Report of Environmental Monitoring carried out at: -

Burbidge & Son Ltd Awson Street Foleshill Coventry CV6 6GJ

For the attention of Mr J Gwilliam

Examination, Assessment and Report by: -

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Authenticating Signature

Date: - February 2012

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Introduction

This report relates to a visit to the premises of Burbidge & Son Ltd. at Awson Street in Coventry on 22nd February 2012 and subsequent dates to complete measurements. The purpose of this visit was to carry out emissions monitoring as part of compliance with The Pollution Prevention and Control (England and Wales) Regulations 2000. The process is authorised by City of Coventry, permit number PPC/045.

The emission points were monitored for particulate matter and Isocyanate as appropriate. Emission limits for particulates and Isocyanate are 50 mg.m⁻³ and 0.1 mg.m⁻³ respectively.

The process conditions at the time of monitoring were typical operating conditions unless noted.

Reference documents

The reference documents used for the emissions monitoring were

- PG6/33 Secretary of State's Guidance- Wood Coating Processes
- EN 13284-1:2001, tangential method for particulates
- CTM 036 for Isocyanates.

Sampling protocols

The following protocols were used in the emissions monitoring

- Stack sampling protocol- Measurement of airflow
- Stack sampling protocol- Measurement of particulate matter
- Stack sampling protocol- Measurement of Isocyanate

These protocols are included in this report in Appendix 1.

Equipment used

The following equipment was used in the emissions monitoring

- DPM TT570S micromanometer and pitot tube
- SKC Highlite high volume sampling pump and rotameter
- In-stack particulate filter head using 4mm nozzle unless specified
- SKC Aircheck sampler pump and rotameter

Information on the equipment and appropriate calibration details are included in this report in Appendix 2.

Location and identification of sampling points

The location and identification of the sampling points are shown diagrammatically in Appendix 3 of this report.

Deviations from standards

1. Due to the variable work patterns at the spraying positions and the need to run extended sampling times it was not always possible to sample the same coating process each time in each stack. This can potentially lead to a larger variation between measurements than might be expected.

- 2. The air flow in the stacks was generally turbulent and did not follow the normal velocity gradient across the diameter of the stack.
- 3. The occupancy of some spray positions was generally low with a small quantity of material being sprayed. It was therefore not always possible to take the requisite number of samples. In some instances specific spraying operations have been targeted to give an indication of potential worst case situations.

4. Sampling ports

The sampling ports in the manual spray booths, in particular spray booth 4, have been sited closer to the extraction fans than normally recommended for representative sampling.

Results

A summary of results is given in the following table. The results in detail are given in Appendix 4.

It is difficult to estimate the accuracy of the results given the variability of the process and plant. Probable significant errors in the measurement of particulate matter are from air turbulence (10%) and low weight sample weighing (10%).

| Stack Position | Particulate emissions | Isocyanate |
|---------------------|---------------------------|--------------------|
| | average mg/m ³ | mg.m ⁻³ |
| Spraybooth 1- left | 2.9 | |
| Spraybooth 1- right | 2.7 | 0.0135 |
| Spraybooth 2- left | 0.6 | |
| Spraybooth 2- right | 1.6 | 0.0140 |
| Spraybooth 4 | 1.3 | |
| Stain Cab 1 | 1.2 | |
| Lacquer Cab 2 | 0.4 | |

Conclusions and Discussion

The particulate emissions were lower than normal for the manual spray booths due to the nature of the work undertaken and to the effective maintenance programme. Typical emissions for the furniture industry are 0-10 mg.m⁻³ for normal conditions and 10-15 mg.m⁻³ for high use or poor filter condition. The emission limit is 50 mg.m⁻³.

The occupancy of some spray booths was relatively low reflecting the workload for these positions. The particulate measurements were taken when these positions were in use.

Emissions of Isocyanate were below the 0.1 mg.m⁻³ emission limit.



