

Lancaster County Council Public Safety Committee Regular Meeting Agenda

Tuesday, October 9, 2018

Administration Office Conference Room
County Administration Building
101 N. Main Street
Lancaster, SC 29720

1. **Call to Order – Committee Chair Brian Carnes** 5:00 p.m.
2. **Approval of the agenda** *[deletions and additions of non-substantive matters]*
3. **Citizens Comments**
4. **Approval of Minutes from the August 14, 2018 Public Safety Committee regular meeting – pgs. 2-4**
5. **Discussion / Action Items**
 - a. Acceptance of DUI Enforcement Grant – *Sheriff Barry Faile – pgs. 5-6*
 - b. Equipment and High Security Storage Request for Crime Scene Unit – *Sheriff Barry Faile – pgs. 7-33*
6. **Executive Session**
 - a. *Discussion involving a personnel matter: SC Code Section 30-4-70(a)(1).*
7. **Adjournment**

Anyone requiring special services to attend this meeting should contact 285-1565 at least 24 hours in advance of this meeting.

Lancaster County Council Public Safety Committee agendas are posted at the Lancaster County Administration Building and are available on the Website: www.mylancastersc.org



Members of Lancaster County Council
Public Safety Committee

Brian Carnes, District 7, Chairman
Larry Honeycutt, District 4
Billy Mosteller, District 3

**Minutes of the Lancaster County Council Public Safety Committee
Regular Meeting**

101 N. Main Street, Lancaster, SC 29720

Tuesday, August 14, 2018

Committee Members present were Brian Carnes and Billy Mosteller. Larry Honeycutt was absent. Also present were County Administrator Steve Willis, County Attorney John Weaver, Clerk to Council Sherrie Simpson, and Deputy Clerk to Council Chelsea Gardner, Director of Emergency Management/Fire Service Darren Player, Sheriff Barry Faile and various department staff. A quorum of the Lancaster County Public Safety Committee was present for the meeting.

The following press were notified of the meeting by e-mail in accordance with the Freedom of Information Act: *Lancaster News*, *Kershaw News Era*, *The Rock Hill Herald*, *Fort Mill Times*, Cable News 2, Channel 9 and the local Government Channel. The agenda was posted in the lobby of the County Administration Building and also on the county website for the required length of time.

Call to Order

Committee Chairman Brian Carnes called the meeting to order at approximately 5:00 p.m.

Approval of the Agenda

County Attorney John Weaver asked that a second executive session item (6b) be added and that it would be a contractual matter.

County Administrator Steve Willis asked that they add a (5b) under discussion and action items to discuss the JAG grant and that it would be information only.

Billy Mosteller moved to approve the agenda as amended. The motion to approve the agenda passed by a vote of 2-0.

DRAFT

Citizens Comments

There were no citizens that came forward for comments.

Approval of Minutes

Billy Mosteller moved to approve the minutes from the July 17, 2018 Public Safety Committee regular meeting. The approval of the July 17, 2018 Public Safety Committee regular meeting minutes passed by a vote of 2-0.

Discussion / Action Items

Discussion of Jail Facility Needs Assessment and Feasibility Study FINAL REPORT

Sheriff Barry Faile introduced Dan Mace, Vice President for Moseley Architects. Mr. Mace went through and discussed the study with the Committee. The presentation that was discussed can be found in the Public Safety Agenda packet from the August 14th Committee Meeting on our website www.mylancastersc.org pages 5-54.

JAG Grant Information

Steve Willis explains that this is just for information only and that this is a 100 percent grant.

Executive Session

Billy Mosteller made the motion to go into executive session. The motion passed to go into executive session by a vote of 2-0.

Billy Mosteller made the motion to come out of executive session. The motion passed to come out of executive session by a vote of 2-0.

County Attorney John Weaver stated, "During the course of Executive Session there was two matters discussed. One was potential litigation and the other was a contractual matter. During the course of discussion of both of those items no votes were taken and no decisions were made."

Billy Mosteller made the motion based on the contractual information provided by the committee in executive session that the animal shelter project be moved forward to full

DRAFT

Council for final consideration with a favorable recommendation from the Public Safety Committee. Motion passed by a vote of 2-0.

Adjournment

Billy Mosteller moved to adjourn the Public Safety Committee meeting. The motion to adjourn passed by a vote of 2-0. There being no further business, the Public Safety Committee meeting adjourned at approximately 5:38 p.m.

Respectfully Submitted:

Approved by the Public Safety Committee

Chelsea Gardner
Deputy Clerk to Council

Brian Carnes, Chairman

Agenda Item Summary

Ordinance # / Resolution#:	Information Item
Contact Person / Sponsor:	Barry Faile
Department:	Sheriff
Date Requested to be on Agenda:	October 8, 2018

Issue for Consideration:

Acceptance of DUI Enforcement Grant.

Points to Consider:

Council was previously made aware of the submittal of this grant application. The grant funds one deputy and equipment for the purpose of Impaired Driving Enforcement.

This is a 100% grant so no formal action is needed by County Council.

Funding and Liability Factors:

Grant funding in the amount of \$92,101 has been awarded. There is no local match.

Council Options:

N/A as this is a 100% grant.

Staff Recommendation:

N/A – no action is needed but we did want to make sure that Council was informed of this grant.

Committee Recommendation:

N/A as this is a 100% grant.

SOUTH CAROLINA DEPARTMENT OF PUBLIC SAFETY
OFFICE OF HIGHWAY SAFETY AND JUSTICE PROGRAMS
P. O. BOX 1993
BLYTHEWOOD, SOUTH CAROLINA 29016

GRANT AWARD

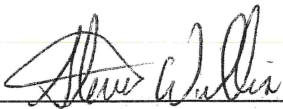
Subgrantee: Lancaster County
Grant Title: Impaired Driving Enforcement
Grant Period: 10/1/2018 - 9/30/2019 Date of Award: October 1, 2018
Amount of Award: \$92,101 Grant No.: M4HVE-2019-HS-49-19

In accordance with the provisions of the Highway Safety Act of 1966, 72 Stat. 885, as amended, CFDA No. 20.616, and on the basis of the application for a grant award submitted to the Office of Highway Safety and Justice Programs, the S. C. Department of Public Safety hereby awards to the foregoing Subgrantee, a grant in the amount shown above for the projects specified in the application and within the purposes and categories authorized for the Highway Safety grants.

This grant is subject to conditions set forth within the application and must begin implementation within 90 days following the award date or be subject to automatic cancellation of the grant. Evidence of implementation must be detailed in the first progress report.

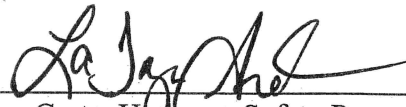
The grant shall become effective as of the date of the award, contingent upon the return of the original of this form to the Office of Highway Safety and Justice Programs, signed by the Subgrantee in the space provided below. This award must be accepted within 30 days, and such progress and other reports required by the S. C. Department of Public Safety must be submitted to the Office of Highway Safety and Justice Programs in accordance with regulations.

ACCEPTANCE FOR THE SUBGRANTEE

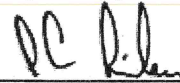


Signature of Official Authorized to Sign
Steve Willis

ACCEPTANCE FOR THE SFA



LaToya Grate, Highway Safety Program Administrator
Office of Highway Safety and Justice Programs



Phil Riley, Director
Office of Highway Safety and Justice Programs

GRANT AWARD DATA: THIS AWARD IS SUBJECT TO SPECIAL CONDITIONS ATTACHED AND
UPDATED TERMS AND CONDITIONS ATTACHED.

Agenda Item Summary

Ordinance # / Resolution#:

Contact Person / Sponsor: Sheriff Barry Faile

Department: Sheriff's Office – Request for CSI equipment and high security storage

Date Requested to be on Agenda: Next Available

Issue for Consideration: Sheriff Faile would like to request equipment and high security storage for evidence in the Crime Scene building located at 1528 Pageland Highway.

- 1) Fisher Scientific TruNarc Handheld Analyzer
- 2) PurAir Basic Ductless Fume Hood
- 3) High Security Storage solution in the current evidence building and additional security features

Points to Consider: The TruNarc handheld analyzer will allow our deputies to identify drugs almost instantly in the field. The deputies will not need to handle drugs, which could be lethal. The unit will deliver Real-time results and provide scan results with date and time stamps. This among other reasons makes this a Valuable tool for our deputies to have access to.

The PurAir Basic Ductless Fume Hood will protect the user and the area the user works from harmful Vapors as marijuana is analyzed.

The security piece of this will include a storage cage/area and other security features.

- The security storage cage quoted by Business Systems of SC will be a wirecrafters fence, come card Reader ready and with 2 keyed locks. Cage will stand at 8'.
- The other security options have been quoted by Lancaster County IT.

Funding and Liability Factors:

Requesting funding for the equipment referenced above at the following costs:

- TruNarc Handheld Analyzer, \$80,297.55 as provided in quote dated 8/13/2018 from Fisher Scientific (SC State Contract) – includes 3 analyzers and the Solution Kits (3 of items 800-01043-01 and 810-01462-01);
- PurAir Basic Ductless Fume Hood, \$2,830 for the hoods; \$840.00 for the filter; up to \$922.00 in options, As provided in quote COR-002, dated 7/31/2018.
- High Security Storage Case, \$15,080.68, includes fencing, kit, shipping and install, as shown in quote 7099.
- Additional security features to cover the storage project, \$5,004.52

Total estimated project (quotes provided): \$91,402.75

****Costs subject to change, as the total is based on current pricing***

Council Options: Sheriff Faile is requesting consideration of funding the ductless fume hood, the narcotics Analyzer and the high security storage for evidence.

