Fume Extraction

REMOVES HARMFUL particulates and gases

the latest advancements in filter condition monitoring and process control

Fume Extractor

Pace, Inc.
www.paceusa.com
Part #5400-0103 Rev. 8/99

Elmatik AS, Türi 9, 11314 Tallinn Estonia tel. +372 650 3875 tel. +372 650 3876 fax +372 655 8019 e-mail: elmatik@elmatik.ee
With offices worldwide, PACE, Inc. is a recognized world leader in the development of products and training for the assembly and repair of highly advanced electronics. The company’s expertise extends back literally to the dawn of the modern electronics industry. In 1958, PACE introduced training programs for the repair of printed wire assemblies, and soon after, revolutionized the industry by creating the first self-contained vacuum desoldering system.

Today, PACE continues to provide innovative solutions, products and training for the assembly, rework, repair and testing of printed circuit boards. PACE’s unique capabilities and evolving vision have provided universal solutions to thru-hole and surface mount assembly and rework problems for the most advanced electronics. Our strong commitment and history of achievement has resulted in an unparalleled range of Assembly, Repair and Fume Extraction systems to meet your company’s needs whether working to ISO-9000, industrial, military or your own internal specifications. Whatever the challenge, PACE stands ready to set a new standard for you.
PACE Fume Extraction – The World’s Leader in Benchtop Fume Removal
For a Safer, Cleaner Working Environment

Recommended by International Institutes of Occupational Safety and Health.

It’s a fact...hazardous fumes in the working environment result in increased absenteeism, employee turnover, worker’s compensation claims and lost productivity. Medical research has confirmed an increased incidence of occupational asthma, chronic bronchitis, allergic reactions and other health related effects associated with exposure to these fumes.

PACE Fume Extraction Systems reduce these health risks by removing harmful particulates and gases before they reach the worker’s breathing zone. These systems are easily positioned close to the source, safely capturing the fumes which then pass through our proven filtration system.

PACE Fume Extraction Systems feature the latest advancements in filter condition monitoring and process control. Incorporating progressive microprocessor technology, PACE Fume Extraction Systems continuously track and control crucial operating parameters and provide innovative features such as direct connection to personal computers and electronic air monitoring sensors. Each system is composed of rugged steel construction and includes a heavy duty brushless motor for years of trouble-free use.

Convenient, disposable filter cartridges are easily changed eliminating the need for messy cleaning and costly service visits. In addition, PACE offers a wide variety of fume extraction accessories to meet virtually any application.

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**Features**

- High volume air flow
- Heavy duty brushless motor
- 18 gauge steel construction
- On/off switch located on front panel
- Easy filter access
- Compact and self-contained
- Includes pre-filter, general purpose combo filter and power cord

**System Specs**

<table>
<thead>
<tr>
<th>Unit:</th>
<th>Arm-Evac 200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Requirements:</td>
<td>120VAC, 60Hz 3 Amps 230VAC, 50Hz 1.38 Amps</td>
</tr>
<tr>
<td>Size:</td>
<td>280mm (11&quot;)W x 330mm (13&quot;)D x 395mm (15.5&quot;)H</td>
</tr>
<tr>
<td>Weight:</td>
<td>14 Kg (32 lbs.)</td>
</tr>
<tr>
<td>Sound Level:</td>
<td>59 dBA @ 2m (6&quot;)</td>
</tr>
<tr>
<td># Inlets:</td>
<td>Two 75mm (3&quot;) dia.</td>
</tr>
<tr>
<td>Free Blowing Flow Rate:</td>
<td>510 m³/h (300 cfm)</td>
</tr>
</tbody>
</table>

- # Workbench Connections: 45mm (1.75") and 50mm (2") 4
- # Workbench Connections: 65mm (2.5") and 75mm (3") 2
- Microprocessor Controls: No
- Maximum Duct Run: 5m (16') per inlet