Stack Sampling Protocol- Measurement of airflow

1. Instrumentation

The preferred instrument for measuring airflow in stacks is the pitot tube. This is a differential pressure probe designed to cause minimal turbulence when inserted into the airflow. The total pressure within the stack comprises of Velocity pressure, caused by the movement of the air, and Static pressure, exerted in all directions by compression or expansion of the air caused by the process e.g. extraction fan. The BS 1042 pitot tube has an ellipsoidal tip that is aligned into the direction of flow. The pitot tube has two separate tappings. The tip is affected by total pressure in the stack whereas the tappings perpendicular to the tip are affected by the static pressure only. The velocity pressure is the difference between the two.

The pressures exerted on the pitot tube are measured by an electronic micromanometer. This provides the static and velocity pressures and the air velocity in the stack.

The micromanometer can be set to display true velocity readings by automatically correcting for actual test point gas density using independently measured test temperature and barometric pressure.

2. Measuring site location

Wherever possible the sampling port should be located in a region with sufficiently high and homogeneous air flow. As a guideline the minimum distances, in terms of stack diameters, from points of turbulence should be as follows; fan (3), junction (2) and bend (1). The location should be at least one diameter upstream of the next point of turbulence. In practice the greater the distances, the more reliable the airflow. In some cases these conditions cannot be met and measurements in these situations must be taken with some caution.

3. Measurements

Measurements are taken at a series of points across the ducts. The positions of the points, along with alternative strategies, are given in the relevant particulate sampling standard. In situations where the airflow is not linear, preference is given to measuring air velocity at the points where sampling will occur.

Stack Sampling Protocol- Measurement of particulate matter

1. Air velocity in stack

Measure the airflow in the stack using pitot tube, micromanometer, barometer and thermometer. The micromanometer can be set to display true velocity readings by automatically correcting for actual test point gas density using independently measured test temperature and barometric pressure.

2. Isokinetic sampling for particulate matter

In isokinetic sampling the volume of flow into the sampling head is matched to the airflow velocity in the stack. This ensures an even flow of lighter particles into the head. If the sampling flow is set too low the light particles tend to be carried around the head by the airflow. If set too high, the light particles are pulled into the head from outside sampled volume of air. The required sampling rates can be determined by calculation or from standard tables.

3. Sampling

Particulate sampling is taken over an approximate 60-240 minute period where the process allows, at points specified in EN 13284-1:2001, tangential method. The samples are collected onto a pre-weighed glass fibre filters. The filters are reweighed to determine the quantity of particulate matter collected. Dummy filters are used for internal calibration.

4. Presentation of results

Particulate sampling is assessed by weight (gravimetrically). The weight is normally expressed in milligrams.

The volume of air sampled is derived from the sampling flow rate and the sampling time. The volume is expressed in cubic metres. Measurements are taken without correction for water vapour content.

The concentration of particulate matter is expressed as milligrams per cubic metre or mg.m⁻³.

Stack Sampling Protocol- Measurement of Isocyanate

1. Measurements and Analysis

The quantity of isocyanate in stack flue gases is measured by collecting a sample onto a 1-(2-pyridyl)piperazine (1,2-PP) impregnated filter. These are supplied by a UKAS accredited laboratory and the sample is subsequently analysed by the same laboratory.

2. Sampling

A 6mm stainless steel probe is inserted into the stack and connected to a filter in a stainless steel sampling head. The sampling procedure is carried out in accordance with CTM 036. The sample is collected anisokinetically. The flue gasses are pumped through the filter for 20-30 minutes at a rate of 1000 ml/min.

3. Presentation of results

The volume of air sampled is derived from the sampling flow rate and the sampling time. The volume is expressed in cubic metres.

The flue gasses are analysed to give the weight of Isocyanate.

The concentration of Isocyanate is expressed as milligrams per cubic metre or mg.m⁻³.