Recommendation: N/A

thermoscientific

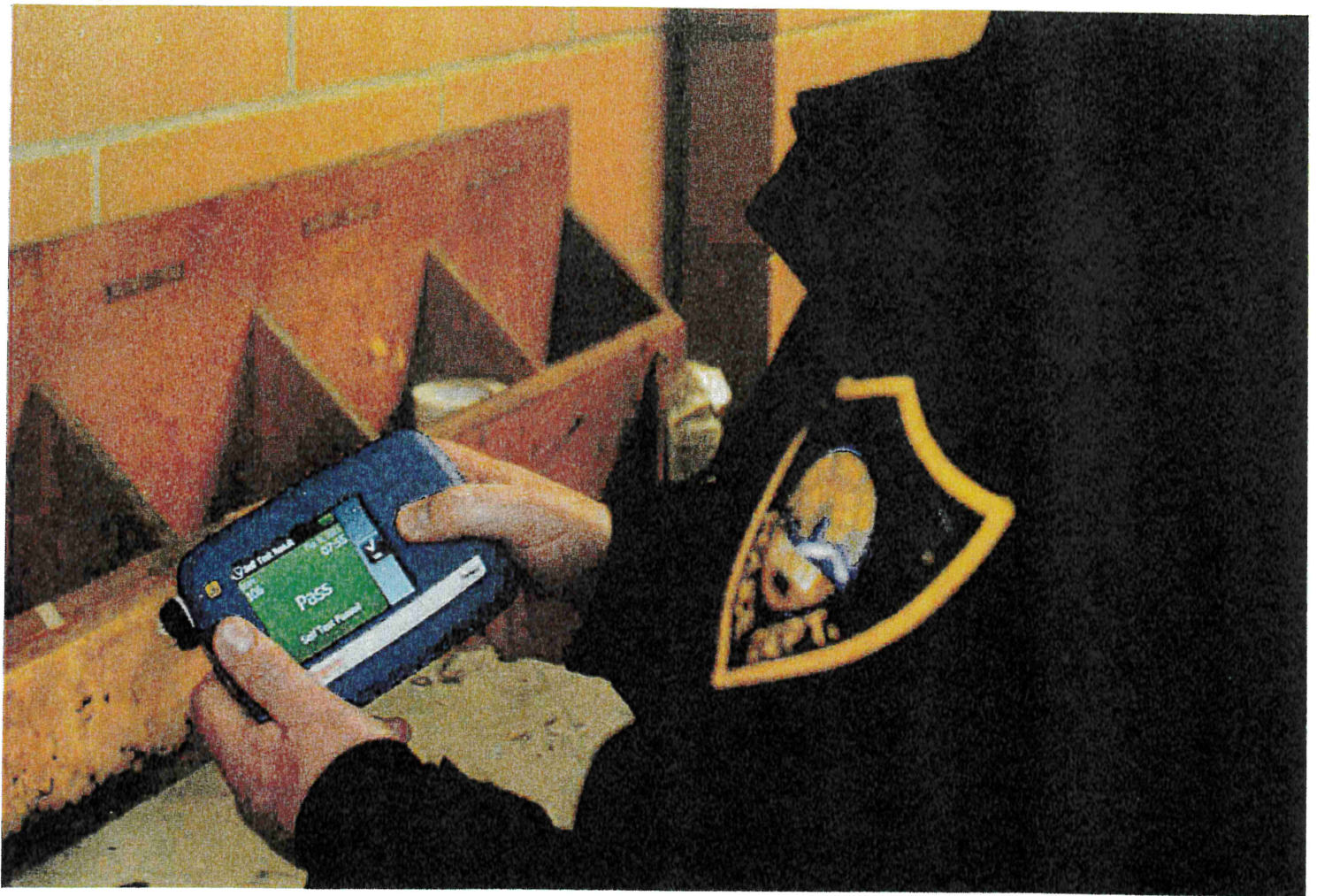


Thermo Scientific TruNarc Handheld Narcotics Analyzer

Field-based presumptive narcotics, precursor and cutting agent testing



ThermoFisher
SCIENTIFIC



TruNarc Helps Keep Officers Safe

The use of illicit narcotics and opioids continues to skyrocket. Emerging lethal drugs like fentanyl and carfentanil threaten public safety.

To save lives and protect law enforcement officers, banned substances need to be identified quickly, safely and accurately.

The Thermo Scientific™ TruNarc™ Analyzer rapidly identifies drugs and can reduce the backlog of cases at crime labs while decreasing costs. This leads to quicker case resolution and helps drug offenders access treatment faster.

saves time and money



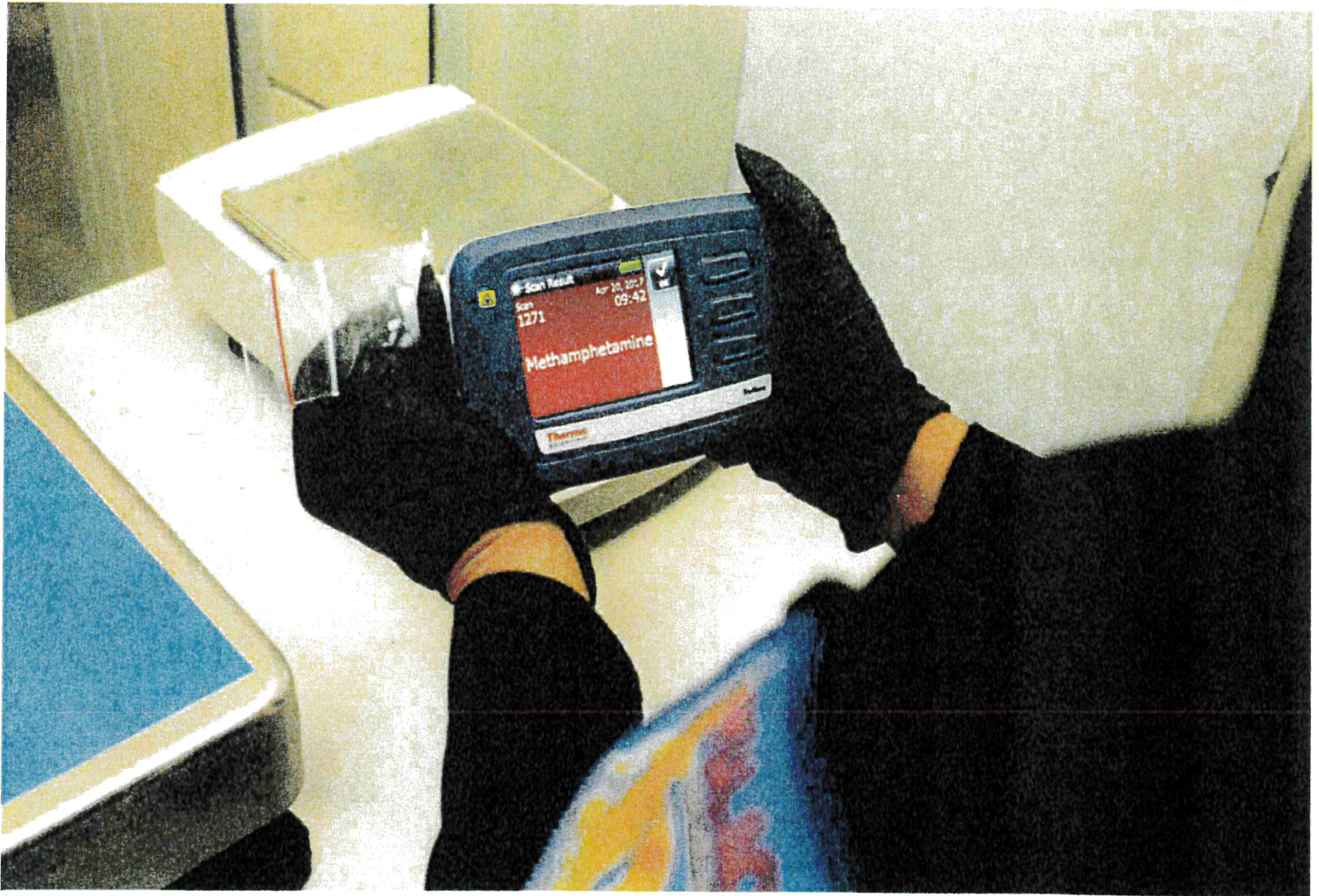
The TruNarc Handheld Narcotics Analyzer

- Tests for over 400 substances, including narcotics, stimulants, depressants, hallucinogens and analgesics
- Library regularly updated to include emerging drug threats
- Requires no direct contact with most substances
- Delivers clear, real-time results for presumptive evidence
- Provides automated, tamper-proof records with scan results, including time-and-date stamps to help expedite prosecution

limits direct contact



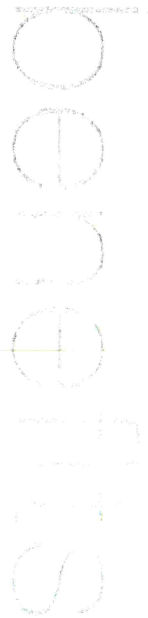
Helping law enforcement



TruNarc: Efficient, Economical, Safe

Agencies across the United States who deploy TruNarc are seeing immediate benefits:

- Even little known substances can be identified almost instantly in the field
- The need for Law Enforcement Officers to handle potentially lethal narcotics is greatly reduced
- Valuable lab time is freed up for higher priority cases
- Reduced demand for lab testing delivers significant cost savings



stay ahead of the curve: safe,

TruNarc Success Stories

quickly identified fentanyl

Massachusetts, USA: Little-known Drugs Identified Quickly

- TruNarc immediately identified an unknown sample as Alpha-PVP ("Flakka") a synthetic cathinone
- Official state-wide alert about new drug issued next day

Etowah County, Alabama: Reduced Court Wait Times

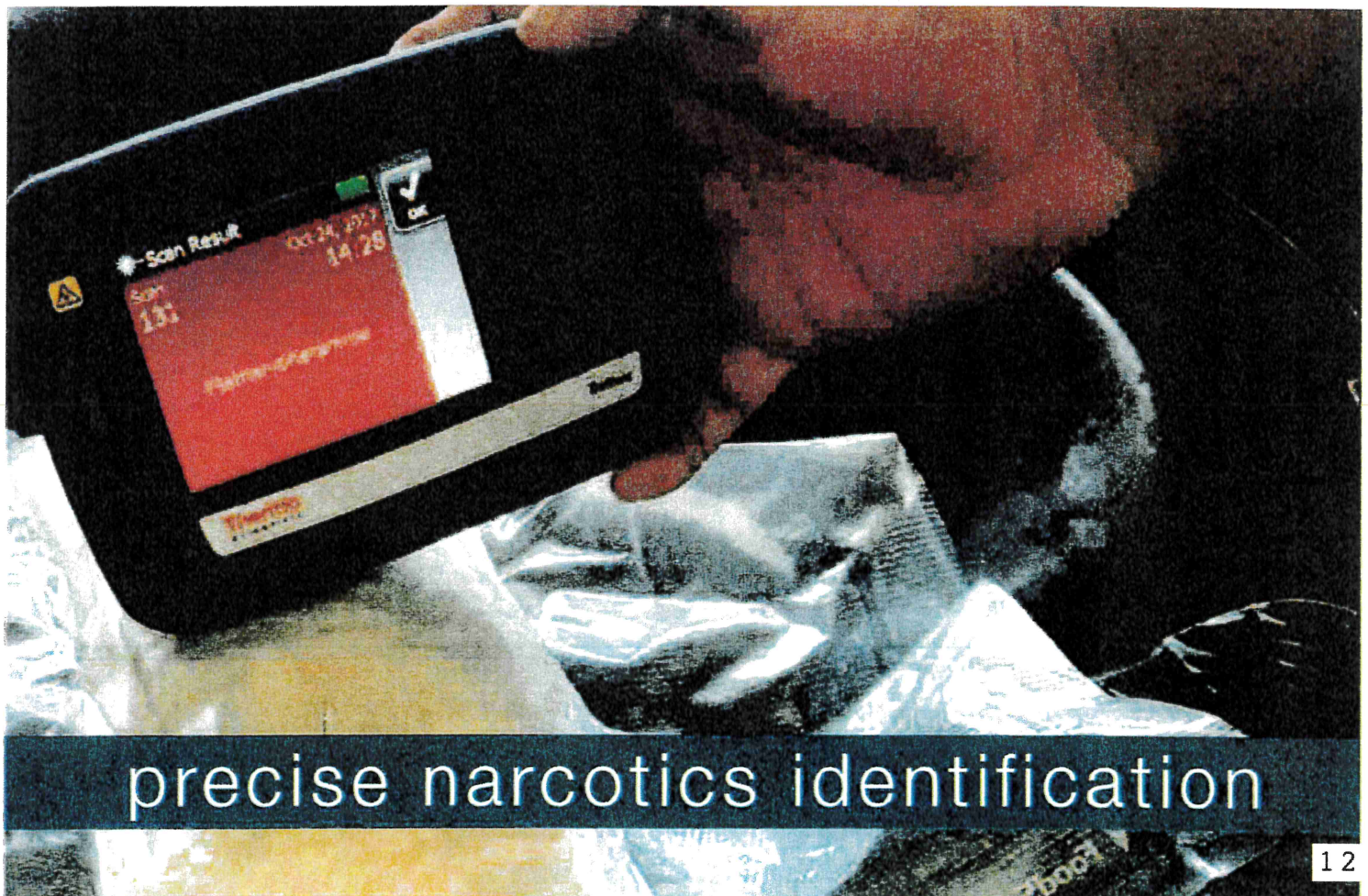
- *"We're definitely seeing a benefit because of TruNarc. We're able to take cases to the grand jury where before we didn't have a toxicology report. Now, a defendant doesn't have to wait for his day in court. It's been a godsend."*