---

**Filter**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>PART NUMBER</th>
</tr>
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<tbody>
<tr>
<td>General Purpose Filter Cartridge</td>
<td>Combination of HEPA and Gas Filters.</td>
<td>8883-0931</td>
</tr>
<tr>
<td>Optional Adhesive Filter Cartridge</td>
<td>Blend of Adsorptive and Chemisorptive Medias.</td>
<td>8883-0951</td>
</tr>
<tr>
<td>Optional Cleanroom Filter Cartridge</td>
<td>Combination of HEPA and Bonded Activated Carbon Filters.</td>
<td>8883-0921</td>
</tr>
<tr>
<td>Optional Economy Filter Cartridge</td>
<td>Carbon-Impregnated Reticulated Foam Media.</td>
<td>8883-0871</td>
</tr>
<tr>
<td>Optional Extended Life Filter Combination</td>
<td>For increased service life. Includes condensed pleat combo HEPA/Gas Filter.</td>
<td>8883-0936</td>
</tr>
</tbody>
</table>
Compact, Portable Filtration with Intelligence for 1 to 4 Workstations

Accessories

Benchtop Controller for Arm-Evac 250
P/N 8884-2250
— Includes LED filter condition monitor, three-speed controller and remote cable
— Dimensions: 140mm (5.5")W x 75mm (3")D x 30mm (1.25")H

Arm-Evac 250
Arm-Evac 250  P/N 8889-0255  120VAC, 60Hz
Arm-Evac 250  P/N 8889-0250  230VAC, 50Hz

Features
— Microprocessor controlled
— Three-color LED filter condition gauge
— Laser-trimmed electronic air flow sensor
— Self-calibrates to specific arm configuration
— Audible alarm alerts operator of filter change
— Three-speed air flow adjustment
— Intelligent air flow compensation – motor pump speed increases as filter becomes loaded
— RS232C port for computerized connection
— Includes pre-filter, general purpose combo filter and power cord

System Specs

Unit: Arm-Evac 250
Power Requirements: 120VAC, 60Hz 3 Amps 230VAC, 50Hz 1.38 Amps
Size: 280mm (11")W x 330mm (13")D x 395mm (15.5")H
Weight: 14 Kg (32 lbs.)
Sound Level: 59 dBA @ 2m (6’)
# Inlets: Two 75mm (3") dia.
Free Blowing Flow Rate: 510 m³/h (300 cfm)
# Workbench: 45mm (1.75") and 50mm (2") 4
Connections: 65mm (2.5") and 75mm (3") 2
Microprocessor Controls: Yes
Maximum Duct Run: 5m (16’) per inlet

Options

Typical Applications
Electronic Soldering, Laser Cutting, Stained Glass Production, Jewelry Manufacturing and Repair, Brazing
Benchtop Adhesive Procedures, Gluing Operations, Laboratory Demonstrations
Fine Particulate and Gas Removal in Designated Cleanroom Environments
Sandng Procedures, Grinding Operations, Benchtop Machining
High Production Soldering Operations
For filter details, see page 7
**Features**

- Benchtop microprocessor controller with LCD display*
- Continuous particle and gas filter monitoring
- Self-calibrates to specific arm configuration
- Laser-trimmed electronic air flow sensor
- Intelligent air flow compensation – motor pump speed increases as filter becomes loaded
- RS232C port for computerized connection
- Optional silencer/mobile cart
- Includes extended life pre-filter, HEPA filter, gas filter and power cord

**System Specs**

- **Unit:** Arm-Evac 400
- **Power Requirements:** 120VAC, 60Hz 3 Amps 230VAC, 50Hz 3 Amps
- **Size:** 342mm (13.5")W x 353mm (14")D x 460mm (18")H
- **Weight:** 22 Kg (49 lbs.)
- **# Inlets:** Two 75mm (3") dia.
- **Free Blowing Flow Rate:** 595 m³/h (350 cfm)
- **# Workbench Connections:** 45mm (1.75") and 50mm (2") 6
  - 65mm (2.5") 3
  - 75mm (3") 2
- **Microprocessor Controls:** Yes
- **Maximum Duct Run:** 7.5m (24') per inlet