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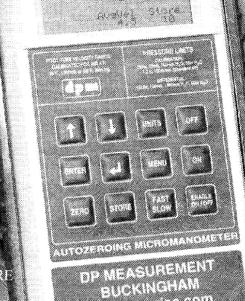
BaskLon

Single Balleti

STORES 2500 READINGS

AIR DENSITY CORRECTION

AVERAGE VELOCITY/PRESSURE



Instrument shown actual size



For Measurement of Air Velocity and Pressure Positive Negative or Differential

CERTIFICATE OF CALIBRATION

Issued By BSRIA Instrument Solutions

Date of Issue 21 January 2011

Certificate Number STD34579

Page 1 of 4 Pages



BSRIA Instrument Solutions

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Approved Signatory

Customer:

Mike Thomas

1A Astwick Road, Stotfield Hitchin Hertfordshire

Date Received: 16 January 2011

Instrument -

System ID:

66484

Description: Manufacturer: Micromanometer D. P. Measurements

Model Number:

TT570S 6012

Serial Number: Procedure Version:

MA275V2

Environmental Conditions

Temperature: Relative Humidity: 20°C +/- 4°C

<70% +/- %

Mains Voltage:

240V +/- 10V

Mains Frequency:

50Hz +/- 1Hz

Instrument calibrated with "Fast" averaging and Auto zero enabled.

Results recorded as received. No adjustment performed.

Traceability Information

Instrument description FCO550 Pressure Calibrator

Serial number 0010275

Certificate number UK04109

Cal. Date 05/10/2010

Cal. Period 26

Calibrated By: J. Weston

Date of Calibration: 21 January 2011

This certificate provides traceability of measurement to recognised National Standards, and to the units of measurement realised at the National Physical Laboratory or other recognised National Standards Informatories.

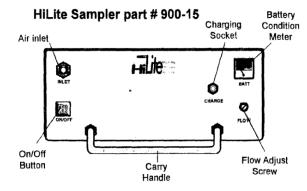
Copyright of this certificate is owned by the sum laboratory and may not be reproduced except with the prior written approval of the issuing laboratory. This certificate complies with the requirements of BS EN ISO 10012:2003.

FEATURES

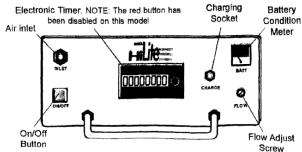
Where are the controls located? All the controls of the HiLite series are located on the front panel.

ON/OFF SWITCH. When pressed down to the ON position the pump will start to run, and the LCD (if fitted) activate showing eight ZEROS. If left running the timer will increase in one minute steps to a maximum of 99999999 minutes.

TIMER (if fitted). The red button on the timer is disabled on the HiLite pump and has no effect when pressed. Once the pump has been started the timer will record the run time in minutes. At the end of the sample the pump is stopped and the timer will freeze displaying the total run time. When the pump is next restarted the timer will zero and commence recording the run time once again.



HiLite Sampler with Timer part # 900-15T



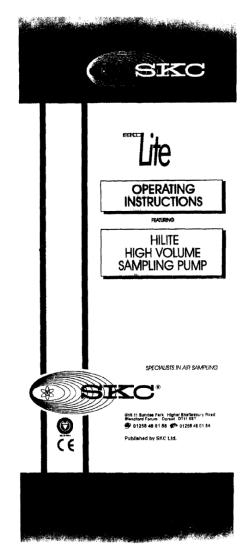
the hole marked FLOW is a small screw. To adjust the flow use a small screwdriver, making sure the screwdriver end is located in the slot. To increase the flow turn clockwise. The span of this screw is around 5 turns. DO NOT FORCE the flow adjust screw, and Flow range by this adjuster is approximately 3-12 l/min to free BATTERY CHARGE METER. The meter gives an indication of the battery capacity available. If the meter is in the RED area the pump should be recharged before use. INLET. Connect the sampling device to this pipe stub using flexible tubing of 6mm diameter. FUSE. An internal fuse is fitted Battery which can only be accessed by Condition removal of the case top. Please refer to page 4 for instructions on how to remove case top. The fuse is rated at 2 Amp anti surge and must be replaced with an equivalent. Replacement of the fuse with a higher or lower value can cause damage to your pump.