– Etowah County

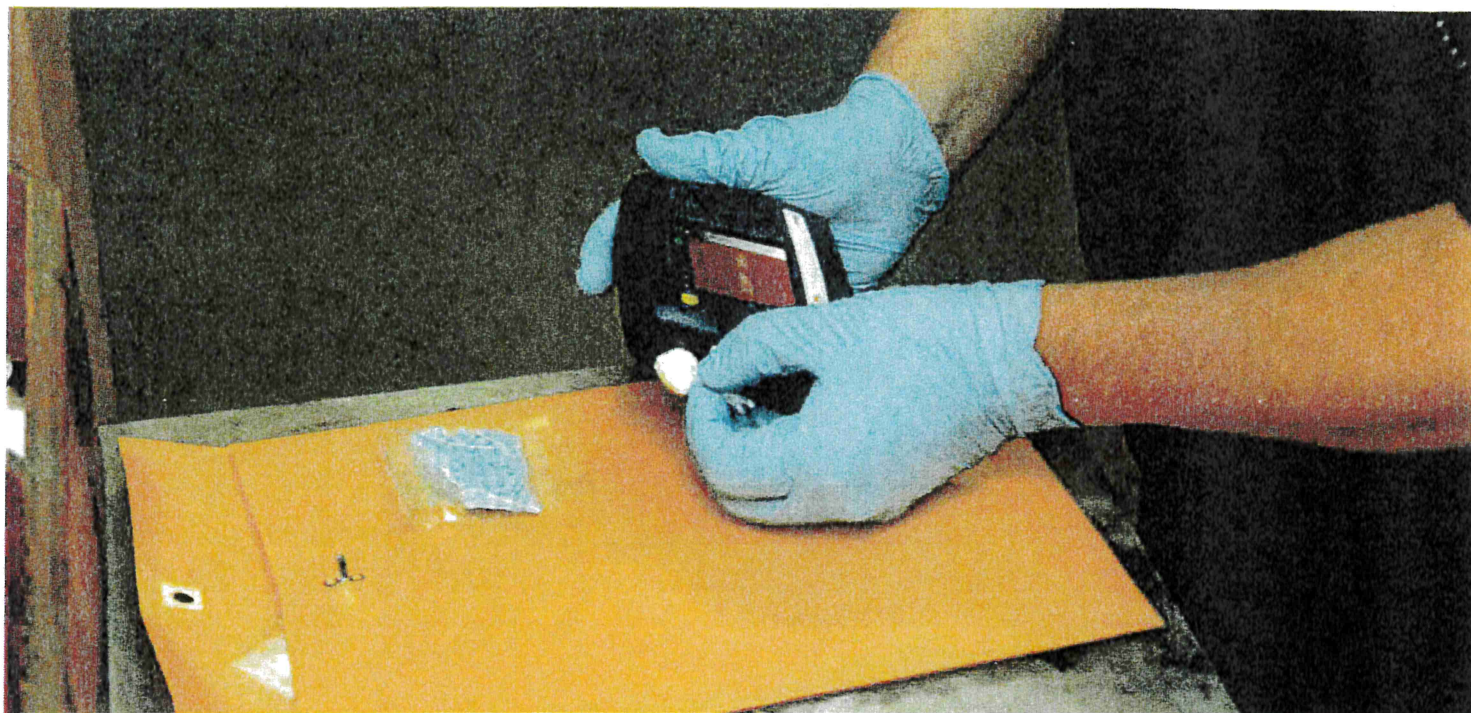
Charles County, Maryland: Improved Protection for Law Enforcement Officers

- Using TruNarc, officers quickly identified fentanyl (a potent opioid absorbed by touch, potentially causing overdose or death) in heroin seizure.
- *"The safety of our officers is one of our top priorities, and this technology will allow us to safely identify controlled dangerous substances quickly and accurately without having to wait on lab results."*

– Charles County



precise narcotics identification



TruNarc: A more accurate and reliable presumptive test

Specifications	Description
Weight	1.25 lb (.570 kg)
Size	6.4 x 4.1 x 2.0 in. (16.26 x 10.41 x 5.10 cm)
Library	Controlled substances, cutting agents and precursors
Configurations	Unlimited or Pay-Per-Scan
Data export formats	CSV, SPC, PDF
Battery	Rechargeable internal 3.7V battery pack (10 hrs.); DC wall adapter, 5V DC, 1.5A; optional car charger
Operating temperature	14° F to 122° F (-10° C to +50° C)
Language configurations	English, Chinese, Japanese, Polish, Russian, Spanish
Computer administration	TruNarc Admin software connected via microUSB to USB
Reachback support	Spectral analysis by staff chemists available
Validation	Third party test results available on request

To learn more about the TruNarc or schedule a demo,
please visit us on line at: thermofisher.com/trunarc



RedXDefense

Chris Ellis, VP Sales

407-247-9321, cellis@redxdefense.com

301-279-7970, Rebecca O'Connor

Date:

Authorized Person/Title:

Shipping Address:

Phone number:

Email:

Billing Contact:

Billing Address:

Phone number:

Email:

		Qty	Total
XCAT Explosives, Narcotics, & GSR Detection System (includes charger and 1 year warranty)	\$2,100.00		
Sampling cards (box of 10, 2 year shelf life):		# boxes	Total
NTR-300: Nitrates and Nitramines	\$39.50		
NTA-400: Nitroaromatics	\$39.50		
PER-700: Peroxides	\$50.00		
DRG-100: Narcotics	\$30.00		
GSR-600: Gunshot Residue	\$50.00		
P-800038: Pelican Case	\$210.00		
X-SWABC-1: Cleaning Swabs (package of 10)	\$16.00		
PP-800043: GSR card transport trays (50 trays)	\$37.50		
Support Plan	\$210.00		
Extended Warranty (additional one year)	\$210.00		

Box of 10

Box of 10

Box of 10

Box of 10

Box of 10

Total Invoice amount (payable in 30 days):

*credit cards accepted.

RedX Authorized Signature:

Authorized Customer Signature:

PRODUCT SPECIFICATIONS

TruNarc handheld narcotics analyzer

Field-based, presumptive testing of suspected narcotics, precursors and cutting agents.

Rapid narcotics ID

The Thermo Scientific™ TruNarc™ analyzer is a handheld Raman system for rapid identification of suspected narcotics without direct contact for most samples. A single test for multiple controlled substances provides law enforcement with clear, definitive results for presumptive identification.

Lightweight and easy to use, the TruNarc device delivers fast and accurate narcotics analysis anywhere it's needed.

TruNarc easily identifies narcotics, stimulants, depressants, hallucinogens and analgesics using lab-proven Raman spectroscopy. The instrument is able to analyze key drugs of abuse as well as common cutting agents and precursors. To ensure that law enforcement personnel stay ahead of the curve, TruNarc identifies such emerging threats as dibutylone, fentanyl, furanyl fentanyl, U-47700 and W-18.



Key benefits

Fast, accurate identification — Get test results in seconds, based on lab-proven Raman spectroscopy.

Easy to use — Achieve proficiency with an intuitive menu-driven interface that enables fast training.

Single test, multiple narcotics — Conduct a single, presumptive analysis to determine if a narcotic is present, saving time and money.

Non-contact sampling — Scan directly through plastic or glass to minimize contamination, reduce exposure and preserve evidence.

Automated, tamper-proof records — Capture all scan results, including time-and-date stamp and system self-check to help expedite prosecution.

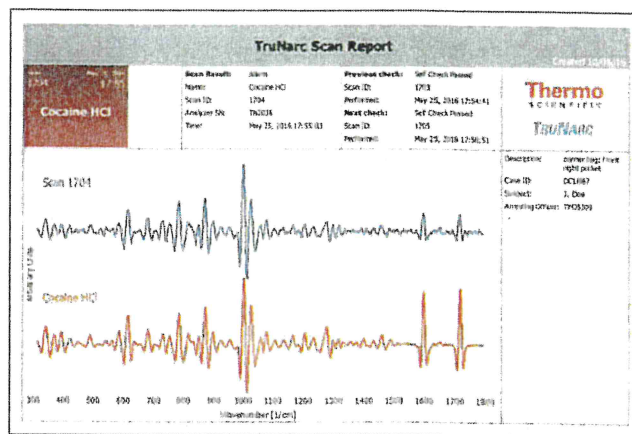
Once a substance is analyzed, full results are automatically stored for reporting and evidence. Rapid results combined with automated reports can streamline the path to prosecution, reducing administrative burden and dramatically impacting the time and expense of drug-related arrests.



ThermoFisher
SCIENTIFIC

The power of the lab in the palm of your hand

With the TruNarc instrument, the accuracy and reliability of a narcotics lab are available anywhere you go. Raman is the same underlying technology as that in the Thermo Scientific™ FirstDefender™ product line, which is in active use globally by military personnel, hazmat teams, bomb squads, and other first responders tasked with unknown chemical identification. The TruNarc analyzer is designed for presumptive testing of narcotics.



Thermo Scientific TruNarc

Specifications

Weight	1.25 lb (.570 kg)
Size	6.4 x 4.1 x 2.0 in. (16.26 x 10.41 x 5.10 cm)
Library	Controlled substances, cutting agents and precursors
Configurations	Unlimited or Pay-Per-Scan
Data export formats	CSV, SPC, PDF
Battery	Rechargeable internal 3.7V battery pack (10 hrs.); DC wall adapter, 5V DC, 1.5A; optional car charger
Operating temperature	14 °F to 122 °F (-10 °C to +50 °C)
Language configurations	English, Chinese, Japanese, Polish, Russian, Spanish
Computer administration	TruNarc Admin software connected via microUSB to USB
Reachback support	Spectral analysis by staff chemists available
Validation	Third party test results available on request

In the Americas:

1-978-642-1132

In Europe, Middle East, Africa:

49-89-3681-380

In Asia Pacific:

852-2885-4613

Find out more at thermofisher.com/trunarc

Email: sales.chemid@thermofisher.com

ThermoFisher
SCIENTIFIC

Type H kit for TruNarc

Solution kit enhances real-world ability of field-based analyzer

Key Words

Narcotics, fentanyl, heroin, Raman spectroscopy, fluorescence, field testing

Introduction

Many common controlled substances are easily identified with the Thermo Scientific™ TruNarc™ analyzer, using point-and-shoot analysis. Some substances, however, exhibit fluorescence or are present in very low concentrations. These target samples can present a challenge for Raman spectroscopy, requiring an additional step to ensure successful analysis.

Many of the most common controlled substances, such as cocaine and methamphetamine, are highly amenable to Raman spectroscopy and present few analysis challenges. The TruNarc analyzer has been successfully deployed for presumptive analysis of these and other suspected narcotics worldwide.

However, a phenomenon known as fluorescence can mask the Raman spectrometry signal of some narcotics, much like glare from sunlight can mask the subject in a photo from a camera. Fluorescence can hinder data collection of some narcotics, such as street heroin and sprayed synthetic cannabinoids.



In addition, the target chemical in suspected narcotics may not be present in high enough concentration for conventional Raman spectroscopy to identify it. For instance, the active components in some prescription drugs are in a very low concentration, making identification a challenge.

To overcome these challenges – yet maximize the benefits of a handheld Raman analyzer – we have developed a Solution Kit (Type H) that enhances the Raman signal of the target substance while decreasing any nuisance fluorescence.



Figure 1. A selection of "Alarm" screens when using the Type H kit

Recommendations for Type H kit use

Initially, TruNarc users should scan a sample using point-and-shoot mode. If this approach leads to an "Inconclusive" or "Clear" result and a specific narcotic is believed to be present, the operator should apply the Type H kit. The kit could be used to help identify these items:

- 2C (Phenethylamines – 2C-B, 2C-E, 2C-I)
- Cocaine HCl
- Fentanyl[^]
- Furanyl fentanyl
- Heroin
- Methamphetamine[^]

- NBOMe (25B-NBOMe, 25C-NBOMe, 25I-NBOMe)
- Synthetic cannabinoids (sprayed onto leaf materials)
- Tablets, including:
 - Alprazolam
 - Buprenorphine[#]
 - Clonazepam
 - Diazepam
 - Hydromorphone
 - Lorazepam
 - MDMA
 - Oxycodone^{*}
 - Oxymorphone

[#] Both tablets and strips are identifiable using the Type H Kit

^{*} Low dose Oxycodone tablets require use of the Type H kit. The more common higher concentration pills – 30mg and above – are typically identifiable using direct point-and-shoot analysis

[^] The analyzer display screen shows a combined result for these substances.

