



A new era in electrofusion

FRIAMAT 6 110V



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

The new FRIAMAT generation meets your needs even better. We have modernized our tried-and-tested FRIAMAT fusion units to the latest state of the art.

We made the FRIAMAT “fit for the future” in order to simplify your work – in every respect. Starting with the unit’s high performance to easier and simpler operation and documentation.

FRIAMAT, our successful model, which we have thoroughly revised:

- **flow-optimized active cooling**
- **robust housing**
- **high-quality graphic display**
- **intuitive user interface**
- **Bluetooth enabled**

FRIAMAT additionally 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 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.

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 in such a way that they are extremely convenient and flexible to use on the building site. Their compact and robust design increase mobility. Thanks to the ergonomic handle, the unit can be carried comfortably. Simply tilt the unit to work better: the FRIAMAT is also ideally suited for this.

The extremely bright and high-contrast display is easy to read, in bright sunshine as well as on dark rainy days.

Documentation made easy

With FRIAMAT you can document all relevant information quickly and easily, providing full documentation and traceability according to ISO 12176 and ASTM F2897. Besides fusion, traceability or GPS data, additional data on the building site can also be recorded and stored.

You can enter data using the proven mini-scanner or manually via a virtual keyboard. With the new, optional 1D/2D barcode scanner, the FRIAMAT is also ready to read 2D barcodes according to ISO 12176-5.

With just one scan (one scan fuse), you can capture all information required for fusion including traceability data and extended product information.

And it gets even easier: Using the new Bluetooth interface, you can pair the FRIAMAT with the WorkFlow app, which also offers a scan function for barcodes. Many other useful functions are also available.

Advantages at a glance:

High performance by flow-optimised, active cooling for reduced downtimes and process times and 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 unfavourable lighting conditions

Safe use and process control by displaying all process data at all times, prevention of performance-related fusion aborts through FRIAMAT 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 long cables

Convenient use in tilted position for easy operation – ideal for all construction site conditions even on inclined and uneven surfaces

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 long service life





Save your thoughts about the cold. It does not matter.

Snow, ice and slippery conditions pose extreme challenges for man and machine on construction sites. Nevertheless, work must go ahead. With the latest FRIAMAT generation, it does. Because the high-tech 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.



Stay cool. Even in the hottest moments.

Plenty of sun and heat make for wet brows. But downtimes on construction sites are not an option. Developed for extreme conditions, the new FRIAMAT generation works reliably and precisely at temperatures up to 122 degrees 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 spent waiting.



Be prepared. Even for rainy days.

Overcoming limits, making the unthinkable possible and meeting special requirements at all times. In absolute safety. That is what the new FRIAMAT 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.



Bright light is no longer a challenge. That's a promise!

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

Simple. Robust. Digitised.

Never has it been easier to document fusion process data and other relevant information. Using the new Bluetooth interface, you can pair the FRIAMAT with the WorkFlow solution on your smartphone. You can then simply scan fusion and traceability barcodes or control the fusion process easily and conveniently. And there are many more reasons for a FRIAMAT.

Powerful and economical in use

- State-of-the-art toroidal transformer technology with flow-optimized active cooling reduces downtimes and process times
- Future-proof microcontroller technology
- Robust housing design for tough site use
- Longer cables increase mobility on the building site
- Long-term usability through coordinated equipment service and spare parts availability
- Software updates via USB port
- Delivery in robust transport box included

Easy documentation and data management

- Recording and documentation of fusion and traceability data according to ISO 12176 and ASTM F2897 as well as extended installation information, such as order number and welder
- Up to 20,000 fusion logs can be stored in the unit
- Output as CSV or JSON format via standard USB stick
- Bluetooth interface for connection to the FRIAMAT app
- Optional 1D/2D scanner and thus ready for processing 2D barcodes according to ISO 12176-5

