

EXTRACTION

MODEL 150U



(2 Speeds)



DIMENSIONS

INTERIOR SF 150 FT²

EXTERIOR DIMENSIONS 10'0" W x 16'11" L x 8'5" H **INTERIOR DIMENSIONS** 9'9" W x 15'5" L x 8'2" H

DOOR DIMENSIONS 3'O" W x 7'O" H

MAX HEIGHT W/ FAN 9'8" H

CONSTRUCTION

PANELS (43) 18-ga powder coated steel. Meets NFPA 33 (2018) 5.3.2 construction

requirements. Note: These panels do not have a fire rating.

DOOR (1) 90-min. fire-rated, 18-ga steel LHR door with 7"x22" window & panic bar.

ANCHORS (63) 1" Drop Anchors (460lbs Pullout, 490lbs Shear, estimated at 25% of

ultimate value. 3 Anchors per panel.)

UTILITY PENETRATIONS (2) 3/4", (4) 11/8", (8) 13/8", (2) 13/4" penetrations with fire-rated hole

seals. (All penetrations shall be sealed in accordance with the NEC.)

ELECTRICAL

ELECTRICAL SUPPLY (1) 20-amp 208VAC, 60Hz, 1 PH circuit. (Circuit should exclusively provide

power for booth. All system components are powered by Control Panel.)

FULL LOAD AMPERAGE FLA @ Purge Air Flow Rate: 15 amps. FLA @ Base Air Flow Rate: 8 amps.

CONTROL PANEL (1)UL-Listed, UL 508A, (2) 1 to 3 Phase Variable Speed Drives, Micro PLC.

Control Panel outputs can be connected to HVAC control systems and

building fire control panels as required by your AHJ.

CONTROL SETTINGS (3) Off / Fan On / Fan and Lights On

GAS SENSOR (1) UL Listed Infrared, Class I, Division 1 explosion-proof sensor

LIGHT FIXTURES (3) UL Listed 2-tube, Class I, Division 1, Ceiling drop mount

EMERGENCY LIGHT (1) UL Listed Infrared, Class I, Division 1, Ceiling mount, CFL, 12O-277V

CONDUIT & FITTINGS All hazardous location electrical conduit and sealing fittings for the booth

components are provided. Conduit runs from the control panel to booth penetrations are provided by customer and can be of EMT construction.

HFL

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HVAC HARDWARE (2) 12" Explosion-proof fan package. (Fans, motors, pulleys, and belts)

AIR FLOW RATES Min. Base Air Flow Rate: 500 CFM, Min. Purge Air Flow Rate: 1500 CFM

(Minimum flow rates ensure exhaust concentrations never exceed 25% LEL

of flammable solvents)

PLENUM DESIGN Supply and exhaust designed to place greatest amount of air movement near floor

surface and working surfaces. (At Purge Air Flow Rate, the bottom 12" cross-

section of the booth tests at over 100 linear feet per minute.)

ALARMS

LIGHT ALARM (1) Amber, rated for Class I, Division 2 hazardous locations

SOUND ALARM (1) 24V DC, 109 Db @ 1M, rated for unclassified locations

ALARM SET

Base Air Flow Rate up to 10% of Lower Explosive Limit

POINTS (2)

Amber Light Alarm + Purge Air Flow Rate at 10% of LEL

Amber Light Alarm + Purge Air Flow Rate + Sound Alarm at 25% of LEL

OTHER

FIRE SUPPRESSION Available upon request at an additional price. Any Fire Suppression Systems

installed on the HAL Extraction Booth must be an automatic

stand-alone unit, listed for use in hazardous locations, or an automatic sprinkler

system from the building.

ODOR MITIGATION Not included

INSTALLATION HAL Extraction does not provide installation.

AND ASSEMBLY

A licensed electrician is required to connect the booth to the building power

supply and connect control panel to booth components. HAL Extraction recommends using a mechanical engineer to design ducting connected to

a HAL Extraction Booth.

COMPLIANCE

UL CERTIFICATION Booth System certified by UL category code QMCV. File # E47776

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REVIEW

COMPLIANCE

Peer Reviewed by Pressure Safety Inspectors (PSI) licensed in AZ, CA, CO. FL. HI. MA. MD. ME . MI. NV. OH. OR. PA. WA

DESIGNED CODEThe HAL Extraction Booth is designed to comply with applicable codes in: NFPA 1

(2018); NFPA 30 (2018); NFPA 33 (2018); NFPA 58 (2017); NFPA 70E (2018); NFPA 91 (2015); AZ Fire Code 2016; CA Fire Code 2016; International Fire Code

2018; OR Fire Code 2014; WA Fire Code 2015

OTHER Computational Fluid Dynamics Analysis Report available for submittal

to AHJ

Seismic Calculations and Structural Analysis Report available for submittal

to AHJ.

