

LIGHTING

Each six tube light fixture (standard) requires 1.5 FLA (Full Load Amps) at 120 V and 0.64 FLA at 277 V.
(12 lights at 120 V = 18 FLA. 12 lights at 277 V = 7.68 FLA.)

Each three tube light fixture requires 0.63 FLA at 120 V and 0.27 FLA at 240 V.
(4 lights at 120 V = 2.52. 4 lights at 240 V = 1.08 FLA.)

A 40 Amp 120 V or 277 V circuit is required (by others) to connection point ①

FILTERS

Intake Filter, pocket style : 95% average arrestance

Plenum Filter : 99.9% efficient at removing particles 10 microns and larger

Primary Exhaust Filter, GFS WAVE ® roll media: 99.67% average arrestance

Secondary Exhaust Filter, pocket style : 95% average arrestance

BOOTH LENGTH

Inside Length - Overall	27'-0" [8230]
Outside Length - Booth only	27'-5" [8357]
Outside Length - SB w/ Door Swing	30'-4" [9246]
Outside Length - DT w/ Door Swing	33'-3" [10135]

GLOBAL FINISHING SOLUTIONS L.L.C. offers a complete line of automotive spray booths that conform to the requirements of:

- * NFPA-33 Standard for spray application using flammable or combustible materials
- * NFPA-86 Standard for ovens and furnaces
- * NFPA-91 Standard for exhaust systems for air conveying of materials
- * NFPA-101 Life Safety Code
- * NFPA-70 National Electric Code
- * OSHA Safety and Health Standards (29CFR 1910, 1910.107)
- * 2006 IBC International Building Code
- * 2006 IFC International Fire Code Chapter 15

This booth has been approved by:

*ETL Equipment Testing Laboratory report # 3049856-3 Cabin

*ETL Equipment Testing Laboratory report # 3049856-5 Direct Fired Industrial Air Heater

Conformance to all these requirements is dependent upon the manner in which the equipment is installed. The contractor will make certain that all of the electrical wiring and conduit, piping, gas supply, roof penetrations, automatic fire protection systems, and the location of the equipment within the building also conforms to the cited codes and other references.

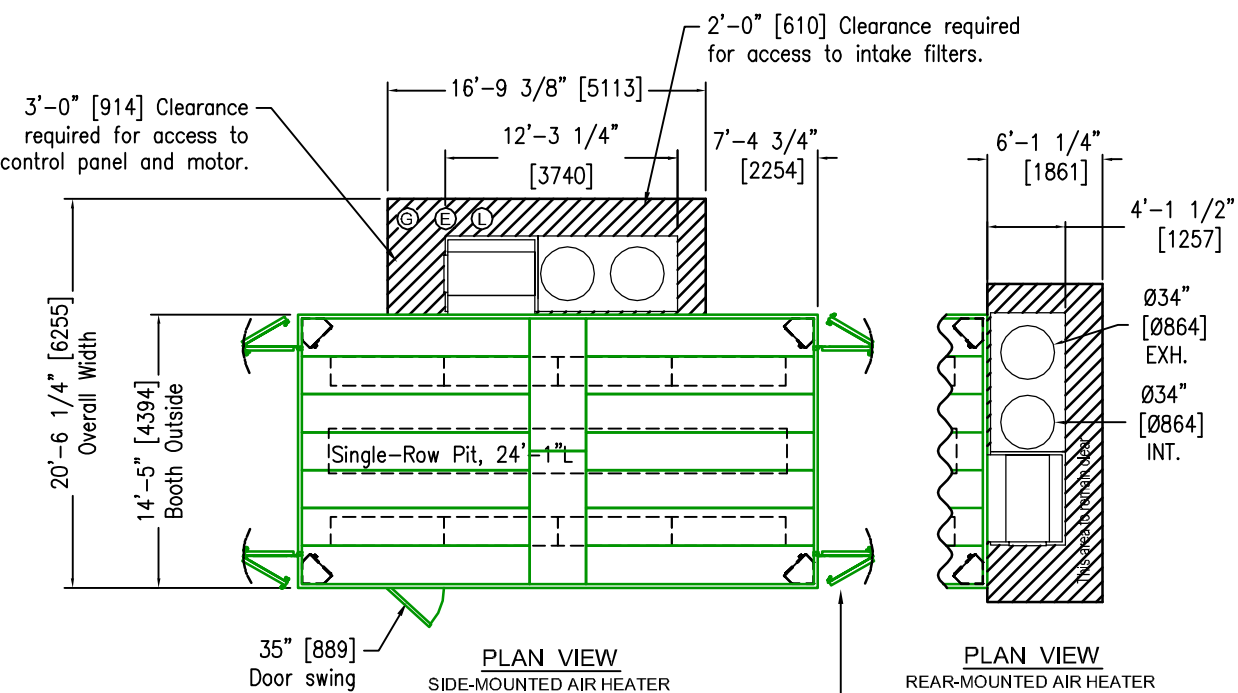
Glass used in the spray booth meets and exceeds ANSI Z-97.1 standard.