How to use the Type H kit

The Type H test kit is made up of two elements: a test stick and a test vial. The vial contains 1ml of ethanol that is used to dissolve a small amount of the sample. The test stick is used first to scoop the material from the sample or a piece of tablet and transfer it to the vial.

The stick contains a metal substrate at the base of the scoop. After the chemical(s) are dissolved in the ethanol, the test stick is submerged into the vial, coating the metal substrate with the solution. The test stick is then removed, allowed to dry, positioned against the TruNarc analyzer, and scanned. See Figure 2.

This method has been shown to increase the spectrum strength and reduce the amount of fluorescence for certain samples.

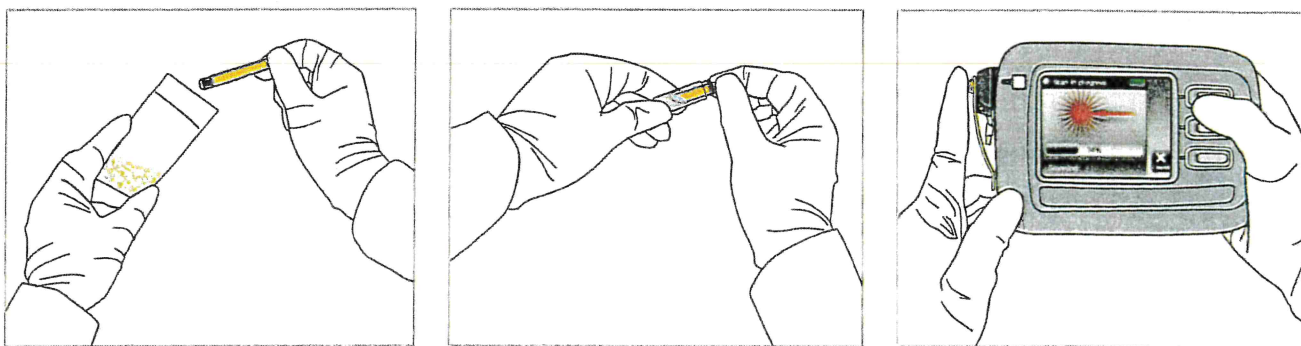


Figure 2. Process for analysis using a TruNarc Type H kit

Science behind the Type H kit

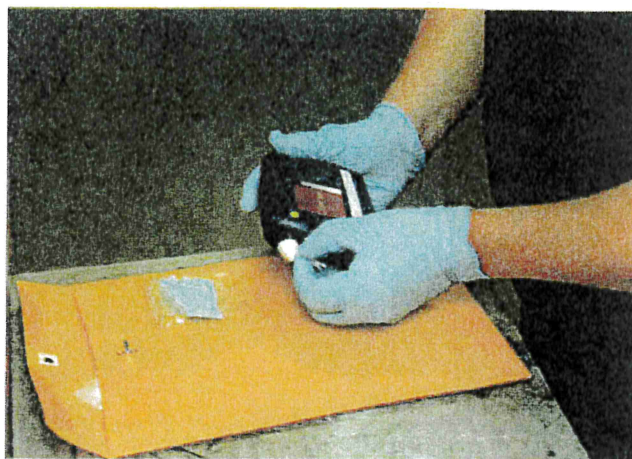
The roughened metal surface on the Type H test stick has two primary attributes. First, the surface quenches the fluorescence, the phenomenon that may prevent analysis of the bulk material. Second, the surface enhances the Raman signal of the molecules adsorbed onto the surface of the roughened metal, which allows analysis of very small amounts of material.

When the TruNarc analyzer is used to measure the Type H stick, the laser light is focused onto the metal surface. As with point-and-shoot analysis, the spectrometer measures the unique spectral fingerprint of the molecules, and then compares the data collected with the on-board TruNarc library.

It should be noted that the spectra obtained on the test stick are different from those of a conventional Raman spectrum. To enable these new applications using the Type H Kit, Thermo Fisher Scientific scientists create a library item for each unique chemical using certified laboratory standards.

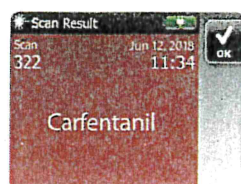
Summary

The Type H test kit further enhances the real-world utility of the TruNarc analyzer, enabling users to screen for specific narcotics that are fluorescent and/or at low concentration. A key enhancement is the ability to use the TruNarc analyzer to screen for such emerging synthetic opioids as fentanyl, furanyl fentanyl, heroin and methamphetamine. Several low dose tablets are also identifiable using the Type H test kit in conjunction with the TruNarc analyzer for presumptive narcotics identification.



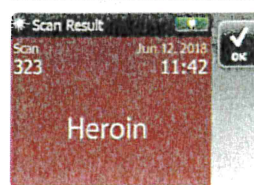
TruNarc Substance Library: Display Names

Alarm



1. 1,4-Dibenzylpiperazine (DBZP)	50. 4-Chloroisobutyl fentanyl	111. Acrylfentanyl	173. EAM-2201 (cannabinoid)	234. Methcathinone
2. 25B-NBOMe	51. 4-Chloromethcathinone (4-CMC)	112. ADB-FUBINACA (cannabinoid)	174. Ethcathinone	235. Methedrone (cathinone)
3. 25C-NBOMe	52. 4-Chloro-N-isopropylcathinone	113. ADB-PINACA (cannabinoid)	175. Ethylone (bk-MDEA) (cathinone)	236. Methoxetamine (MXE)
4. 25D-NBOMe	53. 4-Chloropentadone (cathinone)	114. AH-7921	176. Ethylone (cathinone)	237. Methoxyphenidine (MXP)
5. 25E-NBOMe	54. 4-Ethylethcathinone	115. AKB48 (APINACA) (cannabinoid)	177. Ethylphenidate	238. Methoxyacetylfentanyl
6. 25I-NBOMe	55. 4-Ethylmethcathinone	116. Alfentanil	178. Etizolam	239. Methylone (cathinone)
7. 25N-NBOMe	56. 4-Fluoro amphetamine	117. alpha-Methyl acetylfentanyl	179. Eutylone (bk-EEDB) (cathinone)	240. Methylphenidate
8. 25P-NBOMe	57. 4-Fluoro cyclopropyl fentanyl	118. alpha-Methyltryptamine (AMT)	180. FDU-PB-22 (cannabinoid)	241. Mexedrone (cathinone)
9. 25T4-NBOMe	58. 4-Fluoro methamphetamine	119. alpha-PVP (cathinone)	181. Fenethylone	242. MN-18 (cannabinoid)
10. 25T7-NBOMe	59. 4-Fluoro methoxyacetyl fentanyl	120. Alprazolam	182. Fentanyl	243. MN-24 (NNE) (cannabinoid)
11. 2-AI (Aminocindan)	60. 4-Fluoro PVB	121. AM1220 (cannabinoid)	183. Flubromazepam	244. MN-25 (cannabinoid)
12. 2C-B (phenethylamine)	61. 4-Fluoro-alpha-PVP	122. AM-1235 (cannabinoid)	184. Flubromazolam	245. Morphine
13. 2C-C (phenethylamine)	62. 4-Fluorobuphedrone (cathinone)	123. AM-1241 (cannabinoid)	185. Flunitrazepam	246. MPHP (cathinone)
14. 2C-D (phenethylamine)	63. 4-Fluorobutyl fentanyl	124. AM1248 (cannabinoid)	186. Fluoxetine	247. N,N-Diethylpentylone (cathinone)
15. 2C-E (phenethylamine)	64. 4-Fluorofentanyl	125. AM-2201 (cannabinoid)	187. FUB-AMB (cannabinoid)	248. Naphyrone (cathinone)
16. 2C-H (phenethylamine)	65. 4-Fluoroisobutylfentanyl (FIBF)	126. AM-2233 (cannabinoid)	188. FUB-JWH-018 (cannabinoid)	249. N-Ethylbuphedrone (cathinone)
17. 2C-I (phenethylamine)	66. 4-Fluoromethcathinone (4-FMC)	127. AM-630 (cannabinoid)	189. FUB-PB-22 (cannabinoid)	250. N-Ethylorketamine
18. 2C-N (phenethylamine)	67. 4-Fluoropentadone (cathinone)	128. AM-694 (cannabinoid)	190. Furanyl fentanyl	251. N-Ethylpentylone (cathinone)
19. 2C-P (phenethylamine)	68. 4-MeO-alpha-PVP	129. Amphetamine	191. Gabapentin	252. Nimetazepam
20. 2C-T-2 (phenethylamine)	69. 4-MeO-DMT	130. APICA (cannabinoid)	192. GBL	253. Nitroacine
21. 2C-T-7 (phenethylamine)	70. 4-MeO-PCP	131. APP-CHMINACA (cannabinoid)	193. GHB	254. NPB-22 (cannabinoid)
22. 2-Chloromethcathinone (2-CMC)	71. 4-Methoxy PVB	132. APP-PICA (cannabinoid)	194. Heroin	255. NRG-3 (cathinone)
23. 2-Ethylmethcathinone (2-EMC)	72. 4-Methoxyacetyl fentanyl	133. BB-22 (cannabinoid)	195. HU-210 (cannabinoid)	256. Octefentanyl
24. 2-Fluorofentanyl	73. 4-Methyl acetylfentanyl	134. Benzodioxole fentanyl	196. HU-211 (cannabinoid)	257. Oxazepam
25. 2-Fluoromethamphetamine	74. 4-Methyl furanyl fentanyl	135. bk-2C-B	197. Hydromorphone	258. Oxycodone
26. 2-MAPB	75. 4-Methyleminorex	136. Bomo-dragonfly (phenethylamine)	198. beta-Hydroxythiofentanyl	259. Oxymorphone
27. 2-Methyl furanyl fentanyl	76. 4-Methylbuphedrone (cathinone)	137. Buphedrone (cathinone)	199. Isobutyl fentanyl	260. PB-22 (cannabinoid)
28. 2-Methylmethcathinone (2-MMc)	77. 4-Methylethcathinone (4-MEC)	138. Buprenorphine	200. JWH-015 (cannabinoid)	261. PCP
29. 3,4-Dichloromethylphenidate	78. 4-Methylpentadone (cathinone)	139. Butalbital	201. JWH-018 (cannabinoid)	262. Pentadone (cathinone)
30. 3,4-Dimethoxymethcathinone	79. 5-APB	140. Butylone (cathinone)	202. JWH-019 (cannabinoid)	263. Pentylone (cathinone)
31. 3-Bromamphetamine	80. 5-APDB	141. Butyl fentanyl	203. JWH-020 (cannabinoid)	264. Phenazepam
32. 3-Bromomethcathinone (3-BMC)	81. 5-Chloro AB-PINACA (cannabinoid)	142. BZP	204. JWH-073 (cannabinoid)	265. Phentermine
33. 3-Chloroethcathinone (3-CEC)	82. 5-DBFPV	143. Carfentanyl	205. JWH-081 (cannabinoid)	266. Phenyl fentanyl
34. 3-Chloromethcathinone (3-CMC)	83. 5-EAPB	144. Carisoprodol	206. JWH-122 (cannabinoid)	267. PMA
35. 3-Ethylmethcathinone (3-EMC)	84. 5-Fluoro ABICA (cannabinoid)	145. Cathinone	207. JWH-182 (cannabinoid)	268. PMEA
36. 3-Fluoro amphetamine	85. 5-Fluoro AB-PINACA (cannabinoid)	146. Chloro amphetamine	208. JWH-200 (cannabinoid)	269. PMMA
37. 3-Fluoro methoxyacetyl fentanyl	86. 5-Fluoro ADBICA (cannabinoid)	147. Clonazepam	209. JWH-203 (cannabinoid)	270. Pravadolone
38. 3-Fluorofentanyl	87. 5-Fluoro AKB48 (cannabinoid)	148. Clonazolam	210. JWH-210 (cannabinoid)	271. PX-1 (cannabinoid)
39. 3-Fluoromethcathinone (3-FMC)	88. 5-Fluoro AMB (cannabinoid)	149. Cocaine	211. JWH-250 (cannabinoid)	272. PX-2 (cannabinoid)
40. 3-Fluorophenmetrazine	89. 5-Fluoro MN-18 (cannabinoid)	150. Cocaine base	212. JWH-412 (cannabinoid)	273. RCS-4 (cannabinoid)
41. 3-MeO-PCP	90. 5-Fluoro NNEI (cannabinoid)	151. Cocaine HCl	213. Ketamine	274. RCS-8 (cannabinoid)
42. 3-Methoxymethcathinone (3-MMC)	91. 5-Fluoro NPB-22 (cannabinoid)	152. Catene	214. Lisdexamfetamine	275. Remifentanyl
43. 3-Methylmethcathinone (3-MMC)	92. 5-Fluoro PB-22 (cannabinoid)	153. CP-47 497 (cannabinoid)	215. MAR-CHMINACA (cannabinoid)	276. STS-135
44. 4-APDB	93. 5-Fluoro SDB-006 (cannabinoid)	154. CUMYL-THPINACA (cannabinoid)	216. MAM-2201 (cannabinoid)	277. Sufentanil
45. 4-Bromoethcathinone (4-BEC)	94. 5-IAI	155. Cyclobenzaprine	217. mCPP	278. t-BQC MDMA
46. 4-Bromomethcathinone (4-BMC)	95. 5-IT	156. Cyclobutyl fentanyl	218. MDA	279. t-BQC Methamphetamine
47. 4-Chloro 2,5-DMA	96. 5-MAPB	157. Cyclohexyl fentanyl	219. MDAl	280. Temazepam
48. 4-Chloroethcathinone	97. 5-MeO-DALT	158. Cyclopentyl fentanyl	220. MDEA	281. Tetrahydrofuran fentanyl
49. 4-Chlorofentanyl	98. 5-MeO-DIPT	159. Cyclopropyl fentanyl	221. MDMA	282. TFMP
	99. 5-Methoxy DiPT	160. Deschloroketamine	222. MDMB-CHMICA (cannabinoid)	283. THJ-2201 (cannabinoid)
	100. 6-APDB	161. Dextromethorphan (DXM)	223. MDMB-FUBINACA (cannabinoid)	284. Tramadol
	101. 6-Bromo-MDMA	162. Diazepam	224. MDPBP (cathinone)	285. Trihexyphenidyl (THP)
	102. 6-Chloro-MDMA	163. Dibutylone (bk-DMDBS) (cathinone)	225. MDPHP (cathinone)	286. U-47700
	103. 6-EAPB	164. Diclazepam	226. MDPVP (cathinone)	287. UR-144 (cannabinoid)
	104. 7-APDB	165. Diethylcathinone	227. Mephedrone (cathinone)	288. UR-144 analog (cannabinoid)
	105. A-634/35 (cannabinoid)	166. Dimethyl cathinone	228. Mephedrone (cathinone)	289. Valeryl fentanyl
	106. AB-001 (cannabinoid)	167. Dimethyl methcathinone	229. Mephedrone (cathinone)	290. W-18
	107. AB-CHMINACA (cannabinoid)	168. Dimethylaminorex (DMAr)	230. Mescaline-NBOMe	291. XLR 11 (cannabinoid)
	108. AB-FUBINACA (cannabinoid)	169. Dimethylone (bk-MDDMA) (cathinone)	231. Methadone	292. XLR-11 N-(4-pentenyl)
	109. AB-PINACA (cannabinoid)	170. Dimethyltryptamine (DMT)	232. Methamphetamine	293. Zolpidem
	110. Acetyl fentanyl	171. Diphenidine	233. Methaqualone	
		172. Diphenylprolinol (D2PM)		