**Microprocessor Controller with LCD Display**

For the Arm-Evac 400, Arm-Evac 1200 and Lab-Evac 150

- Easy to use
- Particulate/gas sensing and monitoring to ppm detection
- Interactive 32-character display
- Seven languages always accessible: English, Spanish, French, German, Italian, Portuguese, and Swedish
- Pump speed adjustable to 18 levels
- Audible alarm alerts operator when filter change is necessary
- Self-calibrates to particular arm configuration
- Access code protected to eliminate tampering

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**ITEM DESCRIPTION** | **PART NUMBER**
--- | ---
Extended Life Pre-Filter (Pkg.10) | 8883-0140-P10
HEPA Filter Cartridge | 8883-0945
Gas Filter Cartridge | 8883-0946

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Silencer/Mobile Cart for Arm-Evac 400
P/N 8885-1425
- Dimensions: 342mm (13.5")W x 353mm (14")D x 150mm (6")H
- Weight: 5.9 Kg (13 pounds)
Large Production and Classroom Environments
for 6 to 16 Workstations

Arm-Evac 1200

Arm-Evac 1200  P/N 8889-1205  220VAC, 60Hz 3ph
Arm-Evac 1200  P/N 8889-1200  230VAC, 50Hz

Features
— Front panel mounted microprocessor controller with LCD display*
— Continuous particle and gas filter monitoring
— Self-calibrates to specific arm configuration
— Laser-trimmed electronic air flow sensor
— Two inlet styles for versatile installations
— RS232C port for computerized connection
— Optional remote microprocessor controller
— Silencer and locking casters included
— Includes pre-filter, HEPA filter, and gas filter

System Specs
Unit: Arm-Evac 1200
Power
220VAC, 60Hz 3ph  230VAC, 50Hz
Requirements: 10.6 Amps 8 Amps
Size: 530mm (21")W x 810mm (32")D x 1270mm (50")H
Weight: 75 Kg (165 lbs.)
Sound Level: 59 dBA @ 2m (6’)
# Inlets:
One 150mm (6") dia. top inlet
Four 75mm (3") dia. side inlets
Free Blowing
Flow Rate: 3060 m$^3$/h  (1800 cfm)
# Workbench
45mm (1.75")  16
50mm (2")  14
65mm (2.5")  10
75mm (3")  8
Connections:
Microprocessor Controls: Yes
Maximum Duct Run: 80m (260’) per inlet

Options

<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>PART NUMBER</th>
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<tr>
<td>Pre-Filter (Pkg. 10)</td>
<td>8883-0141-P10</td>
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<tr>
<td>HEPA Filter Cartridge</td>
<td>8883-0541</td>
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<tr>
<td>Gas Filter Cartridge</td>
<td>8883-0941</td>
</tr>
</tbody>
</table>

Elmatik AS, Türi 9, 11314 Tallinn Estonia tel. +372 650 3875 tel. +372 650 3876 fax +372 655 8019 e-mail: elmatik@elmatik.ee
Portable Work Center for Individual Operations

**Lab-Evac 150**
Lab-Evac 150  P/N 8883-0105  120VAC, 60Hz  
Lab-Evac 150  P/N 8883-0100  230VAC, 50Hz

**Features**
- Front panel mounted microprocessor controller with LCD display (see page 4)
- Continuous particle and gas filter monitoring
- Laser-trimmed electronic air flow sensor
- RS232C port for computerized connection
- Clear polycarbonate cover
- Self-contained and portable, no installation required
- Static-safe strap snaps included
- Includes pre-filter, HEPA filter, and gas filter

**System Specs**
Unit: Lab-Evac 150

| Power Requirements: | 120VAC, 60Hz 3 Amps | 230VAC, 50Hz 1.38 Amps |
| Size: | 600mm (23.5")W x 635mm (25")D x 495mm (19.5")H |
| Weight: | 35 Kg (77 lbs.) |
| Sound Level: | 59 dBA @ 2m (6') |
| Free Blowing Flow Rate: | 595 m³/h (350 cfm) |