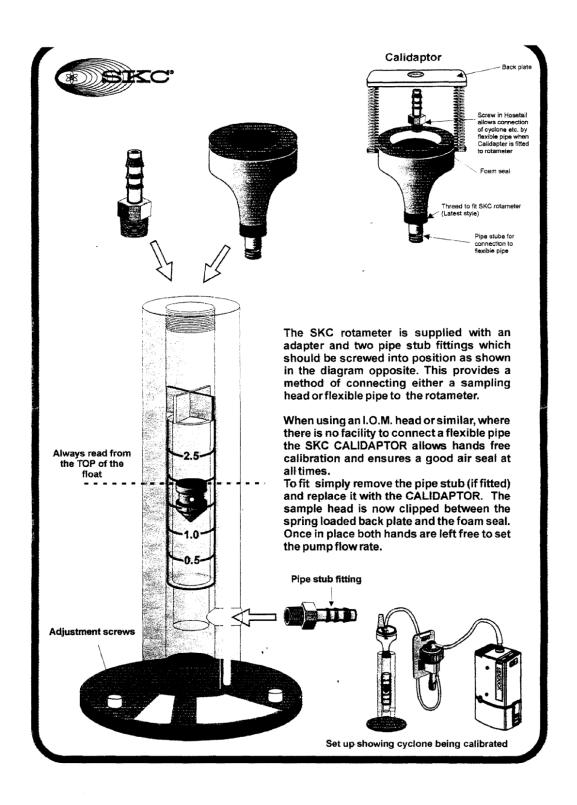
CHARGING. The charger for the HiLlte will automatically switch to a trickle charge after the battery has reached full charge. This prevents

overheating of the battery and

increases its life.

FLOW ADJUST. Below the level of





Universal Pumps

PCXR8

1000 to 5000 ml/min

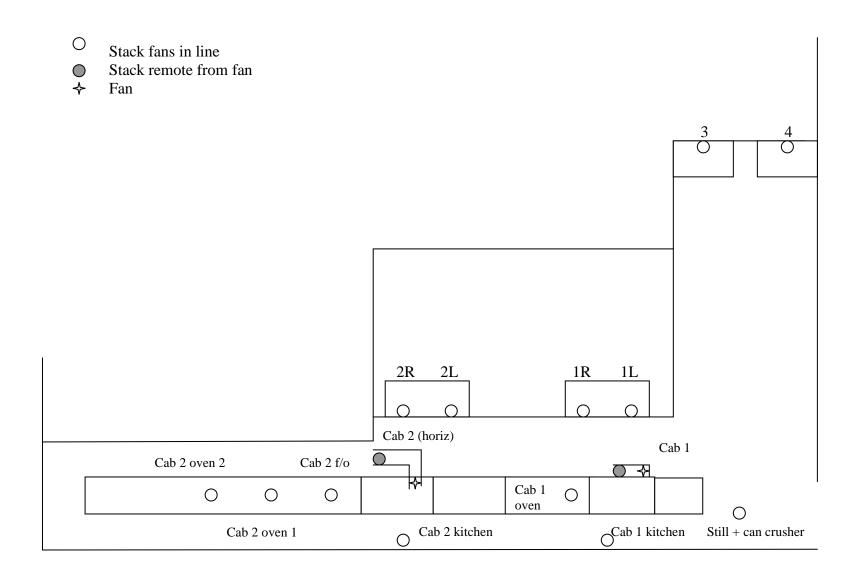
(5 to 500 ml/min Low Flow Applications) Unexcelled Personal or Area Air Sampling Pump Programmable Start and Stop Times











Schematic of location and identification of sampling points



| Stack Identification/Position | Left stack | Stack dimensions | 700mm |
|-------------------------------|--------------|-------------------|--------------------------|
| Plant identification | Spraybooth 1 | Process operation | Spraying mixed materials |

| Sample | Air | Isokinetic | Filter | Particulate | Total | Total | Particulate | Comments |
|------------------------------|----------|------------|--------|-------------|---------|--------|---------------|----------|
| Point | Velocity | flow rate | Number | Weight | Time | Volume | Concentration | |
| | m/s | l/min | | milligrams | minutes | litres | mg/m3 | |
| perpendicular port, 0.85D | 10.4 | 7.8 | 382 | 8.8 | 225 | 1755.0 | 5.0 | |
| parallel port, 0.15D | 11.7 | 8.6 | 277 | 1.4 | 209 | 1797.4 | 0.8 | |

| Stack Identification/Position | Right stack | Stack dimensions | 700mm |
|-------------------------------|--------------|-------------------|--------------------------|
| Plant identification | Spraybooth 1 | Process operation | Spraying mixed materials |

