

MODEL 355P



CLASS I, DIVISION 1 GROUP D EXTRACTION BOOTH

| EXTRACTION CLASS I, DIVISION I GRO | |
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| | DIMENSIONS |
| INTERIOR SF | 355 FT ² |
| EXTERIOR DIMENSIONS | 14'3" W x 27'O" L x 9'4.5" H |
| INTERIOR DIMENSIONS | 14'O" W x 25'6" L x 9'1.5" H |
| DOOR DIMENSIONS | 3'O" W x 7'O" H |
| MAX HEIGHT W/ FAN | 9'8" H |
| MAX LENGTH W/ FAN | 28'8"L |
| | CONSTRUCTION |
| PANELS (70) | 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 (93) | 1" Drop Anchors (46Olbs Pullout, 49Olbs Shear, estimated at 25% of ultimate value. 3 Anchors per panel.) |
| UTILITY PENETRATIONS (2) | (2) $3/4$ ", (4) 1 $1/8$ ", (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) 30-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: 22 amps. FLA @ Base Air Flow Rate: 11 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 (6) | UL Listed 2-tube, Class I, Division 1, Ceiling drop mount |
| EMERGENCY LIGHT (1) | UL Listed Infrared, Class I, Division 1, Ceiling mount, CFL, 120-277V |
| 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. |
| HPL | Extraction Technology Ltd. • Golden, CO 80403 • 720-504-4726 Emily@ExtractionBooth.com |

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| DEXTRACTION | JN BOOTH 5 |
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| • | VENTILATION |
| HVAC HARDWARE | (2) 18" Explosion-proof fan package. (Fans, motors, pulleys, and belts) |
| AIR FLOW RATES (2 Speeds) | Min. Base Air Flow Rate: 1000 CFM, Min. Purge Air Flow Rate: 3000 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 POINTS (2) | Base Air Flow Rate up to 10% of Lower Explosive Limit 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 AND ASSEMBLY | HAL Extraction does not provide installation. 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 |
| ENGINEERING PEER REVIEW | Peer Reviewed by Pressure Safety Inspectors (PSI) licensed in AZ, CA, CO, FL, HI, MA, MD, ME , MI, NV, OH, OR, PA, WA |
| DESIGNED CODE COMPLIANCE | The 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.