# Workstations: 1  
Work Area: 600mm (23.5")W x 300mm (11.75")D

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**Tip-Evac Systems**

For Pinpoint Fume Removal Right at the Soldering Iron Tip

- Self-contained
- A cost-effective method of removing and filtering fumes from hand soldering operations without adversely affecting tip temperature
- Fume Extraction Tube Kits are available for adaptation to all popular soldering stations
- Variety of central filtration units available
- Quiet operation

---

**FILTER OPTIONS**

<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>PART NUMBER</th>
</tr>
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<tbody>
<tr>
<td>Pre-Filter (Pkg. 5)</td>
<td>8883-0120-P5</td>
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<tr>
<td>HEPA Filter</td>
<td>8883-0521</td>
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<tr>
<td>Gas Filter</td>
<td>8883-0975</td>
</tr>
</tbody>
</table>

Elmatik AS, Türi 9, 11314 Tallinn Estonia tel. +372 650 3875 tel. +372 650 3876 fax +372 655 8019 e-mail: elmatik@elmatik.ee
### 45mm (1.75”) Static-Safe Accessories

- **45mm (1.75”) Static-Safe Metal Flex Arm**
  - P/N 8886-0429
  - Conserves benchtop space
  - Rugged stainless steel construction, 0.9m (3’) long
  - Complete with unique Fume Scoop endpiece and Bench Mount Flange

### 50mm (2”) Static-Safe Accessories

- **50mm (2”) Static-Safe Metal Flex Arm**
  - P/N 8886-0550
  - Easy to move in and out of position
  - High quality stainless steel construction, 0.9m (3’) long
  - Variety of endpieces available (see inset)
  - Includes Locking Adjustable Air Flow Controller and Bench Mount Flange

Optional Locking Adjustable Air Flow Controller for 45mm (1.75”) Metal Flex Arm
- P/N 8886-0509

A Static-Safe Fume Scoop for 50mm (2”) Metal Flex Arm
- P/N 8886-0530

B Stainless Steel Static-Safe 100mm (4”) Nozzle for 50mm (2”) Metal Flex Arm
- P/N 8886-0318

C Stainless Steel Static-Safe 200mm (8”) Nozzle for 50mm (2”) Metal Flex Arm
- P/N 8886-0328

---

**ITEM DESCRIPTION** | **PART NUMBER**
--- | ---
Bench Mounting Bracket for 45mm (1.75”) and 50mm (2”) Flex Arm | 8886-0552
50mm (2") Static-Safe Accessories

- Joints lock into position
- 50mm (2") Two-Section Articulated Arm P/N 8886-0158
  - Reach: 530mm (21") radius
- 50mm (2") Three-Section Articulated Arm P/N 8886-0155
  - Reach: 860mm (34") radius
- 50mm (2") Wall-Mounted Three-Section Articulated Arm P/N 8886-0135
  - Reach: 940mm (37") radius

65mm (2.5") Static-Safe Accessories

- Joints lock into position
- 65mm (2.5") Two-Section Articulated Arm P/N 8886-0650
  - Reach: 685mm (27") radius
- 65mm (2.5") Three-Section Articulated Arm P/N 8886-0652
  - Reach: 940mm (37") radius
- 65mm (2.5") Wall-Mounted Articulated Arm P/N 8886-0654
  - Reach: 940mm (37") radius

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**BRACKETS**

<table>
<thead>
<tr>
<th>ITEM DESCRIPTION</th>
<th>PART NUMBER</th>
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<tr>
<td>Bench Mounting Bracket for 65mm (2.5&quot;) Arm</td>
<td>8886-0662</td>
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<tr>
<td>Wall-Mounting Bracket for 65mm (2.5&quot;) Arm</td>
<td>8886-0664</td>
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<tr>
<td>Bench Mounting Bracket for 50mm (2&quot;) Arm</td>
<td>8886-1121</td>
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<tr>
<td>Wall-Mounting Bracket for 50mm (2&quot;) Arm</td>
<td>8886-1111</td>
</tr>
</tbody>
</table>

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**Static-Safe Metal Plenum**
P/N 8886-0366
- For wide area extraction
- 18 gauge steel construction
- 460mm (18") W x 130mm (5") H x 130mm (5") D
- Includes 2.5m (8') of 75mm (3") Flex Hose