| Sample | Air | Isokinetic | Filter | Particulate | Total | Total | Particulate | Comments |
|------------------------------|----------|------------|--------|-------------|---------|--------|---------------|----------|
| Point | Velocity | flow rate | Number | Weight | Time | Volume | Concentration | |
| | m/s | l/min | | milligrams | minutes | litres | mg/m3 | |
| parallel port, | | | | | | | | |
| 0.85D | 12.5 | 9.4 | 83 | 4.4 | 210 | 1974.0 | 2.2 | |
| perpendicular port, 0.15D | 9.3 | 7.0 | 323 | 2.7 | 120 | 840.0 | 3.2 | |

Particulate Matter Stack Monitoring

| Stack Identification/Position | Left stack | Stack dimensions | 700mm |
|-------------------------------|--------------|-------------------|--------------------------|
| Plant identification | Spraybooth 2 | Process operation | Spraying mixed materials |

| Sample | Air | Isokinetic | Filter | Particulate | Total | Total | Particulate | Comments |
|----------------|----------|------------|--------|-------------|---------|--------|---------------|----------------------------|
| Point | Velocity | flow rate | Number | Weight | Time | Volume | Concentration | |
| | m/s | l/min | | milligrams | minutes | litres | mg/m3 | |
| | | | | | | | | |
| parallel port, | | | | | | | | |
| 0.85D | 11.6 | 8.6 | 148 | 0.8 | 155 | 1333.0 | 0.6 | overspray from right stack |

| Stack Identification/Position | Right stack | Stack dimensions | 700mm |
|-------------------------------|--------------|-------------------|--------------------------|
| Plant identification | Spraybooth 2 | Process operation | Spraying mixed materials |

| Sample | Air | Isokinetic | Filter | Particulate | Total | Total | Particulate | Comments |
|---------------------------|----------|------------|--------|-------------|---------|--------|---------------|----------|
| Point | Velocity | flow rate | Number | Weight | Time | Volume | Concentration | |
| | m/s | l/min | | milligrams | minutes | litres | mg/m3 | |
| perpendicular port, 0.15D | 8.7 | 6.6 | 421 | 1.7 | 234 | 1544.4 | 1.1 | |
| parallel port, 0.85D | 10.0 | 7.5 | 447 | 2.8 | 188 | 1410.0 | 2.0 | |

| Stack Identification/Position | Stack | Stack dimensions | 700mm |
|-------------------------------|--------------|-------------------|--------------------------|
| Plant identification | Spraybooth 4 | Process operation | Spraying mixed materials |

| Sample | Air | Isokinetic | Filter | Particulate | Total | Total | Particulate | Comments |
|------------------------------|----------|------------|--------|-------------|---------|--------|---------------|------------|
| Point | Velocity | flow rate | Number | Weight | Time | Volume | Concentration | |
| | m/s | l/min | | milligrams | minutes | litres | mg/m3 | |
| perpendicular port, 0.15D | 5.3 | 9.0 | 209 | 0.5 | 152 | 1368.0 | 0.4 | 6mm nozzle |
| parallel port, 0.15D | 14.5 | 10.9 | 433 | 4.6 | 196 | 2136.4 | 2.2 | |

Particulate Matter Stack Monitoring

| Stack Identification/Position | Stack | Stack dimensions | 650mm |
|-------------------------------|-------------|-------------------|--------------------------|
| Plant identification | Spray Cab 1 | Process operation | Spraying mixed materials |

| Sample | Air | Isokinetic | Filter | Particulate | Total | Total | Particulate | Comments |
|-----------|----------|------------|--------|-------------|---------|--------|---------------|---------------------------|
| Point | Velocity | flow rate | Number | Weight | Time | Volume | Concentration | |
| | m/s | l/min | | milligrams | minutes | litres | mg/m3 | |
| | | | | | | | | |
| top port, | | | | | | | | |
| 0.15D | 10.0 | 7.5 | 325 | 0.7 | 75 | 562.5 | 1.2 | stain, occasional process |