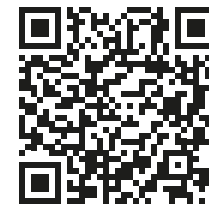
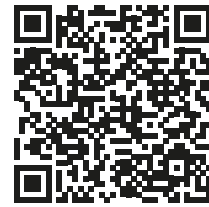
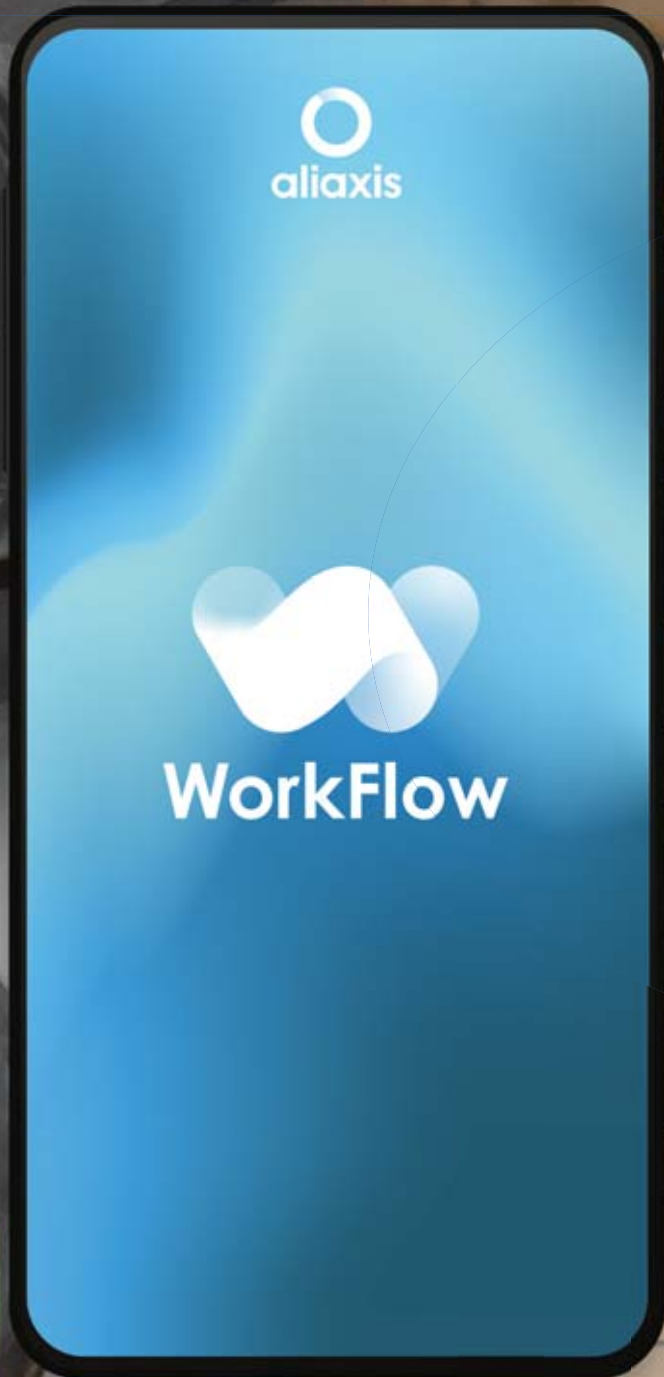
Simple and comfortable to use

- High-resolution, extremely bright 4.3" TFT colour display guarantees best readability
- Intuitive user interface with clear menu structure
- With FRIAMAT preCHECK function: the FRIAMAT determines automatically whether the next fusion weld can be performed completely to the end
- Tiltability for easy and convenient use in all site conditions

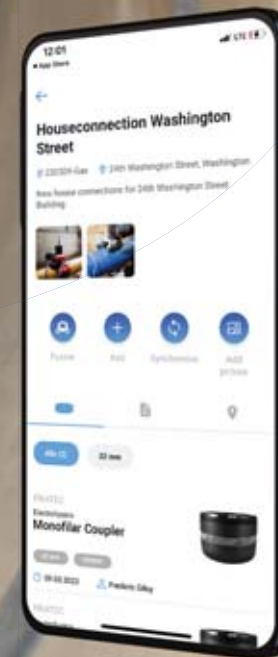
Soon available:

- Supervisor function for individualisation of device functions and specification of operating sequences





- 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



Made for smarter days. The digital solution.

That's the way we make your job easier and smarter. Using the new bluetooth interface, you can pair the FRIAMAT with the WorkFlow system on your smartphone.

It's that easy: Install. Click. Done.

WorkFlow is our cutting-edge system that lets you document your work directly on site. Without changing location. Without any paperwork. Without any risk. Our WorkFlow system – comprising the fusion unit, WorkFlow Mobile and WorkFlow Web – has no unnecessary gimmicks. Just security and transparency! It is easy to use and enables efficient tracking, saving time and nerves. Data is sent from the smartphone to where it belongs: the office.

WorkFlow. Digital construction site management today.

There are things that were better in the past. And there are things that are better today. One of these is the pipe-fitting process with the WorkFlow system. With the smart combination of mobile app, web interface and secure cloud, all data from your Bluetooth enabled fusion units is managed in real time. WorkFlow Mobile and WorkFlow Web run on our cloud architecture – 24x7 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 recognised ISO/IEC 27001 certification.

Simpler. More secure. WorkFlow.

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.





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.



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.



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, pdf or DVS reports.



