

# FRIAMAT 6 110V



## ELECTROFUSION SYSTEMS

### A NEW ERA IN ELECTROFUSION

- Advantages
- Workflow Digital Solutions
- Technical Details



We build tough products for tough environments®

## **Your hero for challenging conditions: FRIAMAT 6 110V**

Our new fusion units have been modernized using the latest state of the art technology.

Our successful FRIAMAT 6 model includes:

- Flow-optimized active cooling
- Robust housing
- High-quality graphic display
- Intuitive user interface
- Bluetooth enabled

### **The easy way to work on the construction site**

Our fusion unit adapts to the user, not the other way round. That is why we have developed FRIAMAT 6 in such a way that they are extremely convenient and flexible to use on job site. Their compact and robust design increase mobility. Thanks to the ergonomic handle, the unit can be carried comfortably.

### **Documentation made easy**

FRIAMAT 6 offers many digital functions for documentation and extended traceability, enabled by the new Bluetooth interface in combination with the WorkFlow solution. With the optional 1D/2D scanner, the new FRIAMAT 6 is also ready to read and process 2D barcodes according to ISO 12176-5. This enables you to capture all information required for fusion including traceability data and extended product information with just one scan.





# A new era in Electrofusion

## Advantages at a Glance

**HIGH PERFORMANCE** by flow-optimized, active cooling for reduced downtimes and process times. Allowing high efficiency in continuous use and processing fittings in large dimensions

**GREAT USABILITY AND EASE OF USE** through a TFT display with a clear menu structure and user guidance, sunlight-suitable and optimally readable even in the most unfavorable lighting conditions

**SAFE USE AND PROCESS CONTROL** by displaying all process data at all times, prevention of performance related fusion aborts through FRIAMAT 6 preCheck function, simplified and standardized processes as well as correct temperature recording

**EASY HANDLING** thanks to low-weight, comfortable portability and increased mobility due to extended cable designs

**FULL DOCUMENTATION AND TRACEABILITY:** advanced data processing according to ISO12176 and ASTM F2897 thanks to the Bluetooth interface and connection to the WorkFlow app

**SERVICEABILITY AND SUSTAINABILITY** thanks to dedicated service centers providing full maintenance, repair and spare part availability to ensure reliability





## Extreme Conditions? Not a Problem

With the latest FRIAMAT 6 generation, high-the fusion units are developed for extreme temperatures down to minus 4 degrees Fahrenheit (-20 Celsius). This ensures maximum performance and efficiency with zero downtime- even in icy regions.

Developed for extreme conditions, the new FRIAMAT 6 works reliably and precisely at temperatures up to 122 °Fahrenheit (50 °Celsius). Thanks to Active Cooling Technology, cooling already starts during fusion. This means that any number of fusion processes can be carried out in succession – without any time waiting for the system to cool.

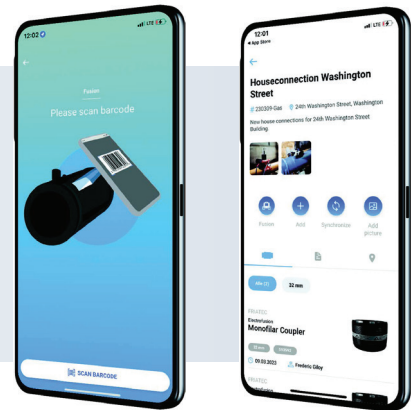
Overcoming limits, making the unthinkable possible and meeting deadlines in absolute safety. That is what the new FRIAMAT 6 generation does. Even in extreme humidity and rainfall. On such days, the IP54 certification ensures optimal conditions – so that every fusion process is in safe hands.

User-friendliness also means always having a clear, reliable view. No matter how bright the sun, how problematic the lighting conditions or unfavorable the position – the extremely bright and high-contrast 4.3" TFT color display provides a clear-cut view and guarantees legibility.

# WorkFlow Digital Solutions:



- Live-tracking on the construction site
- All components at a glance thanks to GPS data
- Automated fusion protocol generation
- Real-time access to data in secure cloud



## Simple. Robust. Digitized.



Never has it been easier to document fusion process data. Using the new Bluetooth interface, you can pair the FRIAMAT 6 with the WorkFlow solution on your smartphone. You can then simply scan fusion and traceability barcodes or control the fusion process easily and conveniently.

### WorkFlow. Digital construction site management

The WorkFlow system is the smart combination of mobile app, web interface and secure cloud, all data from your Bluetooth enabled fusion units are managed in real time. WorkFlow Mobile and WorkFlow Web run on our cloud architecture – 24/7 lightning fast via SSL secure data connections to our high-performance servers. These are equipped with latest generation processors. Powerful technology for the construction site that also makes no compromises on security in the cloud – thanks to internationally recognized ISO/IEC 27001 certification.

