

FUME HOOD SPECIFICATION

SECTION 11610.6

'PRO' FUME HOODS

ADDENDUM TO ADD LOW VOLUME SASH OPTION

MOTT MANUFACTURING LTD.

SIGMA SYSTEM™

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SECTION 11610.6 – Low Volume sash option

- 1 **Low Volume sash option.**
 - .1 Standard sash shall be deleted and replaced with the Low Volume sash option (LV).
 - .2 Sash shall be a combination vertical / Horizontal sash.
 - .3 Vertically rising frame shall be of stainless steel construction grade 316 or better.
 - .4 Horizontal sliding panels shall be 6mm(1/4") laminated safety glass with integral ground-in pulls. Sides of horizontal panels shall be protected with snap-on plastic edge guard.
 - .5 Horizontal sliding panels shall ride on rollers in an extruded aluminum bottom and top track with positive locking system to prevent inadvertent removal.
 - .6 Sash counterbalance mechanism shall be either chain or cable as required in main hood specification.
 - .7 Upper portion of sash frame shall be covered with a 6mm (1/4") laminated safety glass shield. Bottom edge of shield shall be protected with snap-on plastic edge guard.
 - .8 Sash shall be equipped with a keyed lock to prevent unauthorized vertical movement of the sash frame.
 - .9 Fume hoods shall also be equipped with a fixed panel located nominally 1" (25mm) behind the sash plane, covering the space between the interior roof of the fume hood and the upper edge of the sash frame. 1" (25mm) space shall be left open to provide downwardly vectored by-pass air, thus reducing dead space behind closed sash.
 - .10 Fume hoods equipped with the LV sash option shall provide 75% reduction in energy use while maintaining industry accepted face velocity of 100 feet per minute.
 - .11 Airflow requirements shall be as listed:

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| Hood Size | CFM required | Duct size | sp. |
|-----------|--------------|-----------|------|
| 4' | 190 | 10" | 0.02 |
| 5' | 260 | 12" | 0.02 |
| 6' | 330 | 12" | 0.02 |
| 8' | 472 | 2 X 10" | 0.02 |

above requirements are based on operation with vertical frame in the closed position and horizontal panels open.