Type H Alarm

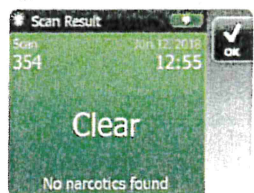


- | | | | |
|--------------------------|------------------------|----------------------|----------------------------|
| 1. 25B-NBOMe | 7. Alprazolam | 13. Flubromazepam | 19. Oxycodone* |
| 2. 25C-NBOMe | 8. Buprenorphine*# | 14. Heroin | 20. Oxymorphone* |
| 3. 25I-NBOMe | 9. Clonazepam† | 15. Hydromorphone* | 21. Synthetic Cannabinoid† |
| 4. 2C-B (phenethylamine) | 10. Cocaine | 16. Lorazepam* | |
| 5. 2C-E (phenethylamine) | 11. Diazepam | 17. Methamphetamine† | |
| 6. 2C-I (phenethylamine) | 12. Fentanyl Compound† | 18. MDMA* | |

Notes:

- * Some low dose pills require a Type H Kit for identification.
- # Buprenorphine both tablet and strip
- * A "Synthetic Cannabinoid" screen result encompasses the individual cannabinoids listed above.
- † Fentanyl Compound includes fentanyl and fentanyl analogs.
- † Combined result

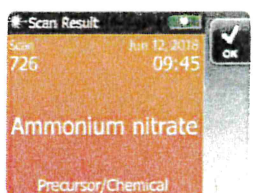
Clear



1. 2-Ethylamino-1-phenylbutane
2. Antipyrine
3. Atropine
4. Baby powder
5. Baking soda
6. Benzocaine
7. Boric acid
8. Brucine

- | | | | |
|--------------------------------|-------------------------------|--------------------------------|--------------------------------|
| 9. Caffeine | 27. Ethyl benzocetate | 45. Magnesium sulfate | 63. Polyethylene glycol |
| 10. Calcium carbonate | 28. Fructose | 46. Maltose | 64. Polyethylene terephthalate |
| 11. Calcium stearate | 29. Glucose | 47. Mannitol | 65. Polypropylene |
| 12. Calcium sulfate | 30. Glutamine | 48. Methyl salicylate | 66. Polyvinyl chloride |
| 13. Cellulose | 31. Griseofulvin | 49. Methylethylxanamine (DMAA) | 67. Procaine |
| 14. Chloroquine | 32. Guafenesin | 50. Minoxidil | 68. Propylphenazone |
| 15. Citric acid | 33. Gypsum | 51. Naloxone | 69. Quinine |
| 16. Confectioner's sugar | 34. High density polyethylene | 52. Naproxen | 70. Saccharin |
| 17. Corn starch | 35. Hydroxyzine | 53. Nicotinamide | 71. Silicon dioxide |
| 18. Creatine | 36. Inositol | 54. Nicotine | 72. Sodium sulfate |
| 19. Dextrose | 37. Isopropyl benzylamine | 55. Nicotinic acid | 73. Sorbitol |
| 20. Diltiazem | 38. Lactose | 56. N-Methyl-phenethylamine | 74. Sucrose |
| 21. Dimethyl aminoantipyrine | 39. Levamisole (Tetramisole) | 57. Noscipine | 75. Sugar |
| 22. Dimethyl sulfone | 40. Lidocaine | 58. Papaverine | 76. Tetracaine |
| 23. Diphenhydramine (Benadryl) | 41. Lorazepam | 59. Phenacetin | 77. Theophylline |
| 24. Dipyrone | 42. Low density polyethylene | 60. Piracetam | 78. Titanium oxide |
| 25. Epsom salt | 43. Magnesium citrate | 61. Plaster of Paris | 79. Vitamin C |
| 26. Ethanol | 44. Magnesium stearate | 62. Polypropylene glycol | |

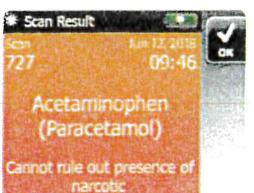
Precursor/Chemical



1. 1,4-Butanediol
2. 1-Phenethyl-4-piperidone (NPP)
3. Acetic acid
4. Acetic anhydride
5. Acetone
6. Acetyl bromide
7. Acetyl chloride

- | | | | |
|---|----------------------------------|--|----------------------------------|
| 8. Ammonium chloride | 24. Chloropseudoephedrine | 41. Methyl ethyl ketone (MEK) | 57. Potential Explosive Material |
| 9. Ammonium nitrate | 25. Cyclohexane | 42. Methylamine HCl | 58. Propyl acetate |
| 10. Ammonium sulfate | 26. Cyclohexanone | 43. N-Methylephedrine | 59. Pseudoephedrine |
| 11. Anthranilic acid | 27. Despropionyl fentanyl (ANFP) | 44. Norephedrine | 60. Red phosphorus |
| 12. APAA | 28. Dichloromethane | 45. Palladium chloride | 61. Safrole |
| 13. APAAH | 29. Diethyl ether | 46. Phenethylamine | 62. Sodium acetate |
| 14. Barium sulfate | 30. Dihydroxatrole | 47. Phenyl-2-propanone (P2P, BMK) | 63. Sodium carbonate |
| 15. Benzoic acid | 31. Dimethylacetamide | 48. Phenylacetic acid | 64. Sulfuric acid |
| 16. BMK ethyl glycidate | 32. Ethyl acetate | 49. Phenylnitropropene | 65. t-BOC Pseudoephedrine |
| 17. BMK Glycidic acid | 33. H-Phe-Cyclohexylamide | 50. Phosphoric acid | 66. Toluene |
| 18. BMK Glycidic acid (sodium salt) | 34. Hydroxylamine | 51. Piperidine | 67. White Fuel (camping) |
| 19. BMK methyl glycidate | 35. Hydroxylamine | 52. Piperonal | 68. Xylene |
| 20. Bromobenzene | 36. Hypophosphorous acid | 53. Piperonyl methyl ketone (PMK, MDP2P) | |
| 21. Chloroephedrine/Chloropseudoephedrine | 37. Isopropanol | 54. PMK (MDP2P) methyl glycidate | |
| 22. Chloroform | 38. Isosalrole | 55. PMK Glycidic acid (sodium salt) | |
| 23. Chlorophenyl cyclopentyl ketone | 39. Lead acetate | 56. Potassium permanganate | |
| | 40. Methanol | | |

Warning



1. Acetaminophen (Paracetamol)
2. Aspirin
3. Ephedrine
4. Ibuprofen

Note: These substances have a strong Raman signal which can mask certain narcotics. Additional testing via an alternate method is recommended.