| Stack Identification/Position | Stack | Stack dimensions | 550mm |
|-------------------------------|-------------|-------------------|--------------------------|
| Plant identification | Spray Cab 2 | Process operation | Spraying mixed materials |

| Sample | Air | Isokinetic | Filter | Particulate | Total | Total | Particulate | Comments |
|-------------|----------|------------|--------|-------------|---------|--------|---------------|----------|
| Point | Velocity | flow rate | Number | Weight | Time | Volume | Concentration | |
| | m/s | l/min | | milligrams | minutes | litres | mg/m3 | |
| | | | | | | | | |
| right port, | | | | | | | | |
| 0.85D | 15.9 | 12.0 | 340 | 0.5 | 80 | 960.0 | 0.5 | |
| left ment | | | | | | | | |
| left port, | 167 | 10.5 | 252 | 1.0 | 0.47 | 2007.5 | 0.2 | |
| 0.85D | 16.7 | 12.5 | 353 | 1.0 | 247 | 3087.5 | 0.3 | |

| Sample | Stack | Total | Pump | Pump | Air | Emission | Comments |
|--------|----------------|-----------|--------|------|--------|----------|----------|
| | Identification | NCO | Rate | Time | Volume | | |
| | | | | | | | |
| | | microgram | ml/min | min | litre | mg/m3 | |
| | | | | | | | |
| | | | | | | | |
| Bur S1 | 2R | 0.28 | 1000 | 20 | 20.00 | 0.0140 | |
| | | | | | | | |
| Bur S2 | 1R | 0.27 | 1000 | 20 | 20.00 | 0.0135 | |

Air Flow Measurement

| 1 | 1. | | | | | locity | | | | | | | 1 | : |
|---|----------|------|------|------|------|--------|------|------|------|------|------|----------|-----------------|---------------|
| duct | diameter | | | | m | ı/s | | | | | | average | measured air | static |
| identification | mm | | | | | | | | | | | velocity | volume | pressure |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | m/s | m3/hr | pascals |
| spraybooth 1 left stack, perpendicular port | 700 | 15.1 | 12 | 10.2 | 11.2 | 11.2 | 9.6 | 9.4 | 10.4 | 13 | 12.2 | 11.62 | 16,091 | 0 |
| spraybooth 1 left stack, parallel port | 700 | 13 | 12 | 11.7 | 10.5 | 11.2 | 11 | 10 | 12.7 | 13.1 | 12.8 | | | |
| spraybooth 1 right stack, perpendicular port | 700 | 10.8 | 8.7 | 9.3 | 11 | 11.5 | 10.2 | 10.8 | 11 | 10.8 | 10.2 | 11.50 | 15,925 | -5 |
| spraybooth 1 right stack, parallel port | 700 | 12.9 | 16.2 | 15.5 | 12.6 | 11.2 | 10.9 | 11 | 12.5 | 11.7 | 11.1 | | | |
| spraybooth 2 left stack, perpendicular port | 700 | 0 | 3.6 | 7.3 | 8.3 | 9.6 | 11.5 | 11.8 | 11.3 | 10.3 | 9.1 | 10.17 | 14,083 | 30 |
| spraybooth 2 left stack, parallel port | 700 | 8.9 | 13.9 | 14.5 | 15.1 | 14.1 | 11.4 | 10.2 | 11.6 | 10.9 | 9.9 | | | |
| spraybooth 2 right stack, perpendicular port | 700 | 7.4 | 7.9 | 8.7 | 7.9 | 8 | 8.4 | 8.2 | 7.9 | 7.4 | 7.9 | 10.74 | 14,879 | 20 to - 20 |
| spraybooth 2 right stack, parallel port | 700 | 11.5 | 15.3 | 16.2 | 16.5 | 15.2 | 12.5 | 9.8 | 10 | 12.9 | 15.2 | | | |