**Static-Safe Laminar Flow Endpiece with Bench Stand**
P/N 8886-0939
- For large air volume extraction
- 250mm (10") x 300mm (12")
- Includes adjustable bench stand and 2.5m (8') of 3" Flex Hose

**75mm (3") Fume Collection Accessories**

**Plastic Flex Arm**
75mm (3") Flex Tube
P/N 8882-0752

**A Fume Scoop**
P/N 8886-0937
- For focused, directional fume extraction

**B Fume Hood**
P/N 8886-0930
- For omni-directional fume extraction

**C Laminar Flow Endpiece**
P/N 8886-0938
- For high volume laminar flow fume extraction

**Installation Accessories**
PACE has a wide variety of ducting accessories to complete your installation. Please contact your local PACE representative for options available.
Configuration Examples

**#1**
1. Arm-Evac 200 (P/N 8889-0205 / 8889-0200) or Arm-Evac 250 (P/N 8889-0255 / 8889-0250)
2. 75mm (3") Flex Tubes (P/N 8882-0752)
3. 75mm (3") Fume Scoops (P/N 8886-0937)

**#2**
1. Arm-Evac 200 (P/N 8889-0205 / 8889-0200) or Arm-Evac 250 (P/N 8889-0255 / 8889-0250)
2. 75mm (3") Flex Tubes (P/N 8882-0752)
3. 75mm (3") Fume Scoops (P/N 8886-0937)
4. 75mm (3") Flex Arm Bench Mounting Kits (P/N 8886-0363) includes Bench Mounting Bracket and 2.5m (8') of 75mm (3") Flex Hose

**#3**
1. Arm-Evac 200 (P/N 8889-0205 / 8889-0200) or Arm-Evac 250 (P/N 8889-0255 / 8889-0250)
2. 50mm (2") Metal Flex Arms (P/N 8886-0550)
3. 50mm (2") Fume Scoops (P/N 8886-0530)
4. Bench Mounting Brackets (P/N 8886-0552)
5. 2.5m (8') of 75mm (3") Flex Hose with 75mm (3") to 50mm (2") Reducer (P/N 8886-0299)

**#4**
1. Arm-Evac 200 (P/N 8889-0205 / 8889-0200) or Arm-Evac 250 (P/N 8889-0255 / 8889-0250)
2. Metal Plenums (P/N 8886-0366) includes 2.5m (8') of 75mm (3") Flex Hose

**#5**
1. Arm-Evac 200 (P/N 8889-0205 / 8889-0200) or Arm-Evac 250 (P/N 8889-0255 / 8889-0250)
2. 50mm (2") Metal Flex Arm (P/N 8886-0550)
3. 50mm (2") Fume Scoop (P/N 8886-0530)
4. Bench Mounting Bracket (P/N 8886-0552)
5. 2.5m (8') of 75mm (3") Flex Hose with 75mm (3") to 50mm (2") Reducer (P/N 8886-0299)
6. Metal Plenum (P/N 8886-0366) includes 2.5m (8') of 75mm (3") Flex Hose
Call about new Fume Extraction ISO 14000 PC Software.

Ask about new Arm - Evac 100 Specifications.

Place order for new Fume Extraction System.

**Useful Equivalent and Conversion Table**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Equivalent</th>
<th>Unit</th>
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</thead>
<tbody>
<tr>
<td>1 Centimeter</td>
<td>= 0.3937</td>
<td>Inches</td>
</tr>
<tr>
<td>1 Cubic meter</td>
<td>= 35.31</td>
<td>Cubic feet</td>
</tr>
<tr>
<td>1 Foot</td>
<td>= 0.3048</td>
<td>Meters</td>
</tr>
<tr>
<td>1 Inch of water</td>
<td>= 0.07355</td>
<td>Inches of mercury</td>
</tr>
<tr>
<td>1 Kilogram</td>
<td>= 2.205</td>
<td>Lbs.</td>
</tr>
<tr>
<td>1 Liter</td>
<td>= 0.03551</td>
<td>Cubic feet</td>
</tr>
<tr>
<td>1 Meter</td>
<td>= 3.281</td>
<td>Feet</td>
</tr>
<tr>
<td>1 Pound</td>
<td>= 453.5924</td>
<td>Grams</td>
</tr>
<tr>
<td>Temp.(°C)</td>
<td>=</td>
<td>5/9 [Temp. (°F) - 32]</td>
</tr>
<tr>
<td>Temp.(°F)</td>
<td>=</td>
<td>9/5 Temp. (°C) + 32</td>
</tr>
</tbody>
</table>
Comprehensive Hands-On Training for Printed Circuit Board Production, Rework and Repair