In the Americas
1-978-642-1132

In Europe, Middle East, Africa
49-89-3681-380

In Asia Pacific
852-2885-4613

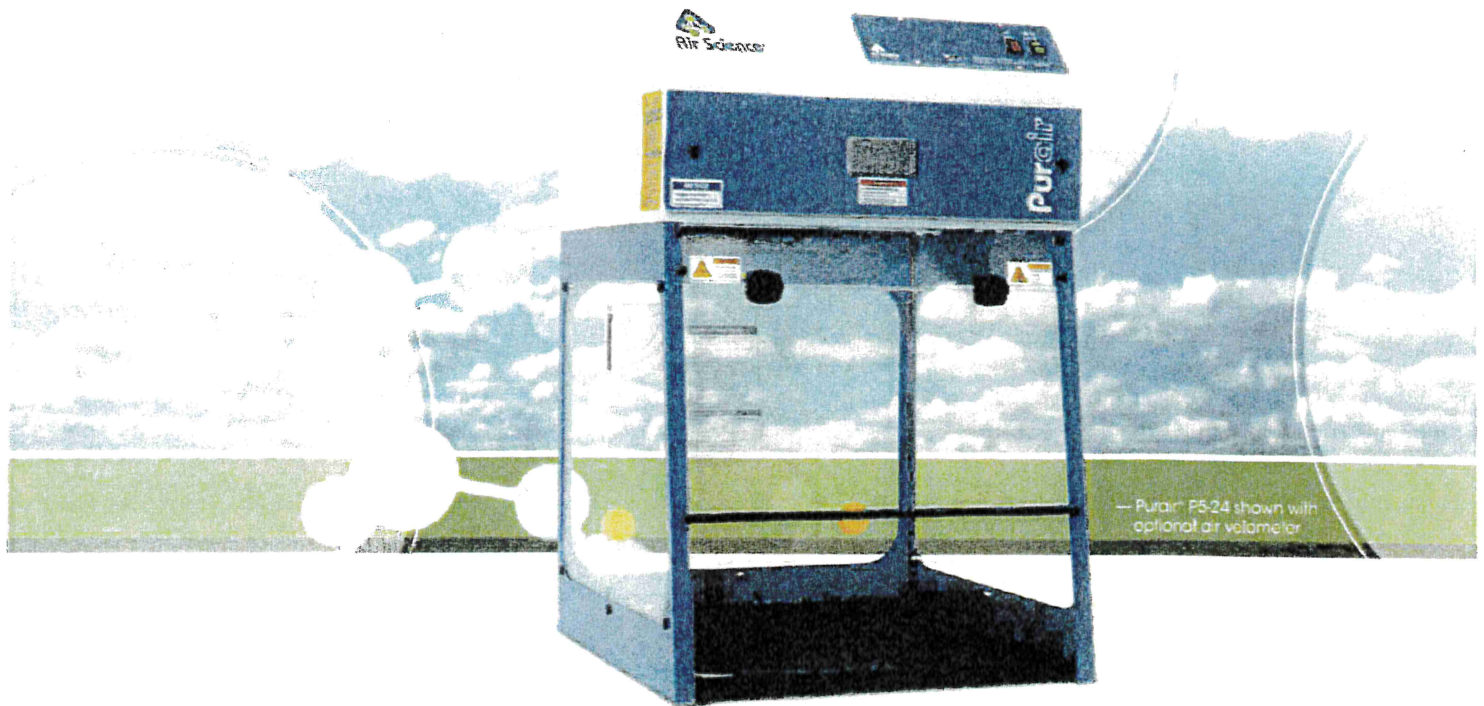
Learn more thermofisher.com/trunarc
Email sales.chemid@thermofisher.com

ThermoFisher
SCIENTIFIC

Purair[®] BASIC

General Application Ductless Fume Hoods 24 • 36 • 48

The World's Most Extensive Selection of Ductless Fume Hoods



Provides Fast and Easy Operation Safety
in General Applications

With a choice of Purair Models
to meet your needs.



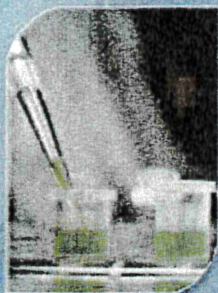
GSA Schedule

ISO 9001:2015

ISO 14001:2015

JUMP TO:

- Features and Callouts (p.3)
- Controller Options (p.4)
- Airflow and Multiplex[™] Filtration Technology (p.5)
- Specifications (p.6)
- Options and Accessories (p.7)



APPLICATIONS

- Compounding
- Enclosing balances, microscopes, and robotic equipment
- Forensics
- Histology
- Educational
- Microscopy
- Mobile and classroom demonstrations
- Pharmaceutical
- Powder fingerprinting
- Powder weighing
- Sample prep work
- Soldering
- Solvent cleaning and welding
- Veterinary and dental work

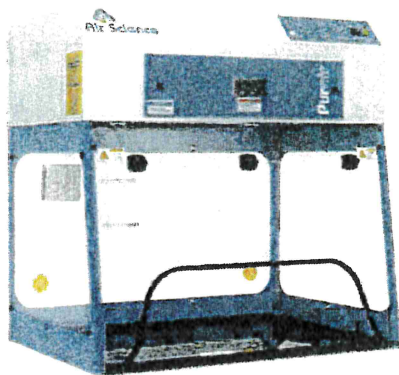
INTRODUCTION

The Purair[®] Basic ductless fume hoods are a series of high efficiency products designed to protect the user and the environment from hazardous vapors generated on the work surface. At the heart of the Purair fume hood product line is the innovative Air Science Multiplex[™] Filtration Technology that creates a safe work environment over the widest range of applications in the industry.



Pur

Ductless Fume Hoods



Pur

Ductless Fume Hoods

- Protects the operator from fume and particle hazards.
- Easy to change filters.
- Improved filter clamping eliminates by-pass leakage.
- Low airflow alarm.

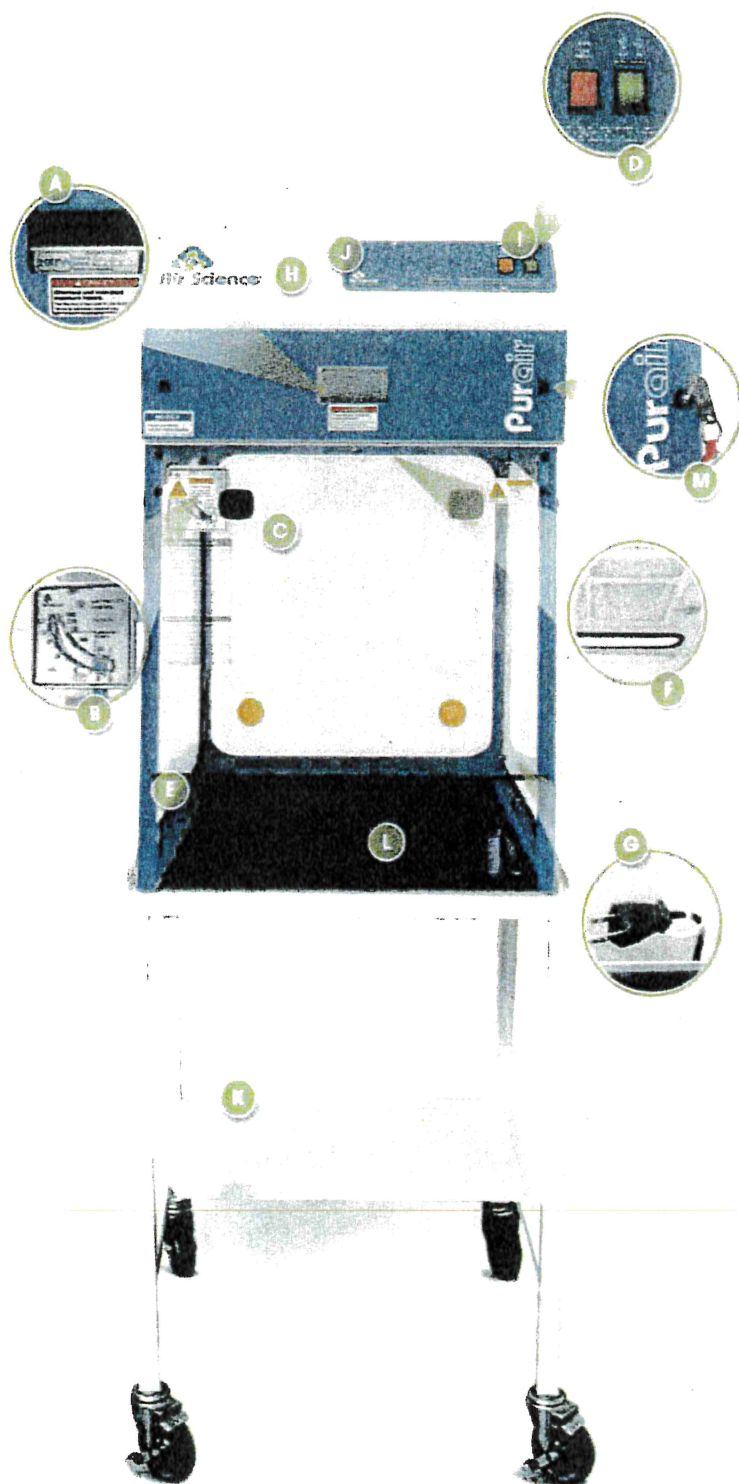
Purair P5-36, shown with optional Filter Saturation Alarm (FSA) and air velometer.



DUCTLESS TECHNOLOGY: The Eco-friendly Choice

Advanced carbon filtration technology offers a safe, high performance alternative to conventional ducted fume hoods for a broad range of applications.

- **Environmental Benefits.** Air Science ductless fume hoods isolate and trap chemical vapors to prevent ecological impact through release into the environment.
- **Versatile.** Each filtration system is selected for its specific application. The Multiplex Filter broadens the range of applications. Carbon filters are available in more than 14 configurations for use with vapors or organic solvents, acids, mercury and formaldehyde. HEPA/ULPA filters can add to biological safety.
- **Easy to Install.** The ductless fume hood is self-contained and does not require venting to the outside. Many units are portable and may be moved from one location to the next with minimal down-time and without filter changes. Set-up, operation and filter maintenance are straightforward.
- **Energy Efficient.** Because filtered air is returned to the room, no demands are required of the facility HVAC capacity for make-up air.
- **Cost Effective.** Facility ductwork, HVAC and construction costs are eliminated.
- **Safe to Use.** Cabinet airflow and face velocity protect users from incidental exposures to fumes.
- **Self testing.** (selected models) Electronic airflow monitoring assures continuous safety. An electronic gas sensor monitors carbon filter performance.



PRODUCT FEATURES:

- A. Filter I.D. Window:** A strategically placed front cover window shows the installed filter part number and installation date for convenience and to encourage timely filter replacement.
- B. Air Velometer:** (Optional) An analog air velocity meter in the field of vision of the user.
- C. Hinged Front Sash:** When closed, the cabinet sash protects the contents from inadvertent external contact, and better isolates the air within. The sash is easy to open and close.
- D. Control Panel:** Electronic controls and displays include switches for the blower and low airflow alarm.
- E. Steel Support Frame:** The chemical resistant epoxy coated steel frame adds mechanical strength. Optional all polypropylene construction is available if desired; see Accessories.
- F. Electrostatic Pre-Filter:** The 99.5% effective electrostatic pre-filter is accessible from inside the chamber to contain the release of any particulates that it traps. The pre-filter can be changed while the unit is operating to prevent operator exposure to chemical vapors.
- G. Pass Through Ports:** Electrical cords and cables are safely routed into the cabinet through ports on the back and side walls.
- H. Color:** The cabinet is white with blue trim; side and back panels are clear.
- I. Airflow Alarm:** A continuous air velocity monitoring system alerts the operator upon unacceptable values.
- J. Internal Manual Speed Controller:** Authorized personnel may set the centrifugal fan motor speed as desired.
- K. Stand:** Optional mobile cart with locking casters.
- L. Work Surface:** The internal work surface can be fitted with an optional polypropylene tray; see Accessories.
- M. Filter Door Key:** Filter access keys prevent unauthorized removal or accidental exposure to dirty filters.

OTHER FEATURES:

360 Degree Visibility: Clear back and side panels allow ambient illumination into the chamber and provide users with an unobstructed view of its contents.

Standards Compliant: Performance specifications and construction meet or exceed OSHA, ANSI and relevant international standards to assure operator safety.

Construction: All models are available in either metal or polypropylene construction. See selection chart for specifications and dimensions. Specify metal or polypropylene when ordering. Available in 110V, 60Hz or 220V, 50Hz models.