Air Flow Measurement

| | | | | | air vel | ocity | | | | | | | | |
|--------------------------|----------|------|------|------|---------|-------|------|------|------|------|------|----------|---------------|----------|
| duct | diameter | | | | m/s | | | | | | | average | measured | static |
| identification | mm | | | | | | | | | | | velocity | air volume | pressure |
| identification | 111111 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | m/s | m3/hr | pascals |
| | | | | | not | | | l | | | I | | | |
| spraybooth 3 | | | | | in | | | | | | | | | |
| perpendicular port | 700 | | | | use | | | | | | | | | |
| spraybooth 3 | | | | | | | | | | | | | | |
| parallel port | 700 | | | | | | | | | | | | | |
| spraybooth 4 | | | | | | | | | | | | | | |
| perpendicular port | 700 | 7.8 | 7 | 5.3 | 5.3 | 6.8 | 9.5 | 8.6 | 8.3 | 7.9 | 9.8 | 10.80 | 14,955 | -20 |
| spraybooth 4 | | | | | | | | | | | | | | |
| parallel port | 700 | 18.3 | 17.8 | 14.5 | 12.3 | 11.4 | 14.5 | 14.9 | 13.3 | 11.5 | 11.1 | | | |
| spray cab 1 | | | | | | | | | | | | | | |
| top port | 650 | 12.1 | 10.2 | 10.0 | 9.8 | 9.6 | 9.7 | 8.9 | 8.5 | 8.1 | 6.5 | 9.60 | 11,462 | -15 |
| | | | | | | | | | | | | | , | |
| spray cab 1 side port | 650 | 8.2 | 8.0 | 8.8 | 8.2 | 9.2 | 10.7 | 11.6 | 11.7 | 11.5 | 10.6 | | | |
| | 030 | 0.2 | 0.0 | 0.0 | 0.2 | 7.2 | 10.7 | 11.0 | 11.7 | 11.5 | 10.0 | | | |
| spray cab 2 | 550 | 10.2 | 10.5 | 10.2 | 17 1 | 17.6 | 17.0 | 167 | 15.0 | 15.0 | 142 | 17.15 | 14664 | 20 |
| right port | 550 | 19.3 | 19.5 | 19.2 | 17.1 | 17.6 | 17.2 | 16.7 | 15.9 | 15.0 | 14.2 | 17.15 | 14,664 | -30 |
| spray cab 2 | | | | | | | | | | | | | | |
| left port | 550 | 16.5 | 17.4 | 17.3 | 17.7 | 18.1 | 18.3 | 17.8 | 16.7 | 16.3 | 15.3 | | | |

Air Flow Measurement

| duct | duct diameter air velocity | | | | | | | | | | | average | measured | static |
|-------------------------------------|----------------------------|------|------|------|----------|---------------|----------|---|---|---|----|---------|----------|---------|
| identification | mm | | | | velocity | air volume | pressure | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | m/s | m3/hr | pascals |
| spray cab 2 flash-off right port | 350 | 6.9 | 7.2 | 7.9 | 8.2 | 8.7 | 9.1 | | | | | 8.2 | 2,837 | -5 |
| spray cab 2 flash-off left port | 350 | 6.9 | 7.9 | 8.0 | 8.5 | 9.1 | 9.9 | | | | | | | |
| spray cab 2 oven 1 right port | 250 | 8.9 | 9.8 | 10.4 | 12.1 | 13.7 | 11.6 | | | | | 11.3 | 1,991 | -10 |
| spray cab 2 oven 1 left port | 250 | 10.3 | 12.3 | 12.5 | 11.6 | 11.1 | 10.9 | | | | | | | |
| spray cab 2 oven 2 right port | 250 | 11.3 | 11.6 | 12.7 | 13.1 | 14.1 | 12.9 | | | | | 13.1 | 2,318 | -15 |
| spray cab 2 oven 2 left port | 250 | 11.8 | 12.3 | 13.3 | 14.7 | 15.9 | 13.7 | | | | | | | |
| cab 1 kitchen | 250 | 6.6 | 8.4 | 9.2 | 9.1 | 8.6 | 7.9 | | | | | 8.3 | 1,467 | -50 |
| cab 2 kitchen | 250 | 8.6 | 9.1 | 9.8 | 9.7 | 9.6 | 9.4 | | | | | 9.4 | 1,655 | -60 |
| still + can crusher | 250 | 7.4 | 7.5 | 7.6 | 6.0 | 6.6 | 6.3 | | | | | 6.9 | 1,219 | -70 |

Mike Thomas