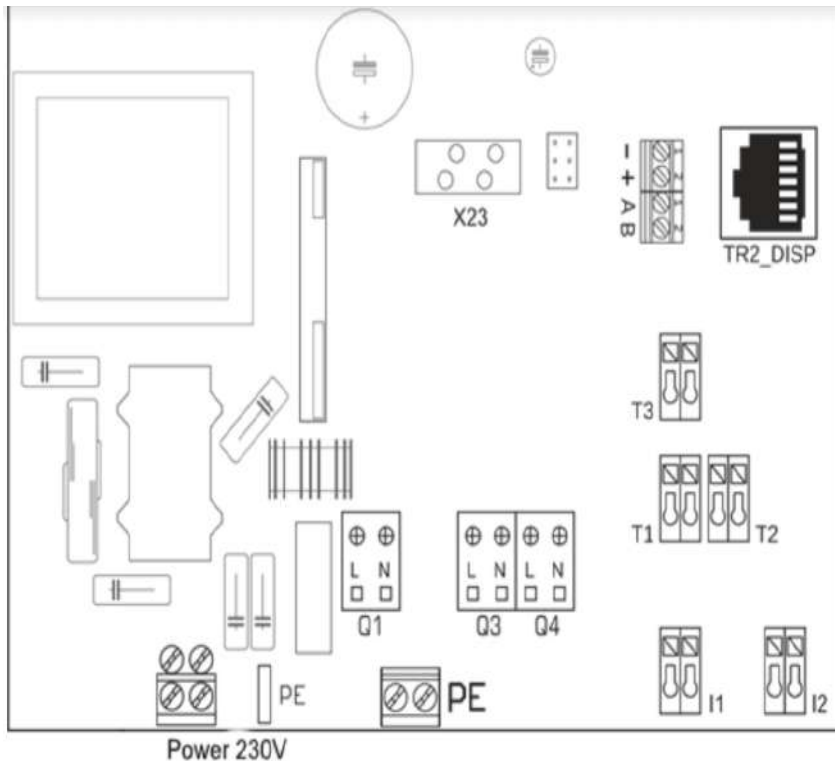


UNI Install Guide

We encourage you to read this guide carefully and take your time to learn about our units, please take a look and reach us if you have any questions.



Symbol	Designation
Q1	Fan outlet
Q3	CH pump outlet
Q4	HUW pump output
I1	Emergency thermostat STB
I2	Central heating room thermostat
T1	Boiler temperature sensor
T2	HUW temperature sensor
T3	Exhaust gas temperature sensor
TR2_DISP	Panel connector
X23	Additional alarm (optional)
- + AB	Alternative slot for additional modules

Controller Recommended Settings

User Menu

Boiler Setpoint: 65°C / 149°F
Exhaust Setpoint: 160-240°C / 320-464°F
Fan ON Time: 10sec
Fan OFF Time: 5min
Maximum fan speed: 80%
Minimum fan speed: 40%
Fan performance in Supervision: 35%

Boiler Settings

Brager expert exhaust gasses - Firing up time: 10 min
Fan slowdown threshold: 12°C / 21°F
Boiler Hysteresis: 2°C / 5°F
Maximum boiler temperature: 80°C / 176°F
Boiler shutdown temperature: 35°C / 95°F
Pump start temperature: 35°C / 95°F
Fan type: WPA 07 / DM85 (Most common to use)
Firing up time: 120 minutes
Boiler cooling temperature: 78°C / 172°F

Note: The use of Boiler Protection Valve is a must if using below 140°F.

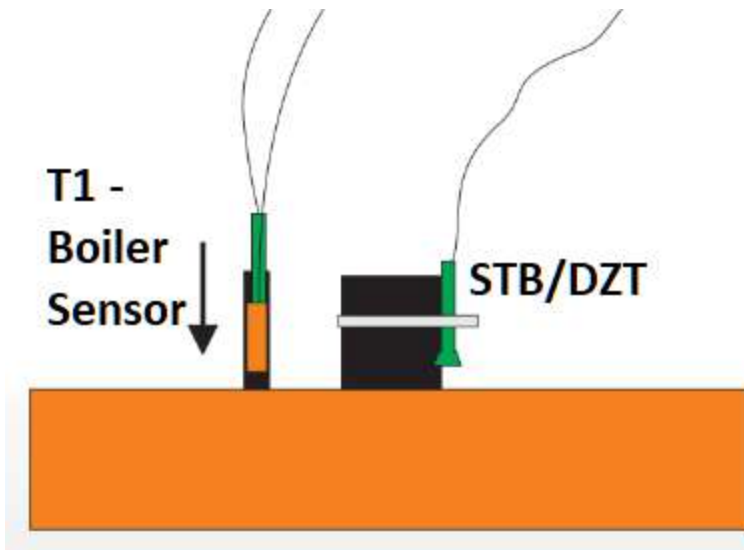
The return water can generate heavy condensation on the unit giving the impression of a water leak.