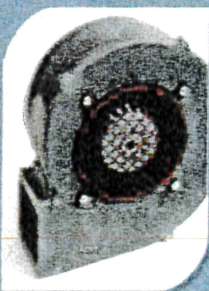
Steel Support Frame: The chemical resistant epoxy coated steel frame adds mechanical strength. Optional all polypropylene construction is available if desired.

Purair P5-24, shown with optional mobile cart and spill tray.

THE AIR SCIENCE PERFORMANCE ADVANTAGE

Each Air Science fume hood includes features expressed through sound design and certified quality construction. Options and accessories add functional performance to meet specific applications.

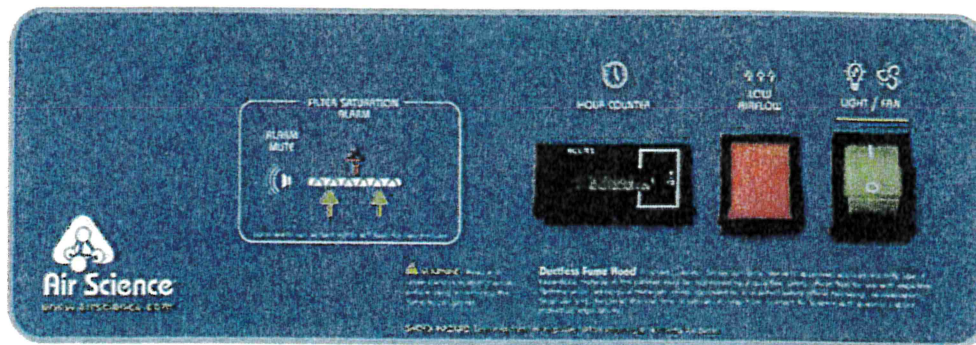
- **Professional Quality.** Air Science fume hoods comply with current technical and safety regulations.
- **Multiplex Filtration.** The Air Science Multiplex™ Filter offers a range of options for high performance.
- **Industrial Components.** The cabinet frame and work surfaces are durable and chemically resistant.
- **Reliability.** Internal systems are isolated from fumes, extending product life.



Air Science fume hoods use energy-efficient ebmpapst® brand centrifugal blowers for long life, and dependable performance.



Basic control panel. Standard on Purair Basic Models. Includes On/Off switch and low airflow alarm.



Optional Advanced control panel with hour meter to aid in determining available filter life and Filter Saturation Alarm (FSA). The FSA adds an electronic gas sensor and emits audio and visual alerts when the main filter needs to be changed.

multiplex

AIR SCIENCE MULTIPLEX FILTRATION TECHNOLOGY

Multiplex Filtration consists of a pre-filter and main filter to create a combination of chemical and physical architecture customized to each application. The mechanical design enhances safety, convenience and overall value.

- The electrostatic pre-filter is accessible from within the cabinet.
- A filter clamping mechanism allows for the filter to be

easily installed and ensures an even seal at the filter peripheral face at all times to prevent bypass leakage.

- The filter chamber prevents contaminated air from contacting internal cabinet mechanisms.
- The main filter number and installation date are displayed in a front-access window.

The Air Science carbon filtration technique is based on enhanced, activated carbon particle formulations from specially selected, naturally occurring raw material superior to

wood or other organic sources. The carbon is treated to attain the proper porosity and aggregate surface area and to react with several ranges of aerosolized chemicals moved through the filter by an air handling blower.

- The multiplex option permits one or more filtration options to be combined to meet a wider range of multiple-use applications. Multiplexing permits configuration for the capture of acids, bases and particulates such as biological aerosols when paired with HEPA or ULPA filters.

- The Air Science carbon filter is a self-contained assembly sized to fit the specified product model number, and configured to optimize airflow across 100% of the filter surface area for maximum efficiency, prolonged filter life, optimal diffusion and saturation capacity, and user safety.

Air Science is the single source supplier for all pre-filters and carbon filters used in its products, plus those of many other manufacturers.

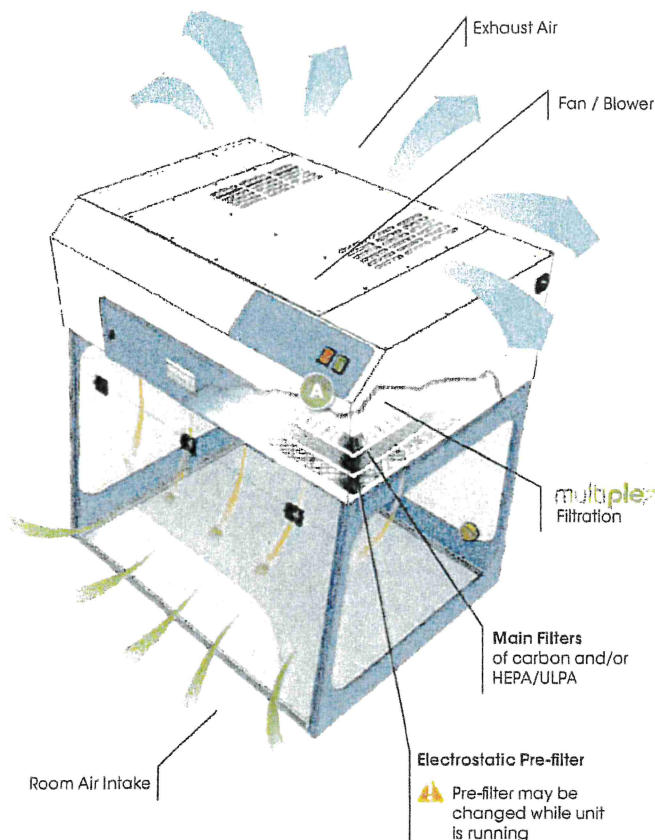
PURAIR BASIC FEATURES & BENEFITS

Purair Basic products are available in 3 standard sizes, each with 4 configuration options and metal or polypropylene construction, totaling 24 standard models.

- High capacity air handling system delivers face velocity of 100 FPM.
- A low airflow alarm warns of insufficient face velocity.
- The Air Science filter assembly is easy to access, easy to change.
- A unique filter clamping design eliminates bypass leakage outside the cabinet.
- Accessories include an optional filter saturation alarm.



PURAIR® AIRFLOW PATTERN



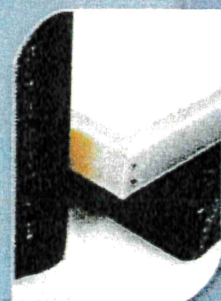
Purair P5-36, shown with Multiplex Filtration System.

The Purair Basic Series ductless fume hood maintains a constant face velocity of 100 FPM in compliance with USA and international standards for safety and performance. Contaminated air is pulled through the Multiplex filtration system where activated carbon adsorbs chemical vapors and/or particulates if HEPA/ULPA filters are used. Clean air is returned to the room.

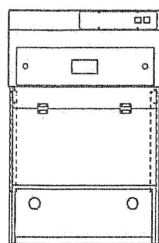
- The main filter is easy to replace, no tools required. The filter clamps tightly against the filter gasket to prevent filter bypass and maintain filter integrity.

MULTIPLEX FILTRATION SYSTEM, SUMMARY

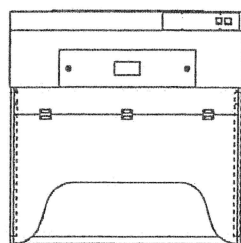
	Pre-Filter	Main Filter
Electrostatic	Protects the main filters from aerosols, mists, dust and particulates with filter efficiency superior to 95.5% down to 0.5 microns.	
	Standard	
Activated Carbon	FILTCO™ Sourced. A single carbon filter containing activated carbon granules chemically formulated to capture one or more specific vapors or family of vapors.	
Single: One type of activated carbon.	—	Specify
Stacked: Two or more single filters each with a different type of carbon.	—	Specify
HEPA/ULPA	A self-contained filter designed to physically capture particles larger than 0.3 microns (HEPA) or 0.12 microns (ULPA). When used with a HEPA/ULPA filter the ductless fume hood may be applied as a Class I Biological Safety Cabinet.	Specify



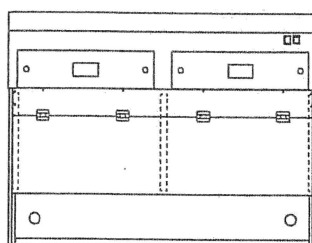
The Multiplex filter configuration permits a customized combination of filter media for a broad range of chemical families and biological agents if required. EFT Filtration Technology broadens the Air Science application for ductless fume hoods.



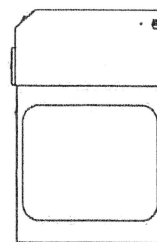
Purair® P5-24



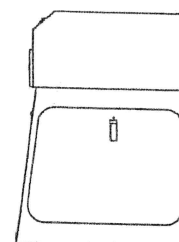
Purair® P5-36



Purair® P5-48



Side View



Side View

MODEL	DIMENSIONS			WEIGHT (lb/kg)	
	Internal Height	External (W x D x H)	Shipping (W x D x H)	Net	Ship
Standard Models					
P5-24	19" 484 mm	24" x 27" x 31" 610 x 676 x 781 mm	40" x 40" x 40" 1016 x 1016 x 1016 mm	68 / 31	125 / 57
P5-36	19" 484 mm	36" x 27" x 31" 914 x 676 x 781 mm	40" x 40" x 40" 1016 x 1016 x 1016 mm	95 / 43	152 / 69
P5-48	19" 484 mm	48" x 27" x 31" 1219 x 676 x 781 mm	45" x 55" x 40" 1143 x 1397 x 1016 mm	133 / 60	190 / 86
Models with Straight Legs (Reduced Depth)					
P5-24S	19" 484 mm	24" x 24" x 31" 610 x 610 x 781 mm	40" x 40" x 40" 1016 x 1016 x 1016 mm	65 / 29	110 / 50
P5-36S	19" 484 mm	36" x 24" x 31" 914 x 610 x 781 mm	40" x 40" x 40" 1016 x 1016 x 1016 mm	92 / 42	142 / 64
P5-48S	19" 484 mm	48" x 24" x 31" 1219 x 610 x 781 mm	45" x 55" x 40" 1143 x 1397 x 1016 mm	130 / 59	187 / 85
Standard Models with Extra Tall Legs					
P5-24-XT	23.6" 600 mm	24" x 27" x 35" 610 x 676 x 889 mm	40" x 40" x 40" 1016 x 1016 x 1016 mm	72 / 33	129 / 59
P5-36-XT	23.6" 600 mm	36" x 27" x 35" 914 x 676 x 889 mm	40" x 40" x 40" 1016 x 1016 x 1016 mm	99 / 45	157 / 71
P5-48-XT	23.6" 600 mm	48" x 27" x 35" 1219 x 676 x 889 mm	45" x 55" x 40" 1143 x 1397 x 1016 mm	138 / 63	195 / 88
Models with Extra Tall Straight Legs (Reduced Depth)					
P5-24-XTS	23.6" 600 mm	24" x 24" x 35" 610 x 610 x 889 mm	40" x 40" x 40" 1016 x 1016 x 1016 mm	72 / 33	129 / 59
P5-36-XTS	23.6" 600 mm	36" x 24" x 35" 914 x 610 x 889 mm	40" x 40" x 40" 1016 x 1016 x 1016 mm	99 / 45	157 / 71
P5-48-XTS	23.6" 600 mm	48" x 24" x 35" 1219 x 610 x 889 mm	45" x 55" x 40" 1143 x 1397 x 1016 mm	138 / 63	195 / 88

Specifications are subject to change without notice.