Fire suppression system is NOT included with the standard booth but is required by NFPA-33.

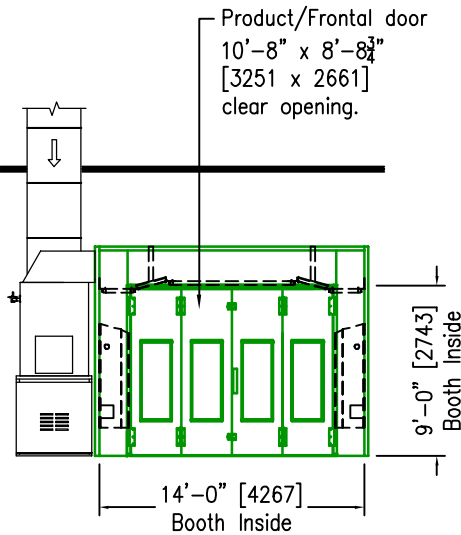
GAS TRAIN

MOTOR POWER (hp)	FLOW RATE (cfm)	FUEL TYPE	Maximum CO CONC. (ppm)	Maximum NO ₂ CONC. (ppm)	PROFILE PLATE Delta P (inWC)		ENERGY PRODUCTION (Btu/h)		Maximum MANIFOLD PRESSURE (inWC)	INLET PRESSURE @ Max. Btu & cfm (inWC)	TEMP. RISE (°F)	INLET PIPE
					Min.	Max.	Min.	Max.				
15	15,200	NATURAL GAS	1.40	0.40	0.9	0.9	346,200	1,512,600	8.8	14.2	91	1 1/4" NPT
		PROPANE	1.40	0.44	0.9	0.9	321,400	1,323,500	2.5	5	80	

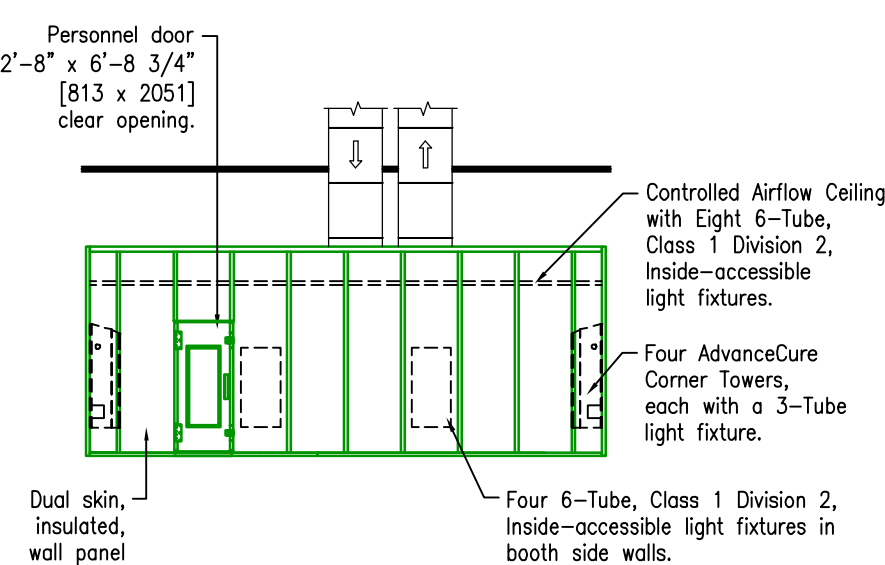
Gas supply required (by others) to gas connection point ②. Minimum gas pressure is required at maximum volume consumed.