HUW Mode (DHW mode)

- 1 Disable the heating pump to fill the DHW faster
- 2 Simultaneous operation of heating and DHW pump
- 3 Enable DHW in SUMMER without the central heating system
- 4 Disable DHW

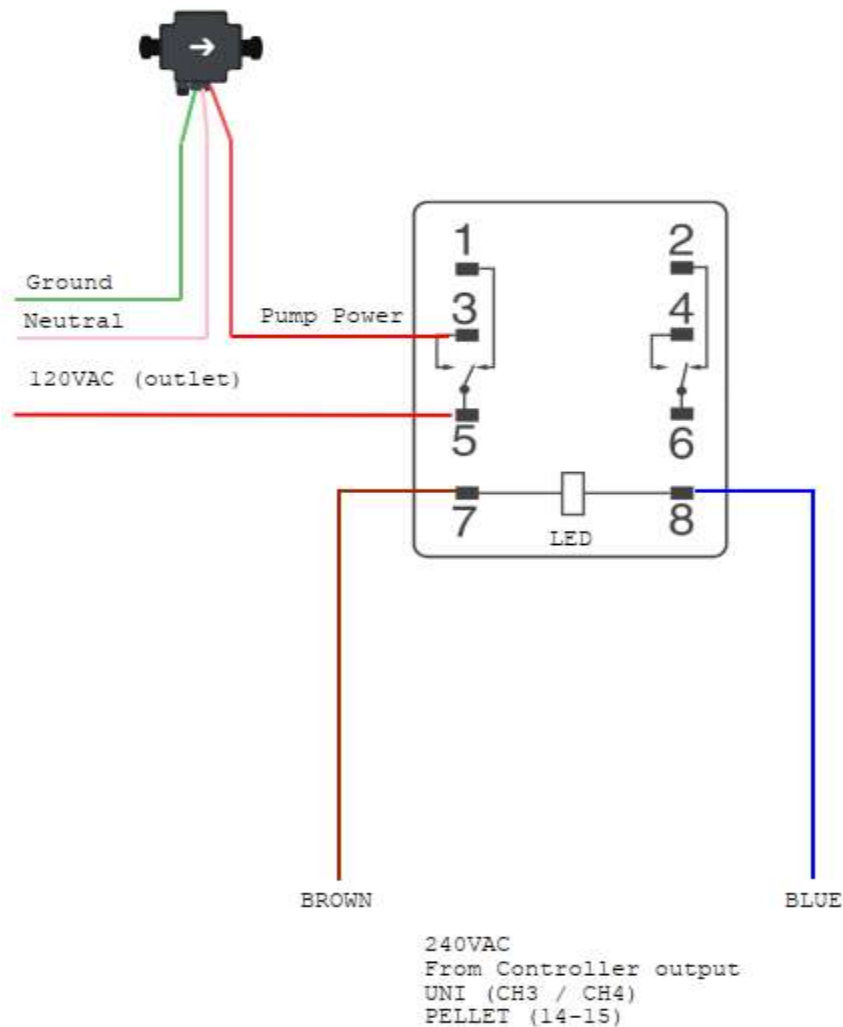
*If DHW sensor is disconnected, the mode can't be changed.

Sensor placement



How to connect a 110V Pump

First, make sure to connect the 220V Relay block to the controller using contacts 7 and 8, then you can connect the 110V pump to 3 and 5 or 4 and 6.



Room Thermostat

Connect to terminal I2 with dry contact. If using a 24VAC thermostat use a 24VAC SPDT relay.

The fan doesn't turn on/The fan is very slow

If your fan makes a humming sound and does not turn, you need to increase the fan's minimum speed by going to the boiler settings. Set minimum fan speed to 40%, and a maximum fan speed to 80%

Flame Bumper (Old Units)

Bumper to stop the heat of the flame. It's mandatory because the upper door will burn without it.



Blank Screen

Verify connection using the electrical diagram. Make sure to switch ON the controller.

Verify those parameters with a multimeter.

- 1 - 220V on L and N
- 2 - Controller fuse continuity
- 3 - Verify terminal I1 for continuity, if not jump this contact
- 4 - If none of this work disconnects all from the controller except the L, N, and jumpers.

*The controller must be kept from hard freezing, overheating, water, or a very high-humidity environment. If water or condensation enters the controller immediately disconnect and dry using a hairdryer at a low temperature and wait for 24hrs and reconnect.

STB Overheating

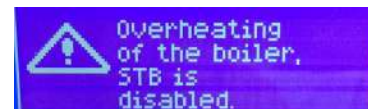
DZT-1/DZT-2 Thermal Protection Sensor

DZT sensor must be connected to terminal I1,

DZT-1 Thermal sensor, Open at 185°F/85°C, Close at 140°F/60°C.

DZT-2 Thermal sensor, Open at 200°F/95°C, Close at 155°F/70°C.

If you want to operate at a higher temperature you can order another DZT-2 at Parts UNI 15-40-60-95



Controller Manual:

[New TIS Tronic 260U Manual](#)

[Old TIS Tronic 83 Manual](#)

Boiler Manual:

[UNI Boiler Manual](#)

For more information go to: uni.mbtek.com

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