### Simpler. More secure

Documentation is created and updated during the fusion and pipe installation work, with automatic protocol generation – that's what we mean by simpler. No more time wasted sifting through paper and gathering data. Thanks to digital tracking, every step of the installation process is traceable – bringing better control and greater security. If a problem does occur, it can be located quickly. The stress of searching for the source is a thing of the past. Find out more about the compelling benefits of WorkFlow on the following pages.



# The Benefits of WorkFlow

## No more paper clutter

Filling out fusion protocols by hand? That's in the past. Collecting slips of paper with notes? Over. Making printouts and distributing them? Forget it! WorkFlow does it all automatically, and without time-consuming administrative tasks.

## Protocol generation at the touch of a button

The Bluetooth enabled fusion unit and WorkFlow Mobile make it possible – press once and you're ready to go. All fusion operations are digitally processed and protocols can be created as CSV, XLS, or PDF reports.

## Around the clock and everywhere

All projects with every piece of information at your fingertips – fusion data, components and fittings, photos and comments as well as geodata and maps are synchronized via the cloud. 24 hours a day, 7 days a week, in real time and in WorkFlow Mobile as well as WorkFlow Web.

## All components at a glance

Where are the components installed? With the map-based component view, you will never ask yourself this question again. Thanks to GPS data, the exact location of all components is displayed on a map.

## Live-tracking on the construction site

How is the installation work going? You can track construction progress in real time from the site container or from the office – without losing information or time, just as if you were right there on site.

## Minimize errors

Sure, mistakes happen. But they shouldn't. WorkFlow significantly reduces the risk of documentation errors. Ensuring reliable documentation and secure control.

## Teamwork at its best

Construction sites are teamwork – which is precisely why everyone should always have an overview. With WorkFlow, the team always has the information they need. And not only the team on the site, but everyone you invite to a project. From the supervisor to the office staff to partner companies.

## Enhanced Security

First and foremost: all interactions between smartphone, cloud and browser are encrypted using SSL. And all data and content collected during use are and remain yours. We only use anonymized product data – such as error messages in the fusion unit.

# FRIAMAT 6 110V Technical Details\*

Unit type	Universal fusion unit with documentation and traceability function and Bluetooth interface
Version with mini-scanner	Order no. 611129
Version with 1D/2D scanner	Order no. 614129
Maximum diameter	48" IPS (d1200)**
Input voltage range	AC 95 V - 130 V
Frequency range	44 Hz ... 66 Hz
Input current	AC 30 A max
Power	3.5 kW
Unit fuse	2 x 15 A slow acting
Fusion voltage	8 - 48 V
Output current	Max. 110 A
Fusion current monitor	Short circuit and open circuit
Barcode type	16-digit (according to ASTM F2897-21), 24-digit (according to ISO 13950: 2007-03), 30-digit (according to ISO 12176-3), 2D barcodes (according to ISO 12176-5)
Interface	USB / Bluetooth® Low Energy V4.2 (CE, FCC, IC certified)
Documentation of fusion and traceability data	Yes
Data memory	20,000 protocols
Log format	JSON / CSV
Manual barcode emergency entry	Yes
FRIAMAT 6 preCHECK function	Yes
Software update via USB port	Yes
Operator pass	Optional (order no. 623100)
Supervisor pass	Available soon
Working temperature range	-4°F ... +122°F (-20 °C ... +50 °C)
Languages	4*
Power cable	16' with shaped plug
Fusion cable	13' with fitting connector, 0.15" diameter
Weight	Approx 42 lbs (19 kg)
Dimensions W x D x H	10" x 20" x 13"
Casing	IP54 / protection class I
Approval/quality	CAN/CSA C22.2 No. 60335-1-16 2th Edition, CAN/CSA C22.2 No. 60335-2-45, UL 60335-1 6th Edition, IEC 60335-1 Edition 5.2.2016, EC 60335-2-45, ISO 12476-2 (FOB)
Accessories	Operating instructions, transport box

\* Specifications subject to change

\*\* With FRIAMAT 6, FRIALEN and FRIAFIT safety fittings up to 36 IPS (d900) can be fused in the entire working temperature range from -4°F ... +122°F (-20°C ... +50°C). Use to process fittings from other manufacturers, even up to 48 IPS (d1200) and possibly larger, is fundamentally possible. However, the specific power requirement of the fitting at the prevailing processing temperature must first be clarified with the fitting manufacturer.



## SALES AND CUSTOMER SERVICE

**IPEX USA LLC**

**Toll Free: (800) 463-9572**

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Markets served by IPEX by Aliaxis products are:

- Electrical systems
- Telecommunications and utility piping systems
- Industrial process piping systems
- Municipal pressure and gravity piping systems
- Plumbing and mechanical piping systems
- Electrofusion systems for gas and water
- Industrial, plumbing & mechanical, and electrical cements
- Irrigation systems
- PVC, CPVC, PP, PVDF, PE, and ABS pipe and fittings

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