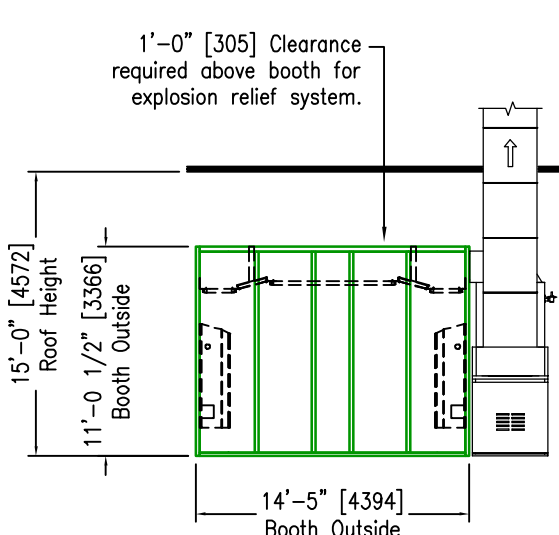
Rear doors supplied on drive through model only.



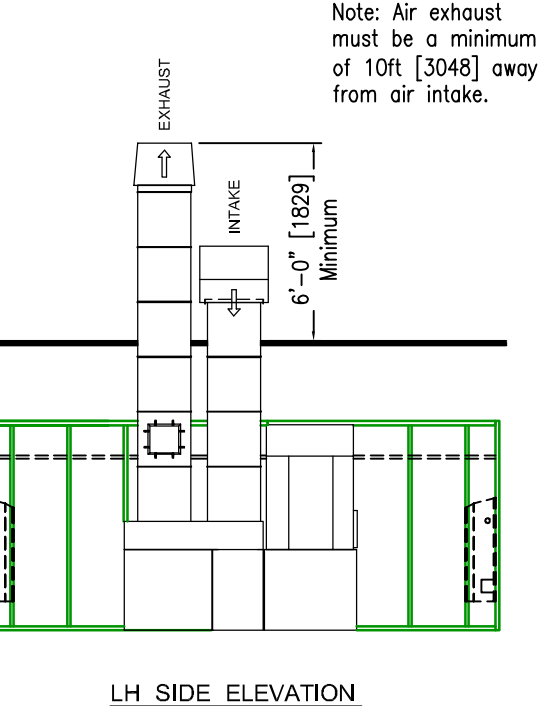
FRONT ELEVATION



RH SIDE ELEVATION



REAR ELEVATION SOLID BACK



LH SIDE ELEVATION

Note: Air exhaust must be a minimum of 10ft [3048] away from air intake.

MOTORS

	FULL LOAD AMP DRAW				
	230 V 1 ph, 60 Hz	200 V 3 ph, 60 Hz	220 - 240 V 3 ph, 60 Hz	440 - 480 V 3 ph, 60 Hz	575 V 3 ph, 60 Hz
INTAKE MOTOR - 15 hp	-	42.3	40	20	16
EXHAUST MOTOR - 15 hp	-	42.3	40	20	16
ADVANCE CURE TOWERS (4)	-	8.4	8	4	3.2
MINIMUM CIRCUIT CAPACITY	-	120	110	60	45

15 hp TEFC intake motor with direct drive, centrifugal fan produces 15,000 cfm. Minimum circuit capacity is required (by others) to connection point ②. Motors UL recognized PRGYZ. Marathon Electric file E49747 (or equal). AdvanceCure systems are interlocked with paint booth control panel and are non-functional during paint spray cycle.



GLOBAL FINISHING SOLUTIONS



PROJECT ECO SERIES DOWNDRAFT

DESCRIPTION GENERAL ARRANGEMENT - 27'L x 14'W x 9'H ECO ULTRA PLUS 1 BOOTH PACKAGE

CONCEPT REVISION		BY: WGM		DATE: 2009/06/23	
REV: 1	DATE: 2008/06/12	BY: WGM	DATE: 2008/06/12	REV: 5	DATE: 2008/06/12
REV: 2	DATE: 2009/07/02	BY: DM	DATE: 2009/07/02	REV: 6	DATE: 2009/07/02
REV: 3	DATE: 2009/06/23	BY: DM	DATE: 2009/06/23	REV: 7	DATE: 2009/06/23
REV: 4	DATE: 2009/10/06	BY: WGM	DATE: 2009/10/06	REV: 8	DATE: 2009/10/06

SHEET	1 of 1
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