PRODUCT SPECIFICATIONS

Purair Model	P5-24 P5-24S P5-24-XT P5-24-XTS	P5-36 P5-36S P5-36-XT P5-36-XTS	P5-48 P5-48S P5-48-XT P5-48-XTS
Airflow CFM	135.9	206	281.25
Face Velocity FPM	100	100	100
Noise, dBA, 1 meter	< 50	< 50	< 53
Lighting	<... Compact fluorescent lamp. ...>		
Construction	<... White epoxy coated steel frame and head unit. Clear sides and back panel. ...>		
Blower	<... ebmpapst™ centrifugal fan. ...>		
Electrical	<... 120V, 60Hz or 220V, 50Hz voltages available. Specify when ordering. Other voltage options available. ...>		
Electrical Switches	<... Main On/Off ...>		
Monitoring	<... Low airflow alarm, standard. ...>		

Filter Specifications

Pre-Filter	Electrostatic, 1 lb / .45 kg (nominal)		
Main*	(1) 11 lbs / 5 kg	(1) 11 lbs / 5 kg	(2) 11 lbs / 5 kg

* Single stack; double stack doubles weight of all (i.e. 22, 22, 44).

OPTIONS & ACCESSORIES

Purair Model		P5-24 P5-24S P5-24-XT P5-24-XTS	P5-36 P5-36S P5-36-XT P5-36-XTS	P5-48 P5-48S P5-48-XT P5-48-XTS
Advanced Control Panel*	Includes On/Off switch, low airflow alarm, and hour meter to aid in determining available filter life. Panel also comes equipped with a Filter Saturation Alarm with an electronic gas sensor that emits audio and visual alerts when the main filter needs to be changed.	ADV-P	ADV-P	ADV-P
Spill Tray	Polypropylene spillage tray, available in white or black, slides out for easy cleaning.	TRAY-P5 TRAY-P5-S TRAY-P5 TRAY-P5-S	TRAY-P5-36 TRAY-P5-36-S TRAY-P5-36 TRAY-P5-36-S	TRAY-P5-48 TRAY-P5-48-S TRAY-P5-48 TRAY-P5-48-S
Dwyer Air Flow Meter	Continuous display of face velocity.	DWYER	DWYER	DWYER
Base Stand, Mobile, with Casters	Provides a lower storage shelf; accommodates wheelchair access. Locking casters fix the hood in place.	P5-CART	P15-CART	P20-CART
Base Cabinet, Fixed	Provides storage space below and a cup sink, swan neck faucet, and service fixtures.	P5-ENCB	P15- ENCB	P20- ENCB
ADA Compliance*	Provides wheelchair access and lowered remote controls.	<... All Purair Basic models are available in ADA compliant configurations. Contact Air Science for ordering information. ...>		
Polypropylene Construction*	Cabinets are available in all polypropylene construction. Contact Air Science for information.	P5-24-PP P5-24S-PP P5-24-XT-PP P5-24-XTS-PP	P5-36-PP P5-36S-PP P5-36-XT-PP P5-36-XTS-PP	P5-48-PP P5-48S-PP P5-48-XT-PP P5-48-XTS-PP
Duplex Electrical Outlet*	Two NEMA-1420R receptacles with ground fault interrupter. 110V service standard; international fixtures available.	AS-GFI	AS-GFI	AS-GFI
Service Valve*	Cabinets can be fitted with service fixtures such as petcocks, faucets or valves.	<... SF-X. Specify service fitting type (faucet, valve, petcock) and location when ordering. ...>		
Stainless Steel Hanging Rod*	Hanging rod spans the width of the cabinet.	HANGR-P5-24	HANGR-P5-36	HANGR-P5-48
Cup Sink, Mounts into Tray*	Cup sink is fitted into the base tray.	SINK	SINK	SINK
UV lamp**	A UV lamp is available for overnight decontamination of interior surfaces. The UV kit includes a timer, door microswitch, fully closing front sash, and UV filtering clear polycarbonate panels. The UV operation must comply with local codes and facility safety practices.	UV-P5	UV-P15	UV-P20

* Factory installed; specify when ordering.

** Includes timer, door microswitch, fully closing front sash and all clear polycarbonate panels (UV filtering). Safety precautions need to be followed.

STANDARDS & COMPLIANCE

Quality Management Systems	ISO 9001
Chemical Fume Containment	ANSI/ASHRAE 110 1995
Carbon Filter Efficiency	BS 7989-2001 AFNOR NFX 15-211
Biological Safety Filter Efficiency HEPA and ULPA	IEST-RP-CC-0034.2 IEST-RP-CC007.1 IEST-RP-CC001-4 EN 1822
Electrical Safety	UL-C-61616A CE Mark ROHS Exempt under EEE Category 9
Product Design	ANSI Z 9.5-2003 ANSI Z 9.7-1998
OSHA, Occupational Safety and Health Administration	OSHA Standard -29 CFR, Safety and Health Regulations for General Industry, 1910.1450: Occupational exposure to hazardous chemicals in laboratories, Part B, definition, laboratory type hood. All Air Science products meet this definition.
Environment	ISO 14001 Energy Star Partner

FILTER SUMMARY

Formula	Description
GP Plus!	The most widely used filter in the range, primarily for solvent, organic, and alcohol removal.
ACI Plus!	Neutralizes volatile inorganic acid vapors.
ACR	Iodine and methyl iodide vapors. It is frequently used for iodination reactions with low level radioactive iodine.
ACM	Mercury vapor.
AMM	Removes vapors from dilute ammonia solutions and to remove low molecular weight amines.
SUL	Designed to remove hydrogen sulfide and low molecular weight mercaptans.
CYN	Removal of hydrogen cyanide. Many cyanide compounds will evolve HCN gas if acidified, so this filter is normally specified if working with any cyanide compound.
FOR	Designed to oxidize formaldehyde and glutaraldehyde fumes. It is widely used in hospital pathology laboratories.
ETH	Diethyl ether is adsorbed on activated carbon, but because of its low boiling point, local heat adsorption can reduce the capacity of the filter. Special impregnation allows a chemical reaction which increases the filter capacity.
HEPA/UPLA	Powders and particulates.



120 6th Street • Fort Myers, FL 33907
 T/239 489 0024 • Toll Free/800 306 0656 • F/900 306 0677
www.airscience.com





Part of Thermo Fisher Scientific

QUOTATION

July 31, 2018
Quote # COR-002



QUANTITY DESCRIPTION

UNIT PRICE (USD)

- 1 PURAIR BASIC DUCTLESS FUME HOODS:**
Low airflow alarm, 100 f/m face velocity, self securing hinged door panels, whisper quiet brushless and sparkless centrifugal fan, clear acrylic side panels for 360° viewing, patented "Easy-Clamp" that totally eliminates any by-pass leakage, FILTRETE electrostatic pre-filter, light weight and completely portable, 110-130VAC 60HZ

P5-48XT (48"W x 27"D x 35"H): \$2,830

*External dimensions shown; 24" depth versions also available (add 'S' to end of model#)

RECOMMENDED FILTER SELECTION (PURAIR P5-24, P5-36 require one, P5-48 requires two same type, also filters can be stacked to handle multiple applications)

- 1 ACI Plus! 11 lb. Main carbon filter (for acids) \$ 200 x2 = \$400
1 HEPA filter (for particulates) \$ 220 x2 = \$440

Note: Over 14 different types of activated carbon filter media are available. These formulas can be customized or layered into a configuration to best suit your specific application. For assistance, contact a Sales Representative at 1-800-306-0656

OPTIONAL EQUIPMENT:

OPTION	PURAIR P5-48
GPR chemical resistant spillage tray	\$168
Heavy duty steel cart with lockable casters	\$695
DWYER™ Continuous Airflow Display	\$59
Integral fluorescent lighting-(\$175 value)	No charge
Cable slip ports- Qty 2 rear wall-(\$95 value)	No charge
Fan Speed Controller- (\$125 value)	No charge

Best Price Guarantee - Your pricing won't get any better than this!

Looking for the best price for your laboratory equipment? This is the place. We guarantee the best pricing... and it's easy. If you get a lower quote for a similar product with comparable features from any other major competitor, simply email us the details to get that price, plus an additional 10% off! See our Best Price Guarantee terms and conditions for more information.

STANDARD TERMS & CONDITIONS

- SHIPPING:** F.O.B. Fort Myers, FL. Items are shipped LTL freight and charges are prepaid and added to the invoice. Dock-to-dock only, Lift gate truck and inside delivery extra fees apply.
- WARRANTY:** Please visit www.airscience.com/warranty for details.
- TERMS:** Prices do not include taxes, duties or other fees. Offer valid 30 days from issuance. Please visit www.airscience.com/terms-and-conditions for full details. It is the responsibility of the customer to ensure this product complies with all relevant standards and local safety codes.

PO Box 62296 • Fort Myers • Florida • 33907 • Tel 800-306-0656 • Fax 800-306-0677
Tax ID# 54-2089015; GSA Contract # GS-07F5832P
www.airscience.com



BUSINESS SYSTEMS



of SOUTH CAROLINA

7276 Peppermill Pkwy.
N. Charleston, SC 29418
(843) 552-7211
(843) 552-7631 Fax

Price Quotation

DATE	ESTIMATE NO.
10/2/2018	7099

NAME / ADDRESS				
Lancaster County Sheriff's Department P.O. Box 908 Lancaster, SC				
		REP	PROJECT	REQUIRED BY
		E Cox	Fencing	Christine Rogers
QTY	DESCRIPTION	SIZE/CAT#	UNIT	TOTAL
1	Wirecrafters Fence To Include: - Shipping - Drawing/Layout attached - Model 840 Wire Mesh - Card Reader Ready, Electric Strike, 2 Keyed Locks (Takes two people to open door) - Height 8' - Field cut around column		10,471.00	10,471.00T
1	Conversion Kit for Addon Starter		700.00	700.00T
	Shipping		200.00	200.00T
	Installation		2,800.00	2,800.00
	- Actual Hours will be billed.			
	8% Sales Tax (2482)		8.00%	909.68
THANK YOU FOR THE OPPORTUNITY TO QUOTE		TOTAL		\$15,080.68

This quotation is made for immediate acceptance and is subject to change without notice. Custom forms presupposes your acceptance of overruns or underruns not exceeding 10% of quantity ordered. All electrical hardwiring will be customer's responsibility. Credit Cards are welcomed. Freight F.O.B Origin

SIGNATURE _____



Lancaster County IT Department
 101 North Main Street
 Lancaster, South Carolina, 29720
 USA

Estimate Number: 1116

Estimate Date: Oct 1, 2018

Bill To:

Sheriff's Office - CSI

Account #: 1033

Attention: Christy Rogers

Phone: 803-313-2136

Email: crogers@lacoso.net

PO Number: 013887

Billing Address:

1520 Pageland Hwy

Lancaster, SC, 29720

USA

Shipping Address:

(Same as above)

Description	Item No.	Qty	Unit	Unit Price	Amount
DVR - 16-Channel, 1080p, 2TB HDD -H.265 video compression -24/7 security grade hard drive -Dual stream video for bandwidth conservation		1	item	\$644.99	\$644.99
Additional camera - 1080p HD, bullet -Night vision, low-light -Anti-glare, split glass -Indoor-outdoor, vandal resistant		1	item	\$44.95	\$44.95
18-Channel CCTV Power Supply -12V DC, 18 port regulated power -Max 10 Amp. total -LED indicators & PTC output protection		1	item	\$54.99	\$54.99
Additional motion sensor + installation		1	service	\$1,000.00	\$1,000.00
Card reader + installation		1	service	\$3,200.00	\$3,200.00
Subtotal:					\$4,944.93
Tax:					\$59.59
Balance Due:					\$5,004.52 (USD)

Payment Terms

Note: This document is not a contract or a bill, only an estimate of the parts and materials described above. Industry prices fluctuate on a daily basis; if there is a significant increase in the cost of an item or should additional parts and materials be required, you will be informed prior to proceeding with the purchase.

If you have any questions, please contact the IT department:

—(803) 416-9448

—support@lancastercountysc.net