Minimise errors

Sure, mistakes happen. But they shouldn't. WorkFlow significantly reduces the risk of documentation errors. Ensuring reliable documentation and secure control, but also less sweat on your brow.



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 synchronised via the cloud. 24 hours a day, 7 days a week, in real time and in WorkFlow Mobile as well as Workflow Web.



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.



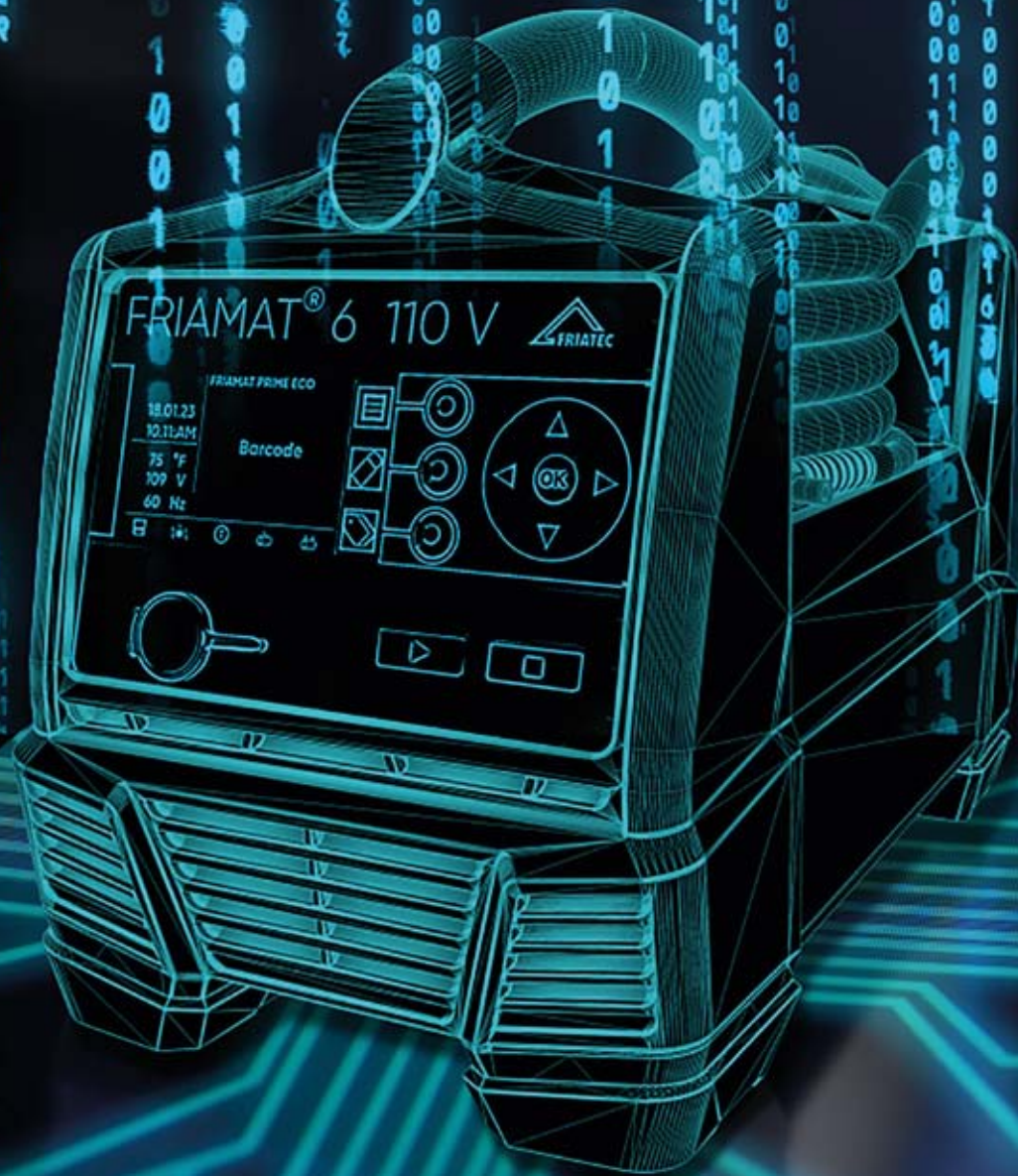
All components at a glance

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.



Security with no ifs or buts

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 anonymised product data – such as error messages in the fusion unit – to make WorkFlow Mobile that little bit better.



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Technical details*	FRIAMAT 6 110V
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 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	5 m with shaped plug
Fusion cable	4 m with fitting connector, 4 mm diameter
Weight	Approx 42 lbs (19 kg)
Dimensions W x D x H	260 x 500 x 340 mm
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, 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.



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