic gas valve to maintain operating set point.

Features:

- NEMA 4 UL 508a listed panel mounted to the skid of the Oxidizer system.
- Main power, 460V/3PH/60Hz
- Oxidizer Process Blower with HOA Switch
- Oxidizer is capable of running in catalytic mode only



Short or Long Term Lease Options or Purchase Available!

Contact PRM for Details

(888-TREAT-IT) • www.prmfiltration.com • sales@prmfiltration.com

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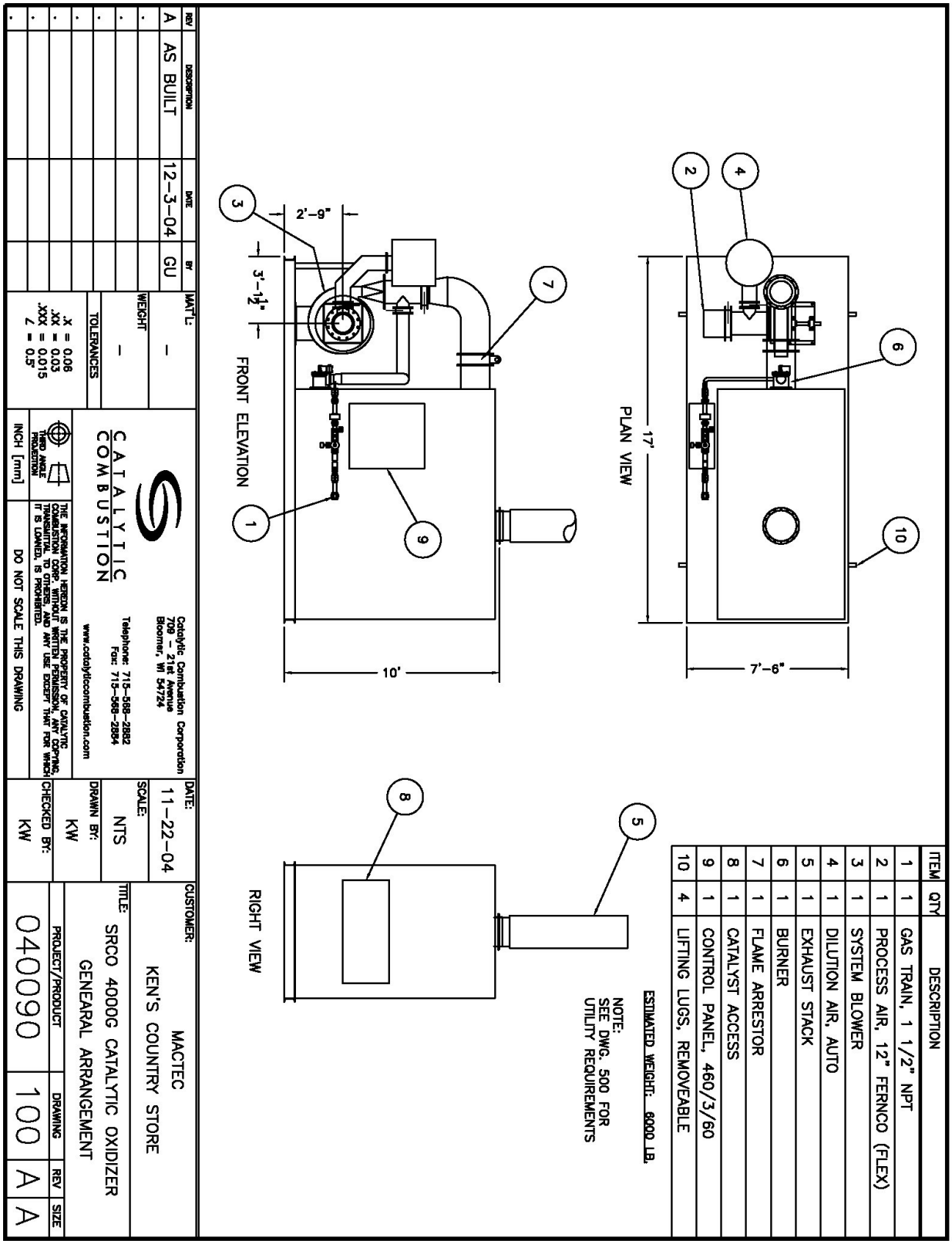

ITEM	QTY	DESCRIPTION
1	1	GAS TRAIN, 1 1/2" NPT
2	1	PROCESS AIR, 12" FERNCO (FLEX)
3	1	SYSTEM BLOWER
4	1	DILUTION AIR, AUTO
5	1	EXHAUST STACK
6	1	BURNER
7	1	FLAME ARRESTOR
8	1	CATALYST ACCESS
9	1	CONTROL PANEL, 460/3/60
10	4	LIFTING LUGS, REMOVEABLE

REV	DESCRIPTION	DATE	BY
A	AS BUILT	12-3-04	GU

MAT'L: –

WEIGHT: –

TOLERANCES: .X = 0.06, .XX = 0.03, .XXX = 0.015, ∠ = 0.5°

INCH [mm]

THIRD ANGLE PROJECTION

CATALYTIC COMBUSTION

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DO NOT SCALE THIS DRAWING

DATE: 11-22-04

SCALE: NTS

DRAWN BY: KW

CHECKED BY: KW

CUSTOMER: MACTEC
KEN'S COUNTRY STORE

TITLE: SRCO 4000G CATALYTIC OXIDIZER
GENEARAL ARRANGEMENT

PROJECT/PRODUCT	DRAWING	REV	SIZE
040090	100	A	A