**PACE classroom training combines:**
- Conductive and Convective Technology
- Video Instruction
- Classroom Lecture and Theory
- Instructor Demonstration
- Maximum Hands-On Practice
- Written Materials for Future Reference

**Results:** Increased product quality and employee productivity

**Customized training to suit your needs**

**One week courses available in:**
- SMT Rework and Repair
- High Reliability Thru-Hole Soldering
- Multi-Layer and Flexible Circuit Repair
- BGA/CSP Rework and Repair

**Two day courses available in:**
- SMT Rework
- High Reliability Thru-Hole Soldering
- Mixed Technology (SMT and Thru-Hole) Rework
- Thru-Hole PCB Repair
- Mixed Technology (SMT and Thru-Hole) PCB Repair
- BGA/CSP Rework and Repair

**PACE provides everything**
- All Equipment, Training Materials and Training Aids
- PACE will ship in and ship out all necessary items

State of the art equipment and training materials are utilized
Courses are conducted in accordance with the latest industry specifications
Attendees are encouraged to bring problem boards for discussion and analysis

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For more information about the complete line of PACE Products contact your local distributor or PACE.

<table>
<thead>
<tr>
<th>PACE Product Line</th>
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<th>Thermofluid Systems</th>
<th>Fume Extraction</th>
<th>Support Systems</th>
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<td>ST 115P</td>
<td>MBT 201</td>
<td>TF 200</td>
<td>Lab-Evac 150</td>
<td>Arm-Evac 200</td>
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<tr>
<td>ST 115</td>
<td>MBT 220</td>
<td>TF 700</td>
<td>Arm-Evac 1200</td>
<td>Arm-Evac 250</td>
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<td>ST 85</td>
<td>MBT 250</td>
<td>TF 500</td>
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<td>HS 200 Heat Wave</td>
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<td>ST 75</td>
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<td>ST 45</td>
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<tr>
<td>ST 25</td>
<td>TF 700</td>
<td></td>
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</tbody>
</table>

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Tilbrook, Milton Keynes,
MK7 8HX
United Kingdom
Tel: (44) 1908 277666
Fax: (44) 1908 277777

Systems for Development,
Production, and Repair of
Electronic Assemblies

Arm-Evac, Cir-Kit, ConducTweez, CRAFT, Flo-D-Sodr,
Heat Wave, HotSpot, LapFlo, MBT, Micro Portable,
MicroChine, MiniChine, Mini-Wave, PACE, PACENTER,
Pik-Tip, Prep-Set, ResisTweez, SensaTemp, Snap-Vac,
Sodr Pen, Sodr-X-Tractor, ST, StripTweez, Thermo-
Drive, ThermoFlo, ThermoJet, ThermoPart, ThermoPik,
and ThermoTweez are registered trade and/or service
marks of PACE, Inc. Laurel, MD USA.

PACE products meet or exceed all applicable military
and civilian EOS/ESD, temperature stability and other
specifications, including MIL-Std-2000, ANSI/J-Std-001,
and IPC-A-610.

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Systems for Development,
Production, and Repair of
Electronic Assemblies

Arm-Evac, Cir-Kit, ConducTweez, CRAFT, Flo-D-Sodr,
Heat Wave, HotSpot, LapFlo, MBT, Micro Portable,
MicroChine, MiniChine, Mini-Wave, PACE, PACENTER,
Pik-Tip, Prep-Set, ResisTweez, SensaTemp, Snap-Vac,
Sodr Pen, Sodr-X-Tractor, ST, StripTweez, Thermo-
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